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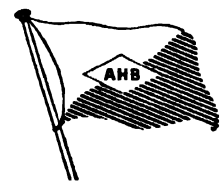
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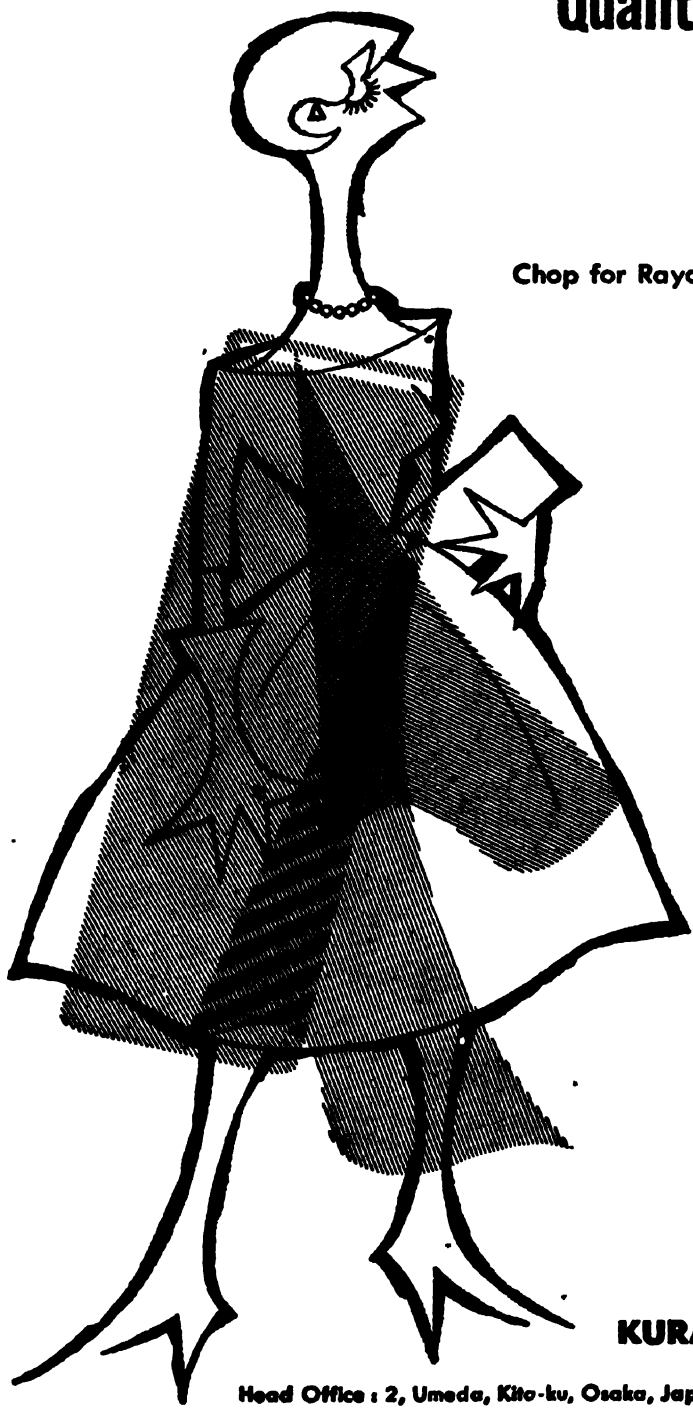
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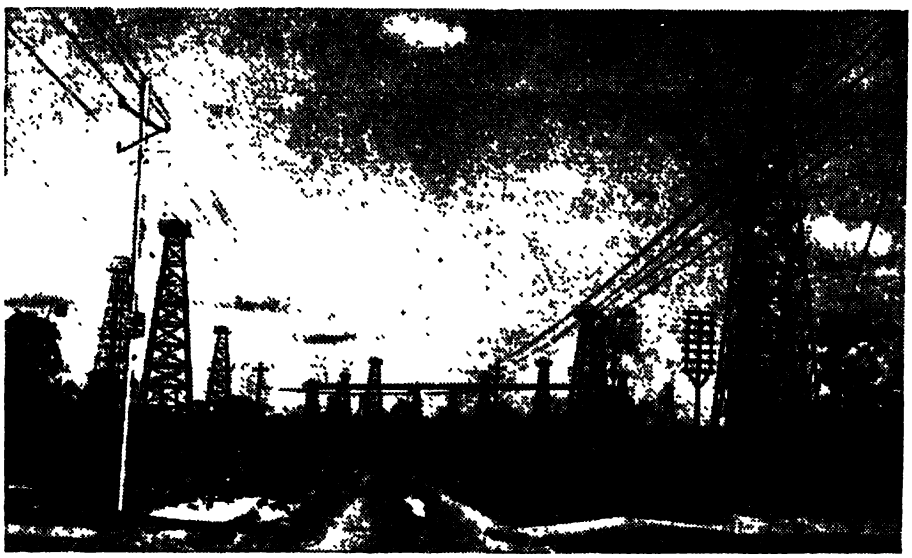
There is in some cases a discrepancy between the figures from the Central and a State Government relating to the same subject. This is generally pointed out in a foot-note.

State budgets for 1958-59 are given in a tabular form on page 1261. The figures given here should be taken as superseding those given under individual States.

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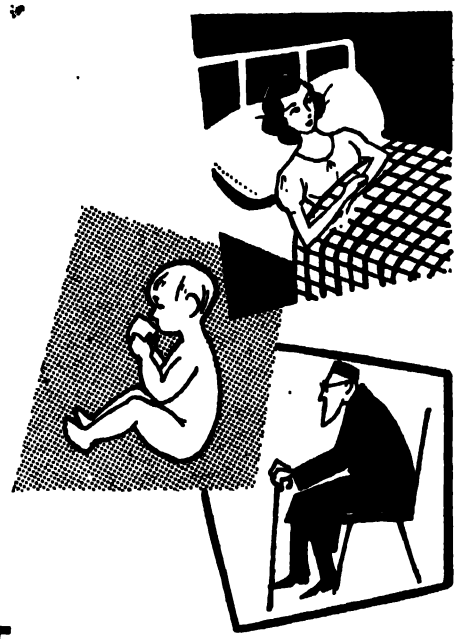
Many special kinds of skill are required to keep India supplied with oil, from the study of fossils to the operation of complicated plant in refineries.

Consider the complexity of the Assam Oil Company's operations at Digboi, in north-east India. Here, at India's first and hitherto only oilfield, nearly a thousand wells have been drilled into the earth's rocks—a total of over 300 miles of hole. More than 600 of these wells still yield oil regularly, modern production techniques ensuring that the maximum amount of crude is recovered from the field. Science and engineering skills guide every phase of the company's work, nowhere less than in Digboi refinery which in a single day supplies the Indian market with over 320,000 gallons of high-quality petroleum products. In all branches of this full-scale industry the Assam Oil Company employs nearly 9,000 persons, while many hundred more are engaged in serving the consumer.

ASSAM OIL COMPANY

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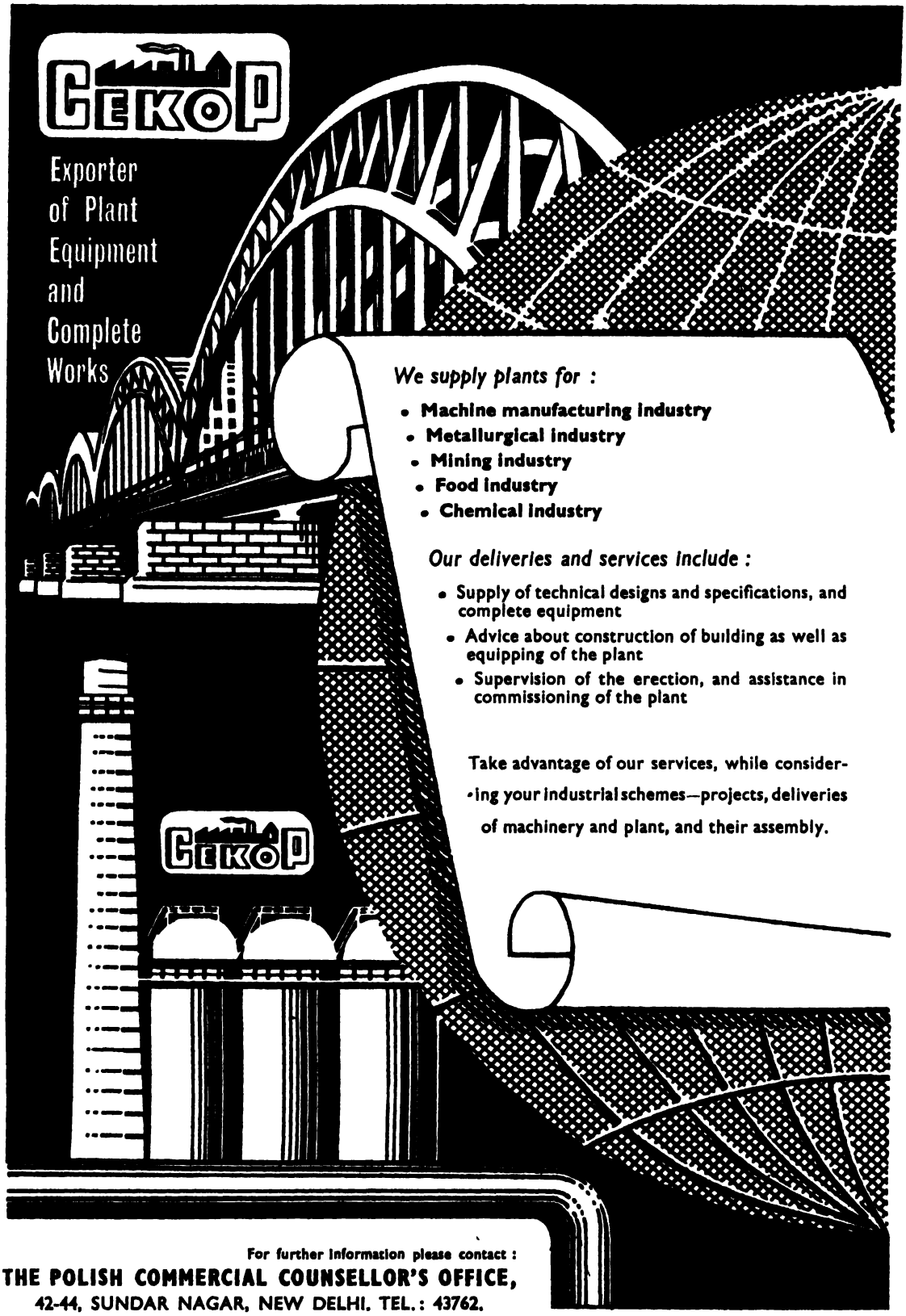
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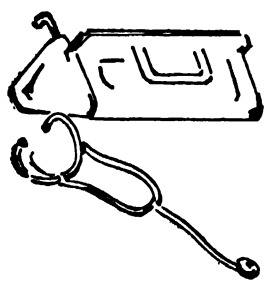
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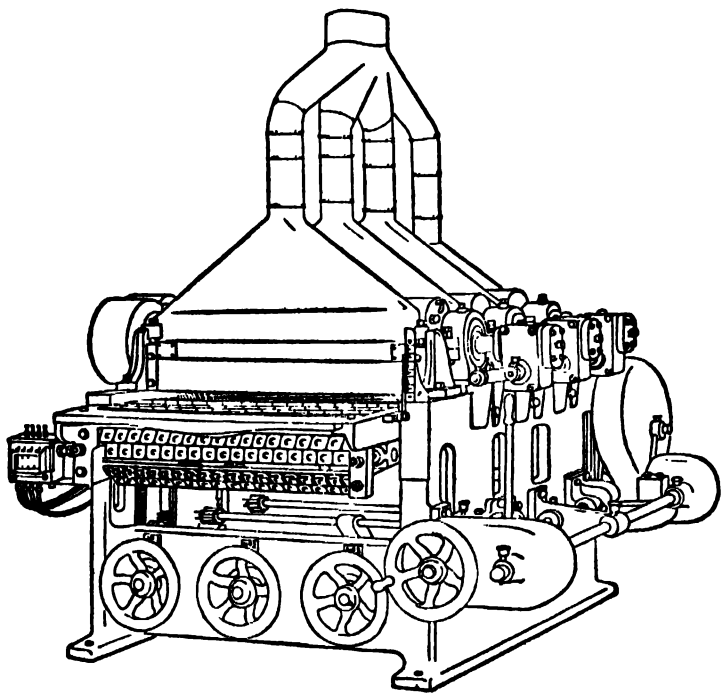
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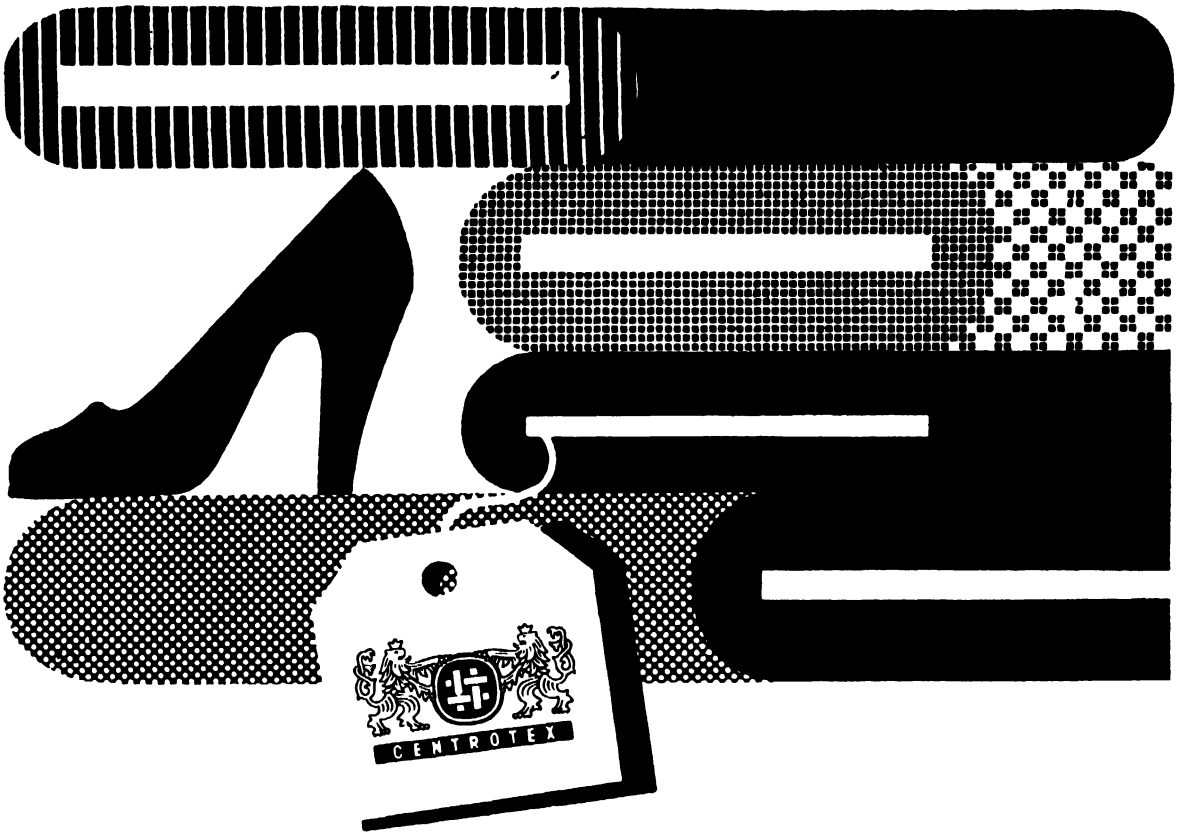
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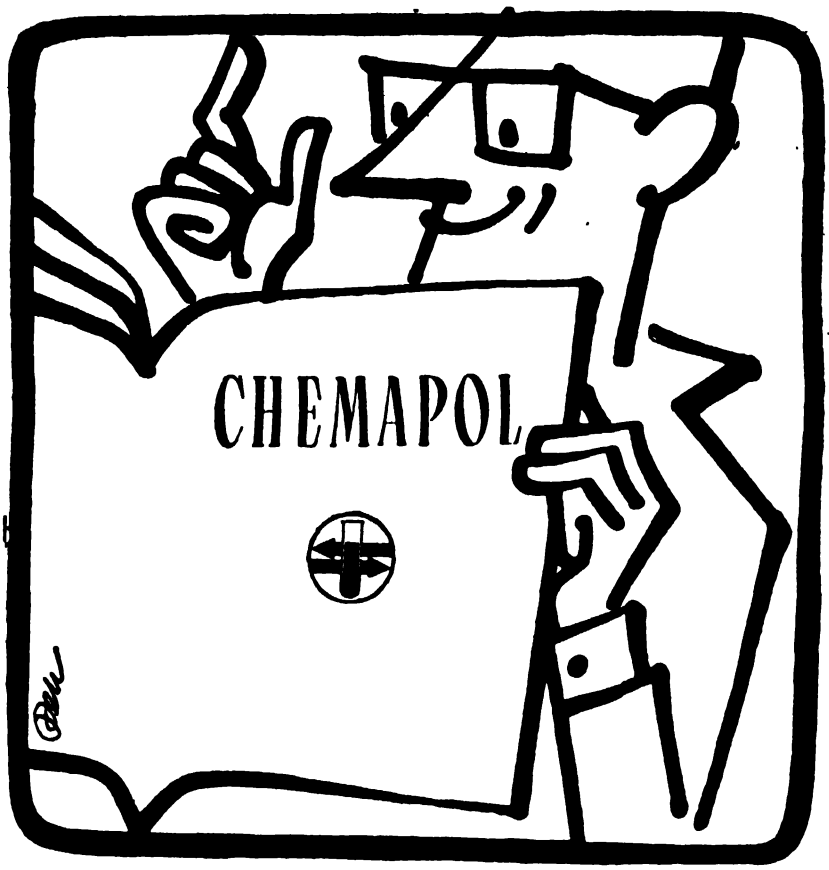
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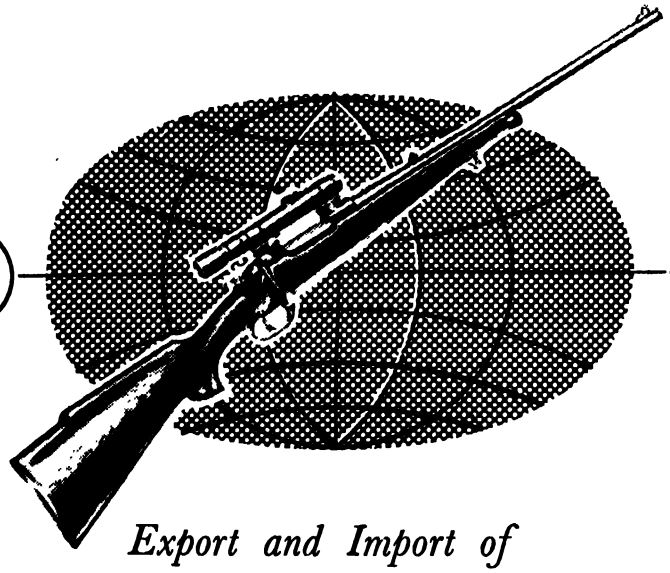
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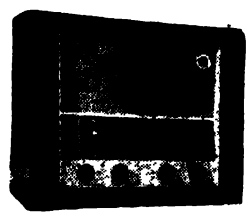
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[illegible]

PHYSIOGRAPHY

GEOGRAPHICALLY the mass of land today called India consists of the territories contained in the Union of India and the Portuguese possessions of Goa, Daman and Diu.

The State of Pondicherry, Karikal, Mahe and Yanam (formerly French) is a de facto but not de jure part of India, though a treaty for a de jure transfer has been signed. It may be added here that this treaty awaits ratification by the Governments of India and France.

STATES, TERRITORIES

The country is divided into 14 States and six Territories. The latter are under Central administration.

The fourteen States (with the capital towns in brackets) are :

Andhra Pradesh (Hyderabad), Assam (Shillong), Bihar (Patna), Kerala (Trivandrum), Madhya Pradesh (Bhopal), Madras (Madras), Bombay (Bombay), Mysore (Bangalore), Orissa (Bhubaneshwar), Punjab (Chandigarh), Rajasthan (Jaipur),* Uttar Pradesh (Lucknow), West Bengal (Calcutta), Jammu and Kashmir (Srinagar).

The six Territories (with capital towns in brackets) are :

Delhi (Delhi), Himachal Pradesh (Simla), Manipur (Imphal), Tripura (Agartala), the Andaman and Nicobar Islands (Port Blair), the Laccadive, Minicoy and Amindivi Islands (temporary headquarters : Koshikode, Kerala).

These States and Territories came into being on 1st November, 1956.

In addition there are two territorial units : The North-East Frontier Agency and the Naga Administrative Unit.

GEOGRAPHY

India is about 1,700 miles from east to west, and about 2,000 miles from north to south. Its land frontier is about 8,200 miles long and the sea frontier about 3,500 miles.

The total land area is 1,269,640 sq. miles.

The total population is 356,879,394† (1951 census) a little less than one-sixth of the population of the whole world.

The land frontier with Pakistan is about 4,000 miles long (east and west together).

In shape India is like a triangle with its base resting on the Himalaya Mountains in the north and its apex running far into the ocean in the south. At the southern extremity the triangle tapers with a pear-shaped curve to a point called Cape Comorin.

India lies entirely to the north of the equator. From south to north including Kashmir, it stretches from 8° north latitude to 37° north latitude, with the Tropic of Cancer cutting it roughly into two halves. West to east it stretches from about 66° 20′ east longitude to 97° east longitude.

Broadly speaking, India is shut off from the mainland of Asia by the Himalaya Mountains, the highest mountain range in the world. Going from west to east along the country's land frontier are Pakistan, Chinese Turkestan, Tibet, China, Burma and Pakistan.

In the south, the country is surrounded on all sides by water—the Arabian Sea in the west, the Indian Ocean in the south and the Bay of Bengal in the east.

India is so vast and diversified that expressions like 'average rainfall,' 'average temperature' have no meaning. The average annual rainfall in the Thar desert is 4 inches, while that in Cherrapunji is 425.

Similarly places in Kashmir have a minimum temperature of 49° F. while places in Rajasthan have recorded a maximum temperature of 120° F. So one can only speak of local averages rather than of national averages.

Compared with the size of the country, the coast-line is short, as there are few bays or inlets. Hence there are also very few harbours. The fact is the west coast is rocky and the sea is deep near the coast, while in the east the sea is extremely shallow so that big ocean-going ships have to weigh anchor at some distance from the shore.

The only so-called natural harbours are Bombay and Goa, while Madras, Vishakapatnam and Port Okha are examples of purely artificial harbours built by human enterprise.

The principal ports in India are (going from west to east along the coast), Bedi Bunder, Port Okha, Porbandar, Surat, Bombay, Marmugao, Mangalore, Koshikode (Calicut), Cochin, Alleppey, Quilon, Tuticorin, Dhanushkodi, Nagapattinam, Karikal, Cuddalore, Pondicherry, Madras, Masulipatnam, Kakinada, Vishakapatnam and Calcutta.

Of these, Marmugao belongs to Portugal while the rest are in the Republic of India.

It may also be mentioned that the new harbour at Kandla in Kutch is now in use.

MOUNTAIN WALL

India can be divided into three natural regions—1. the mountain wall, 2. the Plain of Hindustan, and 3. the Indian Plateau.

Let us take the mountain wall first. From the Pamir Knot in the far north two mountain ranges radiate one in the south-east and easterly direction called the Himalayas, and the other in a south-western direction reaching almost down to the sea, called the Sulaiman Range in the north and the Kirthar Range in the south.

In the east the mountain wall between India and Burma is called by different names in different places. In the north, for instance, it is known as the Patkoi Hills, further south as the Naga Hills. In Assam it is called Jaintia, Khasi and Garo. Southward are the Lushai Hills, then lastly there are the Arakan Yoma which finally reach the sea at Cape Negrais and continue in the Andaman and Nicobar Islands.

Of the various ranges which constitute the mountain wall of India the Himalayas are the most note-worthy. Extending like a scimitar for a distance of 1,500 miles along the northern frontiers of the country they form the loftiest mountain range in the whole world, and contain many of the highest mountain peaks, Mount Everest 29,141 ft., Mount Godwin Austen 28,250 ft., and Kanchenjunga 28,146 ft.

There are no easy ways in and out through the mountain wall which shuts off India from the rest of Asia, but there are a few difficult passes. In the very north are the Zojila Pass and the Shipki Pass which lead out of Kashmir and Punjab respectively. Then from Shipki right down to Darjeeling there is no route across the mountain wall. Across the Burma frontier again there are a few routes but they are of little use for purposes of communication.

The following is a more detailed description of the mountain region.

In the east on the border of Burma the mountain wall is much lower. Here it can more accurately be described as a range of hills rather than of mountains. This region is wet, forested and very thinly populated. The region round about Cherrapunji in Assam has the highest rainfall in the world.

Then from Darjeeling to Kashmir are the Himalayas proper, over 1,500 miles in length and 150 to 300 miles in breadth. The Himalayas are thus not a mountain chain in the proper sense of the word. They can be described as a series of parallel but converging ranges intersected by valleys and big plateaus.

On the whole, the slopes of the mountains facing India are very steep, while those facing north are much more gentle. We say, on the whole, because though the eastern Himalayas (in West Bengal and Bihar) rise abruptly from the plains, in the west (western Uttar Pradesh and the Punjab) the rise from the plains is a little more gradual.

Hence the Himalayas themselves can be further sub-divided into three parallel zones, the Great Himalayas with an average elevation of 20,000 ft., always covered with snow ; the Lesser Himalayas, the middle range, with an average elevation of 15,000 feet ; and finally the Outer Himalayas lying between the Lesser Himalayas and the plains with an average elevation of about 3,500 feet.

The last are a sort of foot-hills to the Great Himalayas, and are usually described as forming the sub-Himalayan region, a region which extends from eastern Bihar to the Punjab all along the Plain of Hindustan.

In the north the altitude of the range is much lower : there are few peaks which exceed a height of 20,000 feet. The Punjab Himalayas are comparatively dry, and the snow-line is much higher than elsewhere. The northern slopes are bare while the southern slopes are forested.

Two of the longitudinal valleys which separate the mountain ranges are worth a note. They are the Vale of Kashmir and the valley of Katmandu in Nepal. Both the valleys are fertile, extensive and from a tourist's point of view a dream of beauty.

Thus it is clear the whole region possesses great variety in climate and a range of vegetation stretching from the tropics to the poles.

The north mountain wall has a tremendous influence on the physiography of the country. On the one hand it keeps out the bitterly cold winds which blow from Central Asia and Tibet during the winter, and on the other it intercepts the moisture laden winds which blow from the sea in the south so that the northern plains of the country have rain during the monsoon. Second, the melting snow and rain falling on the mountains go to form the chief source for the water of the rivers which flow from the Himalayas. Hence the rivers of Hindustan never go completely dry in the summer.

PLAIN OF HINDUSTAN

Geologically, the Ganges plain can be considered as the fore-deep of the mountains to the north of it. This fore-deep extends thousands of feet below the sea-level, though since its formation it has been filled in by deposit. In the east this deposit consists of alluvial material from the mountains, in the west it consists of material blown by the wind. All through the deposit is fine grained made up chiefly of muds and sands.

The Plain of Hindustan extends from the Bay of Bengal in the east to the Pakistan frontier in the west ; that is to say, it is about 1,600 miles long and from 150 to 200 miles broad. Throughout this vast tract of land not a hill can be seen. The slope from the mountains to the sea is so gradual that about 100 miles from the mouth of the River Ganges the surface is no more than 500 feet above sea-level.

The Plain of Hindustan is probably the most important part of the country. For one thing, it contains some of the richest soil in the world. Second, it is on the Plain of Hindustan that the whole drama of race conflict and race assimilation was played out, a drama which finally shaped the political and cultural destiny of both India and its neighbour Pakistan.

* A committee to decide on a permanent capital is in being.

† Excluding Kashmir, the population of which was estimated at 4·41 millions in 1951. The population of India grows roughly at the rate of between four and five millions a year. The population in 1957 could therefore be roughly estimated to be in the neighbourhood of 381 millions.

Going into more detail the Plain of Hindustan is formed by the basins of three distinct river systems. In the far west are the Beas and Sutlej, tributaries of the Indus draining into the Arabian Sea. Further east is the River Ganges with its tributaries the Jamuna, Gogra, Rapti and Gandak which flows south-eastwards into the Bay of Bengal. The capital of the Indian Republic Delhi stands on the water-shed between the Indus and the Ganges river basins. The third of the three river systems, the Brahmaputra rises beyond the Himalayas, turns east and enters India at its eastern extremity and joins the Ganges before reaching the Bay of Bengal. The Brahmaputra has no important tributaries.

On the Himalayas these rivers are rushing, roaring torrents, cutting their way through steep and rocky gorges. But when they reach the vast plains they broaden out and wander slowly till they get to the sea. The land is so flat that the rivers sometimes leave their old beds and cut out new channels flooding the surrounding area.

The rivers of Hindustan are notable in three respects: 1. They give a constant supply of water, 2. The land through which they flow is broad, flat and fertile and eminently suitable for irrigation, 3. Because water flows perennially they are navigable through the greater part of the year.

As we go from west to east in the plain rainfall increases and so do the fertility of the soil and the density of population.

The whole plain can be sub-divided according to climate into a number of natural regions. There are first the plains of the north-west, comprising Punjab State, a dry area depending on the irrigation canals of the rivers Beas and Sutlej for its water. Second, there is the valley of the Upper Ganges covering the major part of Uttar Pradesh a comparatively dry region which depends for its cultivation on the irrigation canals of the Ganges and the Jamuna. Third, we have the valley of the middle Ganges embracing the State of Bihar, which is an intermediate zone, with both wet and dry cultivation. As we go further east we have the lower valley of the Ganges, which includes the whole of West Bengal, a wet region with considerable rainfall growing rice and jute.

INDIAN PLATEAU

The third of the natural regions into which the country is divided is called the Indian Plateau because it comprises a three-sided table-land covering the whole of the country in the south except for two narrow coastal strips in the east and the west.

The Indian Plateau is marked off from the Plain of Hindustan by a confused mass of hill ranges running with a general direction of east to west. Three of these ranges have been distinguished by the names of Vindhyas, Satpuras and Ajantas respectively. They stand from 1,500 feet to over 4,000 feet high and though pierced by road and railway at the present time were not easy to cross in the old days and thus formed a barrier of hill and jungle between the northern and the southern portions of the country.

The Indian Plateau is higher in the west and the south than in the east and north. Along the western and eastern edge of the plateau run the Western and Eastern Ghats. They start southward, from the extremities of the Vindhya mountain system and run along the western and eastern coasts of the country and unite to form a sort of upheaved angle towards their southern extremity.

The Western Ghats run through the States of Bombay and Mysore and ascend to an average height of about 3,000 feet while some of the peaks are anything between 5,000 feet and 9,000 feet high.

The Eastern Ghats stretch down the States of Andhra Pradesh and Madras and have an average elevation of 1,500 feet.

The inner triangular plateau which the Western and Eastern Ghats form far in the south is seamed with little ranges of hills exceeding 4,000 feet in height the best known among which are the Nilgiris. It is on the Nilgiris that Ootacamaund the famous summer capital of Madras State stands.

Drainage Systems.—There are three systems of drainage in the Indian Plateau—one towards the north, the second towards the west and the third towards the east. The drainage from the northern or Vindhya edge of the plateau falls into the Ganges. Two rivers Narmada and Tapti carry the rainfall of the southern slopes of the Vindhya and Satpura mountains respectively in almost parallel lines into the Arabian Sea.

Further south, as we have already stated, the plateau is much higher in the west than the east. So the drainage has to make its way across the whole breadth of the plateau eastwards until it falls into the Bay of Bengal.

The most important rivers are the Mahanadi, the Godavari, the Krishna and the Cavery. These rivers differ from the rivers of the Plain of Hindustan in three ways; 1. They are fed only by the monsoon rains and therefore do not yield a constant supply of water, 2. Their valleys are less suitable for irrigation, 3. And finally, they are not navigable for certain seasons in the year when parts of the river dry up.

From a geological point of view the Indian Plateau consists mainly of very old crystalline rocks—much older than the Himalayan fold mountains.

On some of the edges of the plateau in the north-east for instance, are areas of sedimentary rocks from which the country obtains most of its coal. About nine-tenths of the coal resources of India lie in Jharia in Bihar and Raniganj in West Bengal, though coal-bearing beds are also found in the valley of the Godavari and the northern slopes of the Vindhyas.

The north-west of the plateau is covered by vast stretches of lava called the Deccan lavas. This region is one of the largest areas of lava in the world, covering as it does an area of 250,000 square miles with a total thickness of several thousand feet. In spite of the great extent of the lavas there are few or no signs of volcano.

In the rest of the Plateau valuable minerals occur here and there among old crystalline rocks. Gold is obtained in Mysore, manganese in Andhra, Mysore and Madhya Pradesh, copper and iron in Bihar and Orissa, mica in Andhra and the south-east. The point about diamonds is of some interest. They occur in sand-stones or conglomerate in Panna in Madhya Pradesh or Kurnool in Andhra, though no diamond bearing igneous rocks are found.

Natural Regions.—From the point of view of climate and vegetation the Indian Plateau can be divided into ten natural regions. There are first of all the coastal regions round the plateau. In the north covering whole of the State of Bombay is the Gujarat region, moderately dry and hilly in places. Further south is the west coast region covering part of Mysore and part of Kerala, narrow and wet.

In the east is the Carnatic or Tamil region comprising part of Madras, moderately wet but wider than in the west. In the north is what is called the Northern Circaras region covering part of Andhra and part of Orissa, also moderately wet.

Then there are the dry regions lying to the north of the Vindhya mountains sloping downwards to the plains of the Ganges. There are the Thar or Great Indian Desert, the Rajasthan uplands dry and hilly, and the Central Indian Plateau comprising part of Madhya Pradesh.

Finally there is a third group of regions which can be distinguished, all lying in the Indian Peninsula proper. These are first the southern part of the plateau covering the whole of Mysore and parts of Madras and Andhra, dry, somewhat barren and thinly populated; second, the Deccan lavas region in the north-west, containing parts of Bombay and Andhra Pradesh dry but with fertile black soil suitable for cotton and moderately thickly populated; and lastly, the north-eastern Plateau covering parts of Bihar, Madhya Pradesh and Orissa. This last mentioned region has moderate rainfall, is thinly populated, but thickly forested. The inhabitants are mainly concentrated in two river valleys.

Ceylon is the only important island lying off the coast of India to which it is joined by a line of sand flats collectively called Adam's Bridge. But Ceylon is politically separate from the sub-continent.

Two groups of very small islands in the Bay of Bengal, the Andamans and the Nicobars, and one group in the Arabian Sea the Laccadives are part of the Republic of India.

So is the quasi-island of Kutch off the Kathiawar Peninsula in western India. Kutch is a dry, rocky, treeless country.

VEGETATION

India is thickly populated and so over the greater part of the country the natural vegetation has been removed. The country has no distinctive botanical features peculiar to itself.

Where the rainfall is more than 80 inches a year there are evergreen forests on the hills. The wood from these forests is hard but the forests have not yet been commercially exploited. These evergreen forests are chiefly found on the slopes of the Western Ghats, the wetter eastern parts of the Himalayas up to a level of 5,000 feet, and in Assam.

Where the rainfall is less than 80 inches but more than 40 we have what are called the monsoon forests, so-called because the trees in these forests lose their leaves in the dry season. The monsoon forests are very valuable, because they contain two of the most useful kinds of tree, the teak and the sal. The teak is found chiefly in the western parts of the country while the sal is obtained in the lower slopes of the Himalayas and the north-east of the Plateau.

Where the rainfall is less than 40 inches, in the drier parts of the country we find small thorny trees, sometimes so small that they are more like bushes than like trees.

In the driest parts where the land is desert or semi-desert even bushes cannot grow. There we find plants with thick fleshy stems and long roots.

As we go up the mountains too the vegetation changes. In the higher reaches of the mountains, above 5,000 feet in the south, and 3,000 feet in the north the forests are similar to those found in temperate lands. Some of the trees have broad leaves and are like the oak while others are tall and have needle-shaped leaves like the pine.

On the highest parts of the mountains it is too cold and too dry for trees to grow and so we find only small bushes and short grass.

Along the sea-coasts and in the great river deltas where the land is flat and muddy grows a kind of tree called mangrove. These trees are most frequent in the deltas of the River Ganges where they are called Sundarbans.

There is not much grass land in India though in the hills in the monsoon grass patches can be seen.

The main cultivated plants include rice, wheat, pulses and grains. Among the important seeds grown are castor, sesamum and ground-nut.

The chief fruit trees include mango, coconut, arecanut and certain citrus fruit. Apples, peaches, pears, apricots and walnuts are confined chiefly to the Himalayan valleys.

There are tea plantations over large areas on the mountains in the north-east and south, while coffee, cardamom, pepper and rubber are extensively grown in the south. In some of the damper regions the cinchona is successfully cultivated.

ANIMALS

Just as natural vegetation has disappeared ver the greater part of the land so have a great ıany wild animals. The lion, for instance, was ot uncommon within historical times in the orth. Today it is confined wholly, to the Gir ›rest in Junagadh in Bombay State.

The most famous among the wild animals rhich survive are the tiger and the elephant. 'he leopard or panther is more common than he tiger and equally destructive of life and roperty. The cheetah or the hunting leopard ı found only in the Deccan and is generally rained for hunting the antelope. Other wild ndian animals of the cat family are the marbled at and the jungle cat.

In the open country-side wolves are plentiful nd usually prey on sheep. The Indian fox is omparatively scarce but the jackal is very ommon. The wild dog is found in the denser ıngles and generally hunts in packs. Among ther dogs are the pariah common in the south, nd the greyhound used for hunting.

The black bear is common wherever rocky ills and forests occur. It lives on ants, honey nd fruit and may often prove dangerous. 'he Himalayan bear which is found only in the orth, stays in the mountains during the summer ut comes lower down during the winter.

The rhinoceri found in the country are f three differ n: types, two have a single horn nd one has double. The rhinoceri are commonest ı the Brahmaputra valley and in the Sundarans. With the rhinoceros might be mentioned he crocodile which can be very dangerous pecially in the rivers of the north. The wild ıog is also well-known in certain parts of the ountry and is very destructive of crops.

In the remote parts of the deserts of Kutch ı found the wild ass but its contacts with man re few. Many wild varieties of sheep and oat are met with in the mountain ranges of the ıorth.

The antelope proper is more widely distributed.)n the coasts of Gujarat and Orissa, for instance, ı herd of does accompanied by a single buck is ı common sight. The gazelle can also be found lmost everywhere. The sambar is confined o hill forests, while the spotted deer is considred to be the most beautiful animal of the Indian ungle.

In the Western Ghats, and in the hill jungles of Assam, Bombay and Madhya Pradesh is found the bison. It is a fierce animal and almost as dangerous to hunt as the tiger. Akin to the bison is the wild buffalo very common in Assam.

The rat and the mouse are a perpetual nuisance. The bandicoots some of which can be as long as 2 feet burrow under stores and godowns and are often deadly to plants, fruit or grain.

Reptiles abound in garden and jungle and even intrude into dwelling places specially during the rains. Thousands of people die every year in the country-side of snake-bite. The most dreaded of the reptiles is the cobra. There is another variety called Russel's viper whose bite is equally fatal. Generally speaking the salt-water snakes are dangerous while the fresh-water ones are harmless. The bigger variety scorpion which abounds in parts of Madras and Andhra is a domestic terror.

Of all the wild animals in the country the elephant is the most interesting as well as the most useful. It generally lives in the wilder parts of the monsoon forests and being an intelligent animal can be trained to do heavy work such as dragging great logs of wood, or arranging them in neat piles. The elephant is also excellent as a transport animal as it can push its way through the thickest jungle where roads cannot be built.

Domestic Animals.—So much for the wild animals. Among the domestic animals the most useful are the oxen. It is estimated that there are about 150 million cattle in India. Milk is not a staple article of food and the oxen are chiefly used for ploughing or drawing carts. The bullocks are more valuable than the cows though in certain parts like Uttar Pradesh dairy-farming is an important industry. One handicap is that in most areas fodder has to be specially grown for the cattle.

There are 45 million buffaloes in the country. The buffalo is stronger than the bullock and is chiefly used for ploughing. The she-buffalo is the typical dairy animal.

There are 39 million sheep in the country. But they are a very poor specimen and do not give good wool or meat. Sheep are most numerous in Madras and live chiefly on waste land which is not good enough for cattle. Goats (57 million) are found everywhere because it does not take much to keep them alive. They can feed on the poorest grass or shrub and so find enough to eat even in the driest parts of the country.

There are 1·5 million horses and ponies and about 60,000 mules ahd 1·2 million donkeys, most of which are used as draught animals. Mules, donkeys and camels are also used for purposes of transport: mules and donkeys on the hilly parts, and camels in the sandy desert.

The total number of live-stock in the country is 307 million.

There are also about 91 million fowls and about 6 million ducks.

The birds of India though not as gorgeous as those of some other tropical lands deserve mention. The parrot is easily the most beautiful of the Indian birds. The peacock is another beautiful bird, while the maina like the parrot lives happily in a cage and talks well. Of the vulture there are four varieties which include the common scavenger. There are many types of eagle too and some of the falcons can be trained for hawking. A bird much sought after for its plumage is the kingfisher and among the birds which are hunted for their flesh are pigeons, ducks, partridges, plover, quail and snipe. The jungle fowl, however, is not considered good for eating.

There are many beautiful butterflies in India, while among the more useful insects are the bee, the silk-worm, the *coccus lacca*, that is, the insect which gives lac. Certain varieties of Indian moth and ant are very destructive. Locust invasions are not frequent but when they appear they leave complete destruction behind them. Mosquitoes abound everywhere.

In India fish is eaten fresh as methods of fish preservation are either primitive or not practised. Among the edible Indian fishes are the carp family and the cat fishes. But the most delicious is the hilsa which is also a rich food. A fish which is found in all hill streams is the mahseer.

METEOROLOGY

Normal Monthly and Annual Maximum Temperature in Shade at Selected Stations in India.

Stations	Elevation in metres	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
		° C.	° C.	° C.	° C.	° C.	° C.	° C.	° C.	° C.	° C.	° C.	° C.	° C.
HILL STATIONS														
Darjeeling	2,127	9·2	10·1	13·8	17·3	17·8	18·8	19·6	19·4	19·2	17·8	14·4	11·2	15·7
Shillong	1,500	15·6	16·9	21 3	23·4	23·3	23·6	24·1	23·9	23·5	21·7	18·9	16·4	21·1
Simla	2,202	8·6	9·3	13·9	18·8	22·9	23·9	21·6	20·2	20·2	17·9	14·6	10·3	16·9
COASTAL STATIONS														
Bombay	11	28·4	28·4	30·1	31·7	32·8	31·4	29·7	29·4	29·7	31·6	31·9	30·3	30·5
Madras	16	29·6	31·3	33·0	35·3	38·5	37·6	35·7	34·9	34·4	32·3	29·7	28·9	33·4
STATIONS ON THE PLAINS														
Allahabad	98	23·8	26·2	33·2	39·2	41·7	39·3	33·4	31·9	33·1	32·4	28·6	24·3	32·3
Calcutta	6	26·4	28·7	33·6	36·0	35·3	33·6	31·9	31·7	32·2	31·8	29·0	26·3	31·4
Kanpur	126	22·2	25·0	31·9	37·4	41·2	39·3	33·6	32·1	32·7	32·9	28·2	23·3	31·7
Cuttack	27	28·4	31 2	35·9	38·4	38·6	35·3	31·9	31·7	32·2	32·1	29·4	27·3	31·0
New Delhi	216	21·1	24·3	30·6	37·1	41·2	40·2	35·1	33·6	33·7	33·3	28·8	23·1	31·8
Lucknow	113	23·3	25·9	32·7	38·6	40·8	37·9	33·6	32·5	33·3	33·0	28·8	24·4	32·1
Patna	53	22·8	25·4	32·1	37·2	37·9	35·7	32·6	31·7	32·1	31·4	27·8	23·7	30·9
PLATEAU STATIONS														
Dehra Dun	682	18·9	20·7	26·3	32·2	35·6	34·3	30·3	29·2	29·3	28·3	24·1	20·4	27·5
Nagpur	310	28·6	32·1	36·5	40·2	43·3	38·3	31·3	30·7	31·3	32·1	29·9	28·4	33·5

Normal Monthly and Annual Minimum Temperature in Shade at Selected Stations in India.

Stations	Elevation in metres	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
		° C.	° C.	° C.	° C.	° C.	° C.	° C.	° C.	° C.	° C.	° C.	° C.	° C.
HILL STATIONS	For elevation, see table of maximum temperature normals													
Darjeeling		2·9	3·8	7·1	10·3	12·3	14·5	15·3	15·2	14·4	11·1	7·2	3·6	9·8
Shillong		3·8	5·8	10·4	13·9	15·1	17·2	18·1	17·8	16·4	12·7	7·9	4·4	11·9
Simla		1·9	2·3	6·4	10·3	14·3	15·6	15·1	15·1	13·5	10·8	6·8	4·1	9·7
COASTAL STATIONS														
Bombay		19·3	19·7	22·2	24·5	26·4	25·9	24·8	24·5	24·3	24·2	22·5	20·4	23·2
Madras		19·5	20·2	22·4	25 6	27·6	27·3	26·3	25·6	25·1	23·9	22·2	20·5	23·9
STATIONS ON THE PLAINS														
Allahabad		8·4	10·5	16·1	21·0	26·6	28·3	26·6	25·8	24·8	19·5	12·4	8·4	19·0
Calcutta		12·6	15·2	20·4	24·2	25·3	25·9	25·9	25·7	25·6	23·2	17·6	12·8	21·2
Kanpur		7·6	10·6	15·6	21·4	26·9	28·3	26·6	25·9	24·6	18·9	12·2	8·1	18·9
Cuttack		15·4	18·2	22·1	25·3	28·6	26·4	25·7	25·6	25·4	23·6	18·8	14·8	22·3
New Delhi		7·3	9·4	14·8	21·4	26·7	29·7	26·9	26·1	24·3	18·5	11·4	6·8	18·5
Lucknow		8·4	10·8	15·9	21·6	25·7	27·6	26·4	25·9	24·7	19·2	12·3	8·5	18·9
Patna		10·6	12·7	17·9	23·1	25·6	26·6	26·6	26·5	26·1	22·7	16·1	11·3	20·5
PLATEAU STATIONS														
Dehra Dun		6·7	8·1	12·3	16·9	21·2	23·4	23·2	22·7	20·8	15·7	10·6	7·3	15·7
Nagpur		12·8	15·3	19·2	24·1	28·7	26·9	24·1	23·8	23·3	19·7	13·9	11·7	20·3

Normal Monthly and Annual Rainfall at Selected Stations in India.

Stations	Elevation in metres	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
		mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.
HILL STATIONS	For elevation, see table of maximum temperature normals													
Darjeeling		13·5	30·2	47·7	105·2	244·6	614·2	836·2	674·6	480·1	137·4	20·6	6·9	3211·2
Shillong		13·2	26·9	50·0	129·5	286·8	461·3	346·7	317·3	209·5	170·7	40·9	7·1	2149·9
Simla		66·3	74·2	59·9	46·0	64·3	153·4	414·0	428·0	169·7	30·0	13·2	31·5	1550·5
COASTAL STATIONS														
Bombay		3·6	2·0	1·3	0·8	16·5	484·1	616·5	340·1	263·9	64·5	13·5	2·0	1808·8
Madras		35·8	10·4	7·4	15·5	26·2	47·2	91·4	116·3	118·9	305·8	354·6	138·4	1267·9
STATIONS ON THE PLAINS														
Allahabad		21·6	16·0	14·2	4·3	16·0	128·0	319·0	254·8	212·3	59·4	7·9	8·6	1062·1
Calcutta		9·4	29·7	34·5	44·5	139·5	296·9	325·4	328·2	252·7	113·8	20·6	4·6	1599·8
Kanpur		14·2	16·8	7·4	5·6	8·1	81·0	273·1	284·5	172·5	33·0	8·9	7·1	912·2
Cuttack		8·1	19·8	26·4	27·2	90·7	252·7	327·4	340·4	247·9	135·6	41·1	5·8	1523·1
New Delhi		25·1	21·1	12·9	8·4	13·2	77·0	178·6	183·6	122·9	10·2	2·5	10·9	666·4
Lucknow		19·3	18·3	8·6	6·3	19·6	113·3	304·8	292·1	188·0	32·5	5·6	8·1	1016·5
Patna		15·0	18·8	10·7	6·9	35·6	181·4	294·1	332·5	218·4	58·4	8·6	5·6	1186·0
PLATEAU STATIONS														
Dehra Dun		58·9	62·7	32·0	16·5	36·8	217·2	668·0	731·3	269·7	32·0	8·9	25·9	2159·9
Nagpur		9·4	16·5	15·2	15·2	19·3	224·0	370·8	290·1	203·5	55·1	19·6	11·9	1250·6

SUB-DIVISIONAL MEANS OF RAINFALL IN MILLIMETRES DURING THE MONSOON JUNE TO SEPTEMBER 1957.*

SUB-DIVISION.	JUNE TO SEPTEMBER.			
	Actual.	Normal.	Departure from Normal.	Percentage Departure from Normal.
1	2	3	4	5
	mm	mm	mm	mm
1. Bay Islands	2275	1800	+ 475	+ 26
2. Assam (including Manipur and Tripura)	1279	1436	− 157	− 11
3. Sub-Himalayan West Bengal	1814	2206	− 392	− 18
4. Gangetic West Bengal	1062	1095	− 33	− 3
5. Orissa	831	1100	− 269	− 24
6. Chota Nagpur	969	1085	− 116	− 11
7. Bihar	839	1061	− 222	− 21
8. Uttar Pradesh, East	785	950	− 164	− 17
9. Uttar Pradesh, West	794	884	− 90	− 10
10. Punjab (I) (including Delhi)	596	581	+ 15	+ 3
11. Himachal Pradesh†	..	..	..	..
12. Jammu and Kashmir	..	..	..	..
13. Rajasthan, West	165	233	− 68	− 29
14. Rajasthan, East	711	633	+ 77	+ 12
15. Madhya Pradesh, West	945	975	− 30	− 3
16. Madhya Pradesh, East	977	1200	− 223	− 19
17. Gujarat	611	801	− 189	− 24
18. Saurashtra and Kutch	460	453	+ 8	+ 2
19. Konkan	2104	1928	+ 176	+ 9
20. Maharashtra	537	537	0	0
21. Vidarbha	829	919	− 90	− 10
22. Coastal Andhra Pradesh	614	502	+ 112	+ 22
23. Telangana	822	730	+ 92	+ 13
24. Rayalaseema	530	427	+ 103	+ 24
25. Madras	252	295	− 43	− 15
26. Coastal Mysore	2647	2928	− 281	− 10
27. Mysore, North	613	577	+ 36	+ 6
28. Mysore, South	343	456	− 113	− 25
29. Kerala	1794	1644	+ 150	+ 9
30. Arabian Sea Islands	..	..	..	..
Mean of India (excluding Bay Islands, Jammu and Kashmir, Himachal Pradesh and Arabian Sea Islands)	757	826	− 69	− 8

* In the calculation of excesses and defects and their percentages, rainfall figures are taken correct to 01 mm.

† Data not available.

MONSOON RAINFALL SUMMARY--1957

In striking contrast with the monsoon of 1956 the 1957 monsoon had an abnormally short period of stay over the country. It advanced into most parts of the country about two weeks later and also withdrew about two weeks earlier than the normal time and thus its duration over most parts of the country was less than the normal period by about a month.

However, the activity of the monsoon, though of shorter duration, was sustained at an even pace and the associated rainfall was generally free from extreme variations, except for a brief spell of torrential rains in Jammu-Kashmir in the last week of August.

The season's total rainfall was normal or only slightly below normal over most parts of the country.

As a result, however, of the early withdrawal of the monsoon, the rainfall during September was in moderate defect over most parts and, according to press reports, drought conditions prevailed over east Uttar Pradesh, Bihar and parts of Orissa, Gujarat and Madhya Pradesh due to failure of late monsoon rains.

The total rainfall during the season was in large excess in Jammu-Kashmir, in moderate excess in the Bay Islands and in slight excess in Rajasthan and the State of Andhra Pradesh.

It was normal in Gangetic West Bengal, west Uttar Pradesh, the Punjab (I), west Madhya Pradesh, Saurashtra-Kutch, the Konkan, Maharashtra, Vidarbha, coastal Mysore, north Mysore and Kerala.

It was in moderate defect in west Rajasthan and in slight defect elsewhere in the country.

Averaged over the plains of India, the season's rainfall was 8 per cent in defect.

POPULATION *

Note :—Unless otherwise stated the following article is based on the 1951 census which are the latest.

More detailed statistics where available of the States that underwent reorganization in November 1956 are given in 'Late Particulars.'

THE more important figures of the 1951 census are: Total population (excluding Kashmir and the Part B Tribal areas of Assam): 356,879,394; Males: 183,333,874; Females: 173,545,520.

Population of Jammu and Kashmir: 4·41 millions (estimate for March 1, 1951); Population of Part B Tribal Areas of Assam: 0·56 millions (unverified local estimate).

Total including Kashmir and Part B Tribal area: 361,151,669.

Increase over 1941: 42,113,014 or a mean decennial growth rate of 12·5 or percentage increase of 13·4 per cent.

Highest population: Uttar Pradesh (63,215,742); Lowest population Andamans and Nicobars (30,971).

Average density: 312 per square mile.

Highest density: Delhi (over 3,017); Lowest density: Andaman and Nicobar (10).

Registered birth-rate (1941-50): 27·2; Probable birth rate (1941-50): 40.

Registered death-rate (1941-50); 19·4; Probable death-rate (1941-50): 27.

Natural increase rate (1941-50): 13.

Infant mortality rate (1941-50): 127·1; Life expectancy: 32 years and 5 months; Life expectancy at the age 10 years: 39.

The birth-rates for 1953 and 1954 are 24·8 and 25·4. (The birth-rate for 1954 is for the former Part A States and Delhi and Coorg.).

The death-rates for 1953 and 1954 are 14·4 and 12·9. (The death-rate for 1954 is for the former Part A States and Delhi and Coorg.)

The infant mortality rates for 1953 and 1954 are 118 and 113. (The rate for 1954 is for the former Part A States and Delhi and Coorg.

Literacy for India for 1951, 16·6.

Number of females to every 1,000 males: 947.

Total urban population: 62 millions (17·3 per cent); Total rural: 295 millions (82·7 per cent). Increase in urban population over 1941: 3·5 per cent. Highest urbanization: Delhi (83 per cent).

The total number of towns is 3,018 and of villages 558,089.

Number of cities with a population of one lakh and over: 75.

Percentage of population dependent on agriculture: 70.

If the population is divided into classes accordding to livelihood the percentage of each class would be as follows:—

Peasant proprietors, 47; Tenants, 9; Landless labourers, 13; Landlord or rentier, one; Industry or other non-agricultural production, 10; Commerce, 6; Transport, 2; Services and miscellaneous professions, 12.

1951 Census

The last census were taken at the beginning of 1951 (Feb. 9 to Mar. 1, 1951).

For the first time the census embraced the whole of India including the former Indian States, but excluding Jammu and Kashmir and the tribal areas of Assam. Jammu and Kashmir was omitted because of special conditions and the tribal areas of Assam because they had never been enumerated before.

Two main and two subsidiary questions in the census questionnaire related to "economic status" and "means of livelihood". These questions were: Are you a self-supporting person or a non-earning dependent or an earning dependent? If you are a self-supporting person, are you an employer or an employee or an independent worker or none of these? What is the occupation or source of income which forms your principal means of livelihood? Have you a secondary means of livelihood? If so, what is it?

All useful data collected during the census operations will be recorded in a national register. Relevant parts of this register will be kept in every tahsil or sub-division or ward as a permanent and confidential record of the inhabitants. It is also proposed to bring out a census handbook for every district which the State Governments have been requested to publish. The State Governments have also been requested to include abstracts from these in school textbooks so that students could learn more about their region than they do at present.

1. GROWTH OF POPULATION

Year.	Population (in millions).	Increase (in millions).	Percentage Increase.
1951 ..	356·88	42·11	+ 13·4
1941 ..	314·77	39·25	+ 14·3
1931 ..	275·52	27·34	+ 11·0
1921 ..	248·18	—0·87	— 0·3
1911 ..	249·05	13·55	+ 5·8
1901 ..	235·50	—0·4	— 0·17
1891 ..	235·90	—	—

POPULATION 1952 to 1956

The following table shows the estimated mid-year population of the country from 1952 to 1956. The estimates are based on the mean rate of growth during the period 1941-50.

The figures include those for Sikkim and Kashmir.

1952	36·74	crores
1953	37·20	,,
1954	37·68	,,
1955	38·17	,,
1956	38·65	,,

2. POPULATION BY NATURAL REGIONS

Natural Region	Total Population	Males	Females	1941	Females per 1,000 males (1951)	Mean Decennial Growth Rate (1941-51)
INDIA	356,879,394	183,333,874	173,545,520	314,766,380	947	+12·5
1. Himalayan Region	17,042,697	8,982,675	8,060,022	14,827,606	897	+13·9
2. Northern Plains Region ..	139,398,043	73,022,392	66,375,651	125,072,878	909	+10·8
3. Peninsular Hills and Plateau Region	108,598,645	55,111,536	53,487,109	96,220,094	971	+12·1
4. Western Ghats and Coastal Region	39,926,793	20,371,388	19,555,405	32,518,913	960	+20·5
5. Eastern Ghats and Coastal Region	51,832,336	25,798,608	26,033,728	46,093,121	1,009	+11·7
Andaman and Nicobar Islands ..	30,971	19,055	11,916	33,768	625	— 8·6

* There have been no fresh census after the reorganization of States on 1st November, 1956.

In general out of the 28 States that existed before the reorganization nine States are not affected by the reorganization. These nine are: Assam, Orissa, Uttar Pradesh, Kashmir, Delhi, Himachal Pradesh, Manipur, Tripura and Andamans.

The present Punjab is formed by a simple amalgamation of the former Punjab and PEPSU. Hence some figures for the present Punjab can be obtained by the addition of the figures for the former Punjab and PEPSU.

The State of Rajasthan is affected by the reorganization only to a very small extent.

In the tables the States that went out of existence on 1st Nov. 1956 or were drastically reorganized as from that day are indicated with a star or dagger.

The figures are the 1951 census figures.

In the India totals the figures for Chandernagore have been added as follows: total, 49,909; males, 28,220; females, 21,689.

Unless otherwise stated, Madras as given here should be taken as including Andhra as when the census were taken Andhra was not separated from Madras.

Figures for Himachal Pradesh and Bilaspur are given separately, though from 1st July, 1954 they formed a single administrative unit.

From October 1953 the seven talukas of Bellary District have been part of Mysore State, and have formed a District called Bellary in that State; the population of the District is 773,712. Before October 1953, that is when the census were taken, it was part of Madras.

District figures are given under each State. The mean decennial growth rate is based on the mean population of the two census.

AREA, POPULATION, SPECIAL GROUPS

The following table gives the population, area, etc. of the States and territories forming the Indian Union :

	Area in sq. miles (a)	Population	Density of population	Anglo-Indians —1951 census (a)	Scheduled Castes—1951 estimates	Scheduled Tribes—1951 estimates
INDIA	12,66,900	36,11,51,669	312(c)	1,11,637	5,51,70,886	2,25,11,854
STATES						
Andhra Pradesh	1,05,963	3,12,60,133	295	5,502	44,15,995	11,49,919
Assam	45,767	87,72,874	176	1,055(b)	4,24,044(b)	17,61,434(b)
Bihar	76,164	3,87,84,172	572	4,379	49,13,990	38,80,097
Bombay	1,90,919	4,82,65,221	253	7,857	52,02,077	37,43,408
Jammu and Kashmir	85,861	44,10,000	51	—	—	—
Kerala	15,035	1,35,49,118	901	14,947	12,07,294	1,34,757
Madhya Pradesh	1,71,201	2,60,71,637	152	2,173	39,12,205	48,44,128
Madras	50,110	2,99,74,936	598	22,277	53,81,836	1,36,376
Mysore	74,326	1,94,01,193	261	15,569	25,83,142	80,402
Orissa	60,136	1,46,45,946	244	485	26,29,250	30,09,580
Punjab	47,456	1,61,34,890	340	1,174	34,90,983	2,661
Rajasthan	1,32,077	1,59,70,774	121	1,038	25,02,202	17,74,278
Uttar Pradesh	1,13,409	6,32,15,742	558	6,343	1,31,00,398	—
West Bengal	33,945	2,63,01,992	775	31,922	47,43,713	15,66,868
TERRITORIES						
Andaman and Nicobar Islands ..	3,215	30,971	10	—	—	—
Delhi	578	17,44,072	3,017	812	2,68,530	—
Himachal Pradesh	10,904	11,09,466	102	10	3,19,972	27,928
Laccadive, Minicoy and Amindivi Islands	10	21,035	2,144	—	—	13,486
Manipur	8,628	5,77,635	67	—	28,647	1,94,239
Tripura	4,032	6,39,029	158	94	46,608	1,92,293

(a) Provisional. (b) Inclusive of Naga Hills District now in the Naga Unit. (c) In working out the figure the area and population of Jammu and Kashmir and of the Part B Tribal areas of Assam have not been taken into account.

3. POPULATION BY ZONES AND STATES

Below we give the figures for zones and also for the States that were not affected by the reorganization (Nov. 1956) which took place after the census were taken. The figures, for the present Punjab could be got by adding where appropriate the figures for the old Punjab and PEPSU.

Zone and State	Land area in square miles	Total Population	Males	Females	1941	Females per 1,000 males (1951)	Mean Decennial Growth Rate (1941-51)*	Density per square mile
INDIA	1,269,640	356,879,394	183,333,874	173,545,520	314,766,380	947	+ 12·5	303
I—*North India*	113,409	63,215,742	33,098,866	30,116,876	56,531,848	910	+ 11·2	....
1. Uttar Pradesh	113,409	63,215,742	33,098,866	30,116,876	56,531,848	910	+ 11·2	558
II—*East India*†	261,657	90,080,297	46,315,658	43,764,639	80,873,038	945	+ 10·8	....
1. Assam††	85,012	9,043,707	4,812,166	4,231,541	7,593,037	879	+ 17·4	106
2. Manipur..	8,628	577,635	283,685	293,950	512,069	1,036	+ 12·0	67
3. Tripura	4,032	639,029	335,589	303,440	513,010	904	+ 21·9	158
4. Sikkim	2,744	137,725	72,210	65,515	121,520	907	+ 12·5	50
III—*South India*	168,009	75,600,804	37,822,542	37,778,262	64,837,350	999	+ 15·3	....
IV—*West India*	149,609	40,661,115	20,982,281	19,678,834	33,249,726	938	+ 20·1	....
V—*Central India*	289,399	52,267,959	26,497,524	25,770,435	47,273,886	973	+ 10·0	....
VI—*North-West India*	284,342	34,972,597	18,569,728	16,402,869	31,966,764	883	+ 9·0	....
1. Delhi	578	1,744,072	986,538	757,534	917,939	768	+ 62·1	3,017
2. Bilaspur†††	453	126,099	64,738	61,361	110,336	948	+ 13·3	278
3. Himachal Pradesh ..	10,451	983,367	514,765	468,602	947,375	910	+ 3·7	94
Andaman and Nicobar Islands .	3,215	30,971	19,055	11,916	33,768	625	— 8·6	10

* The mean decennial rate is based on the mean population of the two censuses, and not like the 'percentage variation' on the population according to the earlier census.

† Add Chandernagore : Total : 49,909 ; Males : 28,220 ; Females : 21,689.

†† Figures for Part B Tribal areas are not included. But area includes NEFA and the Naga Unit.

††† Merged into Himachal Pradesh after 1st July, 1954.

FUTURE GROWTH

Some calculations have been made about this from 1951 to 1981.

The estimate based on the assumption that the mean decennial rate of growth will be the same as that of the average of 1921-50 will be the lower limit, and the estimate based on the assumption that the mean decennial rate of growth will be the same as during the last decade will be the upper limit.

The figures given below are in millions :

	lower limit	upper limit
1951	361·3	361·3
1961	407·7	411·9
1971	458·5	469·7
1981	527·6	535·5

Making allowance for mortality and maternity rates the trends may be estimated as follows : The figures are in crores : 1951—36 ; 1961—41 ; 1971—46 ; 1981—52.

DISPLACED PERSONS

Position in March 1957 : Total 88·50 lakhs. From W. Pakistan 47·40 lakhs. From E. Pakistan 41·10 lakhs.

1951 Census

The following particulars from the Census Report on Displaced Persons will be of interest (the census were taken in 1951) :—

Total : 7,295,870 ; Males : 3,900,034 ; Females : 3,395,836.

From West Pakistan : 4,699,492 ; From East Pakistan : 2,549,390 ; Unspecified : 46,988.

The figures for individual States in West Pakistan are as follows : N.W.F.P. : 195,059 ; Sind : 776,220 ; Baluchistan : 24,945 ; West Punjab : 3,407,695 ; Pakistan States : 252,956 ; Origin unspecified : 42,608.

The figures for distinct areas in East Pakistan are as follows : East Bengal : 2,406,183 ; Sylhet (Assam) : 137,414 ; Origin unspecified : 5,793.

The sex ratio among displaced persons is 871 females for every 1,000 males. The figure for displaced persons from West Pakistan is 872 females, from East Pakistan 871.

For the country as a whole, the displaced persons number 21 per 1,000. The principal concentrations are (the figures are for 1,000 of local population) : Delhi 397 ; Punjab 231 ; Tripura 188 ; Chandernagore 115 ; Ajmer 115 ; PEPSU 113 ; West Bengal 92 ; Andamans 51.

The distribution of displaced persons by age-groups is as follows :—

0–	47,931
1– 4	412,193
5–14	1,935,781
15–24	1,512,466
25–35	1,195,663
35–44	841,987
45–55	602,548
55–64	366,653
65–74	176,689
75 and over	82,118
Age not stated ..	10,305

The distribution of displaced persons by livelihood classes is as follows. The first figure shows the number of males and the second the number of females :—

Cultivators of land wholly or mainly owned and their dependants : 212,591 ; 191,545.

Cultivators of land wholly or mainly un-owned and their dependants : 686,705 ; 605,814.

Cultivating labourers and their dependants: 167,304 ; 138,057.

Non-cultivating owners of land, agricultural rent receivers and their dependants : 32,250 ; 30,225.

Production other than cultivation : 461,626 ; 387,728.

Commerce : 922,939 ; 802,763.

Transport : 168,189 ; 140,877.

Other services and miscellaneous sources: 1,174,313 ; 1,061,408.

Distribution by civil condition is as follows :—

Unmarried : 1,923,908 (males) ; 1,315,963 (females).

Married : 1,719,149 (males) ; 1,650,193 (females).

Widowed or Divorced : 182,860 (males) ; 392,261 (females).

The literacy is indicated by the following figures :—

Literates : 1,768,022 (males) ; 912,567 (females).

Illiterates : 2,057,895 (males); 2,445,850 (females).

The urban-rural distribution in lakhs is 33 lakhs in villages and 39 lakhs in towns.

The movement of persons from West Pakistan by period is as follows. The number is for every 1,000 displaced persons :—

1947 August : 292 ; 1947 September : 214 ; 1947 October : 133 ; 1947 November : 83 ; Rest of 1947 : 51 ; 1948 January-June : 88 ; Rest of 1948 : 27 ; Rest upto February 1951 : 18.

The movement from East Pakistan for 1,000 displaced persons:

1946 : 23 ; 1947 : 182 ; 1948 : 193 ; 1949 : 128 ; 1950 : 459 ; Rest upto February 1951 : 51.

FOREIGNERS

The number of foreigners in India on December 31, 1952 was 77,865 excluding U.K. and Commonwealth citizens. They were distributed according to nationality as follows : Chinese, 23,481 ; Afghans, 7,592 ; U.S. nationals, 5,995 ; Iranians, 4,464 ; Tibetans, 19,549 ; Germans, 1,536 ; French, 1,351 ; Swiss, 768 ; Dutch, 816 ; Russians, 424 ; Belgians, 595 ; Japanese, 632.

The total number of foreigners in India on Dec. 1, 1956 was 44,557. Bombay had the largest number 15,581 ; next, W. Bengal 13,023 ; third, Bihar 2,757.

Of the 28,746 non-Commonwealth foreign citizens, as on 1st Jan. 1957, 22,190 were traders, 1,663 were students and 4,893 missionaries.

4. RELIGIOUS GROUPS

The ratio of each religious group to the total population in the country is as follows (percentage) : Hindus, 84·99 ; Muslims, 9·93 ; Christians, 2·30 ; Sikhs, 1·74 ; Jains, 0·45 ; Buddhists, 0·06 ; Zoroastrians, 0·03 ; Other tribal religions, 0·47 ; other non-tribal religions, 0·03.

The following table shows the position of religious groups in India in the States which were unaffected by the reorganization that took place (Nov. 1956) after the 1951 census.

The figures for the present Punjab could be got by adding the figures for the old Punjab and PEPSU.

State	Hindus	Sikhs	Jains	Buddhists	Zoroastrians	Muslims	Christians	Jews	Other Tribals	Other Non-Tribals
Assam	5,894,733	4,107	4,245	22,675	27	1,996,456	585,399	209	527,712	8,144
Orissa	14,318,411	4,163	1,248	969	181	176,338	141,934	72	2,576	54
Punjab†	8,176,430	3,831,983	37,518	1,441	77	229,080	95,293	150	—	631
Uttar Pradesh	53,762,925	197,612	97,744	3,221	1,258	9,028,992	123,876	34	—	80
PEPSU	1,704,349	1,721,935	7,578	219	93	55,913	3,565	9	—	19
Delhi	1,467,854	137,096	20,174	503	164	99,501	18,685	90	—	5
Himachal Pradesh and Bilaspur	1,088,841	5,019	34	2	—	15,253	317	—	—	—
Manipur	347,325	50	150	33	1	37,197	68,394	—	124,485	—
Tripura	480,662	35	36	15,403	1	136,940	5,262	—	690	—
Andaman and Nicobar	9,294	126	1	1,604	2	4,788	9,494	1	20	5,646
Sikkim	97,863	18	19	39,397	—	124	304	—	—	—
India††	303,186,986	6,219,134	1,618,406	180,767	111,791	35,400,117	8,157,765	26,781	1,661,897	47,148

† Persons whose enumeration records were destroyed by fire—268,602.

†† The Census booklets available at the time of preparing the article did not give the all-India totals. The figures given here are the ones worked out by adding the figures for individual States.

5. SCHEDULED CASTES AND TRIBES

Statistics about three Special Groups are given below. The Special Groups which are four in number are the Scheduled Castes, the Scheduled Tribes, the Backward Classes and the Anglo-Indians.

The main results for the Scheduled Castes and Tribes for the country as a whole are shown in the table below :

Note that there is a discrepancy between the figures here and those on page 7. The latter were published in 1956 after the reorganization of States, but are also based on the 1951 census. The discrepancy could be ascribed to a different basis of reckoning.

Groups	Number (in Lakhs)			Number per 1,000 persons		
	Population	Scheduled Castes	Scheduled Tribes	Population	Scheduled Castes	Scheduled Tribes
INDIA .. .. Total	3,567*	513	191	1,000	144	54
Rural	2,948	462	186	1,000	157	63
Urban ..	618	51	5	1,000	83	8
All Agricultural Classes	2,491	381	173	1,000	153	70
All Non-Agricultural Classes	1,076	132	18	1,000	123	17
Agricultural Classes :						
I. Cultivators of land, wholly or mainly *owned* and their dependants	1,674	174	125	1,000	104	75
II. Cultivators of land, wholly or mainly *unowned* and their dependants	316	56	19	1,000	176	59
III. Cultivating labourers, and their dependants	448	148	28	1,000	330	63
IV. Non-cultivating owners of land, agricultural rent receivers and their dependants	53	3	1	1,000	61	12
Non-Agricultural Classes :						
Persons (including dependants) who derive their principal means of livelihood from :—						
V. Production other than cultivation	377	53	7	1,000	142	20
VI. Commerce	213	9	1	1,000	44	6
VII. Transport	56	6	1	1,000	110	11
VIII. Other Services and miscellaneous sources	430	64	9	1,000	147	20

* This does not include 1·35 lakhs for whom enumeration records were destroyed by fire in the Census Tabulation Office at Jullundur. Classification details for these persons are not available. Also it does not cover Chandernagore or Sikkim, for which the figures are given below.

The figures for Scheduled Castes and Tribes for Chandernagore and Sikkim are as follows (absolute numbers):

State		Castes		Tribes	
		Males	Females	Males	Females
Chandernagore	Total	3,889	1,568	77	62
	Rural	..	..	..	..
	Urban	3,889	1,568	77	62
Sikkim	Total	99	13	14,739	14,690
	Rural	40	11	14,140	14,244
	Urban	59	2	599	446

The following table shows the figures for the States which were not affected by the reorganization of States (Nov. 1956) which took place after the census of 1951.

Figures for the present Punjab could be obtained by adding the figures for the old Punjab and PEPSU.

State	Scheduled Castes			Scheduled Tribes		
	Total	Agricultural Classes	Non-Agricultural Classes	Total	Agricultural Classes	Non-Agricultural Classes
INDIA	51,343,898	38,118,959	13,224,939	19,116,498†	17,284,260	1,822,422
Uttar Pradesh	11,479,102	9,011,654	2,467,448	—	—	—
Orissa	2,630,763	1,925,763	705,000	2,967,334	2,615,289	352,045
Assam	424,044	254,926	169,118	1,735,245	1,626,968	108,277
Manipur	—	—	—	194,239	188,532	5,707
Tripura	46,371	30,311	16,060	192,293	180,701	11,592
Punjab	2,386,143	1,421,117	965,026	2,429	2,175	254
Patiala & East Punjab States Union	676,302	472,542	203,760	—	—	—
Delhi	208,612	23,249	185,363	—	—	—
Bilaspur††	27,135	23,529	3,606	—	—	—
Himachal Pradesh	224,610	208,413	16,197	—	—	—

† The figures include about 5,000 persons in Madras who returned themselves as Harijans but were misclassified as 'Scheduled Tribes'.
†† Merged with Himachal Pradesh after 1st July, 1954.

6. ANGLO-INDIANS

The following table shows the figures for the States which were not affected by the reorganization of States (Nov. 1956) which took place after the census of 1951.

Figures for the present Punjab could be obtained by adding the figures for the old Punjab and PEPSU.

For the rest of the present States see Table on page 7.

State	Persons	Males	Females
INDIA	111,037	54,563	57,074
Uttar Pradesh	6,343	3,388	2,955
Orissa	485	296	189
Assam	1,055	475	580
Manipur	—	—	—
Tripura	94	52	42
Sikkim	—	—	—
Punjab	935	551	384
Patiala & East Punjab States Union	239	115	124
Delhi	812	142	670
Bilaspur†	4	1	3
Himachal Pradesh	6	1	5
Andaman and Nicobar Islands	—	—	—

† Merged with Himachal Pradesh after 1st July, 1954.

7. RURAL AND URBAN POPULATION †

Below we give figures for the States which were not affected by the reorganization of States (Nov. 1956) which took place after the census of 1951.

The figures for the present Punjab could be obtained where appropriate by adding the figures for the old Punjab and PEPSU.

State	Total	Rural	Urban	Percentage of Rural	Percentage of Urban
INDIA	356,879,394	295,004,271	61,875,123	83	17
Assam	9,043,707	8,629,289	414,418	95	5
Orissa	14,645,946	14,051,876	594,070	96	4
Punjab	12,641,205	10,240,273	2,400,932	81	19
Uttar Pradesh	63,215,742	54,590,043	8,625,699	86	14
Patiala and East Punjab States Union	3,493,685	2,828,175	665,510	81	19
Bilaspur††	126,099	122,354	3,745	97	3
Delhi	1,744,072	306,938	1,437,134	17	83
Himachal Pradesh	983,367	941,966	41,401	96	4
Manipur	577,635	574,773	2,862	99	1
Tripura	639,029	596,434	42,595	93	7
Andaman and Nicobar Islands	30,971	22,957	8,014	74	26
Sikkim	137,725	134,981	2,744	98	2

† It should be pointed out here that whether an area is urban or rural depends on a number of factors of which population is only one. Also these factors vary from State to State. †† Merged with Himachal Pradesh after 1st July, 1954.

The population of villages and towns respectively grew as follows from 1921 to 1951 (figures in lakhs):

Year	Population		Rate of Growth	
	Villages	Towns	Villages	Towns
1921	2,199	282	—	—
1931	2,420	334	+10·1	+18·4
1941	2,710	438	+12·0	+31·1
1951	2,950	619	+ 8·9	+41·3

The population of the 10 largest cities (town-groups) has grown as follows (figures in lakhs):

City	1951	1941–50	1931–40	1901–30
Calcutta	45·8	—	—	6·0
Bombay	28·4	11·4	3·9	4·6
Madras	14·2	6·4	1·3	1·4
Delhi	13·8	7·2	2·2	2·3
Hyderabad	10·9	3·5	2·7	0·2
Ahmedabad	7·9	2·0	2·8	1·3
Bangalore	7·8	3·7	1·0	1·5
Kanpur	7·1	2·2	2·4	0·4
Poona	5·9	2·4	0·8	0·9
Lucknow	5·0	1·1	1·1	0·2

HOUSES AND POPULATION

Zone	Area in sq. miles	Villages	Towns	Occupied Houses		
				Total	Rural	Urban
*INDIA	1,176,864	558,089	3,018	64,361,676	54,056,388	10,305,288
North India	113,409	111,722	486	10,408,944	9,073,985	1,334,959
East India	261,661	185,319	298	17,285,005	15,255,491	2,029,514
South India	168,009	57,758	683	13,387,542	11,251,393	2,136,149
West India	149,609	39,533	594	7,248,611	5,056,813	2,191,798
Central India	289,399	102,062	517	10,145,228	8,720,099	1,425,129
North-West India	191,562	61,494	440	5,881,046	4,695,199	1,185,847
Andaman and Nicobar Islands	2,215	201	..	5,300	3,408	1,892

* Area (92,780 sq. miles) and population of the State of Jammu and Kashmir and population of part of Part B Tribal Areas of Assam not included.

NO. OF TOWNS AND VILLAGES

Zone	Total number of inhabited towns and villages	Total Population
INDIA	561,107	356,879,394
North India ..	112,208	63,215,742
East India	185,617	90,130,206
South India ..	58,441	75,600,804
West India ..	40,127	40,661,115
Central India ..	102,579	52,267,959
North-West India	61,934	34,972,597
Andaman and Nicobar Islands	201	30,971

TOWNS AND VILLAGES WITH POPULATIONS 500 TO 100,000

Size	Number	Males	Females
Less than 500	380,020	39,956,302	38,391,389
500—1,000	104,268	37,162,941	35,757,815
1,000—2,000	51,769	36,194,476	34,962,006
2,000—5,000	20,508	30,023,792	29,085,181
5,000—10,000	3,101	10,540,836	10,212,900
10,000—20,000	856	6,016,525	5,664,243
20,000—50,000	401	6,240,152	5,563,895
50,000—100,000	111	4,020,603	3,534,715

There can be a four-fold classification of towns —cities (population of one lakh and over), major towns (population 20,000 to one lakh), minor towns (population 5,000 to 20,000), townships (under 5,000).

The average number of villagers per village is 529.

The percentage of rural population living in small villages (under 500) is 26·5; in medium-sized villages (500-2,000) is 48·8; in large villages (2,000-5,000) is 19·4; in very large villages (over 5,000) is 5·3.

A house is a building in which people live. A household is a group of people who live together and take their food from a common kitchen.

There are 112 households in every 100 houses of a typical Indian village, and 124 households in every 100 houses of a typical Indian town.

In every 100 households in a village there are 491 persons, in every hundred households in the town the number is 471.

In every 100 houses in a village 550 people live, in every 100 houses of a town 584.

Out of 491 people in every 100 rural households 252 are males and 239 are females. Out of 471 people in every 100 urban households 248 are males and 223 are females.

We can have a four-fold classification of households—small household (3 persons or less), medium (4, 5 or 6), large (7, 8 or 9), very large (10 or more).

The number of different types in 100 households in a typical village and a typical town will be as follows:

	Village	Town
Small	33	38
Medium	44	41
Large	17	16
Very large	6	5

The pattern of household relationship in a 100 households with 487 persons in them will be as follows:

	Number
Heads of households	100
Wives of heads	71
Sons of heads	108
Daughters of heads	81
Male relatives other than sons ..	48
Female relatives other than daughters	72
Persons unrelated to heads	7
Total ..	487

POPULATION OF CITIES

State and City.	1951.	1941.	Mean Decennial Growth Rate (1941-51).
INDIA	24,126,592	16,733,088	+ 36·2
Andhra			
1. Hyderabad	1,085,722	739,159	+ 38·0
2. Vijayawada*	161,198	86,184	+ 60·6
3. Warangal*	133,130	92,808	+ 35·7
4. Guntur*	125,255	83,599	+ 39·9
5. Vishakapatnam* ..	108,042	70,243	+ 42·4
6. Rajahmundry*	105,276	74,564	+ 34·2
Bihar			
1. Patna	283,479	196,415	+ 36·3
2. Jamshedpur	218,162	165,395	+ 27·5
3. Gaya	133,700	105,223	+ 23·8
4. Bhagalpur*	114,530	93,254	+ 20·5
5. Ranchi*	106,849	62,562	+ 52·3
Bombay			
1. Bombay	2,839,270	1,695,168	+ 50·5
2. Ahmedabad	788,333	591,267	+ 28·6
3. Poona	480,982	278,165	+ 53·4
4. Nagpur	449,099	301,957	+ 39·2
5. Sholapur	266,050	203,691	+ 26·6
6. Surat	223,182	171,443	+ 26·2
7. Baroda	211,407	153,301	+ 31·9
8. Bhavnagar	137,951	102,851	+ 29·2
9. Kolhapur*	136,835	93,032	+ 38·1
10. Rajkot*	132,069	52,178	+ 86·7
11. Jamnagar*	104,419	71,588	+ 37·3
Kerala			
1. Trivandrum	186,931	128,365	+ 37·2
2. Koshikode	158,724	126,352	+ 22·7
3. Alleppey*	116,278	56,333	+ 69·5
Madhya Pradesh			
1. Indore	310,859	203,695	+ 41·7
2. Jabalpur	256,998	178,339	+ 36·1
3. Gwalior	241,577	182,492	+ 27·9
4. Ujjain*	129,817	81,272	+ 46·0
5. Bhopal*	102,333	75,228	+ 30·5
Madras			
1. Madras	1,416,056	777,481	+ 58·2
2. Madurai	361,781	239,144	+ 40·8
3. Tiruchirapalli	218,921	159,566	+ 31·4
4. Salem	202,335	129,702	+ 43·8
5. Coimbatore	197,755	130,348	+ 41·1
6. Vellore*	106,024	71,502	+ 38·9
7. Tanjore*	100,680	68,702	+ 37·8
Mysore			
1. Bangalore	778,977	406,760	+ 62·8
2. Mysore	244,323	150,540	+ 47·5
3. Kolar Gold Fields ..	159,084	133,859	+ 17·2
4. Hubli*	129,609	95,512	+ 30·3
5. Mangalore*	117,083	81,069	+ 36·3
Orissa			
1. Cuttack*	102,505	74,291	+ 31·9
Punjab			
1. Amritsar	325,747	391,010	— 18·2
2. Jullundur	168,816	135,283	+ 22·1
3. Ludhiana	153,795	111,639	+ 31·8
Rajasthan			
1. Jaipur	291,130	175,810	+ 49·4
2. Ajmer	196,633	147,258	+ 28·7
3. Jodhpur	180,717	126,842	+ 35·0
4. Bikaner	117,113	127,226	— 8·3
Uttar Pradesh			
1. Kanpur	705,383	487,324	+ 36·6
2. Lucknow	496,861	387,177	+ 24·8
3. Agra	375,665	284,149	+ 27·7
4. Banaras	355,777	263,100	+ 30·0
5. Allahabad	332,295	260,630	+ 24·2
6. Meerut	233,183	169,290	+ 31·8
7. Bareilly	208,083	192,688	+ 7·7
8. Moradabad	161,854	142,414	+ 12·8
9. Saharanpur	148,435	108,263	+ 31·3
10. Dehra Dun*	144,216	78,228	+ 59·3
11. Aligarh	141,618	112,655	+ 22·8
12. Rampur*	134,277	89,322	+ 40·2
13. Gorakhpur*	132,436	98,977	+ 28·9
14. Jhansi	127,365	103,254	+ 20·9
15. Mathura*	105,773	80,532	+ 27·1
16. Shahjahanpur	104,835	110,163	— 5·0
West Bengal			
1. Calcutta	2,548,677	2,108,891	+ 18·9
2. Howrah	433,630	379,292	+ 13·4
3. Tollyganj*	149,817	58,594	+ 87·5
4. Bhatpara	134,916	117,044	+ 14·2
5. Kharagpur*	129,686	87,185	+ 39·2
6. Garden Reach*	109,160	85,188	+ 24·7
7. South Suburban(Beha'a)*	104,055	63,479	+ 48·4
Delhi			
1. Delhi	914,790	521,849	+ 54·7
2. New Delhi*	276,314	93,733	+ 98·7

* These towns have been treated as cities for the first time.

TOWNS WITH THEIR POPULATIONS

Uttar Pradesh

(50,000—100,000)—13 Towns

Name of Town	Persons
Mirzapur	86,528
Faizabad	76,582
Meerut Cantonment	74,776
Farrukhabad	74,205
Firozabad	65,438
Muzaffarnagar	64,213
Sambhal	61,420
Etawah	59,986
Amroha	59,105
Hathras	56,619
Hardwar	56,175
Budaun	53,521
Jaunpur	52,351

(20,000—50,000)—47 Towns

Hapur	49,260
Pilibhit	46,225
Kanpur Cantonment	45,158
Bahraich	44,741
Sitapur	44,397
Ghaziabad	43,745
Agra Cantonment	42,135
Khurja	38,462
Bulandshahr	37,496
Lucknow Cantonment	37,377
Chandausi	36,689
Maunath Bhanjan	34,807
Ghazipur	33,498
Basti	33,203
Gonda	32,566
Kasganj	31,554
Bijnor	30,646
Ballia	30,638
Banda	30,327
Hardoi	29,881
Najibabad	29,362
Tanda	29,288
Nagina	27,947
Dehra Dun Cantonment	27,812
Azam Garh	26,632
Deoband	25,906
Unnao	25,240
Haldwani	25,065
Lakhimpur	25,055
Rae Bareili	24,958
Shahabad	24,627
Fatehpur	24,301
Sikandrabad	24,080
Roorkee	23,239
Kairana	23,163
Kannau	23,138
Balrampur	23,088
Mainpuri	22,932
Nawab Ganj	22,886
Vrinda Ban	22,119
Orai	21,258
Tilhar	21,203
Sahaswan	21,107
Lalitpur	20,792
Konch	20,732
Deoria	20,156
Allahabad Cantonment	20,036

Bihar

(50,000—100,000)—6 Towns

Darbhanga	84,816
Monghyr	74,348
Muzaffarpur	73,594
Chapra	64,309
Arrah	64,205
Bihar	63,124

(20,000—50,000)—19 Towns

Jamalpur	44,172
Dinapore	42,684
Katihar	42,365
Bettiah	35,634
Dhanbad	34,077
Hazari Bagh	33,812
Barh	29,808
Sasaram	29,265
Giridih	29,167
Jharia	26,480
Sahibganj	25,669

Name of Town	Persons
Deoghar	25,510
Hajipur	25,149
Purnea	25,060
Dehri	24,496
Motihari	24,489
Madhubani	23,283
Siwan	22,625
Barhi (Admn. Committee)	20,752

Orissa

(50,000—100,000)—1 Town

Berhampur	62,343

(20,000—50,000)—5 Towns

Puri	49,057
Sambalpur	23,525
Balasore	22,851
Parlakimedi	22,270
Jeypore	20,352

West Bengal

(50,000—100,000)—14 Towns

Kamarhati	77,251
Baranagar	77,126
Asansol	76,277
Burdwan	76,376
Serampur	74,324
Titaghar	71,622
Bally	63,138
South Dum Dum	61,391
Hoogly—Chinsura	56,805
Kanchrapara	56,668
Nabadwip	56,298
Berhampur Town	55,613
Naihati	55,313
Krishnagar	50,042

(20,000—50,000)—28 Towns

Panihati	49,514
Bankura	49,369
Midnapur	45,476
Barrackpur	42,639
Santipur	42,413
Purulia	41,461
Jalpaiguri	41,259
Bhadreswar	36,292
Basirhat	34,823
Halisahar	34,666
Darjeeling	33,605
Cooch-Behar	33,242
Siliguri	32,480
Budge-Budge	32,196
North-Barrackpur	32,173
Champdany	31,543
Kulti (Non-Municipal)	31,363
English Bazar	30,663
Bansberia	30,622
Garulia	28,304
Ranaghat	28,064
Rishra	27,465
Raniganj	25,939
Alipur Duar (Non-Municipal)	24,886
Baidyabati	24,883
Vishnupur	23,981
Bongaon (Non-Municipal)	23,364
Konnagar	20,233

Chandernagore

(20,000—50,000)—1 Town

Chandernagore	49,909

Assam

(50,000—100,000)—1 Town

Shillong	53,756

(20,000—50,000)—6 Towns

Gauhati	43,615
Dibrugarh	37,991
Silchar	34,059
Nowgong	28,257
Dhubri	22,787
Barpeta	21,137

Tripura

(20,000—50,000)—1 Town

Agartala	42,595

Madras

(50,000—100,000)—11 Towns

Name of Town	Persons
Tuticorin	98,866
Kumbakonam	91,643
Kancheepuram	84,810
Nagercoil	79,284
Dindigul	78,361
Tirunelveli	73,476
Cuddalore	69,084
Rajapalayam	60,861
Nagapattinam	57,854
Erode	57,576
Tiruppur	52,479

(20,000—50,000)—55 Towns

Aruppukottai	48,554
Virudhunagar	46,309
Gudiyattam	45,667
Pudukottai	44,527
Mayuram	43,436
Karur	42,155
Pollachi	41,744
Ootacamund	41,370
Tiruvannamalai	40,718
Srivilliputtur	40,436
Palayamcottai	40,010
Ambur	39,992
Vaniymbadi	38,712
Karaikudi	38,453
Kadayanallur (P)	38,060
Melapalayam	37,653
Srirangam	36,702
Bodinayakanur	35,912
Villupuram	35,684
Chidambaram	34,732
Palani	34,486
Tenkasi (P)	31,074
Periyakulam	31,000
Gobichettipalayam	30,354
Mannargudi	29,860
Tindivanam	29,651
Vikramasingapuram (P)	29,361
Puliyangudi (P)	27,619
Mettupalayam	27,516
Tiruvarur	27,251
Tirupattur	27,003
Mettur (Township)	27,002
Combum (P)	26,908
Kovilpatti (P)	26,038
Devakottai	25,989
Arni (P)	24,567
Dharapuram	24,163
Dharamapuri (P)	24,094
Ramanathapuram (P)	24,053
Coonoor	23,902
Udumalpet	23,309
Rasipuram	23,125
Arkonam (P)	23,032
Attur (P)	22,844
Sivakasi	22,074
Chingleput	22,660
Tiruvattiyur (P)	22,393
Parmakudi (P)	22,257
Sankaranayinarkoil (P)	21,904
Arcot (P)	21,124
Nellikuppam (P)	20,695
Poonamalle (P)	20,677
Kurichi (P)	20,579
Ambasamudram (P)	20,356
Kallidaikurichi (P)	20,019

Mysore

(50,000—100,000)—8 Towns

Belgaum	85,988
Gulbarga	77,189
Bellary	70,322
Dharwar	66,571
Bijapur	65,734
Gadag	65,509
Davangere	56,018
Raichur	54,032

(20,000—50,000)—19 Towns

Shimoga	46,524
Bhadravati	42,451
Hospet	38,651
Tumkur	35,999

Name of Town	Persons
(20,000—50,000)—19 Towns—*Contd.*	
Bagalkot	32,285
Bidar	31,341
Kolar	27,176
Ranebennur	25,282
Chitaldurg	25,081
Hassan	24,869
Channapatna	24,041
Yadgir	22,030
Guledgud	21,972
Chikmagalur	21,744
Mandya	21,158
Jamkhandi	20,865
Ilkal	20,747
Udipi	20,451
Chikballapur	20,219
Kerala	
(50,000—100,000)—5 Towns	
Mattancheri	73,904
Trichur	69,515
Palghat	69,504
Quilon	66,126
Ernakulam	62,283
(20,000—50,000)—11 Towns	
Kottayam	44,204
Cannanore	42,431
Tellicherry	40,040
Changanachery	36,289
Panthalayini (P)	29,001
Chittur Thathamangalam	23,746
Ponnani (P)	23,606
Kasargod	22,708
Ottapalam (P)	22,695
Badagara	20,964
Thiruvalla	20,709
Bombay	
(50,000—100,000)—20 Towns	
Nasik	97,042
Akola	89,606
Amravati	87,099
Ahmednagar	80,873
Ulhasnagar (Camp)	80,861
Dhulia	76,880
Jalgaon	68,412
Aurangabad	66,636
Nanded	65,024
Junagadh	62,730
Broach	62,729
Nadiad	62,645
Poona Cantonment	59,011
Kalyan	58,900
Porbundar	58,824
Jalna	58,478
Malegaon	55,022
Bhusawal	54,346
Sangli	50,287
Thana	50,155
(20,000—50,000)—76 Towns	
Kirkee Cantonment	48,552
Malad	45,134
Navsari	44,663
Amalner	44,646
Dhoraji	43,787
Patan	43,044
Dohad	42,006
Barsi	41,849
Satara	38,521
Chanda	40,744
Morvi	40,722
Pandharpur	40,514
Godhra	40,476
Veraval	40,378
Miraj	40,224
Wardha	39,827
Cambay	39,038
Gondal	37,046
Khamgaon	36,734
Gondia	36,686
Yeotmal	35,980
Achalpur	35,712
Latur	35,374
Surendranagar	34,254
Parbhani	33,446
Hinganghat	32,868
Kamptee	31,298
Chalisgaon	30,345
Nandurbar	30,144
Malvan	29,851
Petlad	29,667
Jetpur	28,444
Amreli	27,826
Viramgam	27,435
Ichalkaranji	27,423
Mulund	27,148
Ratnagiri	27,082
Deolali Cantonment	27,075
Deolali (Non-Cantonment Area)	26,885
Mahuva	26,718
Dhrangadhra	25,729
Anand	25,767
Bhivandi	25,764
Karad	25,721
Bhir	25,636
Bulsar	25,440
Sidhpur	25,410
Dabhoi	24,952
Mulkapur	24,041
Ahmednagar Cantonment	24,402
Nipani	24,325
Akot	24,255
Palitana	24,097
Wadhwan	23,381
Chopda	22,832
Mehsana	22,804
Venguria	22,778
Upleta	22,736
Bhandara	22,640
Palanpur	22,629
Kalol	22,432
Kandla	22,413
Kapadwanj	22,319
Ambarnath	21,498
Yeola	21,378
Hingoli	21,214
Dharangaon	21,186
Visnagar	21,093
Borsad	20,637
Kadi	20,373
Akluj	20,292
Dholka	20,012
Mandvi	29,305
Bhuj	30,985
Radnera	21,258
Mangrol	20,085
Madhya Pradesh	
(50,000—100,000)—5 Towns	
Raipur	89,804
Burhanpur	70,066
Sagar	66,442
Ratlam	63,403
Khandwa	51,940
(20,000—50,000)—23 Towns	
Mhow Cantonment	44,655
Bilaspur	39,099
Damoh	36,964
Mandsaur	34,541
Jabalpur Cantonment	34,225
Murwara	33,884
Rewa	29,623
Raigarh	29,684
Jaora	29,598
Dewas	27,879
Chhindwara	27,652
Datia	26,447
Seoni	25,024
Itarsi	24,795
Dhar	23,652
Rajnandgaon	23,300
Goona	22,221
Karanja	22,098
Shivpuri	21,887
Sehore	20,879
Khargone	20,762
Durg	20,249
Satna	20,183
Rajasthan	
(50,000—100,000)—4 Towns	
Udaipur	89,621
Kotah	65,107
Alwar	57,868
Beawar	51,054
Sikar	44,140
Tonk	42,833
Churu	40,047
Bharatpur	37,321
Ganganagar	36,437
Bhilwara	29,668
Ratangarh	27,431
Fatehpur	26,751
Nawalgarh	26,679
Sardar Shahr	26,668
Sujan Garh	26,296
Kishan Garh	25,696
Nasirabad	24,504
Pali	24,100
Bundi	22,697
Ladnun	20,914
Barmer	20,812
Dholpur	20,651
Jhunjhunu	20,637
Baran	20,419
Punjab	
(50,000—100,000)—8 Towns	
Patiala	97,869
Ambala Cantonment	94,043
Rohtak	71,902
Karnal	57,906
Batala	55,850
Panipet	54,981
Ambala	52,685
Bhiwani	52,183
(20,000—50,000)—26 Towns	
Simla	46,150
Hoshiarpur	45,291
Ferozepur	40,703
Ferozepur Cantonment	38,784
Moga	36,598
Hissar	35,297
Bhatinda	34,991
Rewari	34,082
Malerkotla	32,575
Jullundur Cantonment	33,174
Sonepat	30,189
Kapurthala	26,947
Fazilka	25,934
Hansi	25,837
Nabha	25,676
Kaithal	25,732
Abohar	25,476
Sirsa	24,980
Jagraon	24,519
Jagadhri	23,943
Rajpura (Small Town Committee)	23,310
Faridabad Township	23,125
Pathankot	23,108
Gurdaspur	22,677
Muktsar	22,097
Phagwara	21,866
Delhi	
(50,000—100,000)—2 Towns	
Delhi Civil Lines (N. A. C.)	83,273
West Delhi (N. A. C.)	58,862
(20,000—50,000)—2 Towns	
Delhi Cantonment	40,950
Shahdara	30,802
Andhra Pradesh	
(50,000—100,000)—10 Towns	
Kakinada	99,952
Eluru	87,213
Nellore	81,480
Masulipatnam	77,953
Vizianagram	67,104
Kurnool	60,222
Tenali	58,116
Nizamabad	55,195
Adoni	53,583
Kothagudem	50,195
(20,000—50,000)—35 Towns	
Anakapalle	40,102
Chittoor	38,894
Chirala	37,729
Cuddapah	37,483

Name of Town	Persons
(20,000—50,000)—35 Towns—*Contd.*	
Proddatur	36,624
Nandyal	33,344
Anantapur	31,952
Gudivada	31,942
Guntakal	31,341
Bhimavaram	30,928
Khammam	28,251
Samalkot (P)	28,180
Ongole	27,310
Tirupathi	25,207
Hindupur	24,438
Saidr	24,405
Srikakulam (M)	24,212
Mahbubnagar	23,827
Karimnagar	23,826
Edapapdi (P)	23,437
Peddapuram	23,360
Bobbili (P)	23,102
Palacole	23,037
Bapatla (P)	22,748
Bodhan	22,491
Narasaraopet	22,243
Nalgonda	22,183
Pithapuram (P)	22,040
Amalapuram	21,117
Parvatipuram (P)	21,099
Jagtial	21,046
Narasapur (P)	20,999
Narayanpet	20,707
Kadiri	20,354
Gudur (P)	20,056

1951 position :

N.A.C. = Notified Area Committee.

P = Panchayat.

The rest of the towns listed have municipalities.

8. LIVELIHOOD CATEGORIES AND CLASSES

States mentioned are those not affected by reorganization.

Zone and State.	Population.	Agricultural.	Percentage of total population.	Non-Agricultural.	Percentage of total population.
INDIA	356,879,394	249,122,449*	70*	107,571,940*	30*
I.—North India	63,215,742	46,896,671		16,319,071	
1. Uttar Pradesh	63,215,742	46,896,671	74	16,319,071	26
II.—East India	90,080,297	68,140,837		21,939,460	
1. Orissa	14,645,946	11,612,368	79	3,033,578	21
2. Assam	9,043,707	6,632,992	73	2,410,715	27
3. Manipur	577,635	482,017	83	95,618	17
4. Tripura	639,029	480,881	75	158,148	25
5. Sikkim	137,725	126,164	92	11,561	8
III.—South India	75,600,804	48,587,786		27,013,018	
IV.—West India	40,661,115	24,265,994		16,395,121	
V —Central India	52,267,959	38,270.803		13,997,156	
VI.—North-West India	34,837,501	22,955,947		11,881,554	
1. Delhi	1,744,072	172,186	10	1,571,886	90
2. Bilaspur†	126,099	114,398	90	11,701	10
3. Himachal Pradesh	983,367	914,238	93	69,129	7
Andaman and Nicobar Islands	30,971	4,411	14	26,560	86

Figures for the new Punjab could be obtained by adding where appropriate the figures for the old Punjab and PEPSU.

* Chandernagore with a population of 49,909 is not included in this classification. The population, it may be mentioned, is wholly urban.

† Merged into Himachal Pradesh on 1st July 1954.

9. AGRICULTURAL CATEGORIES

States mentioned are those not affected by reorganization

Zone and State.	Cultivators of land wholly or mainly owned and their dependents.		Cultivators of land wholly or mainly unowned and their dependents.		Cultivating labourers and their dependents.		Non-cultivating owners of land, Agricultural rent receivers and their dependents.	
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
INDIA	85,115,449	82,231,052	16,256,195	15,383,524	22,395,852	22,416,076	2,438,190	2,886,111
I.—North India	20,371,406	18,989,629	1,710,939	1,544,876	1,908,442	1,703,767	304,286	363,326
1. Uttar Pradesh ..	20,371,406	18,989,629	1,710,939	1,544,876	1,908,442	1,703,767	304,286	363,326
II.—East India	22,674,108	22,455,759	4,302,662	4,156,499	6,911,673	6,919,187	341,089	379,910
1. Orissa	4,308,305	4,410,517	437,779	431,972	903,050	900,918	95,971	123,856
2. Assam	2,728,885	2,506,906	614,990	543,264	90,095	67,245	38,374	43,230
3. Manipur	206,482	204,930	27,915	29,823	701	680	5,165	6,371
4. Tripura	196,599	185,548	29,732	26,198	17,104	13,782	5,588	6,330
5. Sikkim	58,950	56,552	5,356	5,053	102	97	27	27
III.—South India	13,851,489	13,629,350	3,368,612	3,270,241	6,288,063	6,617,452	718,177	904,402
IV.—West India	8,126,228	8,036,546	1,963,570	1,920,941	1,732,685	1,692,341	358,606	435,077
V.—Central India	12,482,061	12,285,406	1,769,793	1,657,433	4,571,624	4,610,286	408,585	485,615
VI.—North-West India	7,607,980	6,832,472	3,200,525	2,833,463	983,280	872,997	307,476	317,754
1. Punjab	2,566,061	2,256,115	1,076,879	938,689	519,301	443,376	133,429	134,747
2. Patiala and East Punjab States Union	911,284	777,842	218,136	186,741	195,195	163,481	41,702	40,303
3. Delhi	64,198	56,610	8,896	7,601	15,278	13,998	2,811	2,794
4. Bilaspur*	49,589	47,520	6,854	7,126	1,191	795	579	744
5. Himachal Pradesh ..	427,522	402,174	35,350	30,157	4,950	4,148	5,105	4,832
Andaman and Nicobar Islands ..	2,177	1,890	94	71	85	46	21	27

The figures for the new Punjab could be obtained by adding where appropriate the figures for the old Punjab and PEPSU.

* Merged with Himachal Pradesh on 1st July, 1954.

10. NON-AGRICULTURAL CATEGORIES†

States mentioned are those not affected by reorganization

Zone and State.	Production other than cultivation.		Commerce.		Transport.		Other services and Miscellaneous sources.	
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
INDIA	20,024,164	17,636,033	11,232,253	10,076,618	3,114,358	2,505,770	22,657,958	20,324,786
I.—North India	2,861,348	2,439,965	1,692,701	1,486,894	476,173	383,838	3,773,571	3,204,581
1. Uttar Pradesh ..	2,861,348	2,439,965	1,692,701	1,486,894	476,173	383,838	3,773,571	3,204,581
II.—East India	4,245,187	3,484,969	2,496,336	2,028,495	760,495	483,337	4,584,158	3,851,483
1. Orissa	456,960	469,828	208,911	216,941	41,160	36,378	790,756	812,644
2. Assam	710,327	617,224	202,772	150,294	67,782	47,787	358,938	255,591
3. Manipur	15,000	25,331	11,287	12,837	1,690	1,380	15,495	12,598
4. Tripura	20,206	18,189	22,566	18,272	1,801	1,513	41,993	33,608
5. Sikkim	672	451	1,164	471	1,762	166	4,177	2,698
III.—South India	5,095,492	4,697,774	2,485,000	2,470,811	717,419	664,866	5,358,290	5,323,366
IV.—West India	3,163,442	2,638,132	1,732,594	1,512,236	506,836	416,508	3,398,320	3,027,053
V.—Central India	3,030,683	2,791,517	1,277,164	1,208,319	352,136	316,396	2,605,478	2,415,468
VI.—North-West India	1,617,376	1,376,784	1,547,523	1,369,361	300,562	235,469	2,933,771	2,500,708
1. Punjab	501,028	414,711	611,128	532,292	74,889	56,419	1,232,984	1,014,061
2. Patiala and East Punjab States Union ..	139,219	116,187	142,345	124,774	77,610	61,409	169,353	2,610
3. Delhi	177,812	124,785	220,401	175,750	55,053	40,115	442,589	335,881
4. Bilaspur††	2,967	2,574	1,175	1,010	173	124	2,210	1,468
5. Himachal Pradesh ..	13,963	9,440	9,144	6,780	2,702	1,337	16,029	9,784
Andaman and Nicobar Islands ..	10,636	6,892	935	502	737	356	4,870	2,132

The figures for the new Punjab could be obtained by adding where appropriate the figures for the old Punjab and PEPSU.

† Chandernagore with a population of 40,909 is not included in this classification. The population is wholly urban.

†† Merged with Himachal Pradesh on 1st July, 1954.

LIVELIHOOD PATTERNS*

Out of a total population of 3,566 lakhs, 1,044 lakhs (29·3 per cent) are self-supporting; 2,143 lakhs (60·1 per cent) are non-earning dependents; and 379 lakhs (10·6 per cent) earning dependents.

Out of a total agricultural population of 2,490 lakhs, 710 lakhs are self-supporting; 1,470 lakhs are non-earning dependents; and 310 lakhs earning dependents.

Out of a total non-agricultural population of 1,076 lakhs, 334 lakhs are self-supporting; 673 lakhs are non-earning dependents; and 69 lakhs earning dependents.

The table below gives a comprehensive picture of self-supporting and dependent people and the percentage.

Under Agriculture Class I is owner-cultivator, Class II tenant-cultivator, Class III cultivating labourer, Class IV agricultural rentier.

Class V are persons engaged in non-agricultural production together with their dependents, Class VI persons in commerce and their dependents, Class VII in transport and their dependents, Class VIII in miscellaneous income recipients (non-agricultural rentiers, pensioners etc.).

The second column shows self-supporting persons; the third non-earning dependents; the fourth earning dependents; the fifth total; the sixth percentage to general population including dependents.

The figures are in lakhs.

Category	2	3	4	5	6
Class I	457	1,001	215	1,673	46·9
Class II	88	189	39	316	8·8
Class III	149	247	52	448	12·6
Class IV	16	33	4	53	1·5
Total Agricultural classes..	710	1,470	310	2,490	69·8
Class V	122	223	32	377	10·5
Class VI	59	145	9	213	6·0
Class VII	17	37	2	56	1·6
Class VIII	136	268	26	430	12·1
Total non-agricultural classes	334	673	69	1,076	30·2
General Population ..	1,044	2,143	379	3,566	100·0

The following figures show the number of dependents supported by 100 persons in each of the eight categories. The first figure in brackets shows the number of non-earning dependents and the second figure the number of earning dependents:

Class I—266 (219,47); Class II—259 (215,44); Class III—201 (166,35); Class IV—231 (206,25); All Agricultural classes—251 (207,44).

Class V—211 (185,26); Class VI—261 (246,15); Class VII—230 (218,12); Class VIII—216 (197,19); All non-agricultural classes—222 (201,21).

General Population—242 (205,37).

BROAD CONCLUSIONS

The broad conclusion of this survey is that the average self-supporting person uses his income to support himself and at least two others.

Roughly one among three self-supporting persons also provides, in addition, partial support for one earning dependent.

During the twenty years following 1931 population grew faster than cultivation. But the relative weight of dependence on agriculture for gainful employment has not declined in the country as a whole. It is probable that it has increased slightly.

On the whole, there has been a general increase of non-earning dependency. The increase in absolute numbers of non-earning dependents has exceeded the entire increase of rural population in India as well as in each of the five zones out of six.

The increases in the percentages are not accompanied by any material change in sex ratio or age structure. They must, therefore, be regarded as a rough index of the growth of unemployment in different parts of the country.

There has been a general increase throughout the country in the number of cultivators and cultivating labourers working on the same area (say 100 acres) of cultivated land.

Material changes have occurred in the percentage of cultivating labourers to all workers in land (i.e. cultivating labourers and cultivators including their unpaid family helpers).

The fall is the natural result of increase in the number of cultivators and members of their families occupying the same area of cultivated land. The cultivators' need for employing labourers diminishes, as also their capacity to pay for their services.

Other reasons for the fall may be that labourers were unwilling to acknowledge as labourers to guard against the accrual of occupancy rights in land.

There were also many people who partook of the characteristics of both cultivator and cultivating labourer and whose classification was open to doubt.

It is also possible that because of legislation and the general social climate a conversion has taken place of many persons from the status of cultivating labourer to that of cultivator.

Among cultivators the relative proportion of cultivator owners has increased to some extent.

Agricultural rentiers formed only a small proportion of the people in 1931, and this proportion has become still smaller in 1951.

* For detailed tables see next page.

11. LIVELIHOOD PATTERNS (AGRICULTURAL CLASSES)

Zone	Self-supporting persons		Non-earning dependents		Earning dependents	
	Males	Females	Males	Females	Males	Females
India	58,514,694	12,534,662	57,193,466	89,763,174	10,479,295	20,589,610
North India	12,659,071	1,262,460	9,867,505	16,457,548	1,768,497	4,881,590
East India	15,413,440	4,487,102	16,566,906	27,168,412	2,249,314	2,256,023
South India	10,067,318	2,501,206	12,988,564	20,555,971	1,110,459	1,364,268
West India	5,158,210	796,350	5,646,961	7,502,033	1,375,918	3,786,522
Central India	9,123,477	1,877,655	7,404,714	11,112,657	2,703,872	6,048,428
North-West India	6,091,954	1,609,736	4,717,856	6,964,692	1,271,042	2,252,759
Andaman and Nicobar Islands ..	1,224	153	960	1,861	193	20

12. LIVELIHOOD PATTERNS (NON-AGRICULTURAL CLASSES)

Zone	Self-supporting persons		Non-earning dependents		Earning dependents	
	Males	Females	Males	Females	Males	Females
India	28,662,536	4,687,911	25,407,927	41,926,707	2,937,036	3,931,294
North India	4,751,964	586,015	3,700,962	6,350,411	350,867	578,852
East India	6,415,002	1,411,294	5,235,364	8,042,979	463,852	420,518
South India	6,256,924	1,227,083	6,794,472	11,488,904	604,805	640,830
West India	4,428,106	545,054	3,662,807	6,286,494	510,279	760,381
Central India	3,665,448	526,177	3,006,947	5,108,068	593,066	1,097,450
North-West India	3,135,575	391,848	2,802,254	4,642,859	411,127	429,313
Andaman and Nicobar Islands ..	9,517	440	4,121	5,492	3,040	2,050

The following table shows the livelihood pattern in some States in a sample of 10,000 persons :

States.	Number per 10,000 persons of all agricultural Classes			Number per 10,000 persons of all non-agricultural Classes			Number per 10,000 self-supporting persons of all non-agricultural Classes			
	Self-supporting persons	Non-earning dependents	Earning dependents	Self-supporting persons	Non-earning dependents	Earning dependents	Employers	Employees	Independent workers	Others
India	2,853	5,900	1,247	3,101	6,260	639	331	4,436	4,938	295
Zones :—										
I—North India	2,969	5,613	1,418	3,271	6,159	570	280	2,815	6,628	277
II—East India	2,921	6,418	661	3,559	6,039	402	247	5,565	3,917	271
III—South India	2,587	6,904	509	2,771	6,768	461	481	4,765	4,482	272
IV—West India	2,454	5,419	2,127	3,033	6,192	775	465	5,025	4,221	289
V—Central India	2,874	4,839	2,287	2,995	5,797	1,208	282	3,942	5,376	400
VI—North-West India ..	3,362	5,100	1,538	2,986	6,303	711	146	3,440	6,107	307
Uttar Pradesh	2,969	5,613	1,418	3,271	6,159	570	280	2,815	6,628	277
Orissa	2,777	6,233	990	3,157	5,975	868	118	2,702	6,766	414
Assam	2,448	5,849	1,703	4,101	5,241	658	100	7,507	2,245	148
Manipur	2,719	4,831	2,450	2,714	4,618	2,668	170	1,816	8,011	3
Tripura	3,127	5,480	1,393	3,210	6,384	406	66	4,836	4,691	407
Sikkim	2,102	4,259	3,639	5,803	4,000	197	—	4,832	5,145	23
Punjab	2,679	5,836	1,485	2,660	6,477	863	98	3,357	6,150	395
Himachal Pradesh and Bilaspur	3,502	3,967	2,531	3,984	5,100	916	32	3,443	6,257	268
PEPSU	3,003	5,902	1,095	2,960	6,627	413	16	2,782	6,964	238
Delhi	2,505	6,074	1,421	3,299	6,364	337	166	5,612	4,151	71

The figures for the new Punjab could be obtained by adding where appropriate the figures for the old Punjab and PEPSU.

SELF-SUPPORTING PERSONS

There are 1,044 lakhs of self-supporting persons in the country or 29·3 per cent of the population.

The table below shows the rural-urban and sex-wise break-up.

Rural-Urban	Number (in lakhs)	Percentage
Rural males ..	706	47·1
Urban males ..	166	49·8
Rural females ..	151	10·4
Urban females ..	21	7·4
Total ..	1,044	29·3

Out of 1,044 lakhs of self-supporting persons 710 lakhs or 68·1 per cent are agriculturists, and 334 lakhs or 31·9 per cent are non-agriculturists.

The rural-urban and the sex-wise break-up of agricultural and non-agricultural self-supporting classes is as follows (the number is in lakhs):

Rural-Urban break-up	Agriculturists		Non-agriculturists	
	Number	Percentage	Number	Percentage
Rural males	566	80·2	140	19·8
Urban males	19	11·4	147	88·6
Rural females	121	80·2	30	19·8
Urban females	4	19·7	17	80·3
Total ..	710	68·1	334	31·9

The self-supporting agriculturists can be divided into four classes. The number in the second column in the table below is in lakhs, the number in the third column is the percentage of all agriculturists, the number in the last is percentage of all self-supporting persons.

Category	Number (lakhs)	Percentage of agriculturists	Percentage of all self-supporting persons
Cultivators of land wholly or mainly owned	457	64·4	43·8
Cultivators of land wholly or mainly un-owned	88	12·3	8·4
Cultivating labourers	149	21·0	14·3
Non-cultivating owners of land and other agricultural rent receivers	16	2·3	1·6
Total	710	100·0	68·1

Another way of describing Classes I and II is as owner-cultivators and tenant-cultivators. Thus the number of owner-cultivators is 457 lakhs and the number of tenant-cultivators is 88 lakhs. The total number of cultivators can thus be put down as 545 lakhs.

The 334 lakhs self-supporting non-agriculturists can also be divided into four sections. The number in the second column is in lakhs, the number in the third shows the percentage of all self-supporting non-agriculturists, the fourth the percentage of all self-supporting persons.

Categories	Number (lakhs)	Percentage of self-supporting non-agriculturists	Percentage of all self-supporting persons
Employers	11	3·3	1·1
Self-employed other than employers	165	49·4	15·7
Employees	148	44·3	14·2
Non-agricultural rentiers, pensioners and miscellaneous income-receivers	10	3·0	0·9
Total	334	100·0	31·9

The employees are a clear minority. Self-employed persons are more numerous than employers and employees combined.

If we deduct rentiers from both agriculturists and non-agriculturists we get the following classification of income-earners. The number in the following table is in lakhs.

Nature of income	Cultivation	Industries and Services	Total
Net profits	545	176	721
Wages and salaries	149	148	297
Total	694	324	1,018

Earners of profits are much more than twice as numerous as earners of wages and salaries.

In Industry

The 324 lakhs self-supporting persons engaged in industries and services other than cultivation may be divided as follows :

Categories	Number (in lakhs)	Percentage
Primary industries other than mining and quarrying (0)	24·0	7·4
Mining and quarrying (1)	5·7	1·8
Processing and manufacture (foodstuffs, textiles, leather) (2)	55·1	17·0
Processing and manufacture (metals, chemicals) (3)	12·4	3·8
Processing and manufacture not elsewhere specified (4)	24·3	7·5
Construction and utilities (5)	15·9	4·9
Commerce (6)	59·0	18·2
Transport, storage and communications (7)	19·0	5·9
Health, education and public administration (8)	32·9	10·2
Services not elsewhere specified (9)	75·4	23·3

The number engaged in some of the sub-divisions of the above main divisions is as follows (the figure is in lakhs) :

Plantations—10·6 ; Stock-raising—6·3 ; Fishing—4·2 ; Forestry (wood cutting, collection of forest produce not elsewhere specified)—2·5 ; Rearing of small animals and insects—27 (in thousands) ; hunting—9 (in thousands).

Figures for men engaged in mining (shown below) are given in thousands except for coal-mining, and mining of stone, clay and sand which are in lakhs :

Coal-mining—3·1 ; Mining of stone, clay, sand—1·2.

Iron ore—9 ; metals other than iron—57 ; petroleum—3 ; mica—33 ; salt, saltpetre and saline substances—22 ; non-metallic minerals —11. Total for this group—135.

The figures for persons engaged in various industries given below are in lakhs :

Divisions 2, 3, 4

Milling of cereals, pulses, hand pounding of rice, dehusking, grinding of food grains—4·0 ; Vegetable oil and dairy products—2·7 ; Sugar —1·4 ; Beverages (breweries, distilleries, toddy drawers, aerated waters)—1·6 ; Tobacco (preparation of raw leaf, makers of bidis, cigarettes, etc., snuff)—3·6 ; Other food industries—1·8 ; All food industries (except cultivators, housewives, hotel workers)—15.

Cotton textiles—20·6 ; wearing apparel (except footwear)—6·5 ; Other textiles (jute, wool, silk, hemp, flax, rayon, rope, twine, etc.)—7·1 ; Leather (leather products, footwear) —5·8.

Manufacture of transport equipment—2·2 ; Machinery (other than electrical) including engineering workshops—1·2 ; Basic manufacture of iron and steel—1·1 ; Manufacture of metal products otherwise unclassified—6·2.

Manufacture of wood and wood products (carpenters, turners, etc.)—10·4 ; Manufacture of non-metallic mineral products (potters, makers of earthenware, porcelain, crockery, glass bangles, etc.)—4·5.

Division 5

Total for construction and utilities (15·9).

Division 6

The total number engaged in commerce is 59 lakhs.

They fall into three groups : Retail trade (51·1) ; Wholesale trade (4·6) ; Money-lending, banking, insurance, real estate (3·3).

Among men in retail trade : Selling food stuffs (22·5) ; Selling fuel (1·9) ; Selling textiles and leather goods (5·6).

Division 7

Total for Transport, Storage and Communications (19·0) ; Transport by road (8·9) ; By railway (5·7) ; By water (2·2) ; By air (13 thousand).

Division 8

Total for Health, Education and Public Administration (32·9).

Medical and health services (3·8).

Total for educational services and researc (7·4) ; of these stationed in towns (3·7) ; i villages (3·7).

These were divided as follows* : Professor lecturers, teachers, research workers, employe in universities, colleges, research institution (99,256) ; other professors, lecturers, teacher (549,544).

Total for public administration (21·6). Thes may be divided as follows :

Employees of Central Government (5·03) ; Total employees of State Governments (14·26) ; Employees of District Boards, Municipalities and other local bodies (2·24).

These may be sub-divided as General administration (8·09) ; Police (other than village watchmen) (3·80) ; Village establishments including village watchmen (2·37) ; Employees of local bodies (2·24).

Division 9

Services not elsewhere specified (75·4). Of these nothing is known of 37·3 except that they are self-supporting.

The following para. gives the details about the rest of the 38·1 lakh persons (the number is in thousands) :

Domestic service (1,424) ; Laundries and laundry services (565) ; Barbers and beauty shops (511) ; Religious, charitable and welfare services (369) ; Legal and business services (230) ; Recreation services (214) ; Hotels, restaurants and eating houses (458) ; Arts, letters and journalism (39).

The following table shows the position in industries and services in some States in a sample of 10,000 self-supporting persons :

State.	0-Primary Industries not elsewhere specified.	1-Mining and Quarrying.	2-Processing and Manufacture of Foodstuffs, Textiles, Leather and products thereof.	3-Processing and Manufacture of Metals Chemicals and products thereof.	4-Processing and Manufacture not elsewhere specified.	5-Construction and utilities.	6-Commerce.	7-Transport, Storage and Communications.	8-Health, Education and Public Administration.	9-Service not elsewhere specified.
India	742	175	1,702	382	751	490	1,823	588	1,017	2,330
Zones :—										
I—North India	313	22	1,756	360	853	547	1,758	548	955	2,888
II—East India	1,320	400	1,311	486	614	349	1,865	687	686	2,282
III—South India	813	126	1,833	340	792	582	1,690	540	983	2,301
IV—West India	434	65	2,071	446	676	396	1,838	638	1,086	2,350
V—Central India	733	275	2,066	333	880	570	1,702	522	1,219	1,700
VI—North-West India	387	52	1,269	241	765	561	2,238	533	1,580	2,374
Uttar Pradesh	313	22	1,756	360	853	547	1,758	548	955	2,888
Orissa	728	122	1,423	233	777	389	1,509	282	652	3,885
Assam	5,490	55	261	171	390	126	1,091	412	542	1,462
Manipur	528	124	2,485	146	942	166	2,474	842	1,485	1,308
Tripura	1,648	..	626	131	376	25	2,559	217	908	3,310
Sikkim	296	..	221	33	187	285	964	2,769	1,143	4,102
Punjab	148	15	1,130	225	678	472	2,418	464	1,809	2,641
Himachal Pradesh and Bilaspur	727	68	1,709	388	727	374	1,904	909	1,300	1,894
PEPSU	400	4	1,267	299	726	298	2,624	1,523	1,561	1,298
Delhi	22	5	795	370	655	964	2,247	665	2,575	1,702

The figures for the new Punjab could be obtained by adding where appropriate the figures for the old Punjab and PEPSU.
* Excludes five Districts in Bihar.

DEPENDENTS

Out of 3,566 lakhs 2,143 or 60·1 per cent have been classified as non-earning dependents.

The table below shows the rural-urban and the sex-wise break-up of non-earning dependents:

Rural-Urban	Number (in lakhs)	Percentage
Rural males ..	674	45·0
Urban males ..	152	45·6
Rural females ..	1,065	73·5
Urban females ..	252	88·1
	2,143	60·1

There are 379 lakhs or 10·6 per cent earning dependents in the country. They are dependents in the sense that left to themselves they cannot support themselves.

The table below shows the rural-urban and sex-wise break-up of earning dependents.

Rural-Urban	Number (in lakhs)	Percentage
Rural males	119	7·9
Urban males	15	4·6
Rural females	232	16·0
Urban females	13	4·5
	379	10·6

EMPLOYERS, EMPLOYEES AND INDEPENDENT WORKERS

Zone	Employers		Employees		Independent Workers	
	Males	Females	Males	Females	Males	Females
India						
Total	1,025,540	79,089	12,915,584	1,880,417	14,051,077	2,415,176
Rural	349,980	45,346	4,956,516	1,090,894	8,358,703	1,671,961
Urban	675,560	33,743	7,959,068	789,523	5,692,374	743,215
North India						
Total	140,820	8,778	1,405,188	97,163	3,095,523	442,488
Rural	37,461	4,635	500,931	41,972	1,961,008	349,099
Urban	103,359	4,143	904,257	55,191	1,134,515	93,389
East India						
Total	173,607	19,783	3,617,089	738,073	2,498,691	566,833
Rural	73,908	13,901	1,736,416	553,615	1,568,246	460,643
Urban	99,699	5,882	1,880,673	184,458	930,445	106,190
South India						
Total	331,312	28,731	2,987,373	579,041	2,814,566	539,497
Rural	146,206	16,818	1,422,441	351,244	1,790,452	367,603
Urban	185,106	11,913	1,564,932	227,797	1,024,114	171,894
West India						
Total	220,039	11,062	2,302,353	196,777	1,802,901	296,133
Rural	36,855	3,194	406,013	35,681	836,613	142,945
Urban	183,184	7,868	1,896,340	161,096	966,288	153,188
Central India						
Total	111,029	7,803	1,475,441	176,775	1,955,615	297,479
Rural	44,668	5,066	565,509	68,438	1,209,363	173,348
Urban	66,361	2,737	909,932	108,337	746,252	124,131
North-West India						
Total	48,685	2,930	1,120,725	92,453	1,881,762	272,443
Rural	10,874	1,732	320,901	39,896	991,524	178,097
Urban	37,811	1,198	799,824	52,557	890,238	94,346
Andaman and Nicobar Islands .	48	2	7,415	135	2,019	308

DISTRIBUTION BY INDUSTRY

Industry	Total		Employers		Employees		Independent Workers	
	Males	Females	Males	Females	Males	Females	Males	Females
Stock Raising	560,627	70,178	14,755	1,813	131,208	10,743	414,664	57,622
Plantation Industries	657,047	403,971	7,576	1,107	580,225	382,605	69,246	20,259
Forestry and Woodcutting	213,809	38,043	5,587	357	83,015	5,748	125,207	31,938
Fishing	383,108	37,936	12,610	1,143	47,840	2,919	322,658	33,874
Mining and Quarrying	464,967	101,903	5,510	426	362,823	82,290	96,634	19,187
Coal-mining	248,337	63,043	1,122	114	243,286	61,383	3,929	1,566
Iron Ore mining	5,742	2,877	70	6	4,910	2,789	762	82
Metal mining except iron ore mining	49,705	7,247	678	23	37,157	4,440	11,870	2,784
Crude Petroleum and Natural Gas	2,252	200	118	13	1,862	50	272	137
Stone-quarrying, clay and sand pits	106,130	15,718	2,498	198	39,625	5,981	64,007	9,539
Mica	25,996	6,632	580	19	21,292	4,896	4,124	1,717
Salt, Saltpetre and Saline substances	18,859	2,742	307	26	9,870	883	8,682	1,833
Vegetable Oil and Dairy products	228,648	38,452	11,831	1,354	67,243	4,782	149,574	32,316
Sugar Industries	127,853	7,417	3,396	200	80,033	2,813	44,424	4,404
Beverages	158,601	6,257	6,312	351	44,451	1,267	107,838	4,639
Tobacco	287,804	67,898	11,868	1,610	126,760	23,154	149,176	43,134
Cotton Textiles	1,833,757	227,994	52,242	4,719	901,553	79,968	879,962	143,307
Wearing apparel and made-up textiles	597,446	51,225	29,052	1,592	116,666	6,003	451,728	43,630
Textile Industries otherwise unclassified	548,540	162,661	11,182	1,142	381,105	82,631	156,253	78,888
Leather, leather products and footwear	540,899	36,780	15,365	898	78,817	4,143	446,717	31,739
Processing and Manufacture—Metals, Chemicals and products thereof	1,184,582	52,466	38,276	1,398	669,317	24,028	476,989	27,039

Distribution by Industry—*Contd.*

Industry	Total		Employers		Employees		Independent Workers	
	Males	Females	Males	Females	Males	Females	Males	Females
Manufacture of metal products, otherwise unclassified	592,548	27,997	20,915	817	202,164	5,143	369,469	22,037
Iron and Steel (Basic Manufacture)	104,894	7,479	1,722	71	89,463	6,533	13,709	875
Non-Ferrous metals (Basic Manufacture)	10,628	246	238	7	6,090	76	4,300	163
Transport Equipment	212,554	3,720	6,230	108	168,120	2,717	38,204	895
Electrical machinery, apparatus	41,997	773	1,201	8	29,228	535	11,568	230
Machinery (other than electrical machinery)	122,677	2,291	3,009	84	101,174	1,816	18,494	391
Basic Industrial Chemicals, Fertiliser and Power Alcohol	20,367	1,111	688	31	14,172	695	5,507	385
Medical and Pharmaceutical preparations	14,158	715	393	17	11,819	481	1,946	217
Manufacturing Industries, otherwise unclassified	487,136	22,173	25,275	692	102,690	5,198	359,171	16,283
Products of Petroleum and Coal	11,053	745	238	13	8,809	247	2,006	485
Bricks, tiles and other structural clay products	154,764	29,391	4,186	392	74,449	14,207	76,129	14,792
Cement—Cement pipes and other cement products.	22,860	2,992	349	24	18,896	1,901	3,615	1,067
Non-metallic mineral products	385,170	59,991	10,693	1,429	49,465	5,258	325,022	53,304
Rubber products	18,733	508	730	23	14,885	306	3,118	179
Wood and wood products other than furniture and fixtures	938,695	102,504	25,581	1,765	181,788	9,878	731,326	90,951
Furniture and Fixtures	32,001	2,494	1,521	159	8,819	478	21,661	1,857
Paper and paper products	29,136	2,075	562	55	22,806	1,256	5,768	764
Printing and allied industries	123,759	2,877	7,928	199	93,553	1,614	22,278	1,064
Construction and Utilities	1,315,915	269,811	29,488	2,072	598,545	114,658	687,882	153,081
Construction and maintenance—Buildings	669,312	87,395	18,566	1,114	206,371	29,700	444,375	56,581
Construction and maintenance—Roads, Bridges and other Transport Works	127,699	21,105	4,634	240	84,652	9,579	38,413	11,286
Construction and maintenance—Telegraph and Telephone lines	7,013	558	114	2	6,273	316	626	240
Construction and maintenance operations—Irrigation and other agricultural works	95,832	18,167	1,348	88	60,122	10,457	34,362	7,622
Works and Services—Electric power and gas supply	70,526	1,479	910	10	62,772	1,243	6,844	226
Works and Services—Domestic and Industrial water supply	49,298	14,861	842	293	22,169	5,357	26,287	9,211
Sanitary Works and Services (including scavengers)	227,655	112,611	1,107	228	133,833	53,774	92,715	58,609
Commerce	5,339,343	561,975	472,943	30,732	1,086,598	48,288	3,779,802	482,955
Retail trade, otherwise unclassified	1,932,622	175,383	158,847	10,818	344,110	16,517	1,429,665	148,048
Retail trade in foodstuffs (including beverages and narcotics)	1,964,398	289,616	155,134	12,382	275,951	17,405	1,533,313	259,829
Retail trade in fuel (including petrol)	158,152	34,855	17,636	1,750	39,721	2,922	100,795	30,183
Retail trade in textile and leather goods	538,060	21,595	65,599	2,236	101,047	2,928	371,414	16,431
Wholesale trade in foodstuffs	152,883	11,776	20,944	822	38,720	1,387	93,219	9,567
Wholesale trade in commodities other than foodstuffs	287,486	11,030	32,910	846	132,831	3,498	121,745	6,686
Real Estate	16,698	3,438	2,117	438	7,289	290	7,292	2,710
Insurance	35,881	1,847	1,493	107	24,429	836	9,959	904
Money-lending, banking and other financial business	253,163	12,435	18,263	1,333	122,500	2,505	112,400	8,597
Transport, Storage and Communications	1,839,007	62,964	33,690	3,606	1,254,416	36,557	550,901	22,801
Transport and Communications (otherwise unclassified) and incidental services	37,814	2,986	766	68	18,161	1,378	18,887	1,540
Transport by Road	859,675	33,784	26,989	3,026	375,962	12,841	456,724	17,917
Transport by Water	211.419	5,349	5,501	377	155,947	2,959	49,971	2,013
Transport by Air	13,199	295	124	11	11,641	263	1,434	21
Railway Transport	558,260	14,459	211	96	536,104	13,200	21,945	1,163
Storage and Warehousing	8,687	938	90	28	6,994	771	1,603	139
Postal Services	112,942	2,047	9	..	112,655	2,043	278	4
Telegraph Services	20,205	416	..	..	20,178	415	27	1
Telephone Services	12,715	2,623	..	..	12,693	2,620	22	3
Wireless Services	4,091	67	..	..	4,081	67	10	..
Health, Education and Public Administration	3,017,844	272,483	20,100	2,608	2,798,285	234,129	199,459	35,746
Medical and other Health Services	305,236	79,625	14,071	1,383	150,450	50,283	140,715	27,959
Educational Services and Research	624,858	118,491	5,840	1,221	562,934	109,634	56,084	7,636
Police (other than Village Watchmen)	375,592	4,129	..	..	375,592	4,129	..	..
Village Officers and Servants, including Village Watchmen	231,747	5,433	189	4	228,898	5,278	2,660	151
Employees of Municipalities and Local Boards (not persons classifiable under any other division)	198,410	25,839	..	..	198,410	25,839	..	..
Employees of State Governments (not persons classifiable under any other division)	782,672	26,340	..	..	782,672	26,340	..	..
Employees of Union Government (not persons classifiable under any other division)	491,198	11,864	..	..	491,198	11,864	..	..
Employees of non-Indian Governments	8,131	762	..	..	8,131	762	..	..
Services not elsewhere specified	6,092,197	1,451,528	139,806	13,755	2,801,264	644,870	3,151,127	792,903
Services otherwise unclassified	2,946,132	786,483	25,467	5,941	1,217,745	271,563	1,702,920	508,979
Domestic Services	1,033,407	391,075	3,855	906	922,956	324,300	106,596	65,869
Barbers and beauty shops	480,196	30,401	14,596	607	61,086	3,607	404,514	26,187
Laundries and laundry services	439,003	125,506	15,570	2,087	59,633	14,367	363,800	109,052
Hotels, restaurants and eating houses	424,944	33,348	53,982	2,820	228,239	8,801	142,723	21,727
Recreation services	181,400	32,780	6,035	445	71,244	5,027	104,121	27,308
Legal and business services	221,361	8,959	12,009	185	136,112	5,596	73,240	3,178
Arts, letters and journalism	37,536	1,720	2,086	112	13,991	464	21,459	1,144
Religious, Charitable and Welfare Services	328,218	41,256	6,206	652	90,258	11,145	231,754	29,459

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LITERACY AND EDUCATIONAL STANDARD

The test of literacy is ability to read and write a simple letter in some language.

All India percentage of literacy : 16·6 ; West India zone : 23·8 ; South India : 22·8 ; East India : 16·8 ; North-West India : 13·3 ; Central India : 10·9 ; North India : 10·8.

In absolute numbers, out of 36 crores about 6 crores are literate. Out of 30 crores who are illiterate about 6 lakhs can read but not write. About 90 lakhs have reached the middle school standard, and 38 lakhs (women 5 lakhs) Higher Secondary School Standard.

The total no. of those who have reached the Intermediate standard in Arts and Science : 407,000 (men), 59,000 (women).

The total no. of the holders of degrees and diplomas : 991,000 (men), 183,000 (women).

The above figures (degree and diploma) are broken up as follows. The first figure relates to men, the second to women :

Graduates in Arts and Science : 284,000 ; 37,000. Post-graduates in Arts and Science : 58,000 ; 7,000. Teaching : 151,000 ; 38,000. Law : 64,000 ; 1,000. Health and Medicine : 64,000 ; 8,000. Engineering : 35,000 ; 1,000. Commerce : 31,000 ; 1,000. Agriculture and Veterinary : 12,000 ; 1,000.

All India percentage of male literacy 24·9, of female 7·9.

Percentage of literacy among agricultural classes : 12·1 (males 19·6, females 4·5). Among non-agricultural classes : 29·0 (males 39·7, females 17·0). In commerce in latter group : 37·9 (males 51·6, females 22·6). In Transport : 32·7 (males 41·7, females 21·7).

Percentage of literacy for those above the age of ten : urban : men 55, women 27 ; rural : men 24, women 6.

Analysed age-group-wise, the literacy figures for the ten per cent sample population are :—

Ages 0—4 : All 4,726,869 persons are illiterate.

Ages 5—9 : Total 4,426,768 ; literates 411,079.

Ages 10—14 : Total 4,233,507 ; literates 971,443.

Ages 15—24 : Total 6,065,277 ; literates 1,437,056.

Ages 25—34 : Total 5,445,111 ; literates 1,104,744.

Ages 35—44 : Total 4,152,522 ; literates 739,434.

Ages 45—54 : Total 2,959,170 ; literates 476,635.

Ages 55—64 : Total 1,766,878 ; literates 247,630.

Ages 65—74 : Total 783,033 ; literates 101,492.

Ages 75 and over : Total 337,957 ; literates 38,228.

Age not stated : Total 22,787 ; literates 1,724.

13. LITERACY AND EDUCATIONAL STANDARD BY STATE

The following figures for rural and urban areas for some States are based on a 10 per cent sample survey. The rest are absolute totals.

State.	Total.		Rural. †		Urban. †		Below Middle School Standard.	
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
Uttar Pradesh	5,753,580	1,071,492	392,746	46,072	176,672	60,548	4,853,058	969,028
Orissa	1,978,705	334,726	115,991	24,270	15,458	4,873	1,756,883	316,762
Assam	1,303,087	330,666	108,858	26,034	12,261	5,531	1,072,871	292,716
Manipur	58,032	6,069	5,489	686	—	—	49,316	6,162
Tripura	74,975	24,222	5,463	802	408	395	55,195	19,698
Sikkim	9,247	866	746	44	78	33	8,790	764
Punjab*	1,490,713	547,986	79,568	22,298	34,105	14,834	1,009,556	425,484
Himachal Pradesh & Bilaspur	72,972	12,537	3,013	630	705	466	59,087	11,159
PEPSU*	335,240	83,557	11,351	1,982	9,962	4,452	262,540	74,817
Delhi	424,118	244,955	3,994	1,246	21,430	11,026	217,096	178,194
Andamans & Nicobars ..	6,513	14,67	342	61	293	63	6,064	1,423
India	45,610,431	13,650,683	2,828,361	693,803	1,410,481	596,830	38,125,096	12,093,762

* The figures for the present Punjab could be obtained where appropriate by adding the figures for the old Punjab and PEPSU.

† Figures from a 10 per cent sample survey.

LITERACY AND EDUCATIONAL STANDARD BY STATE—*Continued.*

State.	Middle School.		Matriculate & Equivalent.		Intermediate in Arts or Science.		Degree or Diploma holders.	
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
Uttar Pradesh	434,781	42,879	218,690	21,669	54,128	6,129	102,923	24,787
Orissa	162,601	14,007	33,297	2,082	7,756	514	18,168	1,361
Punjab*	222,335	56,469	123,620	19,292	26,013	4,300	109,189	42,441
Himachal Pradesh & Bilaspur	7,714	773	4,179	183	419	36	1,573	386
PEPSU*	30,342	4,076	19,723	2,431	4,706	443	8,929	1,790
Delhi	73,708	37,397	79,203	16,447	19,657	4,943	34,454	7,974
Andamans & Nicobars ..	27	1	301	23	40	8	81	7
India	4,220,135	1,022,388	1,864,708	292,060	407,098	59,379	993,304	183,094

* The figures for the new Punjab could be obtained by adding where appropriate the figures for the old Punjab and PEPSU.

LANGUAGES

We give below some facts and figures relating to language :

Total number of speakers of languages specified in the constitution : 323,972,607 ; Number speaking Hindi, Urdu, Hindustani, Punjabi : 149,944,311 ; Telugu : 32,999,916 ; Marathi : 27,049,522 ; Tamil : 26,546,764 ; Bengali : 25,121,674 ; Gujarati : 16,310,771 ; Kannada : 14,471,764 ; Malayalam : 13,380,109 ; Oriya : 13,153,909 ; Assamese : 4,088,226 ; Kashmiri : 5,086 ; Sanskrit : 555.

The percentage to total is as follows :

Hindi, Urdu, Hindustani : 46·3 ; Telugu : 10.2 ; Marathi : 8 3 ; Tamil : 8 2 ; Bengali : 7.8 ; Gujarati : 5·1 ; Kannada : 4·5 ; Malayalam : 4·1 ; Oriya : 4·0 ; Assamese : 1 1.

Tribal languages (with speakers numbering one lakh and over for each language) : 11,531,848 ; Other Indian languages (with speakers numbering one lakh and over) : 17,698,041 ; Other Indian languages (with speakers numbering less than a lakh) : 2,860,974 ; Non-Indian languages : 226,251 ; Unclassified population : 589,673.

Number of Hindi speakers in North India : 50,454,217 ; East India : 34,036,450 ; South India : 149,287 ; West India : 492,906 ; Central India : 20,506,477.

Number of Urdu speakers in North India : 4,300,425 ; East India : 3,360,352 ; South India : 860,858 ; West India : 1,977,607 ; Central India : 2,904,632.

Number of Hindustani speakers in North India : 6,742,937 ; South India : 1,345,662 ; West India : 8,096 ; Central India : 59,039.

Number of Punjabi speakers in North India : 323,456 ; East India : 90,443 ; South India : 8,639 ; West India : 68,978 ; Central India : 78,354.

Hindi, Urdu, Hindustani, Punjabi in North-West India : 22,159,456.

Andaman and Nicobars : Hindi : 975 ; Urdu : 862 ; Hindustani : 4,139 ; Punjabi : 224.

U.P. : Hindi, Urdu, Hindustani : 99 per cent ; Punjabi : 324,000.

Bihar* : Hindi (as including Bihari, Urdu) : 34·8 millions ; Bengali : 17·6 lakhs ; Oriya : 3·1 lakhs, Santhal Parganas Dt. (Hindi 48 per cent, Santhali 42 per cent) ; Dhanbad Dt. (Hindi 65 per cent, Bengali 25 per cent) ; Singhbhum Dt. (Ho 28 per cent, Oriya 20, Bengali 18, Hindi 14, Santhali 10) ; Manbhum Dt., (Purulia Dt.) (Bengali 52 per cent, Hindi 32, Santhali 14) ; Purnea Dt. (Hindi 92 per cent).

Orissa : Oriya : 12,065,272 ; Tribal : 1,837,732 ; Ganjam Dt. (Oriya 72 per cent ; Telugu 15) ; Phulbani (Oriya 54 per cent ; Kui 37) ; Mayurbhanj (Oriya 53 per cent ; Santhali 24 ; Ho 11) ; Koraput Dt. (Oriya 55 per cent, Kondh 13, Paraja 12) ; Keonjhar Dt. (Oriya 71 per cent) ; Sundergarh (Oriya 72 per cent).

W. Bengal* : Bengali : 20,994,374 ; Hindi . 1,574,786 ; Midnapur Dt. (Bengali 90 per cent) ; Malda Dt. (Bengali 88 per cent) ; West Dinajpur Dt. (Bengali 78 per cent) ; Jalpaiguri Dt. (Bengali 57 per cent, Hindi 14 per cent) ; Darjeeling Dt. (Nepali 20 per cent, Rai 15, Bengali 14, Tamang 11).

Assam : Assamese : 4,972,493 ; Bengali : 1,447,075 ; Goalpara Dt. (Assamese 62 per cent, Bengali 17).

Tripura : Bengali : 273,441 ; Tripuri : 129,379.

Madras* : Hindi : 100,269 ; Bellary Dt. (Kanna la 55 per cent ; Telugu 30) ; Coimbatore (Tamil 66 per cent ; Telugu 20 ; Kanna la 11) ; Ma iras (Tamil 68 per cent ; Telugu 16) ; Nilgiris Dt. (Tamil 38 per cent ; Ba laga 21 ; Ma'ayalam 13 ; Kannada 13) ; South Kanara Dt. (Tulu 40 per cent ; Malayalam 24 ; Kannada 17 ; Konkani 14) ; Srikakulam Dt. (Telugu 89 per cent).

Travancore-Cochin*†† : Malayalam : 86 per cent ; Tamil : 12.

Trivandrum Dt. (Malayalam : 61 per cent ; Tamil : 39).

Bombay* : See under Bombay State.

M.P.* : Number of speakers per 1,000 of the population : Hindi 590, Marathi 293, Gondi 59, Oriya 18. Nagpur Dt. (Marathi 75 per cent, Hindi 12), Betul Dt. (Hindi 43 per cent, Gondi 27, Marathi 19), Nimar Dt. (Hindi 34 per cent, Nimadi 21, Marathi 15, Korku 11), Bastar Dt. (Halbi 29 per cent, Gondi 27, Maria 12, Chhattisgarhi 10) ; Raipur Dt. (Hindi 57 per cent, Chhattisgarhi 26, Oriya 13). Bilaspur Dt. (Hindi 98 per cent).

Hyderabad†† : Telugu : 8,921,524 (47·8 per cent), Marathi : 4,541,982 (24·3 per cent), Urdu : 2,159,214 (11·6 per cent), Kannada : 1,961,901 (10·5 per cent), Hindi : 133,733 (0·7 per cent) ; Nanded Dt. (Marathi 65 per cent, Urdu 11) ; Bidar Dt. (Marathi 39 per cent, Kannada 28, Urdu 16, Telugu 15) ; Hyderabad (Telugu 53 per cent, Urdu 35) ; Gulburga Dt. (Kannada 55 per cent, Telugu 21, Urdu 16) ; Adilabad Dt. (Telugu 56 per cent, Marathi 21, Gondi 10) ; Raichur Dt. (Kannada 63 per cent, Urdu 10, Telugu 24).

Mysore* : Kannada : 5,990,297 ; Telugu : 1,375,732 ; Tamil : 651,260. Bangalore Corporation (Kannada : 184,977 ; Telugu : 138,611 ; Tamil : 246,881) ; Bangalore (Kannada : 864,442 ; Telugu : 239,708 ; Tamil : 107,224) ; K. G. F. City (Kannada : 8,538 ; Telugu : 31,514 ; Tamil : 97,304) ; Kolar (Kannada : 230,066 ; Telugu : 579,460 ; Tamil : 54,157).

* Shows the position before the State was reorganized in Nov. 1956.

†† The State has ceased to exist as from 1st Nov. 1956.

14. AGE GROUPS

Age Groups	Total		Unmarried		Married		Widowed or divorced	
	Males	Females	Males	Females	Males	Females	Males	Females
0 ..	5,820,763	5,668,197	....	....	....	....	....	....
1— 4 ..	17,939,286	17,907,518	....	....	....	....	....	....
5—14 ..	44,702,897	41,988,861	41,804,306	35,736,625	2,832,553	6,118,408	66,038	133,828
15—24 ..	30,671,972	30,052,335	16,627,537	5,184,447	13,659,997	24,041,306	384,438	826,582
25—34 ..	27,874,703	26,632,987	3,700,903	772,578	23,121,613	23,730,973	1,052,187	2,129,436
35—44 ..	22,031,938	19,528,364	1,149,578	303,586	19,323,284	15,345,469	1,559,076	3,879,309
45—54 ..	15,718,686	13,898,327	604,012	173,048	13,076,712	8,313,457	2,037,962	5,411,822
55—64 ..	9,064,548	8,624,304	298,623	88,943	6,776,934	3,334,253	1,988,991	5,201,108
65—74 ..	3,867,562	3,975,667	104,353	37,125	2,533,458	1,092,051	1,229,751	2,846,491
75 and over ..	1,629,982	1,756,145	46,438	18,468	882,924	370,440	700,620	1,367,237
Age not stated ..	111,503	116,979	51,497	60,138	45,611	41,640	14,395	15,201

The percentage of different age-groups in the villages and the towns is as follows :

	Total for country	Villages	Towns
Infants and young people	13·3	13·7	12·9
Boys and girls	24·2	25·1	23·2
Young men and women	34.3	32·3	36·5
Middle-aged men and women	19·7	20·4	20·1
Elderly persons	8·5	8·5	7·3

The following table shows age-groups for some States in a sample of 10,000 persons:

State	Infants	Young Children 1 to 4	Girls & Boys 5 to 14	Young men and women 15 to 34	Middle aged persons 35 to 54	Elderly persons 55 and over
India	329	1,026	2,482	3,298	2,038	828
Zones:—I—North India	332	1,013	2,505	3,218	2,090	840
II—East India	373	1,000	2,424	3,288	2,036	880
III—South India	263	986	2,445	3,364	2,096	847
IV—West India	325	1,055	2,573	3,410	1,925	712
V—Central India	300	1,041	2,534	3,285	2,066	773
VI—North-West India	408	1,156	2,481	3,207	1,896	851
Uttar Pradesh	332	1,013	2,505	3,218	2,090	840
Orissa	279	985	2,440	3,230	2,180	876
Assam	344	1,312	2,643	3,301	1,810	580
Manipur	275	1,196	2,557	3,187	1,900	877
Tripura	306	1,254	2,614	3,311	1,904	578
Sikkim	138	1,151	2,693	3,336	1,862	820
Punjab*	446	1,301	2,472	3,133	1,783	857
Himachal Pradesh & Bilaspur	364	1,011	2,054	3,280	2,112	1,171
PEPSU*	399	1,164	2,159	3,090	1,868	1,005
Delhi	700	1,195	2,236	3,415	1,770	683

* The figures for the new Punjab could be obtained by adding where appropriate the figures for the old Punjab and PEPSU.

SEX RATIO

In India as a whole the total number of males is 183 millions, and of females 174 millions.

The sex ratio has varied as follows: 1921—950; 1931—951; 1941—946; 1951—947.

It may be mentioned here that in the world as a whole the sex ratio is probably 992.

The sex ratio in percentage of males to females is 51·4 per cent practically no change from 1941.

In the country as a whole the sex ratio as mentioned above is female to male 947 to 1,000. The lowest is 883 in the north-west, the highest is 999 in south India where practical equality of the sexes exists.

In general the sex ratio is smaller in towns than in villages. For the country as a whole the sex ratio in villages is 966, while that in towns is 860.

The sex ratio in villages is lowest in north-west India (895). In the villages of south India females outnumber males (1,004).

The urban sex ratio is lowest in east India (719). It is highest in south India (977).

The difference between the rural sex ratio and the urban sex ratio is very large in east India (258). It is smallest in south India (27).

In the country as a whole there are 235 lakhs of people living in cities. Of these 132 lakhs are males and 103 are females.

The sex ratio for all cities is 787. It is lowest for east India (641) and highest for the south (940).

The sex ratio for the ten largest cities (town groups) is as follows:

Greater Calcutta, 602; Greater Bombay, 596; Madras, 921; Delhi, 750; Hyderabad, 989; Ahmedabad, 764; Bangalore, 883; Kanpur, 699; Poona, 833; Lucknow, 783.

Males and females are not born in equal numbers. They do not die in equal numbers. Hence the difference in the numbers of males and females.

15. MARITAL STATUS*

	Total			Unmarried		Married		Widowed or divorced	
	Persons	Males	Females	Males	Females	Males	Females	Males	Females
Total	349,583,524	170,433,840	170,149,684	88,147,296	65,950,673	82,253,086	82,387,997	9,033,458	21,811,014
Rural	291,620,960	148,245,841	143,375,119	72,400,699	54,823,396	68,173,714	70,185,963	7,671,428	18,365,760
Urban	57,962,564	31,187,999	26,774,565	15,746,597	11,127,277	14,079,372	12,202,034	1,362,030	3,445,254

* Excluding displaced persons.

The following table shows the marital status from a sample of 1,000 persons of each sex for some States:

States.	Males.			Females.		
	Unmarried.	Married.	Widowed.	Unmarried.	Married.	Widowed.
India	491	459	50	388	484	128
Zones:—						
I—North India	463	466	71	359	521	120
II—East India	463	493	44	378	501	121
III—South India	543	415	42	421	434	145
IV—West India	526	432	42	409	460	131
V—Central India	465	486	49	356	503	141
VI—North-West India	501	438	61	414	488	98
Uttar Pradesh	463	466	71	359	521	120
Orissa	471	490	39	386	483	131
Assam	570	387	43	485	411	104
Manipur	563	401	36	487	375	138
Tripura	580	384	36	425	458	117
Sikkim	530	428	42	523	410	67
Punjab*	543	394	63	460	452	88
Himachal Pradesh and Bilaspur	431	488	81	391	509	100
PEPSU*	529	405	66	450	475	75
Delhi	532	421	47	482	448	70

* The figures for the new Punjab could be obtained by adding where appropriate the figures for the old Punjab and PEPSU.

16. MATERNITY PATTERN

The following table shows the age distribution of 1,000 married persons of each sex for some States :

State.	Males.				Females.			
	0—14	15—34	35—54	55 and over	0—14	15—34	35—54	55 and over
India	34	447	394	125	74	580	287	59
Zones :—								
I—North India	62	470	362	106	101	557	288	54
II—East India	43	447	378	132	83	554	284	79
III—South India	5	383	459	153	26	604	314	56
IV—West India	14	472	405	109	60	630	274	36
V—Central India	39	466	386	109	106	582	268	44
VI—North-West India ..	30	475	368	127	65	582	285	68
Uttar Pradesh	62	470	362	106	101	557	288	54
Orissa	28	424	412	136	57	552	317	74
Assam	7	421	451	121	30	673	259	38
Manipur	1	429	414	156	4	530	355	111
Tripura	3	460	418	119	64	657	246	33
Sikkim	3	476	387	134	40	477	360	123
Punjab*	18	474	367	141	44	600	287	69
Himachal Pradesh and Bilaspur..	9	467	370	154	20	544	320	116
PEPSU*	13	470	374	143	32	541	319	108
Delhi	17	496	369	118	25	623	299	53

* The State has either ceased to exist or has been drastically reorganized as from 1st Nov. 1956.

Out of every 10,000 persons in India 5,133 are males and 4,867 are females.

Among them 2,521 males (49·1 per cent) and 1,886 females (38·8 per cent) are unmarried. Together the unmarried people are about 44·1 per cent of the population.

To put it the other way round, among men 45·8 per cent are married and 5·0 per cent are widowers, and among women 48·4 per cent are married and 12·8 per cent widows.

The number of divorced persons in India is 144,786 or 0·4 per cent.

The proportion of unmarried persons is highest in south India (48·2 per cent) and lowest in central India (41·1 per cent).

The 1951 census counted 2,833,000 married males and 6,118,000 married females, 66,000 widowers, 134,000 widows all between the ages of 5 and 14.

The approximate number of marriages contracted in contravention of the law would be 91,50,000.

But there is evidence that the child marriage rate is diminishing. The percentage of married females under 15 of all married females was 9·6. This dropped to 7·4 in 1951.

The percentage of unmarried women above 15 is 6·4.

Facts concerning marital status in villages and towns separately are as follows :

In the villages, out of 10,000 persons 2,338 are married males and 2,407 are married females.

In the towns the corresponding figures are 2,429 and 2,105.

There is a fall in the proportion of widowers and also of widows. The former fell from 5·6 per cent in 1931 to 5·0 per cent in 1951. The latter fell from 16·1 per cent in 1931 to 12·8 per cent in 1951.

For maternity only married women in the age-group 15 to 44 are to be taken into account.

We have to base our findings on investigations carried out in Travancore-Cochin State during the 1951 census.

On an average a mother in the former Travancore-Cochin area (mostly part of Kerala now) where this particular investigation was conducted —a mother who lives to complete her child-bearing period gives birth to more than 6 children but not more than 7.

Out of this the number actually alive on census day was 4·6. Among the children born alive 2 had died predeceasing their mother.

Thus in the Travancore-Cochin area the child birth index is 6·6, child survival index 4·6, child loss index 2·0.

Age group	Child birth index	Child survival index	Child loss index
Under 20 ..	1·2	1·0	0·2
20—24 ..	1·8	1·4	0·4
25—29 ..	2·9	2·3	0·6
30—34 ..	4·2	3·2	1·0
35—39 ..	5·3	4·0	1·3
40—44 ..	6·2	4·6	1·6
45 and over ..	6·6	4·6	2·0
Average ..	4·3	3·2	1·1

The child birth indices of mothers divided into groups were as follows :

Agricultural landholders' and tenants' families	4·5
Agricultural labourers' families ..	4·1
Non-agricultural families	4·2
Rural	4·3
Urban	4·2

Mothers can be divided into two groups : those who commenced child-bearing during the ages 15 to 19 (Maternity Type A), and those who commenced child-bearing during the ages 20 to 24 (Type B).

Their child birth indices are as follows :

	Type A	Type B
Under 20	1·2	—
20—24	2·0	1·3
25—29	3·6	2·3
30—34	4·8	3·7
35—39	6·0	4·9
40—44	6·8	5·8
Over 45	7·3	6·4

Investigations of a different sort have given the following results :

The total number of births which occur in the course of one year among about 1,000 persons is 40. Among these 40 births, 8 births are first births, 16 births are either first births or second births; 23 births are either first, second or third births; and 17 out of 40 are either fourth births or births of a higher order

The following table shows the child-birth indices for different age-groups of mothers and child survival and loss indices by State (pre-reorganization) from a sample census :

State (Pre-reorganization)	Age Group of Mothers					Average for all ages	All ages	
	Incomplete Maternity experience				Complete maternity experience 45 and over		Survival index	Loss index
	Under 15	15-24	25-34	35-44				
Uttar Pradesh	..	1·8	3·8	5·4	6·1	3·4	2·6	0·8
Bihar†	1·3*	1·9	3·5	5·2	5·8	3·2	2·5	0·7
Assam	1·0*	2·1	4·1	5·3	6·6	3·2	2·9	0·3
Manipur	..	2·2	3·4	4·4	4·7*	3·0	2·9	0·1
Tripura	1·0*	2·1	4·6	6·1	..	3·3	2·9	0·4
Madras†	1·0*	2·0	3·8	5·7	6·0	3·3	2·8	0·5
Travancore-Cochin (1952)† ..	2·0*	1·8	4·1	6·3	10·5*	3·5	2·9	0·6
Travancore-Cochin (1951) 10 per cent sample†	1·4	1·7	3·5	5·7	6·6	4·3	3·2	1·1
Coorg†	..	2·0	3·8	..	..	3·4	3·1	0·3
Bombay†	1·0*	2·0	4·1	6·2	7·7	3·6	2 9	0·7
Saurashtra†	1·0*	2·0	4·2	6·4	7·0*	3·7	3·2	0·5
Kutch†	..	2·1	4·1	6·0	8·3*	3·7	2·9	0·8
Madhya Pradesh (1952)† ..	1·0*	2·0	4·4	6·5	7·7	3·6	2·6	1·0
Madhya Pradesh (1951)† ..	1·2	1·9	3·8	5·6	6·3	4·2	2·6	1·6
Madhya Bharat (1952)†	1·3*	2·3	4·2	6·1	5·7	3 6	2·7	0·9
Madhya Bharat (1953)†	1·0	2·2	4·3	5·7	6·5	3·5	2·7	0·8
Vindhya Pradesh†	..	..	..	..	..	3 0	2·4	0·6
Rajasthan†	1·0*	1·9	3·5	5·8	6·0*	3·2	2·6	0·6
Punjab†	..	2·5	4·1	6·4	6·0*	3·7	2·9	0·5
PEPSU†	..	2·4	4·9	6·1	8·5*	4·0	3·4	0·6
Bilaspur	..	1·9	3·9*	6·5*	..	3 1	3·0	0·1
Himachal Pradesh	..	1·7	4·7	6·7*	6·0*	3·1	2·6	0·5
Ajmer†	..	1·6	4·9	5·5	.	3·8	2·9	0·9

* Number of mothers less than 10.

† The State has either ceased to exist or has been drastically reorganized as from 1st Nov. 1956. Himachal Pradesh and Bilaspur were merged on 1st July, 1954.

VITAL STATISTICS

The following table shows the number of births and deaths registered in each of the three decades. The figures in the first two columns are in lakhs. The figures in the last two columns give the mean decennial registered rates.

Year	Registered births	Registered deaths	Birth-rate	Death-rate
1921-30	669	502	33·7	25·3
1931-40	753	512	33·8	23·0
1941-50	680	486	27·2	19·4

Many births and deaths go unregistered. Making allowance for this it is calculated that the birth-rate should be around 40, and the death-rate around 27.

This would give a natural increase rate of 13 per thousand per annum during the last decade.

On the same basis the birth-rates for the various zones will be as follows :

Central India (44) ; west India (42) ; north-west India (41 or 42) ; north India (38 or 39) ; east India (38 or 39) : south India (36 or 37).

The death-rates would be as follows :

Central India (34) ; north India (27 or 28) ; east India (26, 27 or 28) ; west India (26) ; north-west India (24, 25 or 26) ; south India (21 or 22).

The following table shows the birth, death, and infant mortality rates for the sub-continent from 1921 to 1946 and for India alone from 1947 onwards where available.

Year	Birth-rate	Death-rate	Infant mortality
1921 ..	32	31	198
1922 ..	32	24	175
1923 ..	34	25	176
1924 ..	33	28	189
1925 ..	32	24	174
1926 ..	33	25	189
1927 ..	33	23	167
1928 ..	34	24	173
1929 ..	32	24	178
1930 ..	33	25	189
1931 ..	35	25	179
1932 ..	34	22	169
1933 ..	36	23	171
1934 ..	34	25	187
1935 ..	35	24	164
1936 ..	36	23	162
1937 ..	35	22	162
1938 ..	34	24	167
1939 ..	34	24	156
1940 ..	33	22	160
1941 ..	32·1	21·9	158
1942 ..	29·5	21·4	163
1943 ..	26·1	23·9	165
1944 ..	25·8	24·5	169
1945 ..	28·0	22·1	151
1946 ..	28·9	18·7	136
1947 ..	26·6	19·7	146
1948 ..	25·4	17·1	130
1949 ..	26·7	15 8	123
1950 ..	24·8	16	127
1952 ..	30	N. A.	N A.
1953 ..	24·8	14·4	118
1954* ..	25·4	12·9	113
1955† ..	27·3	11·6	100

N. A. = Not available.

* For the pre-reorganization Part A States and Coorg and Delhi.

† Excluding Bihar, M.P., Orissa.

The expectation of life for males is 32·45 and for females 31·66. In the decade 1931-40 the respective figures were 26·91 for males and 26·56 for females.

The percentage of Indian males surviving to the age 20 is now 58 as against 45 at the beginning of this century. The same idea may be expressed differently by saying that 50 per cent of Indian males survive to age 32 as against 14 previously.

The figures given below show the expectation of life at various ages as revealed by the 1951 census for the decade 1941-50 :

For males : Age 0—32·45 ; 5—40·86 ; 10—38·97 ; 15—36·24 ; 20—33·03 ; 25—29·78 ; 30—26·58 ; 35—23·50 ; 40—20·53 ; 45—17·63 ; 50—14·89 ; 55—12·39 ; 60—10·13 ; 65—8·18 ; 70—6·51 ; 75—5·13 ; 80—3·99 ; 85—3·06 ; 90—2·30 ; 95—1·52.

For females : Age 0—31·66 ; 5—40·91 ; 10—39·45 ; 15—36·56 ; 20—32·90 ; 25—29·30, 30—26·18 ; 35—23·52 ; 40—21·06 ; 45—18·61 ; 50—16·15 ; 55—13·69 ; 60—11·33 ; 65—9·29 ; 70—7·53 ; 75—6·03 ; 80—4·77 ; 85—3·69 ; 90—2·72 ; 95—1·59.

The figures for births and deaths are based on a sample census carried out in 20 States**. In 10 of the States** the scheme covered all the Districts, while in the remaining it covered about one-fifth of the Districts. The exceptions were Rajasthan** and PEPSU** where only one District was covered. In Uttar Pradesh the scheme covered only the rural areas. Elsewhere both urban and rural areas came under survey.

The size of the sample also differs from State to State.

The number of unregistered births per 100 registered births were also recorded to estimate the true birth-rate by correcting the registered birth-rate in some States. The published registration figures in most States suffered from serious errors and could not form the basis of any scientific estimation.

The birth-rates as calculated from the same surveys are in a majority of States between 30 and 40 but are less with two exceptions than those estimated by the Actuary of 1951 for the decade 1941-50. The trend of fall in the birth-rate may be real or it may be affected by under-enumeration of births.

The average maternal age for all orders is between 27 and 28 in a large majority of the States. The average maternal age is higher in Japan and England and lower in the U.S.A., where maternity starts almost as early as in India.

The average age for first order births is between 21 and 22 ; the average for second order is between 23 and 25.

** Pre-reorganisation.

The Indian child birth index may be placed at between 6 and 7. The size of the sample was very small in every case and is not altogether dependable.

Child survival and loss indices indicate a very high loss of human resources. For mothers of completed fertility the child loss varies in a majority of States between 20 per cent and 33 per cent.

The proportion of births is almost equally balanced for the age-groups 15-24, 25-34 in the larger States where it is higher for the age-group 15-24.

A better study would have been possible if we had had quinquennial age-groups as in U.P. instead of decennial age-groups.

The proportion of first order births is the highest in all the States in the age-group 15-24, about 80 per cent of the first births occurring during this period. The different order births also occur earlier in India than elsewhere. The family here grows earlier and faster.

In a majority of the States in India between 40 and 50 per cent of the births are of the first and second order. In the remaining States they are between 30 and 40 per cent. Taking the total of the births of the first three orders the percentage works out to between 60 and 70 in half the States and 50 and 60 in the remaining half. The proportion of the first three orders do not show much difference from one another. The decline starts after the third birth and even then it is not as steep as it is in U.S.A. or England. A considerable proportion of births in India is recorded under the fourth and higher orders.

The Census Commissioner has a theory about improvident maternity. All births after the third will lead to an unwanted increase in the size of the family in an under-developed country like India. The proportion of births of 4th and higher order is therefore the incidence of Improvident Maternity. This incidence was 40 to 50 in half the States and 30 to 40 in the remaining States.

In India the first and second births occupy a relatively unimportant place in the later age-groups after 34. Births of higher order assume prominence with increase in maternal age.

About births, per 1,000 females (all women, married as well as others) in the same age-group a majority of the States show fertility for all ages between 100 and 125 or 125 and over. Had it not been for a certain amount of under-enumeration the figures of fertility would have been still higher.

Fertility was the highest in the age-group 25-34 in nearly all the States. In U.P. where quinquennial age-groups were used fertility is low in the age-group 15-19 but rises sharply in the next age-group 20-24 and further rises slightly in the age-group 25-29, then a decline starts. In the age-group 30-34 the decline is gradual and continues to be gradual upto 39 after which it is steep. In the age-groups 40-44 and 45-49 it is preponderately high in comparison with figures for England, U.S.A. or Japan showing the high proportion of births in these ages.

These trends are common to all the States in India.

Rural fertility was higher than urban fertility except in two States.

The total birth-rates for all orders is above 100 in a majority of the States in India. In Japan it is 76, in U.S.A. 80, in England 50.

The fertility of married women for ages 15 to 44 was for major States between 150 and 200 or 200 and over. This indicates the figure for India as about 200. Fertility fell abruptly in the group 35-44. It was at its peak in the age-group 25 to 29.

In a majority of the States the death-rate as calculated for the sample census was between 10 and 20. This was much below the rate calculated by the 1951 census Actuary. It is possible there was an under-enumeration of deaths in the sample census.

The proportion of deaths at younger age was high. In 10 States the specific death-rate for age under one was well over 60; in 12 States for the age-group 1 to 4 over 25; in 12 States for the age-group 5 to 9 over 6.

About 50 per cent of the deaths occurred among children under 10 years. The rates for the other age-groups in a majority of the States were as follows:

Age-group 10 to 14 it is over 3; 15-19 over 3; 20-24 over 5; 25-29 over 6; 30-34 over 7; 35-39 over 8; 40-44 over 10; 45-49 over 13; 50-54 over 15; 55-49 over 20; 60-64 over 40; 65-69 over 45; 70-74 over 65.

The mortality rates were higher for females than for males in the reproductive ages 15-44.

The rate for infant mortality (number of deaths under one per 1,000 live births per year) was over 50 for a majority of the States. If it was not for under enumeration the rate would be higher still. The rate for the period 1941-50 as estimated by the 1951 census Actuary was between 160 and 250 for males and 145 and 225 for females.

The following table shows birth-rates and death-rates and other particulars by State (pre-reorganization):—

State (Pre-reorganization)	Birth-rate registered		No. of unregistered births per 100 registered as verified at the sample census	Birth-rate (registered) corrected for omissions	Birth-rate (Census Actuary), 1941-50	Death-rate registered		No. of unregistered deaths per 100 registered as verified at the sample census	Death-rate (registered) corrected for omissions	Death-rate (Census Actuary), 1941-50
	Year	Rate				Year	Rate			
Uttar Pradesh (rural) ..	1953	15·3	41·9	21·7	38·6	1953	10·1	40·5	14·2	27·2
Bihar*	1952	18·8	508·2	114·3	39·0	1952	10·0	614·2	71·4	26·6
Assam	1952	14·9	64·2	24·5	46·7[1]	1952	7·2	52·9	11·0	31·8[1]
Manipur	..	..	..	..	46·7[2]	..	..	..	..	31·8[2]
Tripura	..	..	..	..	..	..	..	..	..	N.A.
Madras*	1951-52	30·4	11·1	33·8	35·7 (34·0)	1951-52	15·9	15·7	18·4	22·8 (19·1)
Travancore-Cochin* ..	1952	24·2	342·7	107·1	37·4 (35·4)	1952	6·2	374·2	29·4	18·0 (13·7)
Coorg*	..	..	18·2	..	38·7	..	..	..	..	18·6
Bombay*	1952	33·3	17·7	39·2	41·0 (38·9)	1952	16·8	16·4	19·6	24·9 (21·3)
Saurashtra*	..	..	88·9	..	42·2[3] (39·1)	..	..	101·4	..	24·9[3] (18·5)
Kutch*	..	..	55·5	..	42·2[4] (39·1)	..	..	47·2	..	24·9[4] (18·5)
Madhya Pradesh*	1952	33·5	10·3	37·0	46·1	1952	24·8	14·2	28·3	38·5
Madhya Bharat* .	1952	10·4	225·9	33·9	44·2[5]	1952	6·5	194·0	10·1	35·8[5]
Madhya Bharat (1953)* ..	..	..	143·1	..	44·2[5]	..	..	153·0	..	35·8[5]
Vindhya Pradesh* ..	..	..	214·4	..	44·2[6]	..	..	232·0	..	35·8[6]
Rajasthan*	..	..	272·6	..	42·5	..	..	222·0	..	27·2
Punjab*	1952	41·5	14·5	47·5	41·2 (36·6)	1952	17·3	24·4	21·5	26·3 (18·3)
PEPSU*	..	..	64·6	..	41·5[7]	..	..	73·3	..	31·3[7]
Bilaspur	1952	34·9	..	34·9	41·5[8]	1952	17·4	..	17·4	31·3[8]
Himachal Pradesh	1952	19·3	26·5	24·4	41·5[9]	1952	9·8	31·3	12·9	31·3[9]
Ajmer*	1952	21·8	45·1	31·6	45·0	1952	17·3	33·3	23·1	38·0

[1]Including Manipur.
[2]Including Assam.
[3]Including Kutch.
[4]Including Saurashtra.
[5]Including Vindhya Pradesh and Bhopal.
[6]Including Madhya Bharat and Bhopal.
[7]Including Himachal Pradesh and Bilaspur.
[8]Including Himachal Pradesh and PEPSU.
[9]Including Bilaspur and PEPSU.

Note: The birth-rates, death-rates, infant mortality rates for other States are as follows for 1950: Orissa: 25·0, 21·0, 188·8; West Bengal: 21·9, 13·0, 109·5; Coorg: 15·7, 7·5, 59·6; Delhi: 3·1, 9·0, 84·0.

* The State has either ceased to exist or has been drastically reorganized as from 1st Nov. 1956.

Himachal Pradesh and Bilaspur were merged on 1st July 1954.

The following two tables show the death-rate specifics and infant mortality for different age-groups by State (pre-reorganization) on a sample basis :—

State (Pre-reorganization)	All ages	Under year	1–4	5–9	10–14	15–19	20–24	25–29	30–34	35–39
Uttar Pradesh	..	..	..	..	..	..	..	..	..	..
Bihar*	15·3	100·5	28·6	8·6	5·1	2·5	4·9	4·3	7·3	5·4
Assam	17·8	10·8	24·9	10·3	7·2	8·8	11·3	10·3	11·9	16·9
Manipur	20·4	19·5	36·5	13·9	13·4	6·8	10·1	8·2	18·2	11·9
Tripura	21·5	..	34·4	15·2	7·4	9·8	7·0	20 3	20 5	19·2
Madras*	11·6	39·0	22·1	6·9	2·6	4·0	4·9	5·1	7·1	6·6
Travancore-Cochin*	11·9	63·0	24·2	3·5	1·5	2·9	4·2	2·3	3·0	10·1
Coorg*	3·2	..	..	..	..	..	..	20·0	..	..
Bombay*	13·2	85·0	25·5	4·2	1·6	4·4	6·0	4·7	5·5	5·5
Saurashtra*	14·3	108·7	39·2	6·8	2·7	3·7	3·7	4·5	2·3	6·0
Kutch*	19·4	103·9	57·3	12·5	6·5	2·3	8·5	6·2	4·8	17·0
Madhya Pradesh*	21·9	111·3	46·9	1·9	4·0	8·0	10·9	8·6	9·6	10·6
Madhya Bharat (1952)* ..	18·8	91·0	47·8	11·8	3·1	6 0	7 4	9·1	8·5	8·3
Madhya Bharat (1953)* ..	15·5	62·8	48·9	9·8	3·7	4·2	4·6	6 0	5 8	5·2
Vindhya Pradesh*	18·1	60·8	28·7	14·6	6·5	6·7	7·2	8·9	10·0	12·6
Rajasthan*	22·3	45·9	60·2	11·7	3·8	9 3	11·4	7·2	12·9	15·4
Punjab*	13·0	96·5	28·8	7·4	..	2·5	2·7	4·6	..	6·9
PEPSU*	12·3	21·9	20·5	4·9	4·1	6·7	7·7	..	3·1	12·5
Bilaspur	9·7	..	13·0	..	..	..	11·6	12·7	.	..
Himachal Pradesh	11·0	30·8	21·3	7·9	..	12·7	5·3	12·0	7·2	6·9
Ajmer*	10·6	76 0	37·1	4 5	..	3·1	3·2	3·7	4·5	..

State (Pre-reorganization)	40 44	45 49	50-54	55 59	60 64	65–69	70 74	75 and over	Infant mortality
Uttar Pradesh	..	..	..	..	..	..	..	..	..
Bihar*	6 4	11·6	15·9	17·8	43·3	78·4	65·5	152·6	103·6
Assam	11·0	26·2	38·4	47·7	77·7	96·1	136·1	223·0	11·6
Manipur	12·0	26·0	23·0	23·0	74·5	55·6	78·3	236·1	20·2
Tripura	34 2	26·5	21·9	50·8	60·6	55·6	150·9	212·8	..
Madras*	9·1	13·1	14·5	23·0	36·6	49·9	50·1	148·7	38 8
Travancore-Cochin*	10 3	11·2	9·8	11·0	23·7	50·0	77·3	135·1	59·2
Coorg*	..	41·7	..	..	..	..	..	..	..
Bombay*	6·3	7 8	13·3	16·9	26·7	50·6	61·7	192·0	81·7
Saurashtra*	7·6	14·9	12 4	8 1	17·2	48·4	58·8	164·9	101·6
Kutch*	13·8	7·3	19·3	5·5	36·8	27·9	71·4	87·5	96·7
Madhya Pradesh*	13·4	13·0	27·9	27 2	59·4	58·4	94·9	182·3	100·1
Madhya Bharat (1952)*	9·8	14·0	23·7	34·6	36·8	71·8	74·8	150·8	80·2
Madhya Bharat (1953)*	11·5	13·7	16·5	28·5	42·5	29·4	50·4	120·1	59·4
Vindhya Pradesh*	17·6	23·8	23·3	22·1	40·1	18·6	50·4	64·5	57·6
Rajasthan*	21·0	25·7	23·8	63·0	80·4	14·9	125·0	233·3	44·4
Punjab*	7·2	6 4	12·9	23 5	35·1	11·1	55·6	80·0	96·5
PEPSU*	5·3	29·4	10·1	12 0	54·3	60·6	21·3	156·3	21·9
Bilaspur	..	..	25·6	..	32·3	..	200·0	76·9	..
Himachal Pradesh	19 6	..	12·0	20·8	..	..	..	100·0	30·8
Ajmer*	4·8	8·4	..	35·7	..	37·0	34·5	125·0	70·6

* The State has either ceased to exist or has been drastically reorganized as from 1st Nov. 1956.
Himachal Pradesh and Bilaspur were merged on 1st July 1954.

INDIANS OVERSEAS

THE number of Indian nationals overseas which includes Pakistani nationals (unless otherwise stated) is given below:

Name of country	Indian population	Year of estimate
Commonwealth.		
Aden	15,817	1955
Australia	887	1954*
Barbados	140	1955
British Guiana	2,10,000	1954
British Honduras	2,000	1946
British North Borneo	2,000	1954
British Somaliland	250	1946
Brunei	436	1947
Canada	3,750	1955
Ceylon (*a*)	9,00,000(approx.)	1957
Dominica	5	1950
Fiji Islands	1,69.409	1956
Gibraltar	41	1946
Gold Coast	329	1954
Grenada	4,000	1954
Hongkong	2,000(approx.)	1955
Jamaica	26,000	1954
Kenya	1,27,000	1954
Leeward Islands	99	1946
Malaya	7,20,013	1955(Inc. Pak.).
Malta	37	1948
Mauritius	3,75,918	1955
New Zealand	1,200	1952
Nigeria	304	1954
Nyasaland	6,000(approx.)	1954
Rhodesia (Northern)	3,500(approx.)	1954
Rhodesia (Southern)	4,700(approx.)	1954
Sarawak	2,201	1954
Seychelles	285	1947
Sierra Leone	76	1948
Singapore	92,895(Inc. Pak.).	1954
South Africa	3,65,524	1951
St. Kitts	97	1950
St. Lucia	3,000	1954
St.Vincent	2 000	1954
Tanganyika	68,500	1954
Trinidad and Tobago	2,50,800	1954
Uganda	50.000	1954
United Kingdom	1,50,000(approx.)	1951
Zanzibar and Pamba	15,812	1948

Name of country	Indian population	Year of estimate
Foreign		
Aden Protectorate	100	1956
Afghanistan	236	1954
Argentina	300(approx.)	1955
Austria	41	1955 (Mar.)
Bahrein	3,000	1954
Belgian Congo	1,227	1950
Belgium	72	1955
Brazil	60	1955
Bulgaria	3	1953
Burma	Est. to be 6-7 lakhs.	
Cambodia	200(approx.)	1955
China	376	(June 1957)
Czechoslovakia	4	1955 (May
Denmark	22	1955
Dutch Guiana	70,000	1956
Egypt	100	1956
Ethiopia (including Eritrea)	1,615	1954-55
Finland	1	1955
France	390	1953
Germany	35	1953
Indo-China	2,300	1950
Indonesian Republic	40,000	1952
Iran	800	1953
Iraq	850	1954
Italian Somaliland	1,000	1947
Italy	113	1955 (Mar.)
Japan	501	1954
Kuwait	2,500	1954
Lebanon	59	1955
Libya	27	1956
Luxemburg	Nil.	1952
Madagascar	14,000	1956(approx.)
Muscat	1,145	1947
Nepal	10,441	1941
Netherlands	Nil.	1953
Palestine	56	1947
Panama	Between 500 and 800	1956
Philippines	1,295	1954
Portugal	1	1952
Portuguese East Africa	5,000	1948
Qatar (Persian Gulf)	800	1954
Reunion Islands	2,500	1955(approx.)
Ruanda Urundi	1,963	1950
Saudi Arabia	5,000	1956
Sharjah Dubai (Persian Gulf)	250	1954
Sudan	2,000	1956
Sweden	79	1955
Switzerland	250	1955
Syria	13	1954
Thailand	9,900	1955*
United States of America	5,063	1954
U.S.S.R.	15	1953
Yemen	50	1956
Yugoslavia	N.A.	—

(*a*) Number of Indians and Pakistanis registered as citizens upto March 15, 1953 in the Indian Mission was 18,500.
* Indian nationals only.

MIGRATION TABLES

The following table shows the emigration and immigration figures for 1953 and 1954 :

Country	Emigration		Immigration	
	1953	1954	1953	1954
Africa	24,604	25,692	22,239	22,864
Burma	8,361	8,960	10,989	13,392
Ceylon	90,287	47,066	1,17,008	58,294
Malaya	46,042	28,465	26,514	35,506
Others	24,186	23,394	31,193	34,124
Total	1,93,480	1,33,577	2,07,943	1,64,180

The distribution of some language groups in the countries of migration would be as follows :

Tamils
Malay-Singapore : 4,60,985 ; Mauritius : 10,500 ; Fiji Islands : 10,000.

Hindustani group
Mauritius : 2,80,000 ; Fiji Islands : 1,24,000 ; Malay-Singapore : 1,360.

Gujarati
Kenya : 69,000 ; Tanganyika : 61,000 ; Uganda: 44,000 ; Mauritius : 21,000 ; Zanzibar and Pemba: 15,000 ; Fiji Islands : 8,000 ; Nyasaland : 6,000 ; South Rhodesia : 4,500 ; North Rhodesia : 3,500 ; Ruanda Urundi : 2,000 ; Indonesia : 2,000 ; Malay-Singapore : 1,300 ; Belgian Congo : 1,200.

Punjabi
Kenya : 50,000 ; Malay-Singapore : 30,600 ; Tanganyika : 5,000 ; Indonesia : 4,000 ; Fiji Islands : 3,000 ; Uganda : 3,000.

Telugu
Malay-Singapore : 24,100 ; Indonesia : 20,000 ; Mauritius : 3,500.

Malayalam

Malay-Singapore : 44,400.

Sindhi

Indonesia : 12,000 ; Hong Kong : 1,600.

Marathi

Uganda : 2,600 ; Tanganyika : 1,600 ; Zanzibar and Pemba : 1,000.

Bengali

Malay-Singapore : 3,900.

EMIGRATION LAWS

Emigration out of India is governed by the Indian Emigration Act (VII of 1922) and the Rules made thereunder, as amended from time to time.

"Emigration" means departure by sea out of India of a person under an agreement or with the intention to work for hire. Emigration is not lawful except from Ports which have been notified as "Emigration" Ports. Emigration for unskilled work is not lawful to any country at present, and the very departure for engaging in unskilled work to Ceylon, Burma, Malaya and Singapore is prohibited, unless exemption is granted by general or special orders of the Central Government.

Emigration for skilled work is permissible on compliance with prescribed formalities.

The functions under the Act are performed by the Central Government through the Controller-General of Emigration and Joint Secretary to the Government of India in the Ministry of External Affairs, New Delhi, with the assistance of the Protectors of Emigrants at the Emigration Ports and the Controller of Emigration, Madras, who supervises the activities of the Protectors of Emigrants in the Madras State.

Following Ports are at present Emigration Ports under the Act. Each Port has a Protector of Emigrants.

1. Bombay (Protector of Emigrants : Army and Navy Building, 148 Mahatma Gandhi Road, Bombay 1).
2. Okha (Port Officer).
3. Porbander (Port Officer).
4. Bedi (Port Officer).
5. Madras (Protector of Emigrants: 41, Mukkur Nallamuthu Chetty Street, George Town, Madras).
6. Nagapattinam (Protector of Emigrants).
7. Dhanushkodi (Protector of Emigrants: Mandapam Camp).
8. Tuticorin (Protector of Emigrants).
9. Gopalpur (The District Officer, Ganjam).
10. Calcutta (Protector of Emigrants : 4, Brabourne Road, Calcutta).

QUOTA BASIS

The following countries admit Indians on quota basis : Canada, U.S.A., Philippines, Thailand and Indonesia.

Canada. The Government of India and the Government of Canada have entered into a modified Agreement regarding the immigration of Indians into Canada in partial modification of the Agreement of 1951 under which the Government of Canada had agreed to admit annually 150 Indian citizens into Canada. The modified Agreement came into effect on the 1st of January, 1957.

Under the modified Agreement, the Canadian Government have agreed to increase the annual quota of immigrants from India from 150 to 300. Of these 300 immigrants, 150 will be "ordinary quota" immigrants and 150 will be "preference quota" immigrants. Relatives of Indians who have permanently settled in Canada or who have acquired Canadian citizenship will be admissible into Canada as "preference quota" immigrants while other applicants will be admissible under the "ordinary quota". It may be noted that "close relatives" of all those who have become Canadian citizens will be admitted into Canada as non-quota immigrants.

A "relative" means the husband, wife, son, daughter, brother, sister (or the husband, wife or unmarried child under twenty-one years of age of any such son, daughter, brother or sister), father, mother, grandparent, unmarried orphan nephew or niece under twenty-one years of age, fiance or fiancee.

A "close relative" means the husband, wife, unmarried child under twenty-one years of age, father over sixty-five years of age, or mother over sixty years of age.

Any person admitted to Canada as an immigrant might become a citizen of Canada after five years' continuous residence there. There is no legislation in Canada, federal or provincial, which discriminates against any group of citizens on grounds of national origin, race, language or religion.

U.S.A. The United States of America has fixed an annual quota of 100 for India of which 25 per cent is reserved for Indians born or residing outside India. The selection of immigrants is made by the U.S. Government. The main considerations on which selection is made are : (*a*) the immigrant must be a genuine East Indian, (*b*) must be free from contagious diseases or moral turpitude, (*c*) must not subscribe to anarchist or subversive theories, (*d*) must not be a practising polygamist, (*e*) must be literate in some foreign language, and (*f*) must be in possession of sufficient funds to avoid likelihood of becoming public liability.

Philippines. With effect from September 1953, 50 Indian nationals are admitted per annum for permanent settlement under the Philippines Immigration Act. Selection is made by the Philippines Government through their Legation in India.

Thailand. The quota fixed by Thailand is 200 per annum. The selection is made by the Thai Government.

Indonesia. Indonesia fixed a quota of 1,000 immigrants in 1952 to a group of four countries, *viz.*, India, Pakistan, Ceylon and Burma. It is, however, entirely at the discretion of the Indonesian Government to permit Indians to settle in Indonesia.

FREER MIGRATION

In some of the countries, though Indians are not admitted for the specific purpose of settlement, they may be permitted to enter and reside on completion of formalities and conditions prescribed under the respective immigration and other laws of those countries. Mauritius, British East African territories of Kenya, Uganda, Tanganyika, Zanzibar, Belgian Congo, Ruanda-Urandi, Nigeria, Ethiopia, Aden, Bahrein, Iraq, Muscat, Kuwait, Saudi Arabia, Seychelles, Malaya, Indo-China, Fiji, Japan, the United Kingdom, British West Indies, British Guiana, and British North Borneo are among such countries.

The main requirements of some of the countries are indicated below :

Mauritius. An intending immigrant should be able to deposit Rs. 1,000 on entry into the Colony.

British East Africa. A person intending to engage on his own account in trade, business, agriculture, mining, and manufacture in these territories must have at his disposition prescribed capital and must obtain a certificate from the prescribed authority in the territory concerned permitting him or her to engage in a particular profession, trade or calling in that territory. Professionals like doctors, dentists, lawyers, are not required to have any prescribed capital, but should possess sufficient capital or assured income to enable them to give effect to their intention.

The Government of Kenya have announced that their future immigration policy will be largely based on economic considerations and that Great Britain will be the primary source of immigrants of the kind the Colony needs. The scope of Indian immigration into Kenya has been further curtailed.

Fiji. Generally, permits to enter and to settle are granted to the following categories of persons :

(*i*) Farmers and planters if they have already acquired property in the Colony not less than 100 acres, three quarters of which must be productive land.

(*ii*) Professional men and women with recognised qualification intending to practise their professions.

(*iii*) Ministers of religion and teachers.

Malaya. Under the New Immigration Ordinance which came into force on August 1, 1953, entry permits for permanent residence will not normally be granted to fresh immigrants wishing to enter Malaya for employment or for pursuing a profession unless the applicant is a skilled artisan or his entry is considered to be in the economic interest of Malaya or Singapore, or he holds a contract of employment with a well-established business concern on terms and conditions of service of a prescribed standard, or unless he holds special qualifications to be able to pursue his profession without prejudice to the interests of persons already resident in Malaya.

British West Indies. Indians are admitted in exceptional cases, where they possess special skills that are in short supply there or who may bring capital for investment.

Belgian Congo. Entry Permits may be granted to those who can deposit a certain sum and satisfy the authorities regarding good conduct, etc.

Ethiopia. There is no particular restrictions for immigration into Ethiopia, but the Ethiopian Government's permission is required in every case.

United Kingdom. Indians are free to settle in the United Kingdom.

Switzerland. Indian nationals can go to and reside in Switzerland, subject to the laws and rules in force in that country.

ENTRY BANNED

Fresh Indian immigration is either banned or is not permitted as a matter of policy into the following countries :—South Africa, Southern Rhodesia, Northern Rhodesia, Nyasaland, Australia, New Zealand, Burma, Ceylon, most of the European and South American countries.

South Africa. Immigration of Indians into the Union of South Africa is banned.

British Central Africa. The three territories of Southern Rhodesia, Northern Rhodesia and Nyasaland were brought into a federation known as the Federation of Rhodesia and Nyasaland. Immigration is a federal subject, and it is the declared policy of the Federal Government not to admit fresh Indian immigrants excepting teachers, ministers of religion and wives and minor children of persons already settled there.

New Zealand. There is a ban on the entry of fresh Indians, but as a special case the New Zealand Government permits the entry of the children of permanent residents into New Zealand for permanent residence provided they fulfil certain conditions.

Australia. Asians, including Indians, are not allowed to immigrate into Australia for permanent settlement. However, Indians who are *bona fide* merchants and are in a position to engage in wholesale import-export business may be admitted and allowed to remain there so long as they continue in the trade, but without any citizenship or other rights. Indians already settled there can, however, take their wives and minor children and also shop assistants from India subject to certain conditions.

BURMA

Burma was a province of India till 1937 April when it was given a separate constitution. In 1931 the Indian population was reported to be over one million. Consequent upon the Japanese occupation of Burma in 1942, about 4 lakhs of Indians left Burma for India. After the liberation of Burma many did not return to that country in view of the changed conditions in Burma and the difficulty of obtaining employment there. The present population of Indians in Burma is estimated to be about 7 lakhs.

Indians are mainly agricultural, dock and casual labourers and small-scale business men. Some Indians are engaged in wholesale importing business.

With the introduction of the Burmanisation policy, no foreigner is now allowed to buy any property, nor can any property be transferred to any foreigner. Non-nationals in Government service are being replaced by nationals.

A large number of Indian land-owners in Burma have been adversely affected by the 'Land Nationalization' Scheme.

Under the Union of Burma Citizenship Act, 1948, an alien can become a Burma citizen by naturalisation, if he had resided continuously in the Union for not less than five years before the application and also fulfils other prescribed conditions.

As foreigners in the country, Indians as such have no franchise. Those Indians who have become Burmese citizens are entitled to all privileges including franchise that other Burmese are entitled to.

Rupees thirty a month can be remitted to dependents in India by Money Order. (Source of information: Burmese Embassy). All applications for remittances of moneys should be passed by the Burmese Exchange Control Authorities who allow remittances for maintenance of families and other specific purposes on the strength of certificates from the District Magistrate concerned in India that the payees are solely dependent on the remittances. On leaving Burma for good, assets can be transferred to India if approved by the Exchange Control Authorities in Burma.

MALAYA

The Federation of Malaya is an independent Dominion and the term Malaya now generally denotes that country alone. The other administrative area in the Malaya peninsula is Singapore, a crown colony.

Of the total Indian population of over 7 lakhs in Malaya about 70 per cent are labourers in rubber and tin estates, and the rest are either clerks or employed in business, trade and other professions like law and medicine.

Indians do not suffer from any special disabilities.

Indians are eligible for citizenship of the Federation of Malaya, if they fulfil the prescribed conditions. Many of the Indians in Malaya are qualified or entitled to become Malayan citizens.

Elections in Malaya were held in 1955. The Legislative Council is composed of 98 members of whom 52 are elected and the remaining either nominated or ex-officio. The Legislative Council has seven Indian members. There are 16 Ministers in the Federal Executive Council of whom one is Indian.

In Singapore there is no citizenship law and the British Nationality Act applies.

Under a new law as from Oct. 1957 Commonwealth citizens who have not acquired U.K. citizenship can acquire Singapore citizenship, provided reciprocal arrangements have been entered into with respective countries.

The Colony of Singapore is under a Governor; strength of Council of Ministers 13 (two of these are Indian). The strength of the Legislative Assembly is 32 (four of these are Indian).

There are no restrictions on Indians in the matter of remittances to India.

CANADA

Indian residents of Canada are largely comprised of labourers employed in lumbering and trucking. There are a few lumber mill owners, and some are working as clerks in various establishments. The majority of Indians are in British Columbia. The Indian community is called the "East Indian Community".

There are no disabilities on Indians in the matter of owning property, engaging in trade or profession, entering Government service or residence in any locality. The period for qualification for citizenship is 5 years. In 1952, one Indian was elected to a Municipal Council.

Indians can remit to India any amount earned in Canada.

BRITISH GUIANA, WEST INDIES

Indians form the bulk of sugar plantation labour in British Guiana and Trinidad. A good number of them work also on cocoa plantations. They are the backbone of the countries' agriculture, and grow rice and vegetables. There are also a number of prominent Indian merchants, doctors and teachers.

In British Guiana, Indians constitute the largest single racial group. (46 per cent of the total population.) In Trinidad Indians are about 36 per cent of the total population.

Very few Indians have been employed in Government service. A vast majority of Indians are illiterate. In Jamaica, a large number of dairies are owned by Indians.

There is no discrimination against Indians in British Guiana or Trinidad, and they enjoy the same citizenship rights as other nationals of these territories.

Indians have been elected to the Executive and Legislative Councils of British Guiana. The Constitution of British Guiana was suspended in 1953 and all the members of the Legislative Council were nominated.

In Trinidad the first general election under the revised constitution was held on Sept. 24, 1956 in which the Peoples' National Movement won 13 of 24 Legislative Council seats. Of the 24 seats nine are held by Indians. The new Executive Council consists of 10 members, two of whom are Indian.

In Jamaica where Indians form only 1·7 per cent of the total population there is one Indian member in the Lower House comprising 32 elected members.

Money can be freely sent to India from the British West Indies.

MAURITIUS

Indians in Mauritius form about 67 per cent of the total population of the Colony. The Indian population is mainly composed of descendants of "indentured" labourers from Madras, U.P. and Bihar, but there is a sprinkling of traders from Bombay. Indians have settled there for generations and are now termed "Indo-Mauritians". A large proportion of them are farm-labourers on sugar plantations. The rest are engaged in commerce and trade or are doctors, lawyers, government servants.

Indians are mostly illiterate, and on the whole their economic and social conditions are not as satisfactory as in some other Colonies.

There is no colour bar against Indians, nor do they suffer from any political disability.

The Legislative Council of the Colony as at present constituted consists of 35 members including the Governor as President, three ex-officio, 12 nominated and 19 elected members. Of these 35 members 14 are Indian.

Fresh proposals for constitutional advance were made in 1956. Some of these were implemented later in the year. The strength of the Executive Council was raised from 9 to 12 of whom seven will be non-official members. The Executive Council will exercise collective responsibility. All members will be designated Ministers and six non-official members will be assigned portfolios.

The rest of the proposals are to be implemented in 1958, when fresh elections will be held and the number of elected members of the Legislative Council increased from 19 to 25.

There are no restrictions on remittances to India.

EAST AFRICA

British East Africa consists of the four territories of Kenya, Uganda, Tanganyika and Zanzibar.

The majority of the Indians in these territories are engaged in commercial undertakings. Artisans, technicians, Government servants, doctors, lawyers, make up most of the balance.

Indians in East Africa—numbering about 2 lakhs—are mostly concentrated in urban centres. In Kenya and Tanganyika they constitute about 59 per cent of the total non-native population of each territory; in Uganda they form the single largest community among the non-Africans, being about 82 per cent of the non-African population. Their general economic condition is on the whole very satisfactory. Many of them are quite well-to-do.

In Uganda some Indians have big factories, *e.g.*, sugar, sisal and ginning. About 90 per cent of the total trade of Uganda passes through Indian hands.

Indians (and also other non-Europeans) are not allowed to own or lease land in the Kenya Highlands for agricultural and industrial purposes. Anti-Asiatic regulations prevent the purchase or occupation of certain residential sites in Nairobi and Mombasa (in Kenya) by Indians.

Indians are, in practice, discriminated against in the matter of appointments under the Government; they are generally excluded from appointments to higher posts. An Indian (or other non-European) gets less pay than a European for the same work. But this position is being remedied.

In Kenya, grants for social services, *e.g.*, education, are more favourable to Europeans than to Indians.

Indian residents in these territories are entitled to acquire the citizenship of the U.K. and Colonies under the British Nationality Act. Normally one year's continuous stay or birth in the territory is necessary.

In Tanganyika, Uganda and Zanzibar there is no elective system for filling up seats in the Legislative Councils. In Kenya, the population is divided into race electorates for the election of members to the Legislative Council; the Indian electoral roll is further subdivided as between Indian Muslims and other Indians. Out of six seats two are for Indian Muslims and four for other Indians.

Indians also enjoy municipal franchise in these territories.

The representation of Indians on the Legislative and Executive Councils is shown below :

Country	*Executive Council		Legislative Council	
	Total	Indians	Total	Indians
Kenya	15	2	54 (28 non-officials).	6 (6 elected non-official—2 Muslims and 4 other Indians). There are also a few Indians nominated official members.
Uganda	15	1	60 (28 non-officials).	6 (Nominated non-officials). There are also a few Indians nominated official members.
Tanganyika	14	1	62 (30 non-officials).	10 Asians (Nominated non-officials). The strength of the Legislative Council was increased in 1955 under proposals announced in 1954. It now consists of a Speaker (a non-official member), 31 ex-officio and nominated official members and 30 non-official members (10 Africans, 10 Asians and 10 Europeans).
Zanzibar	9	-	16 (8 non-officials).	2 (Nominated non-officials).

* In Kenya and Uganda there are now Councils of Ministers.

Since 1st January 1948, Kenya, Uganda and Tanganyika have been included in a sort of loose union designated East African High Commission with a common legislature and a common administrative service for certain specific purposes. The legislature of the East African High Commission consists of 7 ex-officio members, 3 nominated official members (1 from each territory) and 13 non-official members. The 13 non-official members consist of : one elected by the non-official members of the Legislative Council of each territory, one European, one Indian and one African member appointed by the Governor of each territory (in Kenya the European and Indian members are elected by the European and Indian members respectively of the Kenya Legislative Council) and one Arab member (appointed by the High Commission).

There are no restrictions on remittances to India.

SOUTH AFRICA

Persons of Indian origin in South Africa numbering a little less than 4 lakhs are mostly labourers, traders, small farmers, factory workers, and in small numbers professionals.

Racial discrimination against Indians exists in South Africa in every walk of life and in the worst possible form. Persons of Indian origin are practically excluded from parliamentary, provincial and municipal franchise as well as from public services except in menial and subordinate posts.

"Apartheid" or racial segregation is the declared policy of the South African Government. In accordance with this policy Indians are subject to a number of restrictions as regards immigration, inter-provincial migration, residence, trade, industry, professional and other occupations. Racial segregation is also enforced in schools, post offices, railways, public transport, hotels, churches, social and religious gatherings and public utility undertakings.

The outstanding piece of anti-Asiatic legislation is the Group Areas Act, 1950. By this Act, the entire population of the Union has been divided into three main groups, White, Native and Coloured. Persons of Indian origin are included in the Coloured group. The Government will establish by proclamation "group areas" for exclusive occupation or ownership or both, of any of the groups. The various racial communities will have to live and occupy premises for trade and professions only in areas allotted to them. Indians and other non-Europeans will thus not be able to continue to hold properties in an area declared for the European group. The Union Government has already started taking active steps for the proclamation of group areas in a number of important cities in the Union. When the Act is fully implemented, persons of Indian origin will have to move into the areas exclusively reserved for them and this will disrupt their trade and business and involve immense losses running to millions of pounds.

The Group Areas Act was further amended in 1955 (Act No. 6 of 1955) to invest increased powers to the Land Tenure Advisory Board.

In August 1956 the South African Government issued a proclamation under which more than 9,000 Indians were served with a notice to vacate the western areas of Johannesburg within two years. Of these 9,000 Indians, 750 are traders who face economic ruin. Ultimately, according to an unofficial estimate more than 22,000 Indians with property in Johannesburg worth about £10,000,000 will be uprooted. The Indians are asked to move to Lenasia, an underdeveloped suburb 22 miles from Johannesburg.

In July 1957 proclamations were also issued in the province of the Cape of Good Hope under which the Indians living there will have to move within three years to Rylands which is mostly undeveloped bush and sand-dune country.

Asians have been declared prohibited immigrants since 1913, but the right of entry into the Union of wives and children of Indians domiciled in South Africa was provided for in the Reciprocity Resolution passed at the Imperial Conference of 1918 and later in the Cape Town Agreement of 1927. Under an Act passed in 1953, the Union Government banned the entry into South Africa of the wives and children of persons of Indian origin domiciled in the Union. But certain specified categories of wives and children of persons of Indian origin were allowed to enter South Africa till 10th February 1956.

The aim of the present South African Government in regard to Indians is their ultimate repatriation to India.

Practically all Indians domiciled in South Africa are South African citizens by law, but they are denied some of the most important rights of citizenship.

No Indian, who is not already a South African citizen, is allowed to acquire South African citizenship.

Indians have no franchise rights in the Provinces of Natal and Transvaal. In the Cape Province they enjoy limited franchise rights as for Cape Coloureds.

Indians are not eligible to a place in the Executive Council or Legislature, whether provincial or central.

There is no special limit to remittances by Indians to India.

The question of the treatment of the people of Indian origin in South Africa was placed before the General Assembly of the United Nations in 1946. In that year the U.N. General Assembly passed a resolution expressing the opinion that "the treatment of Indians should be in conformity with the international obligations under the agreements concluded between the two Governments and the relevant provisions of the Charter." Resolutions have been passed in subsequent sessions of the U.N. General Assembly in this respect, but the Union Government have paid little attention to these resolutions. In the Resolutions adopted in 1950 and afterwards the Union Government was also called upon to suspend the implementation of the Group Areas Act pending the conclusion of negotiations between the Governments of India, Pakistan and South Africa. But the Government of South Africa has proceeded with the implementation of this Act despite these Resolutions.

The General Assembly, in 1952 set up a Good Offices Commission to assist the three Governments concerned in their negotiations on this question. But the South African Government refused to recognise the Commission.

The Commission was again appointed by the 8th Session of the United Nations General Assembly in 1953 to make further efforts to arrange and assist in negotiations between the Governments of India, Pakistan and Union of South Africa. But the Commission's efforts were rendered infructuous because of the total non-co-operation of the Government of the Union of South Africa.

The 9th Session of the U.N. General Assembly passed a resolution suggesting that the three Governments concerned negotiate directly among themselves to reach a decision on the problem.

The U. N. Secretary-General nominated in June 1955 Sr. Luis de Faro, formerly Brazilian Ambassador to the Federal Republic of Germany to bring the parties together. Sr. Luis de Faro reported failure to the U. N. Secretary-General who in his turn reported the matter to the U. N. General Assembly.

The 10th Session of the U. N. General Assembly (1955) passed a resolution urging the Governments of India, Pakistan and the Union of South Africa to pursue negotiations with a view to bringing about the settlement of the question of the treatment of the people of Indian origin and report the developments to the General Assembly at its next Session.

In pursuance of this resolution, the Government of India wrote to the Government of South Africa offering to start negotiations. But the latter refused the offer.

The matter was then reported to the 11th Session of the U.N. General Assembly which again passed (Jan. 30, 1957) a resolution urging South Africa, India and Pakistan to start negotiations aimed at settling the dispute. The resolution made a special appeal to the Union Government to co-operate. It also invited the parties to report jointly or separately back to the Assembly.

In pursuance of this resolution the Government of India approached the South African Government to start negotiations. But there was no response from the South African Government. India therefore asked that the subject might be included in the agenda of the 12th Session of the General Assembly.

Accordingly the subject was so included in the face of South African protest and was debated in the Political Committee in the October session of 1957.

On Nov 26, 1957 the U.N. passed two resolutions: The first by 59 votes to 6 with 14 abstentions that South Africa had not modified its race policies and asking that it should do so. The second resolution was passed by 64 votes to none with 16 abstentions asking South Africa to begin negotiations with India and Pakistan on the treatment of people of Indian origin.

SOUTHERN RHODESIA

Indians in Southern Rhodesia are mostly traders. Immigration of Indians into Southern Rhodesia has been prohibited since 1924, and only wives and children under 16 of domiciled Indian residents are admitted.

Although there are no discriminatory laws as such against Indians, in practice and in the interpretation of laws discrimination against them exists, particularly in the social sphere. Indians are not eligible for appointments to the Fixed Establishment of the Civil Services, and are not admitted into the Armed Forces. Indians are required to obtain special permits in order to purchase, possess or sell arms and ammunition whereas Europeans can do so on ordinary permits.

There is a common roll for all races with common qualifications. Of about 50,000 voters in the territory, between 400 and 500 are Indians.

Southern Rhodesia is a quasi-Dominion and has a cabinet of seven Ministers headed by a Prime Minister. There are no Indians in the Cabinet. The country has an elected Legislative Council consisting of 30 members, all of whom are Europeans. Because of the small number of Indian voters, no Indian has been elected to the Legislative Council so far.

Southern Rhodesia is now federated with the other two British Central African territories of Northern Rhodesia and Nyasaland. There is no Indian member in the Federal Legislative Assembly also which consists of 35 members.

There is no limit to remittances to sterling area countries

CEYLON

Out of a total of about 10 lakh persons of Indian origin in Ceylon, about 781,000 (labourers, subordinate staff, etc.) are in the tea, rubber and coconut estates. The balance is made up of merchants, shop assistants, land proprietors, and professional men such as doctors, accountants, lawyers and their families.

There is no restriction on Indians acquiring property in Ceylon, but non-Ceylonese are not allotted Crown Land. Trade in certain commodities and with certain countries like Japan and Germany is exclusively reserved for Ceylonese enterprise. Certain rights like fishing rights and the ownership of industries like public transport (omnibuses) are restricted to Ceylonese. Government service is restricted to Ceylonese except that foreigners are appointed on a contract basis when no qualified or suitable Ceylonese is available. Consequently Indians who have not acquired Ceylon citizenship have severe handicaps. Indians are also denied certain privileges such as National Insurance and un-employment relief.

The rights of Indians to citizenship are governed by two Acts enacted in 1948 after a discussion between the Indian and Ceylonese Prime Ministers. These Acts are the Ceylon Citizenship Act and the Indian and Pakistani Residents (Citizenship) Act, which provide that the Indian residents in Ceylon would be entitled to obtain the citizenship of Ceylon by registration subject to the following conditions: (a) an applicant must be resident in Ceylon when the laws came into force and must have been residing in Ceylon since January 1, 1936 if a bachelor and since January 1, 1939 if a married man, (b) he must have adequate means of livelihood, (c) he should be in a position to comply with the laws and customs of Ceylon, and (d) the application for registration was filed and submitted to the Controller of Registration before August 5, 1951.

Consequent on an adverse Privy Council judgment, an amendment to the Indian and Pakistani Residents (Citizenship) Act was made by the Government in November 1952, providing that the wife and each minor child of an applicant for citizenship should have been continuously resident in Ceylon from January 1, 1939, or the first anniversary of the marriage, or birth, as the case may be, whichever was later, subject to certain exemptions. This has proved a hardship to many persons.

Great difficulty was encountered by applicants in proving ordinary residence in Ceylon during 1936–47 mainly due to lapse of time, lack of documents and the illiteracy of the majority of applicants and consequent inability to provide legal proof of the required residential qualifications.

An Agreement was entered into in January 1954 between the Government of India and the Government of Ceylon regarding the citizenship rights of persons of Indian origin in Ceylon. Under this Agreement the Government of Ceylon agreed to expedite the registration of citizens under the Indian and Pakistani (Citizenship) Act and to make every endeavour to complete the disposal of pending applications within two years.

At a conference held in October 1954 at New Delhi between the Representatives of Ceylon and India, it was agreed that applications for Indian citizenship by persons of Indian origin will not be refused on the ground that an applicant had earlier applied to the authorities in Ceylon for registration as a Ceylonese citizen, and that pending registration of such persons either as Ceylonese or as Indian, they will be issued Identity Certificates for travel to India by the authorities (Indian or Ceylonese as the case may be) with whom their applications for citizenship are pending. The Ceylon Government have also agreed that all those who hereafter become Indian citizens will be allowed to continue in their employment in Ceylon till the age of 55. They have further agreed to facilitate the registration of persons of Indian origin as Ceylonese citizens

The total number of applicants for Ceylon citizenship is estimated to be about 850,000.

Out of these, the applications of about 90,000 persons were still reported as pending disposal as on August 1, 1957.

Pursuant to January 1954 Agreement, the Ceylon Government enacted the Indian and Pakistani (Parliamentary Representation) Act of 1954. Under it, for the purpose of voting the entire island of Ceylon is made into a single Constituency, from which registered citizens of Indian origin shall elect four members to the House of Representatives. The voting will be separate till 1966, after which registered citizens of Indian origin will also be brought on the general electoral register.

The Parliament of Ceylon consists of the House of Representatives (Lower House) and the Senate (Upper House). The strength of the House of Representatives was 101, 95 elected and 6 nominated members. Under the Constitution Amendment Act, 1954 the number of members of the House of Representatives has been increased from 101 to 105 to provide for the representation of 4 members to be elected from the Indian and Pakistani Residents Constituency.

In the elections that were held in April 1956 the People's United Front swept the polls, defeating the United National Party headed by Sir John Kotelawala.

An agreement on the Ceylonization of Indian business undertakings was reached on Nov. 22, 1954. It was agreed that Indian firms could retain essential (technical, involving trust and confidence) personnel, but only Ceylonese should be employed in lower and middle ranks and that they should be trained for executive posts.

An agreement to avoid double taxation was concluded in 1956.

Remittances from Ceylon are governed by the Exchange Control Regulations in force which are altered from time to time in accordance with the financial situation in Ceylon. Under the existing Exchange Control Regulations remittances upto a maximum of one-third of proved income in Ceylon may be sent to India. All non-Ceylonese holding valid residence permits can obtain Exchange Control Cards from the Post Offices for a monthly remittance of Rs. 30 for purposes of maintenance.

The Government of Ceylon launched their scheme of repatriating Indians at the end of 1954. Indians whose temporary residence permits had expired were served with quit notices.

In April 1955 the Government of Ceylon amended their Immigrants and Emigrants Act of 1948 whereby they have shifted the onus of proof in a prosecution under the Immigrants and Emigrants Amendment Act on the accused. The employment of persons who are unable to prove their nationality, has been made illegal and the employers rendered liable to prosecution.

Till the end of June 1957, about 23,285 Indians served with quit notices returned to India.

FIJI

Indians have played an important part in the development of the economic resources of the Fiji Islands. Indian residents are the descendants of the indentured immigrants from India who started coming into the Colony in 1879. The Indian population is about 49 per cent of the whole population of the island. The majority of the Indians are independent farmers, agricultural labourers, skilled and semi-skilled workers; the rest being teachers, clerks, storekeepers, doctors, lawyers. Sugar-cane production and road transport are Indian monopolies.

There is no colour bar in Fiji and Indians suffer from no 'political disabilities'. There is also no racial discrimination against Indians with regard to appointment to the civil services. However, under the present Government regulations, Indians cannot own land which is marked as 'Native Land Reserve' or Crown Land, without the approval of Government: but there are no restrictions on their acquiring freehold land.

Indians in Fiji have franchise both in respect of Legislature and Local Town Council but the franchise is on a communal basis.

The Legislative Council consists of 31 members —16 officials and 15 non-officials. In the non-official group Europeans, Indians and Fijians have equal representation with 5 members for each group. Of the 5 Indian members 3 are elected on a communal franchise and 2 are nominated. The Executive Council consists of 4 officials (excluding the Governor) and 3 non-official members. One of the non-official members is an Indian elected from among the Indian members of the Legislative Council.

There are no restrictions on the remittance of money outside Fiji.

AUSTRALIA, NEW ZEALAND

The majority of persons of Indian origin settled in Australia are engaged in retail trade or agricultural operations.

Indians domiciled in Australia do not suffer from any disability and have all citizenship rights. In accordance with the White Australia policy, fresh Indians are, however, not admitted for permanent settlement.

The Commonwealth franchise was granted to Indians domiciled in Australia in 1925.

The great bulk of Indians in New Zealand are engaged in the sale of fruits and groceries. Domiciled Indians are not generally subject to any disability or discrimination.

Indians have always enjoyed the right to vote both in Municipal and Parliamentary elections.

Indians can remit a limited amount to India for maintenance of wives and children. Upto April 1952, the limit was £55 for wife and £5 for each chilo (subject to maximum of 4 children) per quarter, but since then a 50 per cent cut has been imposed.

A TOURIST'S GUIDE*

THE following hints meant for foreign tourists may be useful:

1. Every foreign tourist entering India should be in possession of a valid passport issued by his Government.

He should also obtain before leaving his country a tourist visa from the Indian representative abroad (or the British representative in countries where there are no Indian representatives). Commonwealth citizens (except those of Pakistan and Ceylon) are exempt from the visa requirement, provided their passports are valid for travel to India. Persons of non-Indian origin domiciled in South Africa are, however, required to obtain entry permits.

Transit visas are not required for through air/ship passengers in direct transit by the same flight or by the next regularly scheduled flight irrespective of whether the flight is of the same or a different Airline. One can however leave the airport or ship by obtaining a landing permit for 72 hours and on depositing his passport.

The maximum period of stay on a tourist visa is 3 months, and on a transit visa 15 days.

For short visits not exceeding 2 weeks to Pakistan, Nepal or Ceylon tourists may obtain "no objection to return to India" certificates and return visas from the State Governments.

Visas for India are, unless otherwise specified, valid for a single journey only.

2. All non-Commonwealth tourists arriving in India are required to get themselves registered at the port of arrival and obtain certificates of registration. They will be registered as "tourists" if in possession of a tourist visa, and will not be required to report their movements to the police or registration authorities during their stay in India.

3. The Government of India have placed no health restrictions on persons entering India by sea or air, except in regard to yellow fever.

However, all persons are advised, in their own interest, to be protected against small-pox and cholera according to international requirements.

4. All baggage is open to customs examination. The duty payable on most articles varies from 25 per cent to 75 per cent according to the article.

Certain personal effects are allowed to enter free. Also alcoholic liquor up to one quart, provided the tourist can procure a permit on arrival by producing his Tourist Introduction Card. Liquor permits are issued to tourists at the Santa Cruz Airport, Bombay, on application immediately on landing.

5. Tourists are allowed to bring into India any amount of Indian or foreign currency notes or coins except in the cases specified below:

Bank of England notes up to £10 per head; Strait dollar notes up to $45 per head; Australian notes up to £4 per head; Egyptian notes £20, Indian notes from Burma Rs. 100, Indian coins from Pakistan Rs. 5 in value, Indian coins from Afghanistan Re. 1 in value. There is no limit on the amount of Travellers' Cheques.

The official rates of exchange are as follows: £1 equal to Rs. 13·33; U.S. $1 equal to Rs. 4·76. The actual buying and selling rates, however, differ slightly from these rates.

Foreign currency can be exchanged at any authorized dealer or money changer.

6. Tourists are advised to arrange for clearing their baggage by one of the recognized travel agencies.

TRAVEL AGENCIES

Here is a list of recognized agencies: Messrs. American Express Co. Ltd., Oriental Building, 364, Dr. Dadabai Naoroji Road, P.O. Box No. 507, Bombay-1; Messrs. Thos. Cook & Son, Cook's Building, D. Naoroji Road, Bombay-1; The Oriental Express Co. Ltd., Hotel Marine, New Delhi; Jeena & Company, 10, Veer Nariman Road, P.O. Box No. 849, Bombay-1; Lee & Muirhead (India) Ltd., 12, Rampart Row, Fort, Bombay-1; Trade Wings Ltd., Travel Agents: 20 Rampart Row, Fort, Bombay-1. Trade Wings (Calcutta) Ltd., 15-Old Court House Street, Calcutta-1; Balmer Lawrie & Co. Ltd., 21, Netaji Subhas Road, Calcutta-1; Mercury Travels (India) Ltd., Grant Hotel, P.O. Box No. 925, Calcutta-1; Ram Mohan & & Co., Ltd., The National Travel Services, P.O. Box No. 1723, Madras-1; Bharat Travel Service Ltd., Tourist Agents, 310/311, Linghi Chetty St., Madras-1; Iyer & Son Ltd., United India Building, Connought Place, New Delhi; Cox & Kings (Agents) Ltd., P.O. Box No. 398, Lloyds Bank Building, Bombay-1; Grindlays Bank Ltd., P.O. Box No. 98, Mint Road, Bombay-1; G. Raghunathamull Bank Ltd., Tourist Agents, Hyderabad (Deccan) Jamnalal Sons Ltd. (Hind Musafir Agency), 15, Mahatma Gandhi Road, Bombay; The India Travel Corp. Ltd., Bans-Phatak & Banaras Cantt., Banaras; Airfreight Ltd., 'Adelphi', 3, Queen's Road, Bombay; Globe Travels., 11-H., Connaught Circus, New Delhi; N. Jamnadas & Co., Travel Agents, 16 Bank Street, Fort, Bombay; 21 Asiatic Travel Service, P.O. Box No. 1568, 12, Murzban Road, Fort, Bombay-1; National Travel Agency, Mercantile Buildings, 9 & 10 Lall Bazar, Calcutta-1; Saha & Rai Travels Ltd., Hotel Ambassador, Sujan Singh Park, New Delhi; Escorts (Agents) Ltd., P.O. Box 187, Pratap Building, Connaught Circus, New Delhi; Versimal Bassarmal & Bros., 521, Kalbadevi Road, P.O. Box. 2112, Bombay; Orient Express, Petit Building, 359 D. Naoroji Road, Bombay.

TOURIST OFFICES

The following is a list of Government of India tourist offices:

1. Regional Tourist Officer, 88 Queensway, New Delhi.
2. Regional Tourist Officer, 123, Queen's Road, Churchgate, Bombay.
3. Regional Tourist Officer, 13, Old Court House Street, Calcutta 1.
4. Regional Tourist Officer, 35, Mount Road, Madras.
5. The Tourist Reception and Information Officer, 15-B, The Mall, Banaras.
6. The Tourist Reception and Information Officer, 16-A, Mahatma Gandhi Road, Bangalore.
7. The Tourist Reception and Information Officer, The Mall, Agra.
8. The Tourist Reception and Information Officer, Commissioner Road, Ootacamund.
9. The Tourist Reception and Information Officer, 'Krishna Vilas', Station Road, Aurangabad.
10. The Tourist Reception and Information Officer, Chaurastha, Darjeeling.
11. The Tourist Reception and Information Officer, The Ridge, Simla.
12. Tourist Reception and Information Officer, Circuit House, Jaipur.
13. Tourist Reception and Information Officer, New Capital, Bhubaneshwar.
14. Tourist Reception and Information Officer, Wellington Island, Cochin 3.
15. Tourist Information Officer, Rest House, Sanchi.

It may be mentioned here that a Tourist Promotion Committee with the Cabinet Secretary of the Union Government as Chairman has been formed to promote tourist traffic from abroad.

TOURIST CENTRES

Mount Abu (hill station): Pop. 4,316 (1941) in Rajasthan, about 4,000 feet above sea-level. There are two seasons in the year, the first lasting about two and a half months from the middle of March to the beginning of June, and the second lasting about one and a half months from the middle of September to the end of October. *Places worth a visit:* 1. the Dilwara Jain temples (11th-13th century, A.D.) containing the finest marble carvings in India, 2. Achalgarh temples (15th-16th Century, A.D.) and Mandakini Kund, 3. Ruins of an ancient town called Chandravati, 4. Nakki Talao (lake), 5. Arbuda Devi, a shrine cut in rock, 6. Guru Shikhar (5,646 ft.), highest point in Abu, 7. Sunset point, 8. Palanpur point, 9. Gaumukh Temple and Agni Kund, 10. the Municipal Park. Mount Abu is electrified and has waterworks with public utility taps. The chief means of conveyance are rickshaws, taxis and buses. There are hotels, dak bungalows and inspection houses at Mount Abu. Permission is required to use the dak bungalows and Inspection Houses. Mount Abu is reached by railway and road. The nearest railway station is Abu Road on the metre-gauge section of the Western Railway from Ahmedabad to Delhi. From the station Abu Road is about 17½ miles by road, and there is regular motor service between the town and the station. Taxis can be hired from Mount Abu Motor Service, Abu Road.

Agra: Pop. 375,665 (1951), a city in U.P., stands on the banks of the River Jumuna. It was the capital of the Moghul Empire during the reigns of Babar, Akbar, Jehangir and Shah Jehan. *Places worth a visit:* 1. the Taj Mahal, regarded by many as the most beautiful building in the world, 2. the Fort, 3. the Juma Masjid, 4. Moti Masjid, 5. the tomb of Itmad-ud-Daula, 6. Akbar's tomb at Sikandra, about five miles from Agra, 7. Dayal Bagh, 8. Twenty-three miles from Agra is the deserted city of Fatehpur Sikri founded by Akbar.

Agra, which has many railway stations, is on the main Bombay-Delhi and Calcutta-Delhi lines and is accessible by the Central or the Western or the Northern Railway.

Ahmedabad: in Bombay State, is an important textile centre. It contains numerous monuments of the fifteenth and sixteenth centuries. Pop. 788,333 (1951).

Aiholi: near Bagalkot in Mysore State contains about fifty temples important in the development of Hindu architecture and sculpture.

Ajanta Caves: are 66 miles north of Aurangabad in Bombay State. The rock-cut caves are 29 in number (5 chaityas or shrines and 24 viharas or monasteries, all Buddhist) and present a record of a unique combination of painting, sculpture and architecture of a period extending over nine centuries from about the 2nd Century B.C. to about 7th Century A.D. Three miles from the caves are a rest-house and a travellers' bungalow under the charge of the Director of Archaeology of the State. There is a curator's office next to the rest-house from which help and information can always be obtained. The caves can be reached from Aurangabad on the railway line between Dronachellam and Manmad by the State Transport buses which regularly ply between Aurangabad Station and the Ajanta caves.

Ajmer: city of considerable antiquity, Hindu and Muslim religious centre, contains Western Railway workshop. Pop. 196,633 (1951). *Places worth a visit:* 1. the Durgah of Khwaja Sahib (tomb of Muslim saint), 2. the Magazine (Akbar's old palace now museum), 3. Ana Sagar Lake (the marble pavilions round the lake were built by Shah Jehan), 4. Adhai-din-ka-jhoupra (Hut of two and a half days), 5. Taragarh Fortress (built by Akbar), 6. Mayo College, 7. Pushkar, the most sacred lake in India, is about seven miles away. The chief means of conveyance are buses, tongas and pao gharis. Ajmer lies on the metre-gauge section of the Western Railway line between Delhi and

* NOTE: When the population of a town is not given it may be generally assumed that it is less than 20,000.

No. of foreign tourists in 1954: 39,000; in 1951: 21,000. Foreign exchange earnings through tourist traffic were Rs. 10·1 crores in 1956. In the first half of 1957 the earnings amounted to Rs. 7·4 crores.

Ahmedabad. A line from Ajmer goes south to connect it with Khandwa on the Central Railway line between Delhi and Bombay (Rajasthan).

Allahabad: city in U.P., situated at the confluence of the Ganga and the Jumuna. It has an old fort and also an Asoka pillar. Sixty-five miles from Allahabad is Kosambi where the ruins of an ancient capital are being excavated. Pop. 332,295 (1951).

Alwar, Bikaner, Jodhpur, Kotah: famous for Rajput historical monuments.

Amritsar: city in the Punjab, sacred to the Sikhs. Pop. 325,747 (1951). Amritsar is the very centre of the Sikh religion and has a big trade in grain and textiles. *Places worth a visit:* 1. the Golden Temple standing in the Pool of Immortality, 2. Baba Atal Tower, 3. Akal Takht, 4. Ram Bagh Gardens, and 5. Fort Govind Garh. The chief means of conveyance in the city are hackney carriages. Fares are fixed. Amritsar is the Indian terminus of the frontier line from Delhi. It is on the Northern Railway.

Aurangabad: in Bombay, is note-worthy because of its proximity to Ellora and Ajanta caves and for handloom textiles. *Places worth a visit are:* 1. Bibi-ka-Muqbara—the tomb of Aurangzeb's wife which is a replica of the famous Taj, 2. Panchakki (old water-mill). The shrine of Shah Musafir, a Muslim saint, lies near by. Pop. 66,636 (1951).

Badami: in Mysore State, is famous for sculptured caves of the 6th century and for a group of Hindu temples. Fifteen miles from Badami is Pattadakal with another group of early Hindu temples (7th or 8th century) examples of pure Dravidian architecture.

Bangalore: Largest city in Mysore and a health resort, is about 3,000 feet above sea-level. It is well laid-out and up-to-date with every urban facility. *Places worth a visit:* 1. Cubbon Park, 2. Lal Bagh, 3. Band-stand, 4. Race Course, 5. Maharaja's Palace, 6. Tippu's Palace, 7. Venkataramanaswamy Temple. The chief means of conveyance are rickshaws, jutkas, buses and taxis. Pop. 778,977 (1951).

Baroda: Capital town of the former Baroda State, now part of Bombay State, is about 250 miles to the north of Bombay, modern, pop. 211,407 (1951). *Places worth a visit:* 1. Laxmi Vilas Palace (the residence of the Maharaja, one of the most beautiful palaces in India), 2. Old Nazar Bagh Palace, 3. Museum and Public Park, 4. Jubilee Garden, 5. L. F. Battery, and 6. the city walls. The chief means of conveyance are tongas, buses, taxis. Baroda lies on the main lines of the Western Railway between Bombay and Delhi and Bombay and Ahmedabad.

Belur: in Mysore State, noted for its elaborately sculptured temples of the Hoysala period.

Benares*: town in U.P. on the banks of the Ganges, very sacred to the Hindus. It is in fact the religious capital of Hindu India and contains about 1,500 comparatively large temples besides countless minor shrines. It is also reputed to be the oldest city in the country. Pop. 355,777 (1951). *Places worth a visit:* 1. Vishwanath Temple, 2. Bharat Mata Temple, 3. Manmandir, with Jaisingh's Observatory, 4. Aurangzeb's Mosque, 5. Gyan Wapi Mosque, 6. Nandeswar Kothi, 7. Ramnagar Fort, 8. Maidajin Garden, 9. Victoria Gardens, 10. Benares Hindu University, and 11. Sarnath, a great Buddhist centre with many architectural remains, is about six miles from Banaras. The chief means of conveyance are taxis and tongas.

There are also about 30 dharmasalas for Hindu pilgrims. Banaras is on the branch line from Moghul Sarai to Saharanpur. It is also connected with the major towns of India by railway.

Bharatpur: town in Rajasthan is famous for its historic fort. Pop. 37,321 (1951).

Bhubaneshwar: which is the new capital of Orissa, is a city of temples once said to number 7,000. *Places worth a visit:* 1. Lingaraj Temple, visitors are not allowed inside the compound but have to see it from a platform, 2. Mukteshwar Temple, 3. Parasurameswar Temple, 4. Raj Rani Temple. Nearby are the Jain and Buddhist rock-cut caves of Khandagiri and Udayagiri and Asoka's Rock Edict at Dhauli. There is a Dak Bungalow where visitors can stay with the District Board's permission. Bhubaneshwar is on the main S.E. R. line between Waltair and Howrah, about 20 miles from Cuttack and 38 miles from Puri.

Bijapur: town in Mysore State, capital of the old Muslim kingdom of Bijapur is rich with the remains of palaces, mosques, and tombs of the Adil Shahi kings. *Places worth a visit:* 1. Jami Masjid (the greatest mosque in South India), 2. Gol Gumbaz (the tomb of Mahammad Adil Shah and the second largest dome in the world), also called the Whispering Gallery, 3. Methar Mahal, 4. Ashar Mahal, 5. Gagan Mahal, 6. Chini Mahal, 7. Mecca Masjid, 8. Taj-Baury (water-tank), 9. Malik-I-Maidan, (Great Gun), 10. Landi-Kasab Gun, 11. Haidar Burj (tower), 12. Ibrahim Roza (the tomb and mosque of Ibrahim II), 13. Jala Mandir (reservoir), 14. Chand Bauri (old tank), 15. Granary, 16. Jod Gombaz (double tombs), 17. Bara Kaman Masjid, and 18. Begum Tank. The chief means of conveyance are taxis, lorries, tongas and bullock-carts. Bijapur is a railway station on the Gadag-Sholapur section of the Southern Railway. There are a dharmasala and a travellers' bungalow about one and a half miles from the station. Pop. 65,734 (1951).

Bombay: second city and port in India generally called the Gateway to India, is western and modern. Pop.: over 3 million; Area (Greater Bombay) 174 sq. miles. It is the principal centre of the textile industry, and the second biggest financial centre. The foreign trade of Bombay is about 46 per cent of the total trade of India. The city returns 30 per cent of the country's total income-tax, and 20 per cent of the corporation tax. It is an important communications centre, served by several air-lines and two big railways of both of which it is a terminus. May and October are the hottest months, but from November to March it is pleasant. *Places worth a visit:* 1. the Gateway of India, 2. Apollo Bunder, 3. Prince of Wales Museum, 4. the Town Hall, 5. Bombay Castle, 6. Rajabai Tower and University Building, 7. Victoria Terminus of the Central Railway, 8. the General Post Office, 9. Crawford Market, 10. Brabourne Stadium, 11. Chowpatty sands, 12. Malabar Hill, Hanging Gardens and Kamla Nehru Park, 13. Central Station, Terminus of the Western Railway, 14. Race Course, 15. Bhandarwada Reservoir and Gardens, 16. Victoria Gardens. Places near about Bombay which are worth a visit are: 1. Juhu (sea-side resort), 2. Versova (sea-side resort), 3. Vihar Lake (from which the city gets its water-supply), 4. Kanheri Caves (rock-cut caves of Buddhist origin), 5. Jogeshwari Caves, 6. Vajreshwari (temple and hot springs of medicinal property), 7. Mandapeshwar (cave temple), 8. Nirmal (temple and lake), 9. Ambarnath (temple), 10. Uran (port, with private garden and zoo), 11. Pali (hot springs and small game shooting), 12. Elephanta Caves (Brahmanical Caves). The chief means of conveyance in Bombay are trams, buses, electric railway, taxis and gharis.

Brindavan: holy place of Hindus, about six miles from Mathura in U.P. It is sacred because of its association with the birth and early life of the Hindu God Shri Krishna. *Places worth a visit:* 1. Govind Dev Temple, 2. Gopinath Temple, 3. Ranganath Mandir.

There are travellers' bungalows. Brindavan is accessible by railway or road from Mathura.

Bodh Gaya: in Bihar, a Buddhist centre of pilgrimage. It contains the famous mediæval Buddhist temple near the Bodhi Tree under which Gautam did penance and attained Enlightenment. Pop. 133,700 (1951).

Bundi: in Rajasthan is well-known for its buildings. Jungles nearby provide plenty of tiger shooting. Pop. 22,607 (1951).

Calcutta: until March, 1912, the headquarters of the Indian Government, and now, as then, the commercial capital of India. It is the terminus of three great railways, and the port of an immense river traffic. Though it lies 84 miles from the Bay of Bengal on the River Hooghly, it has a larger foreign trade than any other Indian port, and its enterprising Port Trust has the largest revenue among Indian port authorities. It is the centre of five great industries—jute, tea, hides and skins, coal and lac. Its exports include gunny bags, raw jute, tea, shellac, coal, hides and skins, rice and linseed, while it is the chief distributing centre for Lancashire piece-goods, metals and machinery, and the vast and varied requirements of the States of West Bengal, East Bengal (Pakistan), Bihar and Orissa and the tea districts. Population of West Bengal is 26·16 millions and of Greater Calcutta 4,578,071. *Places worth a visit:* 1. Victoria Memorial (contains a picture-gallery and museum), 2. the Indian Museum, 3. the Zoological Gardens, 4. the Jain Temple, 5. the Kalighat Temple, 6. Belvedere House (where the British Viceroys stayed when on visit to Calcutta), now being converted into a museum, 7. Raj Bhavan (residence of the Governor of West Bengal), 8. Marble Palace (containing art treasures property of the Mullik family), 9. Fort William, 10. the Eden Gardens, 11. the Town Hall, 12. the National Library, 13. Dalhousie Square, 14. the Race Course, 15. Dhakuria Lake, 16. the Hindu bathing ghats, 17. Dakshineshwar Temple. Places near about Calcutta which are worth a visit are: 1. Bally (holy place), 2 Belur (home of the Ramakrishna Mission), 3. the Botanical Gardens (contains the biggest banyan tree in existence), 4. Diamond Harbour (fort and customs house), 5. Dum Dum (airport of Calcutta).

Cape Comorin: also called Kanya Kumari in Madras State, is the southern-most tip of India.

Conjeevaram (Kanchipuram): the city of temples, the Banaras of the South, is about 45 miles to the south-west of Madras. It is one of the seven holy cities of India and the only one in the South. The place is divided into three parts, Shiva Conjeevaram (containing Shiva temples), Vishnu Conjeevaram (containing a smaller number of Vishnu temples) and Pillayar Palliyam, a testimony to the part played by all the main Hindu religious sects in the history of the city. There are over a thousand temples in all. *Places worth a visit:* 1. Kailasnath Temple (over 1,000 years old), 2. Vaikunth Perumal Temple (over 1,000 years old), 3. Ekambareswar Temple (400 years old), 4. Vedaraja Perumal Temple. Pop. 84,810 (1951).

Conjeevaram is on the Renigunta-Chingleput section of the Southern Railway and is easily accessible from Madras *via* Chingleput.

Cooch-Behar: in West Bengal, is known for the facilities and opportunities which it offers to shikaris in search of big game hunting. Pop. 33,242 (1951).

Coonoor: hill station on the Nilgiri Hills in Madras State, is about 6,000 feet above sea-level. The climate is mild and genial neither too hot in the summer nor too cold in the winter. The mean day temperature is 64 degrees. The north-east monsoon breaks in October and lasts about two months. The town has good water-supply and natural drainage facilities and is reputed to be one of the cleanest towns in South India. *Places worth a visit:* 1. Sim's Park (contains collection of plants), 2. Low's Waterfall, 3. Tiger Rock (hill fort). There are innumerable places for excursion and picnic purposes, *e.g.* the Droog, the Dolfin Nose, the Lamb's Rock, Las Falls, Lady Canning Seat, the Ralliah Dam and Catherine Falls. The chief means of conveyance are cars which can be hired.

Coonoor lies on the Mettupalayam-Ootacamund line of the Southern Railway. It is also connected by road with Ootacamund, and Kotagiri, another hill station. Pop. 23,902 (1951).

* The official name is Varanasi.

Darjeeling : hill station and summer capital of the West Bengal Government lies on the lower slopes of the Himalayas about 370 miles to the north of Calcutta. It is 7,110 feet above sea-level. The maximum temperature in the summer is about 70 degrees and the minimum in the winter is about 35. The town commands picturesque views including that of Mount Kanchenjunga and on a clear day of Mount Everest. Various sports are available during the season such as fishing, shooting, horse-riding and a number of other indoor and outdoor sports. Darjeeling has also a first-class sanatorium known as Eden Sanatorium. *Places worth a visit :* 1. Government House, 2. Town Hall, 3. Museum, 4. Observatory Hill (from where a magnificent view of Kanchenjunga can be obtained), 5. the Mall, 6. Natural History Botanical Gardens, 7. Birch Hill Park, 8. Senchal Lakes, 9. Ghoom Monastery, 10. Tiger Hill (from where the sunrise over Everest is generally viewed).

The chief means of conveyance are rickshaws, ponies and dandies. Darjeeling is the terminus of the Darjeeling-Himalayan section of the N. E. Railway and is about 27 hours' journey from Calcutta. From Siliguri where the visitor has to change, Darjeeling can also be reached by car which is quicker than travelling by the mountain railway. Pop. 33,605 (1951).

Daulatabad : in Bombay State, contains the famous rock-hewn 12th century fortress at one time so prosperous that it led Bin Tuglak to shift his capital to it from Delhi (1308). Close by is the tomb of the Moghul Emperor Aurangzeb.

Delhi (New) : the capital of India and the seat of the Government. It was planned in accordance with modern ideas by the architects Sir Edwin Lutyens and Sir Herbert Baker and was formally opened in 1931. New Delhi houses the President's House (now called Rashtrapati Bhavan), the Parliament, and the Secretariat. All the buildings in New Delhi are white except the ones mentioned above. These latter are built of red sandstone. Pop. 276,314 (1951).

Delhi (Old) : also called Shahjahanabad, the ancient capital of India stands on the river Jumna, and is enclosed by a stone wall with seven gates. It has a history going back to 3,000 years and within an area of 50 square miles eight Delhis rose and fell. The seven predecessors of present-day Delhi are Kutub, Siri, Tuglakabad, Jahanabad, Firosabad, Purana Quila and Shahjahanabad. No city in India contains as many historical remains as Old Delhi. One can trace here the growth and decay of almost every dynasty which held sway over the ancient land of Hindustan. There are a number of factories, jewellery, gold and silver embroidery and ivory carvings works for which Delhi is well-known. Pop. 914,790 (1951). Delhi is a great distributing centre for cotton, wool and silk. Industries include hardware, utensils and stoneware. Delhi is also a large market for grain. Lately tourist traffic has grown into a regular new trade. *Places worth a visit :* Red Fort, Jama Masjid, Chandni Chowk, Rajghat Samadhi, Ashoka's Pillars, Feroze Shah Kotla, Purana Quila, Humayun's Tomb, Isa Khan's Tomb, Lodi Park and Lodi Tombs, Safdar Jang's Tomb, Haus Khas, Kutab Minar, Tughlaqabad, India Gate or War Memorial Arch, Rashtrapati Bhavan, Parliament House, National Museum, Shri Lakshmi Narayan Temple, Jantar Mantar or the Observatory, Museums.

The means of conveyance are tongas, buses, taxis, trams, cycle-rickshaws and auto-rickshaws.

Delhi is directly connected by rail and air with Bombay, Calcutta and Madras. The Central and Western Railways connect it with Bombay, the Northern and Eastern Railways with Calcutta, and the Southern and Central Railways together with Madras.

Delhi also lies on the direct East-West transworld air routes linking India with all the major cities of the world.

Ellora Caves : are situated about 15 miles to the north-west of Aurangabad in Bombay State. The caves which are excavated in the face of a hill are 34 in number and run north to south for a distance of a mile and a quarter. The hill has the shape of a crescent the southern, the centre, and the northern being occupied respectively by Buddhist, Hindu and Jain temples. There are 12 Buddhist caves, 17 Hindu caves and 5 Jain caves. The Hindu caves are more lavishly decorated than others and Kailash Temple which is the most famous of the caves is also the biggest cave temple in India. It stands in a court averaging 154 feet wide, 276 feet long with a scarp 107 feet high at the back. Among other notable caves are caves X, XII, XIV, XV, XXIX, XXXIII, XXXIV. It is believed that the Ellora Caves are about a thousand years old. They are reached from Aurangabad by bus or car.

Ernakulam : in Kerala State, is famous for its backwaters fringed by Hindu, Muslim, Christian and Jewish settlements. Pop. 62,283 (1951).

Fatehpur Sikri : City founded by Akbar in 1569 but abandoned soon after is situated 23 miles from Agra. Akbar wished to make it his capital but it had to be abandoned because of lack of water. Here Akbar's son Salim who later became the Emperor Jehangir was born. The place contains a number of palaces, shrines, mosques built of marble and red sandstone. *The more notable among the monuments are :* 1. Buland Darwaja, the Gateway of Victory, built to commemorate the conquest of Khandesh. It is 176 feet high and is the highest gateway in India. It forms the southern gateway to the most imposing structure in Fatehpur Sikri, 2. the Jami Masjid, said to be a copy of the mosque at Mecca or Medina. Then there are 3. Panch Mahal, 4. Diwan-i-Khas (Hall of Private Audience), 5. Mariam's House, 6. Palace of Jodh Bai, 7. House of Birbal, 8. Elephant Tower and 9. Khas Mahal. Fatehpur Sikri has a railway station, and the city can be easily reached by car. There is a dak bungalow where visitors can get meals by previous arrangement.

Golconda : 5 miles from Hyderabad is an ancient spectacular fort (Andhra).

Gopalpur-on-Sea : in Orissa is a sea-side resort for a quiet holiday.

Gulmarg : an ideal hill station about twenty-nine miles from Srinagar, is a little less than 9,000 feet above sea-level. The place boasts of all modern facilities and is particularly noted as a winter playground affording scope for skating, ski-ing, tobogganning, and golf. Round about are ideal places for walks, rides and excursions.

Gwalior : best known for its fort (which is reputed to be the most interesting and remarkable example of a Hindu palace of an early age) lies about 200 miles to the south of Delhi. *Places worth visiting :* 1. Gwalior fort (includes Man Singh's Palace and a number of temples and shrines), 2. Tansen's Tomb, 3. Rani Laxmi Bai's Chhatri, 4. the Chhatris of other Mahratta rulers, 5. Tomb of Mahomed Ghaus, 6. Jami Masjid, 7. State Museum, 8. King George Park and Zoo, 9. Gwalior Pottery Works. Seventy-two miles from Gwalior is Shivpuri or Sipri famous for its lake and scenery. Survaya which is twelve miles again from Shivpuri contains the remains of a fortress of the early mediæval period. The chief means of conveyance are tongas and buses. There are two dharmasalas open only to Hindus but at Dufferin Sarai opposite the station rooms are available for rent. Gwalior is on the main Central Railway line between Bombay and Delhi. Pop. 241,577 (1951) (Madhya Pradesh).

Halebid : in Mysore, is well known for its elaborately sculptured temples of the Hoysala period.

Hampi : in Mysore State, is the ruined capital of the Vijayanagar Empire. It is 8 miles from the Hospet Railway Station on the Southern Railway. The ruins are about 600 years old and are described as "virtually a vast open air museum of Hindu monuments in the Dravidian style of architecture".

Hardwar : in U.P. on the Inner Himalayas, is a great Hindu pilgrim centre.

Imphal : north-east frontier town and capital of Manipur. It is celebrated for the Manipur dance and handloom products.

Jabalpur : in Madhya Pradesh; fourteen miles from Jabalpur are the marble rocks. Pop. 256,998 (1951).

Jaipur : provisional capital of Rajasthan Union, is a well laid-out modern city. It is famous all over India for the beauty of its art and the skill of its artisans. Jaipur pottery, brass ware, stone carving, ivory and sandalwood work and jewellery have enjoyed a great reputation from ancient times. Pop. 291,130 (1951). *Places worth a visit :* 1. Maharaja's Palace, 2. Jai Singh's Observatory, 3. the ruins of Amber (ancient capital), 4. the Hawa Mahal, 5. the Palace Armoury, 6. Cenotaphs of the Queens, 7. Galta (place of pilgrimage) and Ghat, 8. School of Arts, 9. Public Library, 10. Transport Gardens, 11. Museum. The chief means of transport are tongas, ekkas, phaetons, taxis, buses and palgharis.

Jaipur is on the metre-gauge line of the Western Railway between Ahmedabad and Delhi.

Jamshedpur : in Bihar, famous as India's 'steel town'. Pop. 218,162 (1951).

Jog Falls : in Mysore State, are one of the highest waterfalls in the world.

Junagadh : in Bombay, is situated below the celebrated Girnar Hill and is one of the most ancient cities in India. The temples on the hill are noted for their architecture and delicate painting. On the way to Girnar is a rock with an Asoka edict. Pop. 62,730 (1951).

In Junagadh is the famous Gir Forest—the only place in Asia where lions are found.

Kangra Valley : famous for its magnificent landscapes and historic temples, lies in the Punjab. Semi-urban hill stations are Kangra and Dharamsala. *Places worth a visit in Dharamsala are :* 1. Bhagsunath Water Springs, 2. State Quarries, 3. Himalayan Snow View. The chief means of conveyance are cars and buses. There is also a dak bungalow at Dharamsala where visitors can stay. To get to the Kangra Valley a visitor has to change at Pathankot into the narrow-gauge railway which runs to Nagrota. Dharamsala can also be reached from Pathankot by car.

Kanheri : near Bombay, is famous for its Buddhist caves dating back to the 1st century A. D. It is about twenty miles from Bombay.

Kashmir : unsurpassed for the beauty of its mountains, lakes and valleys is a province of the State of Jammu and Kashmir, situated in the far north of India, 5,000 ft. above sea-level. Srinagar, the capital of the State is famous for its shawls and carpets and the exquisite beauty of its wood-work and papier-mache articles. Its fruit and vegetables are equally well-known. Well-furnished, luxurious house-boats moored along the river Jhelum or in the Dal Lake provide all necessary comforts amidst gorgeous natural surroundings. The normal recreations include Shikara rides on the lakes and canals, mountain-climbing, big and small game hunting, golf, fishing and swimming. Gulmarg, Sonamarg and Pahalgam are favourite holiday resorts in the neighbouring mountains and can be reached by motorable road. The way to Srinagar is *viâ* Pathankot, which is a railway terminus. From Pathankot one goes to Srinagar by road passing Jammu on the way. There is a regular air service from Delhi to Srinagar, and a shuttle non-scheduled air service from Pathankot to Srinagar during the tourist season. The chief means of conveyance are boats, tongas, cars or buses. *Places worth a visit :* 1. The Moghul Gardens, like *a.* Shalimar, *b.* Chashama, *c.* Acchabal, *d.* Shahland, *e.* Nishat. 2. The lakes like *a.* Dal Lake, *b.* Wular Lake, *c.* Anchar Lake, *d.* Manasbal Lake and so on. 3. Places of historical and religious interest like *a.* Martand temple, *b.* Pandranthan temple, *c.* Bhaumasu caves, *d.* Avanti Pura and *e.* Pari Mahal.

Khajuraho : in Chhattarpur in Madhya Pradesh, is famous for its group of highly ornate mediaeval temples (Madhya Pradesh).

Kodaikanal : famous hill station on the Palni Hills in Madras State. It is about 7,000 feet above sea-level and has a temperate climate. The average annual rainfall is 65 inches, the major part of the rain falling in October, November and December. The months of April, May and June constitute the 'season'. The town enjoys excellent water-supply and is also well-equipped with all the ordinary amenities of life. The place affords plenty of scope for such recreations as walking, hiking, boating, fishing, hill climbing and golf. Going on an excursion or picnic is yet another way of diverting oneself. For the more adventurous there is big game hunting. Kodaikanal is the delight of the gardener and flowers are in bloom all the year round. *Places worth a visit :* 1. the lake skirted by a three-mile road, 2. the water falls like *a.* Fairy Falls, *b.* Silver Cascades, *c.* Bear Shola Falls, *d.* Glen Falls, *e.* Pamber Falls. 3. There are view points like *a.* Coaker's Walk, *b.* Pillar Rocks, *c.* Prospect Point, *d.* Vembadi Shola Peak, *e.* Dolphin's Nose. Then 4. the Solar Observatory.

There are a number of boarding houses, and fully furnished flats can also be rented. Kodaikanal is reached from Kodaikanal Road railway junction on the Southern Railway *via* Tiruchirapalli. Kodaikanal town is 50 miles from the railway station and the journey can be done by car, taxi or bus on a very good motoring road.

Konarak or Konark : place in Orissa, famous as the site of the Temple of the Sun God otherwise called the Black Pagoda. It is remarkable both as an example of ancient Indian architecture and sculpture and of engineering skill. A great part of the temple is destroyed but on the porch stand the huge figures of warriors and life-sized pieces of horses and elephants and the famous carved wheels at the basement. The image of the sun in the yard of the Puri Temple is generally supposed to have come from Konarak. Konarak is about 50 miles from Puri by bus or taxi, 40 miles from Bhuvaneshwar by bus or taxi. The road is open from November to May.

Kolar : in Mysore, is the site of the famous gold fields. Pop. 159,034 (1951).

Kotagiri : A hill station on the Nilgiris, higher than Coonoor, but lower than Ootacamund, is smaller and quieter than either. It is about 6,500 feet above sea-level and has a mean day temperature of 62 degrees. The town has electricity, a number of shops and boarding houses, a local board hospital and golf course. Kotagiri is reached from Coonoor or Ootacamund by car or bus. The roads are excellent and there is a regular bus service. Between Kotagiri and Ootacamund the road goes over Dodda-betta the highest peak in the Nilgiri Hills (Madras State).

Kulu Valley : well-known for the variety of its scenery and places of historical interest is situated in the Punjab, north of Simla. It is ideal for hiking and trout fishing. The important part of the valley from the tourist's point of view is the road which runs from Pathankot or Nagrota the rail-heads into the valley. A few miles beyond Pathankot the road passes through the rich cultivation of the Kangra Valley and the extensive tea gardens surrounding Palampur and Baijnath. The traveller has a view of the majestic snow-capped mountains of the Dhaula Dhar range standing out in bold relief against the sky-line. He also comes across the ancient temples of Baijnath. Beyond Aut after Mandi the valley opens out and the final stretch through the lovely Kulu Valley mainly along the left bank of the river Beas offers an entirely different type of scenic effect. The Kulu Valley is also called the 'Valley of the Gods' as in addition to several important deities like Raghunathji at Sultanpur and Jamlu of Malana every village has its own particular God. The best season is from March to May and September to November. The summer is never uncomfortably hot. The main centres of the Kulu Valley are : 1. Kulu or Sultanpur, the principal town, about 4,000 feet above sea-level. It is the main shopping centre and has a dak bungalow, and a number of rest-houses. 2. Raison, 8 miles from Sultanpur and 4,700 feet above sea-level. The available sports are golf, tennis and swimming. Mayflower and the Shacks are two hotels. 3. Katrain, is in the widest part of the Valley, 12 miles from Sultanpur and 4,800 feet above sea-level. 4. Naggar, summer headquarters, is 5,800 feet above sea-level. There is a departmental rest-house and a serai. 5. Manali, the head of the valley and terminus of the motor road, is 23 miles from Sultanpur and is situated amid typical Alpine scenery. Accommodation for visitors is available at Sunshine Orchards, Departmental rest houses and Mission Hospital. Except Manali, the road to which may be occasionally closed owing to snowfall the rest of the valley is open throughout the year. Pathankot is the rail-head for Kulu. From Pathankot Kulu is reached by bus or car, or from Pathankot to Nagrota by metre-gauge railway and from there by bus to Kulu.

Kumaon Hills : in U.P. form part of the Himalayas and are known as the sportsman's paradise. Two important summer resorts are Nainital and Ranikhet. Most mountaineering parties establish their base at Ranikhet for ascent to the Pindari Glacier.

Tiger shooting is available in the Terai and Bhabhar Forests in the Kumaon region.

Lansdowne : in U.P. in Garhwal about half way between Mussoorie and Nainital.

Lonavla : in Bombay State, lies in the heart of the Western Ghats and is known for the Karla Caves —6 miles from Lonavla by car.

Lucknow : the city of gardens is the capital of U.P. It is full of places of historical interest and of architectural beauty and is generally regarded as the cultural capital of Moghul India. It is well-known for its pottery, copper and brass ware, wood and ivory carvings and gold and silver embroidery on cloth. Legend connects the founding of the city with Laxmana, the brother of Rama, the mythical hero of the Hindus, and is sometimes called Laxmanpur. Pop. 496,861 (1951). The chief means of conveyance are tongas, ekkas, phaetons and taxis. *Places worth a visit :* 1. Great Imambara, 2. Small Imambara, 3. tombs of Wajid Ali Shah and his Begum, 4. Kaiser Bagh Palace, 5. Chattar Manzil, 6. Dilkhusha Palace, 7. Moti Mahal, 8. Machi Bhavan Palace, 9. Jumma Masjid, 10. Charbagh, 11. Alambagh, 12. Sikander Bagh, 13. Musa Bagh, 14. Wingfield Park, 15. Residency, 16. Havelock's Tomb, 17. Clock Tower, 18. Museum, 19. Observatory, 20. Iron Bridge. Lucknow is a big junction on the Northern Railway.

Madras : the third largest city in the subcontinent and the capital of Madras State. It is the place where the English first settled to trade. Pop. 1,416,056 (1951 census). The chief means of conveyance are rickshaws, jutkas, horse carriages, taxis and buses. *Places worth a visit :* 1. Fort St. George (contains the oldest Protestant church in the country where Clive was married), 2. High Court, 3. Light House, from the top of which one can get a panoramic view of the city, 4. Marina. The Marina is one of the most beautiful promenades in the world; sea-bathing is possible at certain points, 5. The Museum, 6. Connemara Library, 7. the Zoo, 8. the Observatory, 9. Moore Market, 10. Parthasarathy Temple, 11. Mylapore Tank and Kapaleshwar Temple, 12. St. George's Cathedral, 13. St. Thomas Mount, 14. Race Course, 15. Buckingham and Carnatic Mill, 16. Madras Pencil Factory and 17. Adyar, where the headquarters of the Theosophical Society are located. There are two places round about Madras which are also worth a visit: 1. the ruins of the Gingee Fort famous in the days of the Vijayanagar Empire are about 95 miles from Madras and can be reached by rail and road, 2. the seven Pagodas of Mahabalipuram are 53 miles by road from Madras and can also be reached by road from Chingleput Railway Junction. Kalakshetra is a well-known institution for music, dance and drama at Adyar.

Madurai : the second biggest city in Madras State is a great religious centre, containing as it does a number of famous temples. In the old days it was the capital of the Pandya kingdom and has always been a seat of Hindu culture particularly Hindu architecture. The silk-weaving and textile industries of Madurai are also noteworthy. *Places worth a visit :* 1. The Great Temple, actually made up of two temples one of Meenakshi and the other of Shiva. Adjoining the temple are *a.* Nandi Hall, *b.* temple of the Saints, *c.* the Jewel House, *d.* the Stable Houses. Then there is 2. Tirumal Nayak's Palace. Pop. 361,781 (1951).

Mahabaleshwar : a hill station in Bombay State, the season being April and May. It is 4,500 feet above sea-level and is noted for its bracing climate. It is also well-known for its fruit and vegetables, orchids and lilies which bloom in April and May. The chief recreations are hiking and driving in a car. Among the sports which are available are tennis, golf and polo. *Places worth a visit :* 1. The two Government Houses old and new, 2. Reay Garden and 3. the two temples Krishna and Mahabaleshwar. Then there are a number of points from which magnificent views can be obtained, like Arthur Seat Point, Baghdad Point, Castle Rock, Carnac Point, Connaught Point, Falkland Point, Elphinstone Point, Margney and Lardwick Point and Bombay Point. Then there are the waterfalls like Chinaman's Waterfall, Dhobi Waterfall, Lingmala Waterfall and a lake called Yenna Lake. The places of historical interest are all connected with the name of the Mahratha leader Shivaji such as Kamalgarh Fort, Makrandgarh Fort, Pandavgarh Fort, Pratapgarh Fort and Raigarh Fort. Near Pratapgarh are the Bhavani Temple and the tomb of Afzulkhan. All these places are accessible by road from Mahabaleshwar.

Mahabaleshwar can be reached from Poona both by road and railway. By railway one can go as far as Wathar Station from where Mahabaleshwar is only about half-an-hour's journey by road.

Mandu : in Madhya Pradesh is one of the greatest mediaeval city sites in India with extensive remains including fortifications and palaces. Seventy-eight miles west of Mandu by road *via* Dhar is Bagh which has a large number of caves adorned with fine old frescoes.

Matheran : the nearest hill station to Bombay is 2,650 feet above sea-level, and is famous for the magnificent views which it yields. The town looks on to the sea, and the coastal plain rises imperceptibly until it reaches the steep ascent of the Ghats. In his walk round the eighteen-mile circumference of the hill the visitor can reach no fewer than thirty-three points of which the following deserve mention: 1. Garbut Point, 2. Panorama Point, 3. Porcupine Point, 4. Louisa Point, 5. Chowk Point, 6. Alexandra Point, 7. Belvedere Point, 8. Echo Point, 9. Monkey Point. At every one of these points the visitor will find comfortable seats, shady trees and fine views. Among other places which are worth a visit are : 1. Charlotte Lake, 2. Paymaster Park, 3. Band-stand, 4. Castle Hill Tower, 5. Race Course. The chief recreations are walking and riding. Rickshaws, munchils and horses are the chief means of conveyance.

Matheran is reached from Neral Station on the main line between Bombay and Poona. From Neral there is a light railway to Matheran which is about one-and-a-half-hour's journey. Alternatively one can do the journey by rickshaw or pony by previous engagement at Matheran.

Mathura : in U.P. is an important place of pilgrimage for Hindus, because of its associations with Shri Krishna. It has also an archaeological museum. Six miles from Mathura is Brindavan. Pop. 98,552 (1951).

Mussoorie : A hill station in U.P. lies 18 miles to the north of Dehra Dun. It is 6,580 feet above sea-level. The town has excellent water-supply, electric lighting system, hospitals, nursing homes and some of the best schools in India both for boys and girls. There are also plenty of sports

and amusements. And like every Himalayan hill station one can obtain magnificent views of mountain tops and green river valleys. Hiking and going on excursion or picnic are among the main recreations. The means of conveyance are rickshaws, ponies, dandis, buses and cars. *Places worth a visit:* 1. The falls like *a.* Bhatta Falls, *b.* Kamptee Falls, *c.* Hearsay Falls, *d.* Mossy Falls. 2. Wimper's Tank, 3. Bandstand. Mussoorie is reached from Dehra Dun by car or bus and is about two hours' journey.

Mysore (State) : commemorates the destruction of Mahishasur, the demon by Chamundi who is the tutelary goddess of the royal family of Mysore. Mysore is a picturesque land of forest and mountain presenting the most diversified and beautiful scenery. In the southern forests are found wild elephants for the capture of which khedda operations are undertaken from time to time. Tigers, leopards, bears and bisons are also numerous. *Places worth a visit in Mysore State:* 1. The Chenna Kesava Temple at Belur, 24 miles from Hassan, 2. Sivasamudram Falls on the Cavery River, 3. Hoysaleswara Temple at Halebid, 4. Gersoppa Falls also called the Jog Falls on the Shiravati River, the most famous beauty spot in Mysore. The falls are higher than Niagara, 5. Kolar Gold Fields, the biggest in India worked by electric power, 6. Nandidurg, a hill station near Bangalore, and the summer residence of Tippu Sultan, 7. Srirangapatnam of historical and religious interest as the capital of Tippu and as the city of many temples, 8. Shravanabelgola, the great Jain religious centre with the huge statue of Gomateshwara and of course the city of Bangalore and the town of Mysore.

Mysore (City) : second city in the State, is built in accordance with modern standards, and contains a number of beautiful public buildings. It attracts great crowds twice a year when the city wears a gala appearance. These two occasions are the Maharaja's birthday and the Dasarrah. *Places worth a visit:* 1. The various palaces (and also stables) like the Maharaja's Palace, Jaganmohan Palace and so on, 2. Chamundi Hill, with the Bull and the Temple, 3. Zoological Gardens, 4. Silk Factory, 5. Sandalwood Factory, 6. Krishnarajasagar Dam and the Brindavan Gardens, among the most beautiful in the world, about 12 miles from Mysore. The chief means of conveyance are jutkas, coaches, and taxis. Mysore is one of the terminli of the Southern Railway. Pop. 244,323 (1951).

Naini Tal : hill station and summer capital of the U.P. Government, is about 6,350 feet above sea-level. Among the principal recreations are hiking, boating and yatching on the lake around which the town stands, and fishing and riding. One can also enjoy the Himalayan mountain scenery. *Places worth a visit:* 1. Cheena Peak, 2. Land's End, 3. Lariya Kanta Peak, 4. Sher-ka-Danda Peak, 5. Tiffin Top or Dorothy Seat, 6. Camel's Peak or Deopatta Peak. Naini Tal is reached from Kathgodam railway station which is connected with Bareilly and Mathura. From Kathgodam one goes by bus or car to Naini Tal which is 22 miles away.

Nalanda : in Bihar contains a group of ruined Buddhist temples and monasteries and a small local museum. It was the seat of an ancient Buddhist university.

Nasik : in Bombay State, is a place of pilgrimage for Hindus and is famous for Buddhist rock-cut temples of the first century B.C. and later. Pop. 97,042 (1951).

Ootacamund : hill station and summer capital of Madras State, stands 7,500 feet above sea-level on the Nilgiris. It is sometimes called 'the Queen of the hill stations.' One of the main features which distinguishes it from other hill stations is the number and length of motorable roads which go winding in and out of spacious parks or long stretches of turf studded with ornamental trees. The mean temperature for the year is 57.33°; during the winter the thermometer touches freezing point. Ootacamund is called the sportsman's paradise : plenty of fishing and big game shooting being available. There is also golf and tennis and during the season races and tournaments are held. *Places worth a visit:* 1. Botanical Gardens, 2. Race Course, 3. Assembly Room, 4. Dodda Betta, the highest peak in the Nilgiris, and 5. Pykara Hydro-Electric Dam which is about 18 miles from Ootacamund. The chief means of conveyance are jutkas, rickshaws and taxis. Ootacamund is the terminus of the Nilgiri mountain railway. Pop. 41,370 (1951).

Pachmarhi : hill station, was summer capital of Madhya Pradesh lies on the Mahadeo hills of the Satpura Range and is about 3,500 feet above sea-level. There are about 20 golf links in the town and plenty of game is also available in the Pipariya forest. *Places worth a visit:* 1. Bee Dam, 2. Mahadeo Caves, 3. Dhupgarh, highest point in the Satpuras, 4. Dorothy Deep Falls, 5. Duchess Falls, 6. Lansdowne Hill, 7. Nilphur springs, 8. Waters Meet, 9. Big Falls, 10. Pansy Pool, 11. Twipram Pool, 12. Saunder's Pool, 13. Pandava Caves. Pachmarhi is reached from Pipariya Station on the main Central Railway line from Bombay to Jabalpur. From Pipariya, Pachmarhi is 32 miles and the journey can be done by bus or car.

There are facilities for swimming, trekking and riding.

Padmanabhapuram : in Kerala, is the ancient capital of the former Travancore State. *Place worth a visit:* Palace.

Pahalgam : in Kashmir in the lap of the Lidder Valley is situated 60 miles from Srinagar and is famous for its camping sites, and as a base for the Amarnath Cave and Kolahoi glacier.

Palitana : in Bombay, is famous for its holy hill Shatrunjaya (see separate note) and its Jain temples. Pop 24,097.

Patna : capital of Bihar, stands on the site of the ancient city of Pataliputra. Pop. 283,479 (1951).

Poona : in Bombay State has many old palaces and parks and one of the best race courses in India. *Places worth a visit are :* the National Chemical Laboratory, the Defence Academy and the Central Water and Power Research Station at Khadakvasla. Pop. 480,982 (1951).

Porbandar : in Bombay, is the birth-place of Mahatma Gandhi and an attractive summer resort. Pop. 58,824 (1951).

Prabhas Patan : in Bombay, is the site of the famous Somnath Temple, whose idol was reinstated in May 1951.

Puri : famous for the Jagannath Temple, is a coastal town in the State of Orissa and is the State's summer resort. The car festival when an image of Jagannath is taken in procession in a huge rath is an event of India-wide importance. The temple has a black marble pillar in front and a 24-feet high stone wall all round. There are four entrances. The presiding deities are Krishna, Balaram and their sister Subhadra. Besides the Jagannath Temple other places worth a visit are the monastic establishments (maths). Fifty miles from Puri is Konarak, famous for the Sun Temple. Pop. 49,057 (1951).

Rameshwaram : This holy town in Madras State is built on an island in the Palk Straits. It contains one of India's most venerated temples, perhaps the finest example of South Indian architecture. It is in the form of a quadrangular enclosure 650 ft. by 1,000 ft. The temple is renowned for its vast pillared corridors nearly 4,000 ft. long.

Ranchi : hill station and summer resort of Bihar, noted for its picturesque scenery and fine roads. Pop. 106,849 (1951).

Ranikhet : is a hill station in U.P. on the Kumaon Hills. Most mountaineering parties establish their bases at Ranikhet.

Sanchi : small village in Madhya Pradesh, famous for the Buddhist stupa which is the largest and the best preserved in India. The stupa is built with sand stone and is about 103 feet in diameter and 42 feet high. The sculpture is remarkable in that there is no anthropomorphic figure of Buddha. The most striking features of the Stupa are the four gates which are profusely carved with scenes from the Jataka stories. Sanchi is on the main Central Rly. line between Bombay and Delhi. There is a State-owned dak bungalow at the place where lodging and boarding are available by previous arrangement.

Santiniketan : in West Bengal, is the home of the famous Visva Bharati, the international university founded by Tagore. *Places worth a visit are :* Rabindra Bhavan (the poet's residence) where his personal belongings, manuscripts, etc. are on display and the poet's mud hut where he wrote many of his famous books.

The place is 91 miles from Calcutta on the Eastern Railway and 2 miles from Bolpur Station.

Sasaram : in Bihar is famous for the magnificent tomb of Sher Shah, Emperor of Delhi. Pop. 29,265 (1951).

Seringapatam : or Srirangapatna in Mysore State, 9 miles by road from Mysore city is the ancient capital of Tippu Sultan. It has the Sultan's fort, mosque and palaces.

Sevagram : in Bombay State, is the village where Mahatma Gandhi founded his ashram.

Shatrunjaya Hills.—Shatrunjaya, near Palitana in Bombay, is also known to the Jains as Siddhagiri or Siddhachala or the Hill of the Perfected Ones. It is the most sacred place (*tirtha*) of Shvetambara Jains. There are a great number of temples in groups on *touks* or summits. The most important one is the *touk* of Adishvara Bhagavan. The ancient image, consecrated by the prophet's son, Batubal, has been replaced. This is perhaps the most holy site within the most sacred precincts of the Shatrunjaya Hills. At this place a large number of saints are said to have attained *Nirvana*. A number of inscriptions have been found here, which have been utilised towards writing the history of Western India and the history of the different schools of Jainism.

Shillong : is the headquarters of the Assam Government. Thirty-six miles from here is Cherrapunji, the wettest place in the world. Pop. 53,756 (1951).

Shivpuri : also known as Sipri is in Madhya Pradesh, 72 miles from Gwalior. It is an interesting tourist resort with good hunting and boating possibilities. Pop. 21,887 (1951).

Simla : the former summer capital of the Government of India and the Government of the Punjab, it is situated on a spur of the Himalayas at a height of 7,200 feet. Among the recreations of the place are hiking, riding and shooting. The roads are excellent. *Places worth a visit :* 1. President's House, 2. Race Course, 3. Jakko Hill, 4. Observatory Hill, 5. Prospect Hill, and 6. Mashobra-Mahasu, seven miles away. There is a very good road into the interior and hikers to Narkanda, Kotgarh, Rampur and Bushahr can lodge in rest-houses that line the road. There is also a motor bus service on this road and holiday-makers who leave in the morning can be back in Simla by evening. The trek route to Kulu commences at Narkanda. Simla is also well provided with a number of excellent schools. The chief means of conveyance are rickshaws and horses.

Simla is now the capital of Himachal Pradesh.

Simla is reached from Delhi *vis* Kalka on the Delhi-Ambala line. From Kalka there is a mountain railway upto Simla. At Kalka motor cars are available for those who prefer to travel by road, the journey taking 3½ hours. For cheaper travel there are buses which regularly run between Kalka and Simla. All through the scenery is superb, with mountain peaks or luxuriant foliage. Pop. 46,150 (1951).

Somnath : see under Prabhas Patan.

Sravanabelgola : in Mysore State, is noted for its Jain temples and the colossal statue of Gomatesvara which is 60 ft. high, the tallest known monolithic statue in the world erected in 983 A.D.

Srirangam : an island on the Cavery, two miles north of Tiruchirapalli (Trichinopoly), contains the largest temple in South India. The temple is consecrated to Ranganath (Vishnu) and contains a hall of 1,000 columns. Changes were made from the 9th to the 16th centuries and inscriptions of Chola, Pandya, Hoysasla and Vijayanagar are all found on it. The north gopuram is 152 feet high. Pop. 36,702 (1951).

Tanjore : in the delta of the Cavery river in Madras State is noted for its temples and palaces. It was the capital of the Cholas under whom it grew in name and fame as a great centre of culture. *Places worth a visit :* 1. the temple of Brihadishvara built by Raja-Raja the great, 2. Naik's Court, 3. Mahratha Court (the two together are often called the Palace in Tanjore), 4. Nandi, the Bull. The chief means of conveyance are jutkas and taxis. There are also good dak bungalows. Tanjore is reached from Madras by the Southern Railway. Pop. 100,680.

Tiruchirapalli (Trichinopoly) : the third largest city in Madras State is situated on the Cavery. It is a very ancient city and was the strategic capital of the Chola and Naik kings. Tiruchirapalli is also known as the Kashi of the South. It is now a great educational centre. *Places worth a visit :* 1. the Rock and the temple on the Rock, 2. the two huge masses of granite known as the Golden Rock and Fakir Rock, 3. the Jambukeshwar Temple, two miles north of Trichinopoly dedicated to Appulinga or Siva. Pop. 218,921 (1951).

Travancore : (now constituent part of Kerala State) : the most beautiful and fertile region in all southern India has many charms to offer the traveller within its domains. It has scenery ranging from a countryside of lakes, creeks and canals, to low hills, undulating land, rice fields and forests of cocoanut and areca palms, with a heavy undergrowth of pepper vines and tapioca.

It has also a wonderful highland zone with mountains touching heights of from 5,000 feet to over 8,000 feet, and hills covered with the densest of virgin forest, the home of great herds of wild elephants and bison, tiger, bear, black panther and wild boar, and where lies the lovely Periyar Lake over which one may cruise in comfort and see wild life in its natural habitat.

Trivandrum, the capital of Kerala, is accessible by well-kept roads and railway, and is also now connected by air with Bombay, Madras and Colombo.

Places worth a visit : 1. the Palaces, 2. Museum, 3. Picture Gallery, 4. Zoo, 5. Aquarium.

About seven miles south of Trivandrum is Kovalam, a pleasant seaside resort with good facilities for bathing.

Cape Comorin* (Kanya Kumari), the Lands End of India, is the southernmost point of the Union where the sunrise and sunset are magnificent sights. It is a sacred spot to Hindus and a place of pilgrimage as the reputed abode of Kanyakumari, the virgin Goddess to whom the temple there is dedicated.

North of Trivandrum is the ancient town of Quilon and to the north of this again, a pleasant trip by boat along delightful backwaters or by car along a good motor road, is the busy seaport of Alleppey.

Trivandrum : See under Travancore.

Udaipur : in Rajasthan, is a city of lakes with island palaces. Seventy miles from Udaipur is Chittorgarh, the abandoned capital of Mewar, famous for its Tower of Victory. Pop. 89,621 (1951).

Ujjain : in Madhya Pradesh, is one of the seven cities sacred to the Hindus. Pop. 129,817 (1951).

HOTELS

Here is a list of first-class Western style hotels :

AGRA
HOTEL IMPERIAL : 12, Mahatma Gandhi Road ; LAURIE'S HOTEL : Mahatma Gandhi Road.

AHMEDABAD
RITZ HOTEL : Kanpur Road. Also Circuit House.

ALLAHABAD
BARNETT'S HOTEL : 14, Canning Road, Civil Lines ; ROYAL HOTEL : 24, South Road, Civil Lines.

ALWAR
CIRCUIT HOUSE.

AMBALA CANTT.
CECIL HOTEL : Staff Road ; PARRY'S HOTEL : Staff Road.

AMRITSAR
AMRITSAR HOTEL : Albert Road ; IMPERIAL HOTEL : Queen's Road.

AURANGABAD
AURANGABAD HOTEL : Aurangabad.

BANARAS CANTT.
CLARK'S HOTEL : Mall Road ; HOTEL DE PARIS : 15, The Mall.

BANGALORE
CENTRAL HOTEL, Bangalore 1. HOTEL EMBASSY : 40C, Infantry Road ; LOBO'S HOTEL : Cubbon Road and Infantry Road ; SHILTON HOTEL : St. Mark's Road ; WEST END HOTEL : Opp. Race course.

BARODA
BARODA HOTEL : Race Course Road.

BIKANER
CIRCUIT HOUSE : Outside Public Park.

BOMBAY
AIR LINES HOTEL : Churchgate Reclamation ; AMBASSADOR HOTEL : Churchgate Extension ; GRAND HOTEL (BOMBAY) LTD. : Ballard Estate ; GREEN'S HOTEL AND RESTAURANT : Lansdowne Road, Apollo Bunder ; SEA GREEN HOTEL : Marine Drive ; TAJ MAHAL HOTEL : Strand Road, Apollo Bunder ; ASTORIA HOTEL : Churchgate Reclamation ; RITZ HOTEL : Churchgate Reclamation, Fort ; WEST END HOTEL : 45, Marine Lines ; HOTEL WALDORF : 16, Arthur Bunder Road.

BUNDI
CIRCUIT HOUSE.

CALCUTTA
GRAND HOTEL : 15/16, Chowringhee Road.
GREAT EASTERN HOTEL : 1-3, Old Court House Street.
SPENCES HOTEL, LTD. : 4, Wellesley Place.

CAPE COMORIN
HOTEL CAPE.

CHANDIGARH
MOUNT VIEW HOTEL : Section No. 19.

CHATTARPUR
CIRCUIT HOUSE : For tourists going to Khajuraho. For reservation the Deputy Commissioner is to be contacted.

COCHIN HARBOUR (Willingdon Island).
MALABAR HOTEL : Willingdon Island.

COONOOR (Nilgiri Hills).
HAMPTON HOTEL ; HILL GROVE HOTEL.

DALHOUSIE
DALHOUSIE CLUB CHAMBERS : Near the motor terminus ; GRAND VIEW HOTEL : Near the bus stand ; HOTEL METRO : Charing Cross.

DARJEELING
BELLEVUE HOTEL : Chourasta ; HOTEL MOUNT EVEREST : Gandhi Road ; WINDAMERE HOTEL : Observatory Hill.

DEHRA DUN
HOTEL WHITE HOUSE : 15-A, Lytton Road, Civil Lines.

DELHI
ASHOKA HOTELS : Diplomatic Enclave, New Delhi.
CLARIDGE'S HOTEL : 12, Aurangzeb Road.
GRAND HOTEL : 2, Underhill Road, Civil Lines ; HOTEL AMBASSADOR : Sujan Singh Park, New Delhi ; HOTEL CECIL : Civil Lines ; AIR LINES HOTEL : Opposite New Delhi Railway Station.
HOTEL BROADWAY : Asaf Ali Road, D.A.G. Extension.
HOTEL IMPERIAL : Queensway, New Delhi.
HOTEL JANPATH : New Delhi.
HOTEL MARINA : Connaught Circus, New Delhi.
MAIDEN'S HOTEL : Civil Lines, Alipore Road.
SWISS HOTEL : 2, Alipore Road.

DEOLALI
CORONATION HOTEL : Lam Road ; RUGBY HOTEL : Rest Camp Road.

GOPALPUR-ON-SEA P.O. Gopalpur (Ganjam) :
PALM BEACH HOTEL.

GULMARG (Kashmir).
GOLF VIEW HOTEL : Upper Golf Course ; NEDOU'S HOTEL.

GWALIOR
GWALIOR HOTEL & STATE HOUSE : Opposite Railway Station.

HYDERABAD
RITZ HOTEL : Hill Fort Palace, Hyderabad.
ROCK CASTLE HOTEL : Jubilee Hills.

INDORE
INDORE HOTEL : South Tukoganj ; LANTERN HOTEL : North Tukoganj.

JABALPUR
JACKSON'S HOTEL : Civil Lines.

JAIPUR
JAI MAHAL PALACE : Civil Lines ; Khetri House.
KAISER-I-HIND HOTEL.
NEW HOTEL : Ajmer Road, Civil Lines ; CIRCUIT HOUSE : Station Road.

JODHPUR
Circuit HOUSE.

KANPUR
BERKELEY HOUSE : 16/11, Civil Lines.

KATRAIN (Kulu-Punjab)
RIVERVIEW GUEST HOUSE.

KHAJURAHO (Madhya Pradesh)
CIRCUIT HOUSE.

KHANDALA
KHANDALA HOTEL : Near the Railway Station.

KODAIKANAL
CARLTON HOTEL : Lake Road ; HOLIDAY HOME : Near the Golf Club.

KOTAH
CIRCUIT HOUSE : Civil Lines.

KRISHNARAJ SAGAR
HOTEL KRISHNARAJ SAGAR : Krishnaraj Sagar P.O.

LUCKNOW
CARLTON HOTEL, LTD. : Shahnajaf Road.

LUDHIANA
WINDSOR HOTEL & RESTAURANT : Near Clock Tower.

MADRAS
AMBASSADOR HOTEL : 151, Mount Road ; CONNEMARA HOTEL : Binny's Road ; HOTEL OCEANIC : 93, San Thome High Road ; HOTEL DASAPRAKASH : Poonamallee High Road.
AIRLINES HOTELS : 177-179 Mount Road.

MAHABALESHWAR
FREDERICK HOTEL : Poona-Mewar Road ; RACE VIEW HOTEL : Cussum Sajan Hill.

MANALI (Kulu-Punjab)
SUNSHINE ORCHARDS GUEST HOUSE.

MATHERAN
LORD'S HOTEL : Mahatma Gandhi Road ; RUGBY HOTEL : Vithalrao Kotwal Road.

* Now in Madras State.

MOUNT ABU
HOTEL JODHPUR.
MOUNT HOTEL: Near Telephone Exchange.

MUSSOORIE
CHARLEVILLE HOTEL; HAKMAN'S GRAND HOTEL; SAVOY HOTEL.

MYSORE
CARLTON HOTEL: Dee's Road; HOTEL METROPOLE: Viceroy Road.

NAGPUR
MOUNT HOTEL: Commercial Road, Civil Lines.

NAINI TAL
GRAND HOTEL: The Mall; HOTEL METROPOLE: Near Secretariat; HOTEL WALDORF: The Mall; ROYAL HOTEL: The Mall.

OOTACAMUND
HOTEL CECIL; SAVOY HOTEL.

PAHALGAM
PINE VIEW HOTEL.

PATNA
GRAND HOTEL: Fraser Road; HOTEL REPUBLIC: Lawly's Building, Exhibition Road.

POONA
NAPIER'S HOTEL: 10, Moledina Road, Camp; POONA HOTEL: 4, Connaught Road; WELLESLEY HOTEL: 12-A, Connaught Road.

PURI
SOUTH EASTERN RAILWAY HOTEL: Sea Beach.

RANCHI
EASTERN RAILWAY HOTEL: Opposite Railway Station.

SECUNDERABAD
PERCY'S HOTEL: Sardar Patel Road.

SHILLONG
PEAK HOTEL: Near the Secretariat; PINEWOOD HOTEL: Near Government House.

SIMLA
HOTEL CECIL: The Mall.
CLARKE'S HOTEL: The Mall.

SRINAGAR
OBEROI PALACE HOTEL; NEDOU'S HOTEL: Hotel Road.

THEKADAY (KERALA)
ARANYA NIVAS.

TRIVANDRUM
MASCOT HOTEL.

UDAIPUR
CIRCUIT HOUSE ANAND BHAWAN.

INSPECTION BUNGALOWS, ETC.

The following places have inspection bungalows:

Badami, Bagalkot, Belgaum, Dandeli, Karla, Karwar, Khandala, Mahabaleshwar, Ajanta, Aurangabad, Bagh Caves, Sirsi, Bodh-Gaya, Nalanda, Ajmer, Mathura, Agra, Allahabad, Almorah, Dehra Dun, Haldwani, Lansdowne, Lucknow, Ranikhet, Rishikesh, Amaravati, Chidambaram, Cochin, Hampi, Kancheepuram, Mahabalipuram, Poondi, Periyar Game Sanctuary, Sivasamudram, Tanjore, Tiruchirapalli, Vijayawada, Jog Falls.

The following places have Dak Bungalows:

Baroda, Mount Abu, Aurangabad, Ellora, Bagh Caves, Indore, Ujjain, Imphal, Chamba, Jogindernagar, Kulu Valley, Mandi, Narkanda, Sanchi, Banaras, Bhim, Bikaner, Chhatarpur, Chittorgarh, Dholpur, Dungarpur, Jaisalmer, Ranikhet, Udaipur.

The following places have circuit or rest houses or both:

Ahmedabad, Baroda, Bijapur, Matheran, Bhopal, Sanchi, Aurangabad, Ujjain, Jabalpur, Lonavla, Pachmarhi, Wardha, Gaya, Ajmer, Alwar, Amritsar, Bhopal, Chamba, Khajuraho, Kulu Valley, Mandi, Naldera, Agra, Almorah, Ambala, Banaras, Bhowali, Bikaner, Bundi, Chhatarpur, Dalhousie, Dehra Dun, Delhi, Jaipur, Kalka, Kotah, Kurukshetra, Naini Tal, Nangal Township, Ranikhet, Udaipur, Kanya Kumari, Kodaikanal, Madura, Mettur Dam, Periyar Game Sanctuary, Trivandrum, Vishakapatnam, Alwaye, Kottayam.

The following places have travellers' bungalows: Dandeli, Karwar, Belur, Coimbatore, Coonoor, Courtallam, Halebid, Hassan, Kodaikanal, Kotagiri, Kolar Gold Fields, Mangalore, Tiruchirapalli, Udipi, Vellore, Vishakapatnam.

Other rest places exist at:

Jamnagar (Government Guest House), Khardi (Forest Bungalow), Nasik (Dt. Bungalow, Excise Commissioner's Bungalow), Konarak (P.W.D. Bungalow), Bharatpur (Swagat Bhawan), Bhimtal (Dt. Board Dak Bungalow), Kathgodam (Dt. Board Dak Bungalow), Nilokheri (Guest House), Patiala (Baradari Palace Guest House), Dhanushkodi (Dt. Board Travellers' Bungalow), Ootacamund (Rest House), Rameshwaram (Mahabir Dharmashala), Srivangapatnam (Krishna Murthy Bungalow), Trivandrum (Sachhavotama Chatram).

MUSEUMS, ART GALLERIES

India is rich in museums and art galleries, a list of which is given below:

National Archives of India, New Delhi; Delhi Fort Museum of Archæology, Delhi; Central Asian Antiquities Museum, New Delhi; Archæological Museum, Nalanda; Archæological Museum, Sarnath; Archæological Museum, Nagarjunikonda; Fort St. George Museum, Madras; Rajputana Museum, Ajmer; Indian Museum, Calcutta; Victoria Memorial Hall, Calcutta; State Museum, Bhuvaneshwar (Orissa); State Museum, Lucknow; Government Museum, Madras; Curzon Museum of Archæology, Mathura; Central Museum, Nagpur; Patna Museum, Patna; State Museum, Gauhati (Assam); Palace collection, Aundh; Mysore Government Museum, Bangalore; Baripada Museum, Mayurbhanj (Orissa); Khiching Museum, Mayurbhanj; Baroda State Museum and Picture Gallery, Baroda; Barton Museum, Bhavnagar; Bhuri Singh Museum, Chamba (Himachal Pradesh); Archæological Museum, Himmatnagar (Idar); Archæological Museum, Gwalior; Hyderabad Museum, Hyderabad; Indore Museum, Indore; Albert Museum, Jaipur; Sardar Museum, Jodhpur; Jardine Museum Khajuraho, Chhattarpur; Puddukottai Museum, Puddukottai (Madras); Watson Museum of Antiquities, Rajkot; Museum of Archæology, Sanchi; State Museum, Trichur (Kerala); Government (Napier's) Museum, Trivandrum; Victoria Hall Museum, Udaipur (Rajasthan); Junaghad Museum, Junaghad; Nawanagar Museum, Nawanagar; Prince of Wales Museum of Western India, Bombay; Lord Reay Maharashtra Industrial Museum, Poona; Bharat Kala Bhavan, Banaras (U.P.); St. Xavier's College Museum, Bombay; Museum of Bangiya Sahitya Parisad, Calcutta; Asutosh Museum, Calcutta University, Calcutta; Bharat Itihasa Sansodhak Mandal, Poona; Allahabad Municipal Museum, Allahabad; Victoria Jubilee Museum, Vijayavada; Archæological Museum, Bijapur; Victoria and Albert Museum, Bombay; Raipur Museum, Raipur (Madhya Pradesh).

GOVERNMENT OF INDIA

THE present constitution of India was drawn up by a Constituent Assembly which first met on 9th December 1946. A draft constitution was published in February 1948. The constitution with amendments in the original draft was finally adopted on 26th November, 1949. It came into effect on 26th January 1950.

There have been amendments of the constitution since. A whole Schedule, the Ninth Schedule, was added by an amendment in 1951.

Certain articles were again amended in 1956 before the reorganization of the States was effected towards the end of that year.

India, that is, Bharat is a sovereign democratic republic.

STATES

The Republic of India, also called the Union of India, the Indian Union, is made up of 20 States.

Of these 13 are designated Part 'A' States, one Part 'B' State and six Part 'C' Territories.

The 13 Part A States with their capitals given in brackets are:

Andhra Pradesh (Hyderabad); Assam (Shillong); Bihar (Patna); Bombay (Bombay); Kerala (Trivandrum); Madhya Pradesh (Bhopal); Madras (Madras); Mysore (Bangalore); Orissa (Bhubaneshwar); Punjab (Chandigarh); Rajasthan (Jaipur); Uttar Pradesh (Lucknow); West Bengal (Calcutta).

The one Part B State with its capital in brackets:

Jammu and Kashmir (Srinagar).

The 6 part C Territories with their capitals in brackets are:

Delhi (Delhi); Himachal Pradesh (Simla); Manipur (Imphal); Tripura (Agartala); Laccadive, Minicoy and Amindivi Islands (Kozhikode, provisional headquarters); Andaman and Nicobar Islands (Port Blair).

The States are administered by State Governments, the Territories by the Central Government.

The one Part B State, Kashmir, is in a unique position. It enjoys rather more power than a Part A State (see under Jammu and Kashmir). It has a flag of its own.

In addition to the States and Territories mentioned above there are two administrative units—the North-East Frontier Agency, called NEFA for short, and the Naga Administrative Unit.

Both these units are administered by the Governor of Assam as agent of the Central Government.

CONSTITUTION

The constitution of India is quasi-federal in nature.

The distribution of power between the Centre and the local administrations follows the accepted principle that subjects which for convenience and efficiency ought to be administered on an all-India basis are vested in the Union Government, while others (of the nation-building sort) which can be conveniently administered on a local basis are vested in the State Governments.

Thus, defence, foreign affairs, transport and communications, currency and coinage, banking, customs and export duties, and the administration of justice at the higher level are all Central subjects, while State powers include those over police, public health, education, agriculture, forests and so on.

There is a third group of subjects that fall betwixt and between such as economic and social planning, social security and insurance, labour welfare, price control and vital statistics. On these subjects both the Centre and the State can freely legislate, it being understood that whenever there is conflict between Union and State legislation the Union laws shall prevail.

Three detailed lists of subjects are drawn up, the Union List, the State List and the Concurrent List, and the residuary power rests with the Union. That is to say, if at any time a subject which does not figure in any of the three lists, comes up for consideration the power of dealing with it lies with the Union Government.

It may be added that the Union List has 97 entries, the State List 66 and the Concurrent List 47.

Thus the constitution of India is a quasi-federation in which the Centre is the dominating partner. The Union Government controls the State Governments in certain matters. The Union has also the power to confer additional powers on the States.

Provision is made for removing differences between the various States by empowering the President to establish an Inter-State Council.

FUNDAMENTAL RIGHTS

In the Indian Union the rights of Indian citizenship are given to 1. One who is born in India, 2. Either of whose parents were born in India, and 3. Who has been a resident of India for five years. Provision is also made for persons who are affected by the partition of the sub-continent.

Details were filled in by the Citizenship Act of 1955 which also provides for the termination and deprivation of citizenship under certain conditions. The Act also empowers Government to extend the rights of citizenship to any country in the Commonwealth and the Republic of Ireland on a reciprocal basis.

Certain fundamental rights are guaranteed to every citizen for the first time. All citizens are equal before the law and no discrimination is made on grounds of religion, sex, caste, etc. All citizens have equal opportunities.

Freedom of speech and expression is guaranteed, and the right to hold meetings (without arms), to form unions and associations, to move freely in India and to reside in any part, to acquire property and to practise any profession are also assured under the Constitution.

Life and personal liberty are protected under the law, and there will not be punishment for the same offence more than once. Preventive detention is also forbidden except in certain cases.

Children under the age of 14 will not be allowed to be employed in factories and forced labour like *begar* is prohibited.

India is a secular State and as such there is freedom of conscience. Citizens are allowed to profess, practise and propagate any religion; and the State will not ordinarily interfere in religious questions. The minorities are assured of cultural and educational rights.

The State can acquire compulsorily property for public purposes, but compensation may be paid to the owner of the property concerned although questions relating to the quantum of compensation are not justiciable. But property may also be acquired without compensation in certain cases.

All titles, except military or academic, are also abolished, though honours for meritorious service may be conferred.

Untouchability is abolished.

These fundamental rights can be enforced by the Supreme Court which has the authority to issue prerogative writs such as *habeas corpus*, *certiorari*, *prohibition*, etc.

In respect to the Defence Forces, however, Parliament has power to legislate on these fundamental rights.

It must also be pointed out that some of these fundamental rights can be suspended in case of emergency, and the remedies available for their enforcement may also be suspended by an order of the President.

There are also certain Directive Principles in accordance with which the State has to direct its policy. These principles are of a recommendatory character and cannot be enforced in a court of law. However the State is expected to look upon them as a kind of touch-stone for its policy and action.

These principles include organization of village panchayats, provision for just and humane conditions of work, maternity relief, a uniform civil code for the citizens, provision for compulsory and free education of children and separation of judiciary from executive.

UNION EXECUTIVE

The executive head of the Indian Union is the President. He is elected by the elected members of the Houses of Parliament and the Legislative Assemblies of all the States. His term of office is five years, and he is eligible for re-election. Only a person who is a citizen of India and has completed the age of thirty-five years is qualified to contest the election.

He is the Supreme Commander of the Armed Forces.

He has the power to grant pardons or remission of punishment.

The President is entitled to the use of an official residence without payment of rent, and a salary of Rs. 10,000 per month and allowances. Provision has also been made by an Act of Parliament for a pension of Rs. 15,000 per annum.

The President has the power of summoning, proroguing and dissolving Parliament. At the commencement of each session he addresses both Houses of Parliament assembled together. He has the right of sending messages to Parliament and sending back a Bill presented to him for his consent. This power however can be used by him only once.

The President has legislative powers under certain circumstances. When neither of the Houses of Parliament is in session and the President is satisfied that circumstances exist which make immediate action necessary he may promulgate an ordinance.

Such ordinance must be put before both the Houses of Parliament and will cease to operate at the expiration of six weeks from the re-assembly of Parliament.

The President can also declare emergency if he is satisfied that the security of India or any part thereof is threatened either by war or internal disturbances when the legislature is in session. Such a proclamation would give additional powers to the Union executive and the Legislature.

The judges of the Supreme Court and the High Courts, the Attorney-General of India and the Comptroller and Auditor-General of India are all appointed by the President. The heads of the Part A States, *i.e.*, Governors are also appointed by the President.

The President has the power of appointing ambassadors abroad and receiving diplomatic representatives of foreign States.

The President places a number of annual reports before Parliament: the Annual Financial Statement, the report of the Auditor-General of India relating to the accounts of the Government of India, the annual report of the Union Public Services Commission and the report of the Special Officer for Minorities.

All executive action of the Government of India is taken in the name of the President and it is the duty of the Prime Minister to communicate to the President all decisions of the Council of Ministers.

Provision is made for the impeachment of the President, by Parliament, for violation of the Constitution. If such a resolution is passed by a majority of not less than two-thirds of the total membership, such a resolution has the effect of removing the President from office.

In the exercise of his functions, the President has the aid and advice of a Council of Ministers, with the Prime Minister at the head of it. The President appoints the Prime Minister and other Ministers are appointed on the advice of the Prime Minister.

The Council of Ministers is collectively responsible to the Lok Sabha (the Lower House). Every Minister must be a member of either House of Parliament, and he is required to take an oath of office and secrecy.

The salaries and allowances of Ministers are determined by Parliament.

There is a Vice-President of India, who is ex-officio Chairman of the Rajya Sabha (the Upper House). The Vice-President acts as President during a casual vacancy in the office of the President. He is elected by the members of both Houses of Parliament and his term of office is five years.

UNION PARLIAMENT

The Parliament consists of the President and two Houses known as, as already mentioned, the Lok Sabha and the Rajya Sabha. It must meet at least twice a year. The maximum strength of the two Houses is fixed at 250 (12 nominated) for the Rajya Sabha and 520 for the Lok Sabha (not more than 500 from the States and 20 from the Territories).

In April 1957 the Rajya Sabha had a total strength of 232 of which 12 were nominated by the President.

In April 1957 the Lok Sabha had a total strength of 505 of which 11 were nominated.

The Rajya Sabha is elected by the elected members of the Legislative Assemblies of the States, while the Lok Sabha is elected directly by the voters in the country.

In the case of the Part C Union Territories of Himachal Pradesh, Tripura, and Manipur, the Territorial Councils form the electoral colleges for the election of members to the Rajya Sabha from these Territories. The electoral college for the Territory of Delhi consists of persons who were members of the Delhi Legislative Assembly immediately before the 1st November 1956.

The elections to the Lok Sabha are based on adult suffrage and joint electorates. There is no reservation of seats for any group except Scheduled Castes and Scheduled Tribes.

The Rajya Sabha is a permanent body with one-third of its members retiring every second year. The Vice-President of the Union is also the Chairman of the Rajya Sabha. The Rajya Sabha has also a Deputy Chairman.

The Lok Sabha has a duration of five years, ordinarily. There is a Speaker and a Deputy Speaker of the House both of whom are elected by its members.

All these posts carry a salary and allowances.

Under certain circumstances, the members can be disqualified and their seats declared vacant.

Money Bills can be introduced only in the Lok Sabha. The Rajya Sabha can only return a bill with its recommendations to the Lok Sabha within a period of fourteen days of its receipt. Bills passed by Parliament are submitted to the President for his assent. Only on such assent being given does the Bill become law.

The language used in Parliament is either Hindi or English.

The distribution of seats in the Rajya Sabha is as follows:

Andhra Pradesh 18; Assam 7; Bihar 22; Bombay 27; Kerala 9; Madhya Pradesh 16; Madras 17; Mysore 12; Orissa 10; Punjab 11; Rajasthan 10; Uttar Pradesh 34; West Bengal 16; Jammu and Kashmir 4; Delhi 3; Himachal Pradesh 2; Manipur 1; Tripura 1; Total—220.

The allocation of seats in the Lok Sabha is as follows:

Andhra Pradesh 43; Assam 12; Bihar 53; Bombay 66; Kerala 18; Madhya Pradesh 36; Madras 41; Mysore 26; Orissa 20; Punjab 22; Rajasthan 22; Uttar Pradesh 86; West Bengal 36; Jammu and Kashmir 6; Delhi 5; Himachal Pradesh 4; Manipur 2; Tripura 2.

SUPREME COURT

The Supreme Court of India consists of a Chief Justice of India and not more than ten other Judges. The appointments are made by the President. The salary of the Chief Justice is Rs. 5,000 per month and of the other Judges Rs. 4,000 per month.

For purposes of constitutional law the Supreme Court has exclusive original jurisdiction in any dispute (*a*) between the Government of India and one or more States, (*b*) between the Government of India and one or more States on one side and one or more other States on the other, (*c*) between two or more States only in so far as the dispute involves any question on which the existence of a legal right depends.

The Supreme Court has also jurisdiction both appellate and original in matters which involve a substantial question of law as to the interpretation of the constitution.

An Attorney-General for legal advice and a Comptroller and Auditor-General of India for audit and accounts are appointed by the President. The Attorney-General has the right to appear in all courts in India.

STATE GOVERNMENT

The 13 Part A States have Governors at their heads, five Part C Union Territories have Chief Commissioners* at their head, and the Part B State of Kashmir has a Sadar-i-Riyasat (President).

The States and Union Territories are grouped into geographical zones, and for each zone there is a Zonal Council, which is an advisory body.

There are five zones: Northern zone (Punjab, Rajasthan, Kashmir, Delhi and Himachal Pradesh); Central zone (Uttar Pradesh and Madhya Pradesh); Eastern zone (Bihar, West Bengal, Orissa, Assam, Manipur and Tripura); Western zone (Bombay and Mysore); Southern zone (Andhra Pradesh, Madras, and Kerala).

The Councils consist in the main of Ministerial representatives from the Centre and the States composing the Zonal Council. The Zonal Councils will also have advisers drawn from the Planning Commission and the Chief Secretaries and Development Commissioners of the States in the Zone.

The Councils may discuss matters of common interest—and more especially problems arising out of the reorganization of States such as border disputes, linguistic minorities, inter-State transport and also economic or social planning—and advise the Central or State Governments on the action to be taken in such matters.

All questions at meetings will be decided by a majority of the members present.

The proceedings of every meeting of a Zonal Council have to be forwarded to the Central Government and the States Governments concerned.

The Governor of a State is appointed by the President. Executive power is vested in the Governor who is appointed for a term of five years, ordinarily. Only a citizen of India and one who has completed 35 years of age, is eligible for such an appointment.

The Governor, like the President has power to grant pardon, etc. He will have a Council of Ministers to aid and advise him. The Governor also appoints an Advocate-General for the State.

Nine States (Bihar, Bombay, Kashmir, Madhya Pradesh, Madras, Mysore, Punjab, Uttar Pradesh, West Bengal) have two Houses of Legislature; the others only one. The two Houses are called the Legislative Assembly (sometimes Vidhan Sabha) and the Legislative Council. The former has a duration of five years, while the latter is a permanent body with one-third of the members retiring every second year.

The minimum strength of an Assembly is 60 and the maximum 500.

The minimum strength of a Council is 40, and the maximum one-third of the State Assembly.

The Legislature must meet at least twice a year. While the Assembly consists of members who are directly elected from territorial constituencies, the Council consists of members nominated by the Governor, elected by the Assembly and of representatives of local bodies and special interests.

The number of seats in the Legislative Assembly and the Legislative Council is as follows (the first figure shows the number of seats in the Assembly, and the second in the Council):

Andhra Pradesh: 301,—; Assam: 108,—; Bihar: 318, 72; Bombay: 396, 72; Kashmir: 100, 36; Kerala: 126,—; Madhya Pradesh: 288, 72; Madras: 205, 50; Mysore: 208, 52; Orissa: 140,—; Punjab: 154, 40; Rajasthan: 176,—; Uttar Pradesh: 430, 72; West Bengal: 252, 51.

The total number of seats in the Territorial Council of Himachal Pradesh is 41, of Manipur 30 and of Tripura 30.

The right of summoning, proroguing and dissolving the legislature is vested in the Governor, who addresses the legislature at the commencement of each session.

Like the Parliament there is a Speaker, a Deputy Speaker, a Chairman and a Deputy Chairman for the Legislative Assembly and the Legislative Council respectively. These officers of the legislatures are entitled to salary and allowances.

The language in the legislature can be either Hindi or English or any other language allowed by the Speaker.

The State Legislatures cannot discuss the conduct of any judge of the Supreme Court or of a High Court in the discharge of his duties.

As the Governor is a part of the legislature, he has certain legislative powers. He can promulgate ordinances during the recess of the legislature; such ordinances must be placed before the legislature and cease to operate at the expiration of six weeks from the re-assembly of the legislature.

The salary of the Governor is Rs. 5,500 per month and he is also entitled to certain allowances.

If the Government of a State cannot be carried on in accordance with the provisions of the Constitution, and the Governor makes a report to that effect to the President, the President may by proclamation assume to himself all or any of the functions of the Government of the State. He may also declare that the powers of the State legislatures shall be exercised by Parliament, and suspend any provision of the constitution relating to the State.

However, he cannot assume to himself, or suspend any of the provisions of the Constitution relating to High Courts.

UNION TERRITORIES

For the Part C Territory of Delhi there is an Advisory Committee. A Corporation has also been set up.

In accordance with the provisions of the Territorial Councils Act of 1956 three Part C Union Territories namely, Himachal Pradesh, Manipur and Tripura have Territorial Councils.

The Councils are elected directly from territorial constituencies on the basis of adult suffrage. They will deal with local affairs such as education, public health, roads and bridges and transport generally, panchayats, local works, animal husbandry.

* The head of the sixth, Himachal Pradesh, is called Lieutenant-Governor.

A Council will meet at least once in two months. The Administrator of the Territory may attend and address a meeting of the Council. When he attends any such meeting he will preside over it.

For every Territorial Council there will be a chief executive officer appointed by the Administrator. There may also be other staff.

The Council can levy taxes on professions, trades, callings and employments and tolls on bridges and fix school fees. The taxes have to be approved by the Central Government before they become effective.

The Council has the power to borrow money with the approval of the Central Government.

The budget estimates of the Territory will be presented by a Finance Committee of the Council. The budget estimates finally adopted by the Council in the light of the suggestions made by the Administrator shall be the budget of the Territorial Council.

The Central Government may pay to a Territorial Council the net proceeds of the following taxes attributable to the area under the Council's jurisdiction:

Entertainment tax; a certain percentage of the land revenue not exceeding 10; tax on motor vehicles; taxes on passengers, goods, terminal tax.

The Central Government may also make such grants as it thinks fit.

The Administrator will have the right to give directions to the Council in regard to matters connected with education.

The Administrator can also suspend the execution of a resolution or order of the Council or prohibit any action on grounds that it is likely to lead to a breach of the peace or cause annoyance or injury to the public or to any class or body of persons. But in such cases he has to send a report to the Central Government together with explanations offered by the Council. The Central Government may then confirm, modify or rescind the Administrator's order.

The Central Government may on the report of the Administrator supersede a Territorial Council for incompetence, negligence of duty or abuse of power. In such cases a new Council will have to be elected within a period of one year.

The Central Government has the power to make rules for the purpose of carrying out the provisions of the Act, to regulate the conduct of business of the Council; regulate the employment, payment suspension of officers and servants of the Council; the keeping of accounts.

Such rules framed by the Central Government have to be laid before Parliament for not less than thirty days, and have to be approved by it.

Any bye-laws made by the Council in regard to matters over which it has jurisdiction have to be confirmed by the Central Government. These laws are liable to alteration by the latter authority.

On the day the Territorial Council was established all Zilla Panchayats in Himachal Pradesh stood abolished, and the liabilities and assets accrued to the Council.

The strength of the Territorial Council of Himachal Pradesh is 41, of Manipur 30 and of Tripura 30. Of the 41 seats in the Himachal Council 12 are reserved for the Scheduled Castes.

The Central Government has the authority to nominate two persons who are not in the service of Government, to a Territorial Council.

For the Part C Union Territory of Delhi there is established an Advisory Committee which will be associated with the Minister of Home Affairs who is responsible for the administration of Union Territories. This Committee consists of all members of Parliament representing Delhi, the Chief Commissioner of Delhi, The Vice-Chancellor of the University of Delhi, the President of the Delhi Municipal Committee* and the Senior Vice-President of the New Delhi Municipal Committee.

As regards Andaman and Nicobar Islands (Part C Territory), the President makes rules and regulations for the peace and good government of the State, and appoints a Chief Commissioner for administration. The President has the power of making regulations which have the effect of amending or repealing an Act of Parliament.

There is a High Court for each State and a Judicial Commissioners' Court each for the Union Territories of Himachal Pradesh, Manipur and Tripura.

The highest court for Delhi is the District Court. Appeals from here go to the Punjab High Court, a circuit bench of which sits in Delhi. For Andamans, the highest court is the Chief Commissioner's Court. Appeals go to the Calcutta High Court.

NEFA and the Naga Administrative Units are administered by the Governor of Assam, who acts as the agent of the Union Government.

The Governor of Assam has an Adviser for NEFA and an Administrator for the Naga Unit.

FINANCE

The financial relations between the Union and the States are as follows:—There is a Consolidated Fund of India and a Consolidated Fund of each State, and all money received is credited to the public account of India or the public account of the State as the case may be. Provision is also made for the establishment of a 'Contingency Fund of India' and a 'Contingency Fund of the State.'

Certain duties and taxes are levied and collected by the Government of India, such as duties in respect of succession to property, terminal taxes, taxes on railway fares and freights, etc. But the net proceeds are assigned to the States, in accordance with such principles of distribution as formulated by Parliament. Certain other taxes, like income-tax are levied and collected by the Government of India, but are distributed between the Union and the States.

These matters are fixed in accordance with the recommendations of a Finance Commission appointed for the purpose.

No moneys can be appropriated out of the Consolidated Fund of India or of a State except in accordance with an Appropriation Act by the appropriate legislature.

The property of the Union is exempt from the taxes imposed by a State, and the property and income of States are exempt from Union taxation.

The privy purse sums of the Rulers are a charge on the Consolidated Fund of India, and these sums are to be exempt from taxes on income.

There is a Public Service Commission for the Union and also for the States. Two or more States may agree to have only one Commission for the group. Actually, every Part A State has a Public Service Commission at present while the Union Public Service Commission operates for the Part C Union Territories as well. Appointment of members of the Commission are made by the President or the Governor as the case may be. The Commissions conduct examinations for appointments to the services of the Union or the States. The Union Commission submits an annual report to the President.

ELECTIONS

All elections are directed and controlled by an Election Commission. Elections to the Lok Sabha and the Legislative Assemblies of the States are on the basis of adult suffrage. Seats are reserved in the Lok Sabha for the Scheduled Castes and the Scheduled Tribes.

The President may nominate not more than two members of the Anglo-Indian community to the Lok Sabha if he thinks that the community is not adequately represented. Similar power is given to the Governor of a State.

The claims of the Scheduled Castes and the Scheduled Tribes are to be considered in making appointments to services, and for two years after the commencement of the Constitution the Anglo-Indians were to have the same proportion in the services as they had immediately before 15th August 1947. This reservation is to be progressively reduced by 10 per cent every two years in such a way that it is to cease completely ten years after the commencement of the Constitution.

In fact all reservation including reservation of seats for Scheduled and Tribal classes are to cease ten years after the commencement of the Constitution.

A special officer for the Scheduled Castes and the Scheduled Tribes has been appointed.

The Constitution gives a certain amount of autonomy to the tribal areas within the territory of Assam. They are known as the Autonomous Districts where District Councils with certain powers of administration and taxation could be set up. They are a special responsibility of the Government of Assam.

Originally there were three such Districts. After the formation of the Naga Unit in December 1957 there are only two.

OFFICIAL LANGUAGE

Hindi in the Devanagari script is the official language of the Union and the form of numerals is the international form of the Indian numerals. The English language, however, will continue to be the official language for a period of not more than fifteen years from the commencement of the Constitution.

The official language of the Union, *i.e.*, English will be used for communication between the Union and a State or between one State and another. However, if two States agree Hindi may be used instead of English between them.

All proceedings in the Supreme Court and High Courts, the texts of Bills and Acts passed by the legislatures and ordinances promulgated by the appropriate authorities are to be in the English language, until Parliament by law provides otherwise.

By previous consent of the President proceedings in a High Court may be conducted in Hindi or any recognised State language but judgments, decrees or orders passed by the court must be in English.

It is the duty of the Union Government to promote and spread the Hindi language. The vocabulary for the development of the language is to be drawn primarily from Sanskrit.

The States have been given the liberty of adopting any one or more languages used in their territory or Hindi as the official language of the State.

The following languages are recognised by the Constitution: (1) Assamese, (2) Bengali, (3) Gujarati, (4) Hindi, (5) Kannada, (6) Kashmiri, (7) Malayalam, (8) Marathi, (9) Oriya, (10) Punjabi, (11) Sanskrit, (12) Tamil, (13) Telugu, (14) Urdu.

A commission was to be appointed by the President, at the expiration of five years from the commencement of the Constitution, to make recommendations to him, as regards the progressive use of the Hindi language for official purposes of the Union, and other allied matters.

The Commission so appointed has now published a report.

EMERGENCY PROVISIONS

If the President is satisfied that a grave emergency exists, and the security of India or any part thereof is threatened either by war or internal disturbance, he may make a declaration to that effect. Such proclamation must be approved by both the Houses of Parliament, before the expiration of two months, otherwise it ceases to operate at the end of that period. As a result of this proclamation Parliament will be authorised to legislate on items included in the State list and the President, to issue directions to the Governor. Parliament can validate such a proclamation for a period of three years which is the maximum.

* Now superseded by the Corporation.

A request for a declaration of emergency may also come from a State authority.

This, however, would not be applicable to the functions of the High Courts. Somewhat similar provision is also made for financial emergency.

AMENDMENT OF THE CONSTITUTION

For purposes of amendment the items are divided into three classes with a different procedure for each class.

For amendment of the provision with respect to the Supreme Court and the High Courts, the distribution of legislative powers between the Centre and the States, the representation of the States in Parliament, etc., the amendment must be passed by both the Houses of Parliament by a majority of the total membership of the House and by a majority of two-thirds of the members present and voting, and must further be ratified by the legislatures of not less than one-half of the States.

In other cases no reference to the State legislatures is necessary. Parliament by itself can amend the Constitution in the manner mentioned above. In some cases amendments can be effected even by a bare majority such as is required for the passing of any ordinary law.

There were seven amendments to the Constitution from the coming into force of the Constitution on 26th January 1950 to the end of December 1957.

The Constitution (First Amendment) Act, 1951 aimed among other things at enabling the State to make special provision for the advancement of socially and educationally backward classes. It also gave the State broader powers to restrict freedom of speech and writing in the interests of friendly relations with foreign States, public order, decency, morality and in relation to defamation or incitement to an offence.

Two new articles were added after Art 31 to save the laws relating to the acquisition of estates and the validation of certain land reforms Acts and Regulations passed by certain States. These Acts were specified in an extra Schedule added to the list, the Ninth Schedule.

The Articles affected by the First Amendment were 15, 19, 85, 87, 174, 176, 341, 342, 372 and 375. It added two new Articles 31A and 31B and a new Schedule, the Ninth Schedule.

The object of the Constitution (Second Amendment) Act, 1952 was to make adjustments in the representation in the Lok Sabha consequent on the completion of the 1951 census. The Article affected was Article 81.

The Constitution (Third Amendment) Act, 1954 changed entry No. 33 in the Concurrent List in the Seventh Schedule by adding foodstuffs, cattle fodder, raw cotton and jute whose production and supply could be controlled by the Centre if necessary.

The Constitution (Fourth Amendment) Act, 1955 enables the State to acquire private property compulsorily for a public purpose and bars any reference about the quantum of compensation fixed by the legislature to a court of law. Also, the temporary taking over of private property* in the public interest or to secure better management is excluded from the compensation clause. Laws providing for State monopolies are also saved from invalidation. Seven new entries were made to the Ninth Schedule.

The Articles affected were 31, 31A, 31(2) and 305.

The Constitution (Fifth Amendment) Act, 1955 merely fixed a time for State legislatures to give their opinion on Central laws affecting the area, boundary etc. of the State concerned. The Article affected was 3.

The Constitution (Sixth Amendment) Act, 1956 added a new entry in the Union List in the Seventh Schedule, thus giving the Centre authority to legislate on the taxes, on the sale and purchase of goods in the course of inter-State transactions.

The Constitution (Seventh Amendment) Act, 1956 dealt with a whole host of problems thrown up by the reorganisation of the States, such as the alteration of State boundaries, the creation of new States, the classification of certain areas as Union Territory, the allocation of seats in the Rajya Sabha, the provision of a bicameral legislature for certain States. Other points the Amendment dealt with are the original jurisdiction of the Supreme Court, the High Courts and safeguards for linguistic minorities.

Some articles affected were 1, 80, 81, 82, 131, 168, 216, 217, 220, 222, 224 and the First Schedule and the Fourth Schedule. Four new Articles 290A, 350A and 350B and 372A were added.

* without affecting ownership.

PUBLIC SERVICES

THE Constitution provides for the setting up of a Public Service Commission for the Union and for each State. Two or more States may join together to have a common Public Service Commission.

The chairman and members of the Union Public Service Commission and of joint Commissions are appointed by the President of the Union, while the chairman and members of a State Commission are appointed by the Governor.

A member of the Union Commission holds office for six years or till he is 65 years. A member of a State Commission also holds office for six years but retires earlier on attaining the age of 60.

On ceasing to hold office a member of the Commission is eligible for appointment only as Chairman of the same Commission or of some other Commission but not for any other employment either under the Government of India or the State Government.

The Chairman of the Union Public Service Commission is not eligible for any Government appointment whatever. A member of a Commission can be removed only by the President on the advice of the Supreme Court.

The Union and State Commissions conduct examinations for recruitment to Government service. The Commissions also advise the Governments on the service conditions of the employees. There is a statutory obligation on a Government to consult the Commission on such questions, and if there are any rules which specifically exempt Government from such consultation these rules should be approved by the legislature.

An annual report of the Commission which also includes a list of cases in which Government did not accept the advice of the Commission together with a memorandum from Government explaining the reasons for the non-acceptance of the Commission's advice on these matters has to be placed before the appropriate legislature.

There are in all about 16 lakh Government employees out of which about 10 lakhs are railwaymen.

ALL INDIA SERVICES

(*i*) Indian Administrative Service;

(*ii*) Indian Police Service.

With independence two problems faced the country about Public Services. A large number of British officials left and Muslim officials opted for Pakistan. The gap thus created had to be filled by some sort of emergency recruitment. Out of about 1,000 Civil Servants about 600 are estimated to have left. The second was to replace the I.C.S. by a new service, an I.A.S.

The first problem was met by setting up an Emergency Recruitment Board in the middle of 1948 which selected the required number of men from both inside and outside the ranks of the permanent services.

The I.A.S. was to serve the same purpose as the old I.C.S. except that it would not provide officials for the judiciary.

The recruitments to both I.A.S. and I.P.S. are made through an All India Competitive Examination. 25 per cent of the senior duty posts in both the cadres are filled up by promotion from the State Civil Service and State Police Service officers respectively. It has also been provided that 15 per cent of the vacancies in the promotion quota can be filled by officers of outstanding merit and ability in the other State Services. The promotions are made in consultation with the U.P.S.C.

Between September 1956 and October 1957, 170 I.A.S. and 93 I.P.S. officers were appointed. Of the 170 I.A.S. officers, 76 were recruited through open competition, and 94 by promotion from State Service. Of the 93 I.P.S. officers, 44 were recruited through the competitive examination and 49 by promotion from State Police Service.

The cadre strength of the I.A.S. has been increased due to the growing demand for administrative personnel for the Second Five-Year Plan. In order to fill up the gaps, so far 180 State Service Officers have been appointed to the I.A.S. under the Special Recruitment Scheme. Some more appointments were to be made on the basis of the I.A.S. (Special Recruitment) Examination, 1956.

Officers appointed under this scheme will be trained at the I.A.S. Staff College, Simla, set up in May, 1957.

The I.A.S. and I.P.S. probationers are trained at the I.A.S. Training School, Delhi and I.P.S. Training College at Mount Abu, respectively.

The conditions of recruitment, service etc. of the two All India Services are fixed by the All India Services Act, 1951. So far 31 sets of rules and regulations relating to service conditions of these two services have been framed.

Citizens of Kashmir are now eligible for appointment to I.A.S. and I.P.S.

The present cadre strength of the I.A.S. and I.P.S. is 1,568 and 843 respectively.

CENTRAL SERVICES

The following are the Central Services:

1. Archæological Service (Class I).
2. Botanical Survey of India (Class I).
3. Central Engineering Service (Class I).
4. Central Electrical Engineering Service (Class I).
5. Central Health Service (Class I).
6. Central Revenues Chemical Service (Class I).
7. Central Secretariat Service :—
   - (*a*) Selection Grade ;
   - (*b*) Grade I.
   - (*c*) Grade II.
8. General Central Service (Class I).
9. Geological Survey of India (Class I).
10. Indian Audit and Accounts Service.
11. Indian Defence Accounts Service.
12. Indian Foreign Service (Class I).
13. India Meteorological Service (Class I).
14. Indian Postal Service (Class I).
15. Indian Posts and Telegraphs Traffic Service (Class I).
16. Indian Revenue Service :—
    - (*a*) Customs Branch (Indian Customs Service, Class I).
    - (*b*) Central Excise Branch Central Excise Service (Class I).
    - (*c*) Income Tax Branch (Income Tax Service, Class I).
17. Indian Salt Service (Class I).
18. Mercantile Marine Training Ship Service (Class I).
19. Mines Department (Class I).
20. Overseas Communications Service (Class I).
21. Survey of India (Class I).
22. Telegraph Engineering Service (Class I).
23. Zoological Survey of India (Class I).

To serve the needs of Ministries having industrial undertakings functioning under them, an Industrial Management Pool has been constituted. Recruitment to this Pool will be done by the Union Public Service Commission. At the initial constitution of the Pool its strength is to be 200.

A new service called the Central Legal Service came into being on 1st Oct. 1957. The main function of this Service was to draft legislation and to give advice on legal matters.

Proposals are also under consideration to create other All India Services like a service of Statisticians and another of Economists.

A Bill which seeks to repeal all existing domicile laws in the country which prescribe a period of residence within a particular State or Union territory for any public employment has been passed by Parliament and was awaiting the President's assent at the time of writing (11th Nov. 1957).

PAY SCALES

The pay scales of some of the more important All-India and Central services are given below:

Indian Administrative Service and Indian Foreign Service.

Junior Scale : 350-400-450-450-500-540-30-600-E.B.-30-870-40-950 (19 years).

Senior Scale : 800 (6th year or under)-50-1,000-60-1,300-50-1,800 (25 years).

Indian Police Service.

Junior Scale : 350-350-380-380-30-590-E.B.-30-770-40-850 (19 years).

Senior Scale : 600 (6th year or under)-40-1,000-1,000-1,050-1,050-1,100-1,100-1,150 (22nd year).

Selection grade : 1,250.

Indian Audit and Accounts Service.

Junior Scale : Rs. 350-350-380-380-30-590-E.-B.-30-770-40-850.

Senior Scale : Rs. 600 (6th year or under)-40-1,000-1,000-1,050-1,050-1,100-1,100-1,150.

Junior Administrative grades : Rs. 1,300-60-1,600-1,600-100-1,800.

Senior Administrative grades : Rs. 1,800-100-2,000-2,000-125-2,250.

Indian Postal Service (Class I).

Junior Time Scale : Rs. 350-350-380-380-30-590-E.B.-30-770-40-850.

(Officers under training will draw pay in this time scale).

Senior Time Scale : Rs. 600-40-1,000-1,000-1,050-1,050-1,100-1,100-1,150.

Directors of Postal Services : Rs. 1,300-60-1,600.

Postmaster-General : Rs. 1,800-100-2,000.

Indian Income-tax Service (Class I).

Grade II :

Time Scale : Rs. 350-350-380-380-30-590-E.B.-30-770-40-850.

Grade I :

Time Scale : Rs. 600-40-1,000-1,000-1,050-1,050-1,100-1,100-1,150.

Assistant Commissioners of Income-tax : Rs. 1,000-50-1,400.

Commissioners of Income-tax, Grade II : Rs. 1,300-60-1,600.

Commissioners of Income-tax, Grade I : Rs. 1,800-100-2,000.

A revised All India Services (Conduct) Rules was drawn up in September 1954.

SERVICE RULES

The Rules regarding discipline and appeal of Govt. servants have been revised to delete many of the obsolete provisions and to make specific provisions in respect of many points which were previously included only in administrative instructions.

The revised rules, *viz.* the Central Civil Services (Classification, Control & Appeal) Rules, 1957, were promulgated on 28th Feb., 1957. The issue of these rules has contributed much to expedition in the disposal of disciplinary cases against Government servants.

Under the Central Civil Service (Conduct) Rules, 1955, Government servants are prohibited from taking part in politics, elections, accepting gifts more than of a trifling value, engaging in any private trade or business or undertaking any private employment, contracting bigamous marriage without Government's permission or speculating in investments, borrowing, etc.

The rules also require Government servants to submit annual returns of his immovable, movable and other valuable property.

The Home Ministry has announced an amendment to the General Services (Conduct) Rules 1955, declaring that no Government servant shall participate in any demonstration or resort to any form of strike in connection with any matter pertaining to his conditions of service.

A Rules Revision Committee to simplify the existing Financial and Service Rules has been appointed.

ANTI-CORRUPTION

There is a special police force at the Centre called the Delhi Special Police Establishment to investigate cases of corruption on the part of Central Government servants.

Under Section 5 of the Prevention of Corruption Act, 1947, 'criminal misconduct in the discharge of official duty' has been made an offence and a rule of evidence has also been laid down requiring the court to draw a presumption against a public servant found in possession of assets which are disproportionate to his known sources of income and which he cannot satisfactorily account for.

In the Ministry of Home Affairs an Administrative Vigilance Division has been set up under a Director of the status of a Joint Secretary, and in each Ministry and Department a Vigilance Officer has been appointed who personally deals with all cases requiring disciplinary action.

ORGANIZATION & METHODS DIVISION

The work of the Organization and Methods Division of the Government of India created in March 1954 has had considerable success in promoting speed and efficiency in the disposal of work. Experience revealed that it was not so much the system that was at fault but the way it was worked. Studies were made in selected sections by marking files and tracing their progress. A number of devices have been adopted to increase speed and efficiency. There is, for instance, a check on the outturn of work and a record of the cases pending for more than a month. More authority is delegated to the Section Officer than before. In the disposal of important matters either within a Ministry or between two Ministries recourse is had to personal discussion rather than to the routing of files. There is now far less delay in any correspondence with the Union Public Service Commission. A 'Standing Guardfile' is now maintained for locating and putting up precedents. Dak is accepted upto the closing hour (previously it was accepted only upto 3 P.M.), and the Section Officer sends only such files up to the Under Secretary as he cannot deal with himself.

SERVICE CONDITIONS

Some of the steps recently taken to improve the service conditions of Government servants are :

In regard to pension, gratuity, leave and medical attendance certain disparities existed between class IV and other classes of Government servants. They have now been removed. About 9 lakh class IV employees are expected to benefit from this liberalisation.

The pension scheme has also been liberalised for all classes of Government servants.

All classes of Government servants and members of their families have been allowed travel concession benefits for visiting their home towns once every two years. Government's assistance will be 90 per cent of the railway fare to and fro in respect of distances exceeding 250 miles (100 miles in case of grade IV employees).

Other benefits include advance of pay to employees drawing pay less than Rs. 300 p.m. on the eve of important festivals, overtime allowance to non-gazetted and class IV employees in Delhi, payment of railway fare for families of Government servants who die while in service, family pension, etc.

A Pay Commission has been appointed to examine the principles which should govern the structure of emoluments and conditions of service and other allied matters concerning Central Government employees.

PUBLIC SERVICE COMMISSIONS

The following is a list of Public Service Commissions in India :

1. Andhra Pradesh Public Service Commission (Hyderabad).
2. Assam Public Service Commission (Shillong).
3. Bihar Public Service Commission (15, Bayley Road, Patna).
4. Bombay Public Service Commission (Bank of India Building, Mahatma Gandhi Road, Bombay).
5. Madras Public Service Commission (Madras).
6. Madhya Pradesh Public Service Commission (Indore).
7. Mysore Public Service Commission (Ballabroole, Palace Road, High Grounds, Bangalore).
8. Orissa Public Service Commission (Cuttack).
9. Punjab Public Service Commission (Patiala).
10. Kerala Public Service Commission (Trivandrum).
11. Uttar Pradesh Public Service Commission (Allahabad).
12. Rajasthan Public Service Commission (43, Station Road, Jaipur).
13. West Bengal Public Service Commission (Anderson House, Allpore, Calcutta).

The Union Public Service Commission also operates for all Union Administrations.

PUBLIC SERVICE (QUALIFICATIONS FOR RECRUITMENT) COMMITTEE

A Committee was appointed by the Government of India by a resolution dated 16th April 1955 to consider the proposal that a university degree need not be insisted on as a condition for employment to Public Services.

The original members of the Committee were : Dr A. Ramaswami Mudaliar (*Chairman*), Dr. C. P. Ramaswamy Aiyar, Dr. Amar Nath Jha, Dr. J. C. Ghosh, Dr. Sushila Nayar, N. K. Sidhanta, Prof. Humayun Kabir, K. P. Mushran, A. K. Roy, R. C. Dutt (*Member-Secretary*).

Before the Committee began its work, one of the members Dr. Amar Nath Jha died.

In a minute of dissent three members, Prof. Humayun Kabir, Sushila Nayar, and N. K. Sidhanta say that they do not agree with the majority that entry into the highest ranks should be restricted to graduates.

A Committee of Central Government Secretaries was to report to the Cabinet on the recommendations of the Public Services Committee but no report had been made at the time of writing (Nov. 1957).

THE REPORT

The main recommendations with explanatory notes are given below :

The Public Services are divided into three categories :

(*a*) Senior Officers—Executive and Administrative.

(*b*) Junior Officers—Executive and Administrative.

(*c*) Clerical Services.

In classifying the services in these three categories we have excluded those of a technical and professional nature for which special considerations would apply.

A university degree should definitely not be insisted upon for the clerical services. We would in fact go a step further, and while we would not disqualify graduates from entering the clerical services, we would discourage them from doing so. This we feel, can best be done by fixing the age limits at suitable levels which would preclude graduates from entering this service. Against the background of a reorganised system of education we would suggest that for clerical services the age limit should be 17—19. When the new system of education comes into force, it would not be possible for anyone to obtain a degree before the age of 20. To fix the maximum age limit at 19 would, therefore, preclude graduates from competing for such services.

It has, however, been pointed out to us that for certain types of employment it would not be appropriate to insist rigidly on the age limit 17—19 recommended by us. They are lower executive in nature and in some cases carry a marked degree of responsibility, though not perhaps much of discretion. Such posts to which our attention has in particular been drawn are posts in the lower formations of the Revenue, Railway and Communication Departments.

A higher level of maturity is obviously called for here. We agree that in such circumstances there would be good ground for deviating from the general recommendation we have made.

We suggest that each such case should be considered on its merits, and slightly higher age levels introduced as and where found necessary.

For the middle category we are of the opinion that university degree should not be made the minimum qualification, but that graduates should be given an opportunity to compete, if they so desire. We, therefore, suggest that the age limits for this group of services should be 19—21. This would render services of this nature open to non-graduates as well as to graduates.

Finally, for the top-most grades we are definitely of the opinion that entry into these services should be restricted to graduates. This view is based on our opinion that for the highest Executive and Administrative services a maturity of outlook and cultural standard is required which by and large, can naturally be expected of graduates. For these services, therefore, we recommend the age level of 21 to 23.

It will be noted that for all levels of Government service we have recommended a span of two years as against the usual span of three years between the minimum and the maximum age limits. This recommendation has been made deliberately because we are of the opinion that the mental qualities as also the personality can best be tested in one or at the most two examinations. A person who fails to come up to 'the standard' in the first two examinations may, on the basis of his experience of the examinations and having acquired the technique thereof, be successful in the third. Such success, however, does not necessarily reflect the innate qualities of the candidate.

We have also noted that under the present system of three examinations, the first examination is often taken by the candidates without that degree of seriousness that should normally go with such an effort. It is often taken only in order to acquire some experience of the technique of examinations. This leads to the number of candidates being unnecessarily multiplied, thus adding to the administrative problem of holding examinations.

Two chances would obviate this disadvantage and to that extent, would be of benefit.

We have made no mention so far about the Scheduled Castes and other Backward Classes. We would like to point out that our recommendations are made on the basis that the concessions enjoyed by the Scheduled Castes, Scheduled Tribes and other Backward Classes are not in any way affected.

We would like to mention at this stage that our recommendation throwing open clerical as well as the middle level of Government services to non-graduates is based on the assumption that recruitment to these levels is on the basis of open competitive examinations. Where such recruitment examinations are not held, it would be necessary to fall back, as at present, on university degrees which, in the absence of any other objective test, would guarantee at least a minimum standard of the qualities required for the posts.

RECRUITMENT TESTS

We recognise that a reasonable period of notice before the introduction of the new scheme is essential to avoid hardship. Persons who have embarked on a course of university education and have perhaps faced difficulties, financial and otherwise, in the hope of obtaining employment under the Government should not certainly find employment prospects disappear on account of a change in the recruitment policy. An interim period of notice is, therefore, essential for a transition to the new system and we recommend accordingly.

For all levels of Government service, however, we are of the opinion that recruitment examinations of adequate standard should be held for the selection of candidates.

The examination should be of a comprehensive nature and should test the mental qualities rather than merely the memory or the fund of information of the candidates. Every paper in the examination for the higher services should be of the Honours standard and every candidate for such services should be required to take at least two subjects.

In addition to these tests, there should also be some test for judging the personality, attitude and aptitude of candidates. Their past career may offer some insight into these and in addition, the first three months of the probationary period should be used for forming a correct idea about their personality. Obviously, unsuitable candidates may during these three months be weeded out by a properly constituted Board in consultation with the Public Service Commission. One way of ensuring that the candidates derive full benefit from their period of probation may be to evaluate their achievements during this period and add it to the competitive examination marks for determining their final ranking in the services.

A point of view has been expressed before us that lowering the academic standard for certain levels of Government service may be unobjectionable so far as work at those levels is concerned, but that it would have the disadvantage of not qualifying such persons for promotion to higher posts.

We, therefore, recommend that as far as possible promotion from grade to grade should be made on the basis of departmental examinations.

TRAINING

We, consider it an essential part of our recommendations that a proper scheme of training for all levels of Government service should be accepted and implemented by the Governments both at the Centre and in the States.

For the lower levels of Government service, particularly at the clerical level, training will obviously have to be decentralised. The period of training should be at least one year and should consist not only of professional items such as typing, maintenance of files, noting, drafting, etc., but also instruction in general subjects aimed at giving the recruits a general education to render them not only good clerks but useful citizens. For the higher levels of Government services a similar scheme should be adopted.

Social subjects, particularly Economics, are of the highest importance in the present context in administration. To a lesser extent a knowledge of Law is essential for the Administrative services. Instruction in these subjects may well be arranged in co-operation with the universities. We, therefore, recommend that the courses of training should be arranged in consultation with and with the co-operation of the universities but under the auspices of the appropriate Government department.

We are also of the opinion that for the highest executive and administrative services a period of training abroad after they have seen different parts of India would be highly useful.

The terms of reference of this Committee have drawn our attention to the problem of numbers that would inevitably arise from any lowering of academic standards.

Apart from the problem of arranging for the examination of large numbers of candidates, the question would arise of maintaining a uniform standard with respect to all those who appear at such an examination.

We would suggest that where the number of examinees is very large, a system of weeding out by preliminary examination may be adopted. The preliminary examination should be restricted to one or two simple written papers which would test the general alertness and mental calibre of the candidates concerned. As a result of this preliminary test a number of candidates equal to a given multiple of the number to be finally recruited should be selected for the final examination.

A point which has been brought to our notice often in the course of our discussions is the lack of uniformity in the standards of the various universities all over the country.

We recommend that the Public Service Commissions should publish annually tabulated results of the examination held by them, analysing the marks obtained by candidates from different universities in different subjects. The results thus tabulated would speak for themselves and the long-term trends would clearly indicate the quality of the products of different universities in different subjects in which they are trained.

ADMINISTRATION OF JUSTICE

THE Indian Union though a dual polity has no dual judiciary at all. The Supreme Court and the High Courts form one single integrated judiciary having jurisdiction and providing remedies in all cases arising under the constitutional law, the civil law or the criminal law. This is done in order to eliminate all diversities in remedial procedure.

The writs which for generations ran over the length and breadth of the country in the name of the British Sovereign, are now issued by the Supreme Court of India and the various High Courts in the territory of India. All the laws which existed before independence continue to operate in India as before subject to adaptation and modification made therein. Article 372 of the Constitution provides *inter alia* that, subject to the other provisions of the constitution, all the laws in force in the territory of India immediately before the commencement of the Constitution shall continue in force therein until altered, repealed or amended by a competent Legislature or other competent authority.

Article 13 of the Constitution provides that all laws in force in the territory of India immediately before the commencement of the Constitution, in so far as they are inconsistent with the provisions of the Constitution relating to Fundamental Rights (Part III) shall to the extent of such inconsistency be void.

The State is also debarred from making any law which takes away or abridges the Fundamental Rights conferred by this Part, and any law made in contravention shall be void to the extent of such contravention (Art. 13 (2)).

Article 14 ensures to all persons equality before the law by providing that the State shall not deny to any person equality before the law or the equal protection of the laws within the territory of India.

The continuity of the existing laws and legal procedure is further ensured by Article 375 under which all courts of civil, criminal and revenue jurisdiction and all authorities and officers continue to exercise their respective functions subject to the provisions of the Constitution.

The indigenous law of India is personal and divisible with reference to the two great classes of the population, Hindu and Muslim. Both systems claim divine origin and are inextricably interwoven with religion, and each exists in combination with a law based on custom. The rules of the Shastras and the Koran have, however, been in some cases altered and relaxed. Instances can be found in the Bengal Sati Regulation Act of 1829, the Indian Slavery Act, 1843, the Caste Disabilities Removal Act of 1850, the Hindu Widows' Remarriage Act, 1856, and some other Acts and Codes like those which remove the civil disabilities of Harijans.

During recent years indeed there has been a determined demand on the part of social reformers, and various women's organisations in India for an amendment of the Hindu Law so as to bring it into line with progressive social opinion, in consonance with the spirit of the times.

The Draft Hindu Code that was before the provisional Parliament aimed at abolishing the archaic principles of the ancient system of law, the removal of sex and caste disabilities, and generally simplifying, secularising, and modernising the law governing all Hindus, including Lingayats, Buddhists, Jains and Sikhs. But the Code lapsed on account of the dissolution of the provisional Parliament.

The Government of India has however introduced piece-meal legislation regarding reforms in Hindu Law.

The following Acts have already been passed: The Hindu Marriage Act 1955, The Hindu Succession Act 1956, The Minority and Guardianship Act 1956 The Hindu Adaptation and Inheritance Act 1956. The new Hindu code is thus part of the statute book.

In the meanwhile, an opposite tendency has been observable among the Muslims, who by recent legislation have sought to revert to the law of the Shariat, discountenancing the application of Hindu Law and custom to the sections of the Muslim community who as converts from Hinduism had retained Hindu Law in matters of inheritance and succession.

Apart from this, the entire legal system which has hitherto prevailed in the country is in course of time bound to undergo a profound transformation by reason of the withdrawal of British rule and the partition of India. A Law Commission has been appointed by the Government of India for this purpose, and it has already submitted to the Government interim reports on certain laws and administration of justice.

A demand has been made for the simplification of the procedure and law for the administration of justice.

Accordingly a bill for amending the code of Criminal Procedure was passed. The amendment gives the accused certain new rights. He can now take an oath and give evidence if he so desires.

The Indian Penal Code has from time to time been amended. The rules of Civil Procedure have been embodied in the Code of Civil Procedure. The Code of Civil Procedure was remodelled in 1908 and the Code of Criminal Procedure in 1898. These Codes as amended from time to time are now in force.

The years between 1870 and 1885 saw a great deal of legislative activity in British India, and important branches of the law, like Evidence, Contract, Transfer of Property, Trusts, Negotiable Instruments, etc., were codified in the form of Acts of the Indian Legislature applicable to the whole of British India. These, amended from time to time and supplemented by rules derived from English decisions, constitute the bulk of the law administered in India today.

SUPREME COURT

Art. 124 of the Constitution provides for the establishment of a Supreme Court of India consisting of a Chief Justice of India and seven other judges. There is provision in law for the appointment in all of 10 other judges. Every judge of the Supreme Court shall be appointed by the President and shall hold office until he attains the age of sixty-five years. In the course of appointment of a Judge the Chief Justice shall always be consulted. Only a citizen of India who has been for at least 5 years a judge of a High Court, or for 10 years an advocate of a High Court, or a person, who in the opinion of the President, is a distinguished jurist, is qualified to be appointed judge of the Supreme Court.

A judge of the Supreme Court is not liable to be removed from his office except by an order of the President passed after an address by each House of Parliament, supported by a majority of the total membership of that House, and by a majority of not less than two-thirds of the members of that House present and voting, has been presented to the President in the same session for such removal, on the ground of proved misbehaviour or incapacity. No person who has held office as a judge of the Supreme Court shall plead or act in any court or before any authority within the territory of India.

The Supreme Court is a court of record with all the powers of such a court including the power to punish for contempt. The seat of the Court is to be in Delhi or such other place as the Chief Justice with the approval of the President may from time to time appoint.

The Supreme Court has exclusive original jurisdiction in any dispute (a) between the Government of India and one or more States; (b) between Government of India and one or more States on the one side and one or more other States, on the other; (c) between two or more States, if and in so far as the dispute involves any question (whether of law or fact) on which the existence or extent of a legal right depends (Article 131).

The Appellate jurisdiction of the Supreme Court extends over all appeals from any judgment, decree or final order of a High Court, in civil, criminal or other proceedings, if the High Court certifies that the case involves a substantial question of law as to the interpretation of the Constitution. If the High Court refuses such a certificate the Supreme Court may grant special leave to appeal in a proper case (Art. 132). An appeal shall also lie to the Supreme Court from a High Court in civil matters, when the amount or value of the subject matter in dispute is not less than Rs. 20,000 or the High Court certifies the case to be a fit one for appeal to the Supreme Court (Art. 133).

In criminal matters under Art. 134 an appeal lies to the Supreme Court from any judgment, final order or sentence of a High Court, if the High Court has (a) on appeal reversed an order of acquittal of an accused person and sentenced him to death; or (b) has withdrawn for trial before itself any case from a subordinate court and has in such trial convicted the accused person and sentenced him to death; or (c) the High Court has certified that the case is a fit one for appeal.

For purposes of appeals to the Supreme Court, the Judicial Commissioners' Courts are to be considered as High Courts.

Under Art. 136 discretion is given to the Supreme Court to grant special leave to appeal from any judgment, decree, sentence or order, in any matter passed by any Court or Tribunal in the territory of India.

The Supreme Court has also power to review its own judgement (Art 137).

The jurisdiction and powers of the Federal Court under the existing law are also exercisable by the Supreme Court (Art. 135) including the advisory power to give its opinion on questions of law or fact referred to it by the President (Art. 143).

The law declared by the Supreme Court shall be binding on all courts in the territory of India excepting the Supreme Court itself.

The dual system in the Supreme Court was abolished with effect from Jan 26, 1955.

Parliament has the power to legislate on the constitution, organisation, jurisdiction and powers of the Supreme Court.

Article 32 of the Constitution guarantees the right to move the Supreme Court by appropriate proceedings for the enforcement of Fundamental Rights; and for the enforcement of such rights the Supreme Court has power to issue directions or orders or writs, including writs in the nature of Habeas Corpus, mandamus, prohibition, *quo warranto* and *Certiorari* whichever may be appropriate.

Power is given to Parliament to enlarge the jurisdiction of the Supreme Court by appropriate legislation (Art. 138).

The jurisdiction of the Judicial Committee of Her Majesty's Privy Council over appeals from India in all matters is now abolished.

The royal prerogative to grant pardons, reprieves, respites or remissions of punishments now resides in the President (Art. 72).

Under Art. 348, all proceedings in the Supreme Court and in every High Court in India and the authoritative text of all Bills and Acts of Parliament and the State Legislatures and of all Ordinances promulgated by the President or Governors and of all orders, rules and regulations issued under the Constitution or any law shall be in the English language. If this language is to be replaced by any other language, Parliament must legislate to that effect.

All authorities, civil and criminal in the territory of India, have to act in aid of the Supreme Court (Art. 144). The independence of the judges of the Supreme Court, is secured by charging their salaries on the Consolidated Fund of India, and by prohibiting any discussion on the conduct of the judges in their official capacity.

HIGH COURTS

Every High Court is a court of record and has all powers of such court including the power to commit for contempt of itself.

Every judge of a High Court is appointed by the President after consultation with the Chief Justice of India, the Governor of the State and the Chief Justice of the particular High Court; and he holds office until he attains the age of sixty years.

A person is not qualified to be appointed a judge of a High Court unless he is a citizen of India and has either held judicial office or practised as an advocate for 10 years in any of the States.

A High Court judge is not liable to be removed from his office except in the manner provided in Art. 124 (4) for the removal of a judge of the Supreme Court of India.

No person who after the commencement of the constitution has held office as a permanent judge of a High Court could plead or act in any court or before any authority in the territory of India except the Supreme Court or High Courts.

There is provision in the Constitution for the appointment of additional or acting judges.

Power is given to the President in consultation with the Chief Justice of India to transfer a judge from one High Court to any other High Court in India. (Art. 222.)

Article 225 preserves the jurisdiction and powers of the High Courts as they existed immediately before the commencement of the Constitution. Restrictions on the exercise of the original jurisdiction in revenue matters are removed.

Art. 226 gives to every High Court in India power throughout its jurisdiction to issue to any person or authority including Government directions, orders, writs, including writs in the nature of Habeas Corpus, mandamus, prohibition, *quo warranto* and *Certiorari* for the enforcement of Fundamental Rights and for any other purpose. (Art. 226).

The Law Commission appointed by the Government of India has offered the suggestion that the powers of the High Courts under Art. 226–227 should be curtailed.

The High Courts have powers of superintendence over all subordinate Courts and tribunals within their respective jurisdiction.

Legislation affecting constitution and organisation of the High Courts can be passed by Parliament alone.

The Law Commission has recommended to the Government of India that a High Court should not have Benches. It has also expressed the view that the establishment of tribunals will be necessary in view of the ideal of a Welfare State.

LOWER COURTS

The Code of Criminal Procedure provides for the constitution of inferior criminal courts styled courts of session and courts of magistrates.

Every State, outside the towns of Madras, Bombay and Calcutta, is divided into sessions divisions consisting of one or more districts, and every sessions division has a court of session and a sessions judge, with assistants if need be. These stationary sessions courts are like the English Assizes, and are competent to try all accused persons duly committed, and to inflict any punishment authorised by law, but sentences of death are subject to confirmation by the highest court of criminal appeal in the State.

The jury system has been abolished in Bombay State except in the Greater Bombay area.

Magistrates' courts are of three classes with descending powers. Provision is made and largely utilised in the towns, for the appointment of honorary magistrates. In the towns of Madras, Bombay and Calcutta, Presidency Magistrates deal with magisterial cases and benches of Justices of the Peace or Honorary Magistrates dispose of the less important cases.

In Bombay Honorary Magistrates or Justices of the Peace do not try cases.

Article 50 of the Constitution lays down that the States shall take steps to separate the judiciary from the executive in the public service of the States.

The State of Bombay was the first State to introduce the separation of the judiciary from the executive in public services, by a statute. The Act came into force on July 1, 1953.

There is partial separation in the following States: Andhra, Madras, Punjab, Bihar, U. P., and Kerala. It is not effected by any statute but by rules made by the Government in that behalf.

The Government of West Bengal has announced that it has decided to make the judiciary independent of the executive at all levels.

The constitution and jurisdiction of the inferior civil courts vary. Broadly speaking one district and sessions judge is appointed for each district. As District Judge he presides in its principal civil court. His functions as Sessions Judge have already been described.

For these posts members of the Indian Civil Service were mainly selected in the past though some appointments were made from the Provincial Service.

In the State of Bombay, recruitment is also made from the bar; leading practitioners are appointed as District Judges.

Next come the Subordinate Judges and Munsiffs, the extent of whose original jurisdiction varies in different parts of the country.

There are in addition a number of Courts of Small Causes, with jurisdiction to try money suits up to Rs. 500. In the towns of Madras, Bombay and Calcutta where the Chartered High Courts have original jurisdiction, Small Causes Courts dispose of money suits up to Rs. 3,000.

In Bombay and Madras there are also City Civil Courts. The City Civil Court in Bombay has a pecuniary jurisdiction of upto Rs. 25,000.

As Insolvency Courts the Chartered High Courts of Calcutta, Bombay and Madras have jurisdiction in the Presidency towns. In the mofussil similar powers are conferred on the District Courts by the Provincial Insolvency Act of 1920.

There are Coroners only for the Presidency Towns of Calcutta and Bombay. Elsewhere their duties are discharged by the ordinary staff of magistrates and police officers unaided by jurors.

SPECIAL COURTS

Labour Courts and Industrial Courts now exist in most States.

A Labour Court consists of a single judge.

These Courts decide upon disputes regarding (*a*) propriety or legality of an order passed by an employer, (*b*) the application and interpretation of standing orders, (*c*) they also decide disputes referred to them by Government for arbitration. Legality or otherwise of strikes or lock-outs or closure, etc. is also decided by them.

An appeal against the judgment of the Labour Courts lies to the Industrial Court. This court has also original jurisdiction regarding matters referred to it by the Government or by representative Unions. It decides upon questions of law referred to it by Wage Boards and references regarding interpretation of the Act and the Rules. It has power of superintendence over Labour Courts.

The Industrial Disputes Act was passed by the Central Legislature in 1947 for the investigation and settlement of industrial disputes.

Industrial Tribunals were established under this Act. If the conciliation bodies set up under this Act fail to bring about a settlement, the matter is referred to the Industrial Tribunals.

Neither party to a dispute is entitled to be represented by a legal practitioner except with the consent of the other party and by leave of the Tribunal.

Industrial Tribunals are not permanent Courts. Whenever a matter is referred to the Government regarding an industrial dispute the Government appoints one or more persons as Industrial Tribunal to adjudicate upon the dispute.

The Industrial Disputes (Appellate Tribunal) Act was passed in 1950. It constituted a new Court, the Labour Appellate Tribunal of India. It is an appellate Court over the Industrial Tribunals and Industrial Courts. The judgments given by the Appellate Tribunal have helped to establish uniformity in labour matters.

The Industrial Disputes (Appellate Tribunal) Act was amended in 1955 by Act 29 of 1955. This Act empowered the Chairman of the Labour Appellate Tribunal to transfer applications to the industrial tribunals constituted under the Industrial Disputes Act 1947.

The Labour Appellate Tribunals are in effect abolished by the Industrial Disputes (Amendment and Miscellaneous Provisions) Act No. 36 of 1956 which repealed the Industrial Disputes Appellate Tribunal Act of 1950.

It makes provision for the constitution of the following courts and tribunals:

1. Labour Courts to be constituted by the appropriate Government. A court is to consist of one judge only.

2. Industrial Tribunals. A Tribunal is to consist of one judge only. A person is not qualified to be a member of a Tribunal unless he has been judge of a High Court. The Tribunals will be constituted by the appropriate Government.

3. National Tribunals. These Tribunals will be constituted by the Central Government. Here also a tribunal is to consist of one judge only.

This Act came into force on 1st Sept., 1956 from which date the Tribunal was not to entertain fresh appeals, but pending appeals were to be disposed of.

The Industrial Disputes (Amendment) Act 41 of 1956 and the Dock Workers (Regulation of Employment) Act, 1948, are two other Acts with respect to labour classes.

Administration of labour laws is a divided responsibility. The Central Government has the following organisations for the administration of labour laws. (1) The Office of the Chief Labour Commissioner, New Delhi. (2) The Office of the Coal Mines Welfare Commissioner, Dhanbad. (3) The Office of the Coal Mines Provident Fund Commissioner, Dhanbad. (4) The Office of the Welfare Commissioner, Mica Mines Labour Welfare Fund, Dhanbad and Nellore. (5) The Office of the Chief Inspector of Mines, Dhanbad. (6) The Office of the Chief Adviser of Factories, New Delhi. (7) The Office of the Director-General, Employees' State Insurance Corporation, New Delhi. (8) The Office of the Controller of Emigrant Labour, Shillong. (9) The Office of the Director, Labour Bureau, Simla. (10) The Office of the Central Provident Fund Commissioner, New Delhi.

The State Governments also have their own organisations for the administration and enforcement of labour laws.

Juvenile offenders are tried by the Juvenile Courts. In places where there are no juvenile courts the offenders are tried either by the High Court, or the Court of Session or a salaried Presidency Magistrate or a salaried Magistrate of the First Class.

Legal practitioners are not entitled to appear in any case or proceeding before a Juvenile Court. However the Court may grant permission in exceptional cases.

Probation officers are appointed by the State Government for helping the Court in the discharge of its functions. The powers and duties of such officers are laid down in the rules. Their main duty is to investigate the history of the juvenile offender and offer help to the Court. An appeal against the judgment of a Juvenile Court lies to the Chief Presidency Magistrate in Greater Bombay, and in other places to the Court of Session. If a case is decided by a Presidency Magistrate or a Court of Session the appeal lies to the High Court.

Panchayat Courts (called Nyaya Panchayat) are in existence in many States. The members of the Panchayat Court are elected by the Village Panchayat. Sections 30-44 of the Act lay down rules about the suits that may be tried and the suits that may not be tried by the Court. A Nyaya Panchayat cannot alter or revise its decision. An appeal against a decision of the Nyaya Panchayat lies to the District Judge.

LEGAL OFFICIALS

The Government of India have their own law colleague in the Law Minister of the Union Cabinet. All Government measures are drafted in his ministry after their substance is decided upon by the administrative departments concerned.

Outside the Cabinet the principal law officers of the Government of India are the Attorney-General and Solicitor-General appointed by the President. At Bombay and Calcutta the Government of India have their own solicitors.

Each of the State Governments has its own Advocate-General.

Article 76 of the Constitution of India says that for the post of Attorney-General the President shall appoint a person qualified to be appointed a Judge of the Supreme Court. It shall be the duty of the Attorney-General to advise the Government of India on such legal matters and to perform such other duties of a legal character as may be referred or assigned to him by the President, and to discharge the functions conferred upon him by the Constitution. In the performance of his duties the Attorney-General shall have right of audience in all Courts in the territory of India. The Attorney-General has a right to take part in the proceedings of Parliament and address it.

Under Article 165 the Governor of each State is authorised to appoint a person qualified to be appointed a Judge of a High Court to be Advocate-General for the State.

The Advocate-General is appointed by the Governor. He has to give advice to the Government of the State upon such legal matters and to perform such other duties of a legal character as may be referred to or assigned to him. He holds office during the pleasure of the Governor. He appears in the Court on behalf of the Government. He is the leader of the Bar and the President of the Bar Council. He is also authorised to take part in the proceedings of the State legislature, if his advice is sought.

In addition to the Advocate-General there is also a Government Pleader in many States. He usually belongs to the Appellate Side of the High Court while the Advocate-General belongs to the Original Side where the High Court has both Original and Appellate Sides. The Government Pleader is assisted by an Assistant Government Pleader and they look after criminal work.

The State Governments have their own law officers, in addition to the Advocate-General and the Government Pleader. The law officer is designated Remembrancer of Legal Affairs. He also works as Secretary to the Legal Department. He is never a practising lawyer, but a Government servant. Usually one of the District Judges is appointed Remembrancer of Legal Affairs.

The Legal Remembrancer drafts Government Bills and gives advice to Government Departments on all legal matters.

Sheriffs are attached to the High Courts of Bombay, Calcutta and Madras.

They are entrusted with the work of preparing jury lists, serving summons and other legal processes. The Sheriff in Bombay is the ex-officio Chairman of the Bombay State Permanent Famine Relief Committee. He can also convene public meetings on behalf of the citizens.

The detailed work of the office is entrusted to the Deputy Sheriff who is an officer of the High Court.

There are Official Assignees in three States—Bombay, W. Bengal and Madras. The appointment is made by the Chief Justice of the High Court concerned.

The duties of the Official Assignee are two-fold, *viz.* realisation and distribution of the insolvent's estate, and the control of the property of the insolvent and his conduct generally.

A party aggrieved by the decision of the Official Assignee may appeal to the Insolvency Judge of the High Court.

In addition to the Official Assignee, a Deputy Official Assignee may also be appointed. Another officer of the court is the Insolvency Registrar who may be vested with the powers mentioned in section 6 of the Presidency Towns Insolvency Act.

There are two classes of legal practitioners, practising in the Supreme Court. They are Senior Advocates, and other Advocates (popularly known as Junior Advocates).

All Advocates of the Supreme Court are entitled to practise in High Courts. In Bombay and Calcutta an Advocate can appear on the original side only when instructed by an Attorney. An Advocate of a High Court is entitled to practise in the High Court concerned and in all the courts subordinate to it. An Attorney-at-Law if enrolled as an Advocate can also practise in the High Court, except on the original side. He, however, can plead in insolvency and chamber matters.

Pleaders are entitled to practise in the District for which they hold sanads.

In addition to these classes, there are Mukhtars in the States of Assam, Bihar, Orissa, Uttar Pradesh, West Bengal and Rajasthan. In Assam there is one more class of legal practitioners known as Revenue Agents.

The Government of India appointed a Committee called The All-India Bar Committee, under the chairmanship of Mr. S. R. Das, now Chief Justice of India. It recommended the unification of the Indian Bar. To achieve this it proposed that there should be no further recruitment of non-graduate pleaders or Mukhtars or Revenue Agents.

As regards the dual system in Bombay and Calcutta, the Committee favoured its retention. It however recommended the abolition of the dual system in the Supreme Court of India.

Accordingly the dual system was abolished in the Supreme Court on 26th Jan. 1955.

Formerly official Law Reports were published only in six series—Bombay, Allahabad, Calcutta, Madras and Nagpur. Three more series, Cuttack, Mysore and Rajasthan, have now been added.

These reports contain cases decided by the High Courts and the Supreme Court of India.

In addition to these series a "Supreme Court Reporter" is also published. It contains important decisions of the Supreme Court of India.

Besides these official reports there are a number of private agencies that also bring out reports of the decisions of the Supreme Court and the High Courts. The Law Commission is considering the desirability or otherwise of allowing private series of law reports. Reports are also published of important cases determined by Labour Courts, Industrial Courts and Labour Appellate Tribunals.

HINDU LAW REFORM

A short note on Hindu Law reform is in order as it concerns the welfare of the women of this country.

As a result of increasing consciousness on the part of Indian women of their social and political status, there has in recent years been a move to revise and codify the somewhat vague and contradictory law governing the Hindu home, especially as it affects marriage, divorce, succession to property, etc.

In 1937 the Indian Legislature enacted the Hindu Women's Rights to Property Act. This Act, for the first time, gave to Hindu widows a right to claim a share in the husband's property and demand partition.

Four years later the Government of India set up a Committee to overhaul and codify the Hindu Law. This Committee, which is known as the Rau Committee, drafted two bills dealing with Hindu intestate succession and Hindu marriage.

When the measures came up for consideration by the two Houses of the Central Legislature, a joint committee of the Houses recommended the revival of the Rau Committee with a view to the codification of the entire Hindu Law. Consequently the Rau Committee was revived early in 1944. During 1944-45, the Committee made a tour of the country and elicited public opinion on the proposals embodied in the two measures and on the codification of the Hindu Law as a whole. They gathered evidence from leading lawyers and representative organisations of various shades of Hindu opinion on a draft Hindu Code prepared by them.

During the last five years, the Central and the Provincial Legislatures passed various Acts, which aimed at improving the condition of Hindu women.

The Hindu Marriage Disabilities Removal Act of 1946, legalised marriages between Hindus belonging to the same Gotra or Pravara.

The Hindu Married Women's Right to Separate Residence and Maintenance Act of 1946 enables a married Hindu woman to claim from her husband separate residence and maintenance on certain grounds.

The Hindu Marriage Validating Act, 1949 removed the caste-barriers from the sphere of marriages and validated even the Pratiloma marriages.

The Child Marriage Restraint (Amendment) Act of 1949 raises the marriage age of girls from 14 to 15 years.

In the State of Bombay, monogamy was made a rule by the Prevention of Hindu Bigamous Marriage Act of 1946, and dissolution of marriages by divorce was allowed under certain conditions by the Bombay Hindu Divorce Act of 1947.

In the state of Madras, there was an Act preventing bigamous marriages and providing for divorce. The Act was called the Madras Hindu (Bigamy Prevention and Divorce) Act.

The Madras Legislature passed the Madras Devadasis (Prevention of Dedication) Act in 1947. This Act puts an end to the unhealthy practice of dedicating Hindu women as 'devadasis' to Hindu deities.

Bombay Hindu Women's Right to Property Act (Extension to Agricultural Land) extended the application of the Hindu Women's Right to Property Act, 1938 to agricultural land also. A similar law was passed in Madras.

Though the Hindu Code Bill has been dropped, the Government of India have passed several Acts as already mentioned affecting Hindu Law.

The Special Marriage Act of 1954 repeals the Special Marriage Act of 1872. Though the Act of 1954 is not a part of Hindu Code, it affects Hindus in so far as it provides for civil marriages both for Hindus and non-Hindus.

The Hindu Marriage Act of 1955 came into force on 18th May, 1955. The Act has repeated the following laws:—

1. The Hindu Marriage Disabilities Removal Act of 1946; 2. The Hindu Marriage Validity

Act of 1949; 3. The Hindu Divorce Act of 1947 (Bombay Act); 4. The Prevention of Hindu Bigamous Marriage Act of 1946; 5. The Madras Hindu (Bigamy Prevention and Divorce) Act; 6. The Saurashtra Prevention of Hindu Bigamous Marriage Act; 7. The Saurashtra Hindu Divorce Act.

Under the Hindu Marriage Act 25 of 1956, monogamy has become a rule in Hindu Society. Divorce is allowed on certain grounds. Inter-caste marriages are valid.

The Hindu Minority and Guardianship Act (32 of 1956) seeks to regularise the law regarding guardianship.

The Hindu Succession Act 20 of 1956 aims at simplifying the Hindu Law of succession. It does away with the distinction between the Mitakshara and Dayabhaga law of succession. However, special provision is made for regulating succession to the property of intestates governed by Marumakkattayam, Aliyasantana or Nambudri laws of inheritance. The Act creates two classes of heirs, preferential heirs are included in Class I. The Act confers a right to a share on a daughter, a provision unknown to the previous Hindu Law.

The Hindu Succession Act has also made the following changes, which are revolutionary, in the old Hindu Law:

All property held by a Hindu woman is now her absolute property and there are no restrictions on her rights.

The heirs of a deceased Hindu are entitled to get a share even in the undivided interest in the coparcenary property. A Hindu can make a will even of his undivided interest in the coparcenary property.

The Hindu Adoption and Maintenance Act 79 of 1956 was passed in December 1956. Under the Act the adoption of a son or a daughter is permitted. The consent of the wife is necessary for adoption, which is now purely secular in character.

Besides these laws, Parliament has passed two important Acts relating to social reform. The Suppression of Immoral Traffic in Women and Girls' Act (No. 104 of 1956) was passed in December 1956. This Act provides in pursuance of the International Convention signed at New York on 9th May 1950 for the suppression of immoral traffic in women and girls. The Women's and Children's Institutions (Licensing) Act (No. 105 of 1956) was passed in December 1956. This Act provides for the licensing of such institutions and of matters relating to them.

The following Bills are before Parliament (April, 1957):

1. A Bill to amend the Child Marriage Restraint Act. This Bill aims at making a marriage in contravention of the Act voidable at the option of the female.

2. A Bill to provide for the restraint on Sanyas diksha of a child.

3. A Bill to provide for the better control and supervision of orphanages and widows' homes in India.

4. A Bill for the licensing of sadhus and sanyasis in India.

5. A Bill to provide for the protection and maintenance of old and infirm persons.

A private member of Parliament has introduced in the House a bill aiming at the abolition of the dowry system.

The Bombay Legislature has passed an Act for the registration of marriages.

DELAY IN LEGAL PROCEDURE

Heavy arrears and inordinate delay in the disposal of court cases in India was indicated by the fact that about 1,66,100 cases were pending on December 31, 1956, in all the 13 High Courts in the country.

The number of cases pending before these High Courts since 1953 totalled 39,228.

The clearance of arrears was among the main subjects discussed at the State Law Ministers' Conference in September 1957 which decided on various measures to be taken to speed up the disposal of these pending cases.

The question, it would be remembered, engaged the attention of the Central Government even during the British regime when Sir Patrick Spens was the Chief Justice of India.

In 1949 the Government of India appointed a committee under the Chairmanship of Mr. Justice S. R. Das (the present Chief Justice of India) to go into this question.

The following is the approximate breakdown of the pending cases in various High Courts as on December 31, 1956, and of cases pending from 1953 respectively: Allahabad 38,000 and 12,000; Andhra 23,000 and 3,000; Assam 900 and 28; Bombay 13,000 and 2,900; Calcutta 27,000 and 10,000; Kerala 6,000 and 300; Madhya Pradesh 6,500 and 1,200; Madras 15,000 and 1,000; Mysore 6,000 and 1,000; Orissa 2,700 and 400; Patna 12,000 and 4,000; Punjab 11,000 and 2,400 and Rajasthan 5,000 and 1,000.

DEFENCE SERVICES

Chief of the Army Staff, General K. S. Thimayya.
Chief of the Naval Staff, Vice-Admiral Ram Dass Katari.*
Chief of the Air Staff, Air Marshal S. Mukerjee.

THE supreme command of all the Armed Forces of the Indian Republicis vested in the President. Since the attainment of independence, the Ministry of Defence has become the central agency for formulating and obtaining policy decisions of the Government of India on defence matters and for transmitting them to, and seeing to their implementation by, the three Defence Services Headquarters.

The partition of India in 1947 was an important landmark in the history of the Armed Forces of India. They were divided between the two countries on a communal-cum-optional basis, which worked out to an approximate proportion of one-third to Pakistan and two-thirds to the Union of India. British troops, including the Royal Air Force, were completely withdrawn from India on February 28, 1948.

The nationalisation of the Armed Forces started soon after the partition. In the three Services today only a handful of British technicians are employed on a contract basis.

The order of precedence of the Defence Services has been re-arranged as Army, Navy and Air Force. With the inauguration of the new Constitution on January 26, 1950, the use of the prefix 'Royal', wherever it occurred, in the designation of a Service, regiment, corps or unit of the Armed Forces was discontinued. Similarly, the expression 'His Majesty's Indian Ship' (H.M.I.S.) before the names of ships was dropped.

DEFENCE ORGANISATION

During the British regime, the Commander-in-Chief was not only the Supreme Commander, *i.e.* head of the three Services, but also the Defence or War Member of the Executive Council, and, as such, occupied a specially privileged position—second only to that of the Viceroy and Governor-General. Since August 15, 1947, each Service has been placed under a separate and independent head, their present designations being Chief of the Army Staff, Chief of the Naval Staff and Chief of the Air Staff.

With the appointment of three Service Chiefs independent of each other, the task of co-ordination of the activities of the three Services has devolved on the Defence Ministry. In order to ensure expeditious handling of work, a network of committees has been established at different levels.

At the top is the Defence Committee of the Cabinet which is, for all practical purposes, the Government so far as the Services are concerned. All important policy questions relating to defence are decided by this Committee, which is presided over by the Prime Minister. Next in importance is the Defence Minister's Committee which, besides, the Defence Minister, includes the Deputy Defence Ministers, the Defence Secretary, the Financial Adviser (Defence) and the three Service Chiefs.

The Defence Minister is responsible to Parliament for all matters relating to the Defence Services including appropriation and allotment of funds, correlation of all civil and ministerial activities for purposes of defence and control and direction of research policy.

There are a number of inter-Services organisations, directly administered by the Defence Ministry, dealing with matters of common concern to the three Services.

Some of them are the Defence Production Board, the Defence Science Organisation, the National Cadet Corps, the National Defence Academy, the Defence Services Staff College, the School of Foreign Languages, the Directorate-General of Armed Forces Medical Services, the Resettlement Section, the Indian Soldiers', Sailors' and Airmen's Board, the Combined Inter-Services Historical Section, the Directorate of Military Lands and Cantonments, the Joint Cipher Bureau and the Ministry of Defence Security Corps.

DEFENCE SCIENCE

A Research and Development Department came into being on 1st January 1958 which includes the Defence Science Organization and the Technical Development Organization. The Department will thus include both scientists and Service officers. It is under the charge of Dr. D. S. Kothari, Scientific Adviser to the Defence Minister.

Dr. Kothari will be assisted by a Chief Scientist and a Chief Controller, the latter being a senior Service officer. He will also be closely associated with the Chiefs of Staff Committee, which, composed of the heads of the three Defence Services, is responsible for advising the Defence Minister's Committee on all military matters requiring consideration by Government.

A Defence Research and Development Committee has also been set up under the chairmanship of Dr. Kothari, with membership drawn from among the leading scientists in the country and senior officers of the three Services. There is a Policy Board and an Advisory Committee to deal with matters of scientific policy and organisation of research in relation to defence requirements. The Advisory Committee has also set up a Personnel Research Panel and an Advisory Panel for Ballistics.

A Defence Science Service has been instituted which includes all civilian scientists engaged in research, development, inspection or teaching in

* Was due to take charge in April, 1958.

any of the three Services or in the Ministry of Defence.

A Psychological Research Wing of the Organisation was formed in July 1949 under a Chief Psychologist, the main function of which is to conduct research in the assessment of human personality so that the right type of officers may be selected for the Armed Forces.

In order to meet the urgent need of training technical staff officers for the Armed Forces, the Government established an Institute of Armament Studies at Kirkee some years ago, as a constituent of the Defence Science Organisation. Apart from training Service officers, the Institute provides facilities for a comprehensive scientific study and research in the performance of weapons and equipment. It has already concluded three courses for Army, and one for Air Force officers.

Similarly, two naval laboratories, one chemical and metallurgical and the other physical, were established at Bombay and Cochin respectively to deal with science problems relating to the Navy. The former is concerned with anti-corrosion and anti-fouling paints, detection of flaws in materials and castings and welds, while the latter is engaged in research on under-water acoustics, mines and oceanography.

PRODUCTION BOARD

In order to evolve a co-ordinated policy in regard to the demand for stores and equipment for the Army, Navy and Air Force, a Defence Production Board has been constituted under the Ministry. Apart from being responsible for the efficient running of ordnance factories, the Board pays special attention to maximum utilisation of the existing capacity for defence production.

In order to use up all surplus capacity in the ordnance factories, after meeting the needs of the Services, it has endeavoured to increase the manufacture of a variety of goods for civilian consumption.

With the major emphasis laid on the indigenous production of defence equipment, there are at present in operation more than 500 research and developmental projects in respect of armaments, general stores, instruments and electronics, which are being actively progressed in the various technical establishments under the Controller-General of Defence Production.

More than 100 hitherto imported items can now be produced in this country.

Besides a number of ordnance factories meeting the country's defence requirements, the other important defence industries are the Hindustan Aircraft, Ltd., the Bharat Electronics, Ltd. at Bangalore and the Machine Tool Proto-type Factory at Ambernath near Bombay.

For detailed notes on Hindustan Aircraft and Bharat Electronics see article 'Government Industrial Undertakings'.

Defence stores purchased from abroad in 1955-56: Rs. 37·11 crores; Indigenous: Rs. 26·47 crores.

In 1956-57: Rs. 55·98 crores and Rs. 27·04 crores respectively.

NATIONAL CADET CORPS

The National Cadet Corps came into being in 1948. The aim of the Corps is (1) to develop character, comradeship, ideal of service and capacity for leadership in young men and women, (2) to stimulate interest in the defence of the country, and (3) to build up a reserve of potential officers to enable the Armed Forces to expand rapidly in a national emergency. The organisation is, thus, mainly of an educational and nation-building character. Officers and cadets have no liability whatsoever for active military service. In this way it is different from the Territorial Army, which is designed to serve as a second line of defence.

With the contemplated enlargement of the Cadet Corps under the Second Five-Year Plan, it is expected that a unit of the N.C.C. will be raised in every school and college throughout the length and breadth of the country. Giving as it did a background of military training to educated youth and inculcating in them a sense of discipline, the cadet movement caught the imagination of school and college students from the very beginning. It has proved to be the most popular and powerful youth organisation so far as the development of corporate life among students is concerned. Social service has been recognised as an essential feature of cadets' activities.

The NCC consists of three divisions: (1) Junior, (2) Senior and (3) Girls'.

The strength of the Corps as on March 31, 1957 was as follows:—

	Officers	Cadets	Total
Junior Division ..	1,662	57,205	58,867
Senior Division ..	1,016	45,873	46,889
Girls' Division ..	271	8,673	8,944

The Senior Division provides Service training to young graduates and recruitment to it is from amongst students of universities and colleges. It is composed of three wings, viz. Army, Navy and Air.

Recruitment to the Junior Division is from amongst students of secondary schools. It is also composed of Army, Navy and Air Wings.

The object of the Girls' Division is to develop all-round personality among girls. This Division has two wings, Senior and Junior, units of the Senior Wing being raised in colleges and those of the Junior Wing in schools.

To cope with the demand for military training for boys and girls in schools who cannot get admission into the N.C.C., an Auxiliary Cadet Corps has been started. This corps has made rapid progress, and its present strength is estimated at 715,586.

The A.C.C. trains the youth of the country in team spirit, discipline and patriotism. It functions under the overall supervision of the Director, National Cadet Corps, Ministry of Defence. Instructors for this organisation are selected from schools and are trained by regular Army staff of the various NCC units.

Ten per cent. of the total intake of commissioned officers in the Army, Navy and Air Force on the basis of direct entry to the Service training institutions has been reserved for N.C.C. cadets of the three Service wings.

TRAINING INSTITUTIONS

The important training institutions common to the three Services are given below:

National Defence Academy: The Joint Services Wing of the National Defence Academy was located in Clement Town, Dehra Dun, where it started functioning as an experimental measure on January 4, 1949. The present location of the Academy is at Khadakvasala near Poona where it started functioning in January 1955. The Joint Services Wing, on its move to Khadakvasala, came to be known as the National Defence Academy. At this Academy, Army, Navy and Air Force cadets receive three years' combined basic training. This three years' course for cadets of all the three Services was introduced at Khadakvasala in July 1955. The first two years are devoted to common preliminary training and the third to specialized training in the three respective Services. Thereafter, Naval and Air Force cadets proceed to their respective Services establishments for advanced training, while the Army cadets join the Military College, Dehra Dun, for a further one-year course.

Commandant, Maj.-Gen. E. Habibullah.

Defence Services Staff College: This is located in Wellington in the Nilgiri Hills in south India. One hundred officers drawn from all the three Services, including six officers from the U.S.A. and Commonwealth countries are, trained every year. The aim of the course is to prepare officers to hold second-grade or equivalent staff appointments or higher staff or command appointments.

Commandant, Maj.-Gen. P. S. Gyani.

School of Foreign Languages: This is located in New Delhi and was started on February 1, 1949. The object is to impart instruction in certain foreign languages to officers of the Armed Forces. Other Ministries also take advantage of this School, and a large number of civilian officers and non-gazetted staff attend courses.

Armed Forces Medical College: It is an inter-services post-graduate institution designed to meet the requirements of the integrated medical services of the Army, Navy and Air Force, and is located in Poona. The College has departments of medicine, surgery, pathology, hygiene, radiology, blood transfusion and dentistry. It runs the following types of courses for medical officers of the Armed Forces:

(*a*) Junior officers' course for new entrants to give them a full training in the special medical requirements of the Armed Forces.

(*b*) Senior officers' course for regular officers having 5-7 years of service to make them fit for senior appointments at a later date as also to give them refresher training in all subjects, with special emphasis on preventive and social medicine.

(*c*) Advanced courses in medicine, surgery, pathology, radiology, hygiene and psychiatry for preparing officers as specialists in the respective subjects. Clinical training is carried out at the Military Hospital, Poona.

In addition to its role as a post-graduate institution for medical officers of the Armed Forces, it gives training to other ranks, ratings and airmen in different technical trades, such as radiographers, laboratory assistants, dental technicians, X-ray assistants, laboratory assistants, blood-transfusion assistants and dental hygienists.

This institution also supplies biological and chemical reagents and blood-transfusion material and equipment to all the Service hospitals and laboratories.

One of the most important functions of the College is to undertake fundamental and applied research for the solution of practical health problems of the Armed Forces.

RESETTLEMENT SECTION

In appreciation of their services in World War II and after, the Government have given due consideration to the problem of resettlement of ex-Servicemen in civil life.

In collaboration with other Ministries of the Central Government, the State Governments, the Post-War Reconstruction Fund Trust Committees and other organisations, the Defence Ministry has formulated schemes for resettling ex-Servicemen in the Government and private service, land colonies, vocational and technical trades and motor transport services. More than 1,03,000 ex-Servicemen have already been thus rehabilitated in civil life.

In the matter of employment, the Government have accorded preference to ex-Servicemen in filling up appointments in police, excise, watch and ward and other departments for which military training is a qualification. As a result, nearly 61,600 ex-Servicemen have been placed in Government. Private organisations have absorbed nearly 37,250 ex-Servicemen.

Ex-Servicemen who have a bias for agriculture are settled on land. Special importance is attached to this mode of rehabilitation as it serves the triple purpose of reclamation of large blocks of culturable wastelands, increase in food production, and permanent settlement of ex-Servicemen and their families. The Governments of Uttar Pradesh, Punjab, Madhya Pradesh, Andhra, Madras, Mysore, and Kerala have allotted nearly 38,670 acres of culturable waste-land for the colonisation of about 3,370 ex-Servicemen.

Vocational and technical training has been offered for able-bodied disabled ex-Servicemen to qualify them for employment in industrial

concerns or enable them to set up independent business of their own. Ex-Servicemen have also been given training in basic agriculture and extension methods by the State Governments for absorption as Gram Sewaks in the community projects.

SOLDIERS', SAILORS' AND AIRMEN'S BOARD

The Indian Soldiers', Sailors' and Airmen's Board is the most important official institution connected with the welfare of the serving personnel of the Armed Forces and ex-Servicemen and their families. The nucleus of its funds was the residue of the Imperial Indian War Relief Fund which was handed in at the end of 1922. The face value of the securities constituting the fund amount to about Rs. 13½ lakhs, bearing an annual interest of over Rs. 40,000.

The Board has its seat at New Delhi and co-ordinates the activities of State boards which exist in each State. Under the control of these State boards, there exists throughout the country a network of district boards, reinforced in some cases by tehsil or taluka committees and other kindred bodies. These boards are established in all districts from which recruits have been obtained in sufficient numbers. The President of the district Board is the Collector or the Deputy Commissioner. Each Board has a paid Secretary, usually an ex-I.C.O. or ex-J.C.O. There are 188 District Boards.

The following are the objects and duties of the District Soldiers', Sailors' and Airmen's Boards:

(*a*) to endeavour to promote and maintain a feeling of good-will between the civilian and military classes,

(*b*) to give all possible assistance to the President of the Board in his capacity as head of the district in all administrative matters connected with the ex-Serviceman or his family,

(*c*) to demonstrate the benefit of and so promote the desire for mutual co-operation between ex-Servicemen and civilian officials,

(*d*) to represent and explain to the civil authorities all matters of particular moment to ex-Servicemen that require the attention of the local administration and

(*e*) to keep a watch over the welfare of ex-Servicemen and their families and the interests of serving personnel absent from home.

The Indian Soldiers', Sailors' and Airmen's Board Fund is now used primarily for payment of special pensions to blinded ex-Servicemen and to meet the expenditure on miscellaneous items, such as bank charges and audit fees in connection with the administration of the fund.

The other Central funds which are not under the control of the Indian Soldiers', Sailors' and Airmen's Board are:

Armed Forces Benevolent Fund, Flag Day Fund, Armed Forces Reconstruction Fund, Army Central Welfare Fund, Navy Benevolent Association Fund, Navy Amenities Fund, Air Force Benevolent Association Fund, Air Force Central Welfare Fund, Indian Gorkha Ex-Servicemen's Welfare Fund and St. Dunstan's India Fund.

GALLANTRY AWARDS

Three new gallantry awards were instituted by the President after independence for gallantry in combat with the enemy. They are designated the Param Vir Chakra, the Maha Vir Chakra and the Vir Chakra. They came into force with effect from August 15, 1947.

The Param Vir Chakra is awarded for most conspicuous bravery, or some daring or pre-eminent act of valour or self-sacrifice, in the presence of the enemy, whether on land, at sea or in the air. It ranks first among all awards.

The Maha Vir Chakra is awarded for conspicuous acts of gallantry in the presence of the enemy whether on land, at sea or in the air.

The Vir Chakra is awarded for acts of gallantry in the presence of the enemy, whether on land, at sea or in the air.

All members of the Armed Forces, including members of the Nursing Services and civilians working with the Armed Forces, are eligible for the above three gallantry awards.

A fourth gallantry decoration, named the Ashoka Chakra, in three grades, *viz.* Class I, Class II and Class III, was instituted for acts of gallantry other than in the face of the enemy. This also came into force with effect from August 15, 1947.

Class I of the Chakra is awarded for most conspicuous bravery, or some daring or pre-eminent act of valour or self-sacrifice. Class II of the Chakra is awarded for conspicuous gallantry and class III for gallantry.

Members of the Armed Forces and civilians alike are eligible for this award.

If a recipient of any of these Chakras again performs such an act of bravery as would have made him or her eligible to receive the same decoration, such further act of bravery is recognised by the award of a Bar attached to the riband by which the Chakra is suspended, and for every such additional act of bravery, an additional Bar is added, and any such Bar or Bars is/are also awarded posthumously. For every Bar awarded a replica in miniature of the Chakra concerned and in the case of the Param Vir Chakra of the "Indra's Vajra" is added to the riband when worn alone.

Every recipient of any of these decorations who is junior in rank to a 2nd Lieutenant in the Army, a Sub-Lieutenant in the Navy, or a Pilot Officer in the Air Force, is entitled, from the date of the act by which the decoration has been gained, to a special pension, and each additional Bar conferred carries with it additional pension for life.

A system of Mention-in-Despatches was also instituted to recognise distinguished and meritorious service in operational areas and acts of gallantry which are not of a sufficiently high order to warrant the grant of gallantry awards. The terms of eligibility for Mention-in-Despatches are the same as for gallantry awards. Names may be included posthumously and there is no objection to a person's name being mentioned in more than one despatch. A 'lotus leaf' emblem is worn by the awardees on the ribbon of the campaign/war medal concerned.

The *inter-se* order of priority of the new gallantry decorations is Param Vir Chakra, Ashoka Chakra Class I, Maha Vir Chakra, Ashoka Chakra Class II, Vir Chakra, Ashoka Chakra Class III, followed by Campaign Medals, *e.g.* General Service Medal, 1947, and Commemorative Medals, *e.g.* Independence Medal. State Medals and Commonwealth awards in the existing order of precedence come last. The latter include all the old British awards granted prior to August 1947.

The rates of monetary allowance admissible are as follows:—

(*a*) (*i*) Param Vir Chakra.—Rs. 50 p.m. (Rs. 70 p.m. in the case of J.C.Os. who have previously been given an award of the second order of gallantry, such as the I.O.M.).

(*ii*) Each Bar to PVC.—Rs. 20 p.m.

(*b*) (*i*) Maha Vir Chakra.—Rs. 30 p.m. (Rs. 50 p.m. in the case of J.C.Os. who have been previously given a gallantry award of the third order, such as the M.C.).

(*ii*) Each Bar to M.V.C.—Rs. 10 p.m.

(*c*) (*i*) Vir Chakra.—Rs. 20 p.m.

(*ii*) Each Bar to Vr.C.—Rs. 8 p.m

On the death of such a recipient of the Chakra, the pension is continued to his widow until her death or remarriage. In addition to the above allowances admissible from the Central exchequer, all the States of the Union have framed their own schemes of rewarding the gallantry award winners by cash or land grants.

The following are the details of Republican India's awards won by members of the Armed Forces (Sept. 1957):—

INDIAN ARMY

Param Vir Chakra—6 (4 posthumous).
Ashoka Chakra Cl-I—6 (4 posthumous).
Maha Vir Chakra—52 (20 posthumous).
Ashoka Chakra Cl-II—21 (6 posthumous).
Vir Chakra—290 (58 posthumous), the number including 4 bars.
Ashoka Chakra Cl-III—49 (9 posthumous).
Mention-in-Despatches—1,153 (35 posthumous).

INDIAN NAVY

Ashoka Chakra Class III—2.

INDIAN AIR FORCE

Ashoka Chakra Cl-I—1.
Maha Vir Chakra—4.
Ashoka Chakra Cl-II—5.
Vir Chakra—30 (2 posthumous).

INDIAN ARMY

The Army HQ., which, like the other two Service HQs, is located in Delhi, functions directly under the Chief of the Army Staff. It is divided into the following main branches: (*a*) General Staff Branch, (*b*) Adjutant-General's Branch, (*c*) Quartermaster-General's Branch, (*d*) Master-General of the Ordnance Branch, (*e*) Engineer-in-Chief's Branch and (*f*) Military Secretary's Branch. These branches are further sub-divided into directorates.

The Chief of the General Staff, who is one of the four Principal Staff Officers (holding the rank of Major-General) at Army Head-quarters, deals with military operations and intelligence, staff duties, training, artillery, signals, weapons and equipment, survey and the Territorial Army.

The Adjutant-General, who is another P.S.O., deals with all matters concerning man-power, such as pay and pensions, discipline, and terms and conditions of service.

The Director of Medical Services, who is responsible for the administration of the Army Medical Corps, the Army Dental Corps and the Nursing Services, is under the A. G.'s Branch.

The A. G. is also assisted by the Judge Advocate-General in matters affecting military law and international law in its military aspect.

The third P.S.O. is the Quartermaster-General, who controls all rail and sea movement, both of personnel and stores, within and outside the country. He also deals with the quartering problems of the Army as well as labour, canteen, fire and postal services. There are three Directorates under him, namely Quartering, Supply and Transport and Remounts, Veterinary and Farms.

The Master-General of the Ordnance, who is the fourth P.S.O., is responsible for the storage, care and preservation and issue of all kinds of equipment for troops. The Directorate of Electrical and Mechanical Engineering is also under the M.G.O.

The Engineer-in-Chief is the head of the Corps of Engineers and of the Military Engineering Service. The E.-in-C.'s Branch gives technical advice on all engineering matters to the three Service Headquarters.

The Military Secretary handles confidential reports of officers and maintains their personal records.

The M. S. Branch is also responsible for postings and transfers, promotion and retirement of officers and the grant of honorary ranks and all types of commissions.

Under the Army H.Q., the Indian Army is organised into three Commands—Eastern, Western and Southern, each being under a General Officer Commanding-in-Chief of the rank of Lieutenant-General. The Commands are divided into Areas, each under the command of a G.O.C. of the rank of Major-General, and the Areas, in their turn, are sub-divided into Sub-Areas under the command of a Brigadier.

The Army consists of a number of arms and services. They are Infantry, Armoured Corps, Regiment of Artillery, Corps of Engineers, Corps of Signals, Army Service Corps, Army Medical Corps, Army Dental Corps, Corps of Electrical and Mechanical Engineers, Army Education Corps, Remounts Veterinary and Farms Corps, and Corps of Military Police.

TERRITORIAL ARMY

As no country can afford to maintain a large standing fighting force in peace-time without straining its resources in men and material, a Territorial Army was formed in India, in 1949 to serve as a second line of defence.

The Territorial Army Act, 1948, was passed by Parliament in September 1948 and the Army was inaugurated in October 1949 when recruitment was thrown open.

The Territorial Army consists of various arms and service, *i.e.*, the Corps of Artillery, including anti-aircraft and coastal defence units, the Corps of Engineers, including port and railway units, the Corps of Signals, including P. and T. units, Infantry, the Service Corps, the Medical Corps and the Corps of Electrical and Mechanical Engineers. The units raised are of two types, *i.e.*, provincial units recruited from rural areas which undergo annual training of two to three months' duration at a stretch, and urban units recruited from large towns where Territorial Army units have been raised. They undergo training on the weekly drill system, *i.e.* in the evenings, Sundays and holidays with a short camp of not less than four consecutive days.

All able-bodied persons, from the unskilled labourer to highly qualified technicians, provided they are citizens of India, are eligible for recruitment. The age limits are 18 and 35 years, relaxable in the case of ex-Service (Army, Navy and Air Force) personnel and civilians possessing technical qualifications. Government servants and employees of private concerns are also eligible to join the Territorial Army.

The country has been divided into eight zones for purposes of recruitment which is done on a zonal basis, *i.e.* only residents of the zone are recruited in the units which are raised from that zone.

The role of the Territorial Army is to

(i) relieve the Regular Army of static duties and support the civil power if required.

(ii) provide coastal defence and anti-aircraft units.

(iii) provide units for the Regular Army if and when required.

When embodied, called out or under training, Territorial Army personnel receive the same pay and allowances as are admissible to the corresponding ranks of the Regular Army. It is obligatory for every civilian employer to reinstate a member of the Territorial Army in his civilian post on termination of his military training.

In order to provide an incentive to Territorial Army personnel for hard and meritorious work, 2½ per cent of the actual vacancies available at the Military College are reserved for such personnel. On successful completion of the course at the College they are to be granted regular commissions in the Army.

No officer or enrolled person is required to perform military service beyond the limits of India, save under a general or special order of the Central Government.

LOK SAHAYAK SENA

Ever since Independence, there has been a persistent demand in the country for imparting military training to the people. To meet these aspirations, a scheme known as the Auxiliary Territorial Force was introduced in 1950, with the aim of giving elementary military training to as large a number of people as possible.

Under this scheme, 13,000 people were trained during 1953-54. Later, when it was decided to enlarge the scope of the scheme, the ATF was wound up and its place taken by the National Volunteer Force, since re-designated Lok Sahayak Sena.

The L.S.S. was inaugurated on May 1, 1955, to train five lakh men in five years or less. All able-bodied male citizens between 18 and 40 years, except ex-Servicemen and N.C.C. cadets, are eligible to join this force. The object is not to raise a force for the defence of the country but to get people interested in national service and to inculcate in them a sense of discipline, self-reliance and responsibility.

Training in this force is imparted at camps organised throughout the country. The duration of a training camp is 30 days at which a maximum of 500 trainees are recruited. Training in this force includes drill, rifle training, elementary field engineering, first aid, hygiene and education.

For the duration of the camp, trainees are allowed free rations, accommodation, medical facilities and uniform. At the conclusion of 30 days training, each trainee is paid Rs. 15 as an out-of-pocket allowance.

Now in the third year of its existence, the L.S.S. has so far held 433 camps and trained a total of 1,95,152 people (Sept. 1957).

SCHOOLS AND COLLEGES

Recruitment for the permanent cadre of commissioned ranks in the Army is done through the National Defence Academy, Khadakvasla, and the Military College, Dehra Dun. After completion of their three-year course at the N.D.A. Army cadets have to spend another one year at the Military College before being commissioned. Direct admission to the College at higher age-levels also continues, though the number of cadets so taken is limited.

The Military College at present conducts courses for ex-N.D.A., direct-entry and N.C.C. cadets, serving personnel, and technical graduates. Regular and direct-entry cadets commissioned in the technical branches are sent on specialised post-commission courses. The technical graduates' course was specially introduced in January 1948 as a temporary measure to give military training to qualified technicians and engineers for the Corps of Engineers, the Corps of Signals and the Corps of Electrical and Mechanical Engineers to cope with the increased requirements of technicians for the Army.

Every year, a soldier has to pass certain compulsory qualification tests. The training varies from unit to unit but includes military instruction and knowledge of the arms he has to handle. Several Army schools exist for giving basic as well as advanced training in the different arms and trades and for training instructors sent by different units from all over the country. These not only train other ranks but also officers and JCOs.

The Armoured Corps Centre and School at Ahmednagar trains recruits as well as regimental instructors. The School of Artillery at Deolali provides training in the field, anti-tank, anti-aircraft and coastal artillery branches. The Army Ordnance School at Jabalpur imparts specialised training to all officers and ORs in identification, handling and storage of various types of items, including ammunition and explosives.

The Infantry School at Mhow is the home of infantry doctrines and a centre for developing infantry weapons. The School also conducts courses for senior officers and junior commanders of all corps in the Army. The Army Service Corps has two schools, one at Meerut and the other at Bangalore, giving training in organisation and administration, animal transport, mechanical transport and supplies. The Army Medical Corps has its training centres at Lucknow and Poona.

The College of Military Engineering at Kirkee, near Poona, trains officers of the Corps of Engineers, the Corps of Signals and the Corps of Electrical and Mechanical Engineers to the degree standard in civil, tele-communication and electrical and mechanical engineering respectively.

The Madras, Bombay and Bengal Engineer Groups at Bangalore, Poona and Roorkee provide basic technical and specialised Corps training to officers and ORs of the Corps of Engineers as also civilian officers of the Military Engineering Service.

The Corps of Electrical and Mechanical Engineers has its training centre at Secunderabad, while the School of Signals, which gives technical training in tele-communication engineering to personnel of the Corps of Signals, is situated at Mhow. The Army Signals School, which trains officers and OR's of all arms as instructors in regimental signals, is located at Jabalpur.

The other training institutions in the Army are the Remounts, Veterinary and Farms Centre and School at Meerut, the Education Corps School at Pachmarhi, and the Intelligence Corps School and the Physical Training School, both at Poona.

The various commissioned ranks in the Army from the top downwards are: General, Lieutenant-General, Major-General, Brigadier, Colonel, Lieutenant Colonel, Major, Captain, Lieutenant and Second Lieutenant. The ranks of the Junior Commissioned Officers and other ranks respectively are Subedar-Major/Risaldar-Major, Subedar/Risaldar, and Jemadar/Dafadar, and Havildar, Naik, Lance-Naik and Sepoy/Sowar.

INDIAN NAVY

The Naval HQ, under the Chief of the Naval Staff, exercises control over the Indian Navy through the following four operational and administrative commands:

1. Flag Officer (Flotilla), Indian Fleet.
2. Commodore-in-Charge, Bombay.
3. Commodore-in-Charge, Cochin.
4. Naval Officer-in-Charge, Vishakapatnam.

The White Ensign was replaced by the Indian Naval Ensign on January 26, 1950. The Indian Navy dropped its title "Royal" from its name from January 26, 1950, when India became a Republic. Since that date establishments and ships are referred to as I.N.S. (Indian Naval Ship). The President's Colour was presented to the Navy by the President, Dr. Rajendra Prasad, in May 1951.

At the end of 1957 there were only five British Officers in the Navy.

EXPANDING FLEET

Today, the Indian Fleet consists of I.N.S. MYSORE, a cruiser (Flagship of the Navy), the cruiser I.N.S. DELHI, two Destroyer Squadrons (I.N.S. RAJPUT, RANJIT, RANA, GODAVARI, GOMATI and GANGA), one Frigate Squadron (I.N.S. CAUVERY, KISTNA and TIR), and three Minesweeping Squadrons (I.N.S. BOMBAY, KONKAN, MADRAS, RAJPUTANA, BENGAL, ROHILKHAND, BASSEIN, BIMLIPATAM, KARWAR, KAKINADA, CANNANORE and CUDDALORE).

In addition, the Fleet has some survey ships, a tanker and some auxiliary craft.

The Fleet is being expanded and the programme of replacement of old ships implemented in stages. The Colony-class cruiser, I.N.S. MYSORE (formerly known as H.M.S. NIGERIA), acquired by the Navy in 1954, was commissioned in the United Kingdom in August 1957. On joining the Fleet on 30th December 1957 the MYSORE became the Flagship of the Flag Officer (Flotilla).

An anti-submarine frigate, I.N.S. KHUKRI, and an anti-aircraft frigate, I.N.S. BRAHMAPUTRA, were recently launched in the U.K. and a dredger, I.N.S. SHAKTI, in West Germany. Six more frigates are on order from the U.K.

It is proposed to build certain simpler types of naval vessels in India and orders have been placed with the Hindustan Shipyard, Ltd., for a survey ship and a mooring vessel. Though designed primarily for the protection of convoys against aircraft and submarines, the BRAHMAPUTRA can serve as a small-size destroyer during operations.

The survey unit of the Navy, which now comprises I.N.S. INVESTIGATOR, JUMNA and SUTLEJ, carries out the necessary survey of India's coast and approaches to harbours.

Extensive surveys of major ports, like Bombay and Madras, have already been completed. With the help of the data provided by such surveys, charts are being prepared by the Hydrographic office at Dehra Dun.

With the expansion of the Navy, the necessity arose of providing adequate docking facilities. Therefore, a scheme for the expansion of the Naval Dockyard in Bombay in five phases, spread over a number of years, commensurate with the growing needs of the Fleet, was formulated. Work on the first phase began in September 1954 and is now proceeding apace. When completed, the Dockyard will have sufficient docking and berthing facilities and workshop capacity to meet the entire needs of the Navy.

NAVAL AVIATION

The Naval Air Arm, which is one of the youngest branches of the Navy, came into being in 1948 for training aircrew, followed soon after by the setting up of a Naval Air Station at Cochin. Later, the formation of a Fleet Requirements Unit was approved, aircraft, equipment and spares acquired and officers and ratings deputed for training courses abroad. The civil airfield at Cochin was acquired for the Navy in 1953 to be converted into the first Naval Air Station. Soon after, the first batch of Sealand aircraft were purchased from the U.K. and later the station was named I.N.S. GARUDA. Early in 1955, a number of Firefly target-towing aircraft were obtained from the U.K. for providing gunnery-training facilities for the Fleet. The strength of the Fleet Requirements Unit was further augmented when three HT-2 aircraft were acquired from HAL to give instructional training to aircrew and other personnel.

As a result of the latest decision of the Government to acquire H.M.S. HERCULES, an aircraft-carrier, together with a fleet of operational aircraft, the future of naval aviation in India is assured. The HERCULES, with a 15,700-ton displacement, is at present being re-fitted and modernised in the U.K. and will become available in a few years. Meanwhile, the question of manning the carrier and training its naval aircrew is engaging the attention of the Government. As a first step, a Naval Air Training School has been set up at Cochin to train ratings in the maintenance and repair of aircraft. At the same time, the Government are considering setting up a School for Naval Airmen for training non-technical personnel.

To meet the meteorological needs of the Fleet Requirements Unit, a Naval Weather Service Organisation, manned by trained instructor officers, was established at the GARUDA towards the end of 1952. Since then, more and more instructor officers have been trained to take over meteorological duties, both ashore and aboard ships. This organisation now also conducts courses of instruction in meteorology for naval ratings.

The training of other naval personnel is carried out in the shore establishments of I.N.S. VENDURUTHI, Cochin, I.N.S. CIRCARS, Vishakapatnam, I.N.S. ANGRE, Bombay, I.N.S. KONJALI, Bombay, I.N.S. SHIVAJI, Lonavla, I.N.S. VALSURA, Jamnagar, and I.N.S. HAMLA, Bombay. I.N.S. ASVINI at Bombay is the first naval hospital to be set up.

Since the Fleet was formed, Indian ships have visited, among others, Burma, Malaya, Siam, Indonesia, the Philippines, Borneo, Australia, New Zealand, Iran, Iraq, Arabia, Egypt, Turkey, Greece, East Africa, Italy and France. I.N.S. DELHI, RANJIT and TIR participated in the Coronation Naval Review in June 1953. Routine combined training exercises have also been carried out by Indian ships with those of the Commonwealth Navies from time to time.

The various ranks in the Navy from the top downwards are: Admiral, Vice-Admiral, Rear-Admiral, Commodore, Captain, Commander, Lieut.-Commander, Lieutenant, Sub-Lieutenant, Branch List Officer, Midshipman, Chief Petty Officer, Petty Officer, Leading Rate, Able Rate and Ordinary Rate.

A Bill to consolidate and amend the law relating to the government of the Navy has been passed in Parliament.

INDIAN AIR FORCE

The Air HQ is divided into three main branches—Air Branch, which deals with operations, training, policy and plans, signals, reserves and intelligence, Personnel and Organisation Branch and Technical and Equipment Services Branch. Each is under a Branch P.S.O. who, in turn, has several Directorates under him.

The Indian Air Force is, in the main, divided into three major formations, namely Operational, Training and Maintenance Commands under the control of the Air HQ.

The Operational Command controls all flying units—fighter, bomber, reconnaissance and air-transport squadrons. The Training Command has under its control training schools and colleges for both officers and airmen for technical and non-technical ground training and for aircrew flying training. The Maintenance Command controls all technical and equipment units in the I.A.F.

The three Commands exercise control through their Wings and Stations located in various parts of the country. Under each Wing and Station come various flying, training, technical or other static units.

The different types of aircraft used by the IAF:

Training: Tiger-Moth, Percival Prentice, HT 2, Harvard, Spitfire and Vampire.

Fighter: Vampire, Toofani (Ouragan) and Mystere;

Transport: Dakota, Devon, C-119 (Boxcar), Viscount, Ilyushin and Helicopter.

Bomber: Liberator, Canberra.

Reconnaissance: Spitfire, Austere and Harvard.

Towards the end of 1957 the I.A.F. was due to acquire Canadian built Otter aircraft.

During the past few years, this youngest Defence Service, which will celebrate its Silver Jubilee on April 1, 1958, has attained self-sufficiency in training its personnel for flying and technical and non-technical duties.

Consequent on certain changes in their functional scope, some of the major Air Force training establishments have recently been redesignated. The Air Force Station at Hyderabad provides advanced training to aircrew. The Air Force Flying College at Jodhpur is the nursery of pilots, navigators and air-signallers. The Air Force Administrative College at Coimbatore trains officers of the ground duty branches. The Air Force Technical College at Jalahalli, near Bangalore, imparts training to engineering officers and technical airmen of certain advanced signals trades. The No. 1 Ground Training School at Jalahalli trains non-technical airmen. The No. 2 Ground Training School at Tambaram (Madras) trains technical tradesmen (airmen). The No. 3 Ground Training School at Jalahalli is intended for airmen trainees of higher signals trades.

Vampire jet fighters are being assembled at the Hindustan Aircraft Ltd., Bangalore. Folland Gnat jet fighters are also to be constructed under licence by the HAL for the I.A.F. in the near future.

In pursuance of the Reserve and Auxiliary Air Forces Act of 1952, five Auxiliary Air Force Squadrons have so far been raised at Delhi, Bombay, Calcutta, Allahabad and Madras. Similar auxiliary squadrons will be formed in other principal cities of India.

Since Independence, the Air Force has been entrusted with a number of national duties which may well be termed as full-fledged operations in peace-time. Some of these tasks were airlift of Indian personnel of the International Supervisory Commissions in Indo-China, air-dropping of foodgrains and medical supplies in the North-East Frontier Agency and other places affected by floods and other natural calamities and carrying out of photographic surveys to assist in the planning and development of hydro-electric schemes and other projects under the Five-Year Plans.

The various commissioned ranks in the Air Force from the top downwards are: Air Chief Marshal, Air Marshal, Air Vice-Marshal, Air Commodore, Group Captain, Wing Commander, Squadron Leader, Flight Lieutenant, Flying Officer and Pilot Officer.

The men are ranked as Master Warrant Officer, Warrant Officer, Flight Sergeant, Sergeant, Corporal, Leading Aircraftsman, and Aircraftsman Class I and Aircraftsman Class II.

EDUCATION

SINCE August 15, 1947 Education at the Centre has been constituted into a separate Ministry of Education. The State Governments are fully autonomous in regard to educational matters except in respect of educational development programme for which they receive grants-in-aid from the Central Government. Such programme has to be approved by the Central Government who have to examine whether it is in accord with the All-India approved educational policy.

The Ministry has offices in London, Washington, Nairobi and Bonn.

It is responsible for the four Central Universities of Aligarh, Banaras, Delhi and Visva Bharati, and some institutions of higher learning. Other departments that come within the purview of the Ministry are: Anthropological Survey of India, Archaeological Survey of India, National Archives, National Library, Calcutta. The Ministry is also responsible for cultural relations with foreign countries and UNESCO.

The work of the Ministry is distributed among eight Divisions: Basic and Social Education, Secondary Education, Administration and University Education, Technical and Scientific Education, Hindi, Cultural Relations, Scholarships, and Information, UNESCO, Publications, Statistics.

In the States the Secretary, Department of Education, is the permanent head of the Department and the Director of Education acts as an expert Adviser to the Minister in charge of Education. The Director controls the inspecting staff and the teaching staff of the Government institutions. In some States the functions of Director are discharged by the Educational Officer, in others by the Education Secretary.

The authority of Government in controlling the system of public instruction is in part shared with and in part delegated to Universities, and Boards of Secondary and Intermediate Education as regards secondary education, and to local bodies as regards elementary education in some States.

Certain forms of Technical Education are under the technical departments concerned and come within the purview of the Minister in charge of those Departments.

Institutions under private management are controlled by Government and by local bodies by "recognition" and by the payment of grants-in-aid, with the assistance of the inspecting staffs employed by Government and by local bodies.

Boards of Education: There are Boards of Secondary Education in Bihar, Kerala, Delhi, Andhra, Madhya Pradesh, Madras, Orissa, West Bengal, Rajasthan, Mysore, Bombay and a Board of High School and Intermediate Education in Uttar Pradesh.

PRESENT POSITION

The present position as well as the progress made since independence is set out below.

Primary Education

No. of primary schools in major provinces (Part 'A' States) on 31st March 1948: 1,40,121.

Total enrolment on 31st March, 1948: 11,000,964.

No. of primary schools in major provinces (Part 'A' States) on 31st March, 1956: 2,15,320.

Total enrolment on 31st March, 1956: 17,985,074.

In the country as a whole there were 2,09,671 primary schools in 1950–51 and the number of children in the age group 6–11 attending school was 186·78 lakhs. By the end of the First Plan the number of Primary Schools rose to 2,78,056, and the number of children in the age group 6–11 attending school was 2,45,18,000.

Thus against 30 per cent of the children in the age group 6–11 attending school in 1947, 53 per cent of the children in this age group attended schools in 1955–56.

In 1948 the number of areas in which primary education was compulsory was 224 towns and 10,010 villages. The corresponding figures for 1955–56 were 1,093 towns and 39,276 villages.

Basic education is now accepted as the pattern of national education.

The aims have been: to provide free and compulsory education to all children upto the age of 14 within ten years of the commencement of the Constitution, that is by 1960*; second, to convert as many primary schools as possible into Basic schools; third, to enrich the curriculum by introducing creative activity and improve the quality of text-books.

The number of Junior and Senior Basic Schools for boys and girls increased from 34,878 in 1952-53 to 47,813 in 1955–56. The number of students rose from 30,81,524 in 1952–53 to 50,60,207 in 1955–56.

The Government of India appointed an Assessment Committee in 1955. The report is under consideration by State Governments and whatever recommendations are acceptable are being implemented.

There is now a National Institute of Basic Education.

An All-India Council for Elementary Education plans and organizes studies pertaining to elementary education and assists in the production of suitable literature.

Secondary Education

No. of secondary schools in the major provinces of India in 1948: 12,693.

No. in 1956: 25,627, an increase of 102 per cent.

No. of middle schools in the whole country on 31st March, 1956: 21,730.

No. of high schools: 10,837.

Enrolment in secondary schools (middle and high): 85,26,509.

The accepted pattern of education comprises eight years of elementary (Basic) education; three years of higher secondary education with diversified courses to give it a vocational bias and make it a terminal point for entry into trade or profession; and three years of university education leading to the first degree.

At the higher secondary stage, a child should in addition to the core curriculum which would include languages, social studies, general science and one compulsory craft—a child should opt for one of the following diversified courses to be provided in reorganized multi-purpose schools:—humanities, science, technical, commerce, agriculture, fine arts or home science.

This new scheme for the conversion of high schools into multi-purpose schools was launched in 1954 along with a number of ancillary schemes, such as the training of teachers in new subjects, improvement of teaching facilities particularly in science, of school libraries, the introduction of craft in middle schools, and also other miscellaneous schemes like teachers' seminars, training of career masters, etc.

Upto October 1956, 331 multi-purpose schools with a total number of 450 diversified courses were established. Of these 331 schools 88 were of the higher secondary type. By April 1957 it was estimated that 178 more schools would be converted into multi-purpose schools with 277 diversified courses.

The Central assistance was on the basis of 66 per cent of the non-recurring and 25 per cent of the recurring expenditure.

During the First Plan period and upto the end of the first year of the Second Plan the total assistance granted was Rs. 5·19 crores.

The pattern of assistance in 1957–58 was 60 per cent of the total expenditure.

In addition there is a 50 per cent assistance for all schemes in secondary education.

There is an All-India Council for Secondary Education set up in August 1955 to help implement the recommendations of the Secondary Education Commission.

University Education

In 1948 the total number of colleges in the major States was 578. Of these the colleges devoted to general education was 449. Figures for 1956 were 844 and 516 respectively.

In 1948 the number of students for general education in the major States was 1,79,173. In 1956 it was 4,66,396. The number had increased by 76 per cent.

For India as a whole, these figures were on 31st March 1956:

No. of Arts and Science colleges (including 35 Research Institutions): 736.

No. of Technical and Professional Colleges: 346.

No. of students for general education: 5,75,271.

No. of students for technical and professional education: 1,49,140.

In 1948 the total number of graduates from Part 'A' States was 27,000. Of these graduates in Arts and Science numbered 18,000. The corresponding figures for 1956 were 69,000 and 44,000 respectively.

Expenditure on universities and colleges (general education) in the major States rose from Rs. 5·8 crores in 1948 to Rs. 17·3 crores in 1956. On professional colleges the expenditure rose from Rs. 1·82 crores to Rs. 5·5 crores in 1956. The corresponding figures for the whole of India were Rs. 22·17 crores and Rs. 6·99 crores respectively as on 31st March 1956.

By 1952 no major linguistic area in India was without a university of its own. As for the medium of instruction, the general desire was to switch over to the regional languages.

The policy in regard to university education is largely the one recommended by the Indian University Education Commission which made a report in 1949. (This report is summarized in a previous edition).

There is now a University Grants Commission. (See also the note below). Its duty is to take such steps as it thinks fit for the promotion and co-ordination of university education and for the determination and maintenance of the standards of teaching, examination and research.

In 1956–57 the Commission spent Rs. 3·42 crores by way of grants. Of this Rs. 35·29 lakhs were spent for Humanities, Rs. 68·67 lakhs for Science, and Rs. 55·8 lakhs for technology besides a grant of Rs. 36·85 lakhs for the centenary celebrations of the Calcutta, Bombay and Madras Universities.

Of the Rs. 27 crores provided for university education in the Second Plan, Rs. 3·42 crores was spent by the commission in 1956–57. A provision of Rs. 4·17 crores has been made for grants during 1957–58 which includes Rs. 2·75 crores for Plan projects.

The University Grants Commission has taken steps to revise the scales of pay of university teachers.

Loans are given for the construction of hostels for colleges, 1956–57: Rs. 38·41 lakhs. Provision for 1957–58: Rs. 14·40 lakhs. Loans are also given for staff quarters for universities and hostels. Provision for 1957–58: Rs. 30·0 lakhs.

About the three-year degree course, Delhi University adopted this in 1941 with an 11-year school course†.

* This is now modified: education upto 11 for all children by the end of the Third Plan 1965-66.
† Eight Universities introduced this course in July 1957.

The Government of India appointed a Committee under the chairmanship of Mr. C. D. Deshmukh to work out the estimates of expenditure and to consider ancillary problems connected with the introduction of the three-year course. This report was submitted on 1st May, 1957 and was under consideration at the time of writing (1958 January).

About the introduction of General Education courses into the college curriculum, a beginning has been made at a few universities. A study team visited a number of universities in the U.K. and U.S.A. to study the organization of these courses and made a report which was later discussed at a number of regional conferences by University authorities.

Rural Higher Education

To look after the interests of higher education in the rural areas a National Council for Rural Higher Education was set up in 1956.

There exist ten Rural Institutes whose aim is to do for the rural areas what the universities do for the urban areas. These Institutes are to provide courses in rural services, rural and civil engineering and agricultural science.

These Institutes will confer diplomas after a three-year course preceded by a higher secondary examination. The details of the preparatory matriculation course are also being worked out.

The ten Institutes are :

Gandhigram Rural Institute, Gandhigram ; Ramakrishna Mission Vidyalaya Rural Institute, Coimbatore ; Lok Bharati Rural Institute, Sanesara ; Rural Institute, Amravati ; Mouni Vidyapeeth Rural Institute, Gargoti ; Vidya Bhavan Rural Institute, Udaipur ; Balwant Vidyapeeth Rural Institute, Bichpuri, Agra ; Rural Institute, Jamia Millia, New Delhi ; Institute of Rural Higher Education, Sriniketan, West Bengal ; Rural Institute of Higher Studies, Birouli, Bihar.

TOTAL EXPENDITURE

On 31st March, 1947, the major States and Centrally Administered Areas together spent about Rs. 205 million on education. The Central Budget was considerably less than Rs. 20 million.

The figures for three recent years, 1954–55, 1955–56 and 1956–57 show that the total budget provisions for education by the Central and State Governments together were Rs. 1,177, Rs. 1,517 and Rs. 1,798 million respectively, so that even in the course of these three years, the amount has increased by about 52 per cent.

In 1956–57 the amount provided for education was nearly 12·3 per cent of the total national budget.

The total national expenditure on education from all sources, governmental or otherwise, has also increased considerably. This was about Rs. 551 million on 31st March 1948 and rose to Rs. 1,894 million in 1956.

This is, undoubtedly, an appreciable increase, but in view of the estimate of Rs. 4,000 million that is needed to finance a truly national system of education, it is also an indication of the gap that remains to be bridged.

UNIVERSITIES

The Central Universities are four : Aligarh, Banaras, Visva Bharati and Delhi.

There were in all 35 universities in India in December, 1957. The names of the universities with the names of the Vice-Chancellors are given below :—

1. *Agra University*.—Lt.-Col. K. P. Bhatnagar, M.A., LL.B.
2. *Aligarh University*.—Col. B. H. Zaidi, B.A. (Cantab.), Bar-at-Law.
3. *Allahabad University*.—Dr. Shri Ranjan, M.Sc. (Cantab.), D.Sc. (France).
4. *Andhra University* (Waltair).—Dr. V. S. Krishna, B.A. (Oxon.), Ph.D. (Vienna).
5. *Annamalai University* (Annamalainagar).—T. M. Narayanaswamy Pillai, M.A., B.L.
6. *Banaras Hindu University*.—Dr. Veni Shanker Jha, Ph. D. (London).
7. *Baroda University*.—Mrs. Hansa Ben Mehta, B.A. (Hons.).
8. *Bihar University* (Patna).—Dr. Dukhan Ram, B.Sc., M.B., D.L.O., D.O.M.S. (Lond.).
9. *Bombay University*.—T. M. Advani, M.A.
10. *Calcutta University*.—Professor N. K. Sidhanta, M.A. (Cantab.).
11. *Delhi University*.—Dr. V. K. R. V. Rao, B.A., Ph.D. (Cantab).
12. *Gauhati University*.—S. K. Bhuyan, M.A., B.L., Ph.D. (Lond.), D.Litt. (Lond.).
13. *Gujarat University* (Ahmedabad).—Maganbhai P. Desai, Shataka Parangala (Guj. Vid.)
14. *Jabalpur University* (Jabalpur).—Pandit K. L. Dubey, B.A., LL.B.
15. *Jammu & Kashmir University* (Srinagar).—A. A. A. Fyzee, M.A. (Cantab).
16. *Karnatak University* (Dharwar).—D. C. Pavate, M.A. (Cantab.).
17. *Kerala University* (Trivandrum).—Dr. John Matthai, B.A., B.L. (Madras), B.Litt. (Oxon.), D.Sc. (Lond.).
18. *Lucknow University*.—Prof. K. A. Subramania Iyer, M.A. (Lond.).
19. *Madras University*.—Lt.-Col. Diwan Bahadur Sir A. Lakshmanaswami Mudaliar, B.A., M.D., LL.D., D.Sc., F.R.C.O.G., F.A.C.S.
20. *Mysore University*.—K. V. Puttappa, M.A., D.Litt.
21. *Nagpur University*.—Lt.-Col. Justice K. T. Mangalmurti, I.C.S.
22. *Osmania University* (Hyderabad).—D. S. Reddy, M.A. (Oxon.).
23. *Patna University*.—Dr. Balbhadra Prasad, D.Sc. (Lond.).
24. *Poona University*.—Dr. R. P. Paranjpye, M.A. (Cantab.), D.Litt. (Poona).
25. *Punjab University* (Solan).—Dr. A. C. Joshi, D.Sc., F.N.I.
26. *Rajasthan University* (Jaipur).—G. C. Chatterjee, M.A. (Punjab), B.A. (Cantab.).
27. *Roorkee University*.—A. N. Khosla, I.S.E. (Retd.).
28. *Sardar Vallabhbhai Vidyapeeth* (Vallabh Vidyanagar, Anand Dist., Bombay)—B. D. Patel, L.C.E. (Banaras).
29. *Saugor University*.—Dr. Dwaraka Prasad Mishra, B.A., LL.B., D. Litt.
30. *S. N. D. T. Indian Women's University* (Bombay).—Dr. Premlila V. Thackersey, D. Litt. (Banaras).
31. *Sri Venkateswara University* (Tirupati, Andhra).—S. Govindarajulu, M.A., LL.B. (Cantab.), B.L., Bar-at-Law.
32. *Utkal University* (Cuttack).—Dr. P. K. Parija, M.A. (Cantab.), I.E.S. (Retd.).
33. *Jadavpur University* (Calcutta).—Dr. T. Sen, Eng. (Munich), (*Rector*).
34. *Vikram University* (*Ujjain*).—Dr. Mata Prasad, D.Sc., F.R.I.C., F.N.I.
35. *Visva Bharati University* (Santiniketan).—Prof. Satyendranath Bose, M.Sc., F.N.I.

UNIVERSITY GRANTS COMMISSION

(C.S.I.R. Building, New Delhi)

The members and staff of the Commission are given below.

Members : C. D. Deshmukh (*Chairman*), Pandit H. N. Kunzru, Dr. K. S. Krishnan, G. C. Chatterji, Dr. A. Lakshmanaswami Mudaliar, Prof. N. K. Sidhanta, K. G. Saiyidain, N. N. Wanchoo.

Secretary, Samuel Mathai ; *Asst. Secretary*, S. H. Verma.

The statement given below shows the grants paid to the universities during 1956-57 :

	Rs.	a.	p.
CENTRAL UNIVERSITIES.—			
Aligarh Muslim University.	42,56,319	3	0
Banaras Hindu University.	68,40,350	9	0
Delhi University ..	44,51,545	10	0
Visva Bharati University.	13,85,496	15	0
Total	1,69,33,710	5	0
Constituent Colleges of Delhi University ..	15,99,787	0	0
STATE UNIVERSITIES.			
Allahabad University.	3,09,700	0	0
Andhra University ..	6,16,877	15	0
Agra University ..	20,000	0	0
Annamalai University.	5,72,560	0	0
M. S. University of Baroda.	3,84,956	0	0
Bombay University*	18,90,493	3	0
Bihar University ..	1,90,000	0	0
Calcutta University*	20,27,999	0	0
Gauhati University ..	4,24,718	12	0
Gujarat University ..	83,127	6	0
Jadavpur University..	11,45,668	0	0
Jammu and Kashmir University	10,000	0	0
Karnatak University.	4,58,639	6	0
Lucknow University.	3,31,000	0	0
Madras University* ..	21,00,686	10	0
Mysore University ..	80,000,	0	0
Nagpur University ..	2,41,560	1	0
Osmania University ..	6,80,845	7	0
Patna University ..	1,97,000	0	0
Poona University ..	2,60,000	0	0
Punjab University ..	5,48,256	0	0
Rajputana University.	1,23,616	0	0
Saugar University ..	3,51,050	0	0
Travancore University.	2,42,276	0	0
Roorkee University ..	7,70,622	0	0
Utkal University ..	5,90,411	9	0
Sri Venketeswara University	1,78,300	0	0
S. V. B. Vidyapeeth ..	30,000	0	0
Total ..	1,48,66,363	5	0
Total for Central Universities, Constituent Colleges of Delhi University and State Universities	3,33,99,860	0	0
Grant paid to CARE as import duty on Scientific equipment received under Wheat Loan Education Exchange Programme (including demurrage Rs. 70,000).	4,70,000	0	0
Grand Total	3,38,69,860	10	0

* This includes centenary grants also.

KEY REPORTS

The key reports and resolutions on which primary and secondary education systems are planned are :

Resolution of the Central Advisory Board of Education 1935 Dec. ; Wood-Abbot Report; Zakir Hussain Committee Report (Wardha Scheme or Basic Education Scheme); Reports of the Central Advisory Board (14) : (1) Kher Committee Reports on Basic Education ; (2) Adult Education ; (3) The Physical Welfare of School-children ; (4) School Buildings ; (5) Social Service ; (6) The Recruitment, Training and Conditions of Service of Teachers in Primary, Middle and High Schools ; (7) The Recruitment of Education Officers ; (8) Technical (including Commercial and Art) Education ; (9) Text-books ; (10) Examinations ; (11) Educational Administration ; (12) Agricultural Education ; (13) Religious Education ; (14) Selection of Pupils for Higher Education ; (15) Report on Post-war Educational Development in India (Sargent Report) ; (16) Secondary Education Commission Report (Lakshmanaswami Mudaliar Commission) ; (17) Saksena Report on Adult Education.

University education has had a report published on it (Radhakrishnan Commission).

TECHNICAL EDUCATION

IN 1947 India produced only 930 graduates in engineering and 320 graduates in technology and about 1,450 diploma holders. In 1956 the total output of graduates in this field was over 4,000 and of diploma holders about 4,200.

When the relevant schemes under the Second Plan are implemented technical institutions will be in a position to admit every year about 10,000 students for degree courses and 21,000 students for diploma courses.

Every State except Jammu and Kashmir has at least one engineering college and one polytechnic.

The All-India Council for Technical Education, the body that advises Government on technical education, has carried out a comprehensive study of the state of each technical institution in the country and has drawn up schemes for its improvement. It has also prepared detailed schemes for new institutions to be established.

The total cost of the schemes approved till March 1957 was of the order of Rs. 16·77 crores for building and equipment and Rs. 1·54 crores for staff and maintenance. Of this sum the Central Government was to provide about Rs. 11 crores for equipment and building and Rs. 84 lakhs for recurring expenditure. As against this a sum of Rs. 7·63 crores was paid upto the end of 1956.

There is provision for providing residential facilities too. Loans totalling Rs. 3·36 crores have been approved for over 100 institutions and Rs. 2 crores have been sanctioned. When the scheme is completed additional accommodation for about 15,000 students will be provided.

The establishment of the Indian Institute of Technology at Kharagpur in West Bengal as the first in a chain of four regional higher technological institutes, and the development of the Indian Institute of Science at Bangalore as a centre of advanced technology mark a new trend in the field of technological education in this country.

Fully equipped for facilities for the teaching of the humanities as well as the basic sciences they will be in a position to impart a complete education.

The Indian Institute of Technology provides facilities for education to over 1,600 students in the undergraduate courses and to 400 in post-graduate courses and research work.

By an Act of Parliament the Institute has been made an autonomous body. While the Central Government will finance it, its administration will be in the hands of a Board of Governors.

The Act describes the institution as one of national importance.

The three other regional Institutes—one in Bombay, one in Madras and one in Kanpur—are in the process of establishment.

Each Institute when completed will provide for the education of over 1,500 students in the undergraduate and 400 in the post-graduate courses.

Thus by 1961 there will be over 10,000 places for advanced engineering courses in the country and 21,000 for diploma.

The Institute in Bombay which is expected to start functioning in 1958 has secured technical assistance from the U.S.S.R. under the UNESCO Expanded Technical Assistance Programme. Equipment worth Rs. 100 lakhs, 20 Soviet experts and facilities for the training of Indian staff in the U.S.S.R. are expected to be provided.

For a fuller note on the Indian Institute of Science at Bangalore see under Bangalore District, Mysore State.

COUNCIL OF TECHNICAL EDUCATION

The All-India Council for Technical Education was set up by the Government of India in November 1945 to advise them on all matters relating to the co-ordination and development of technical education in the country after the high school stage. Its personnel has been drawn from Government of India Departments, State Governments, Parliament, industry and commerce, professional and educational bodies.

The Council during its existence of over 12 years has made a valuable contribution towards the development and expansion of facilities for technical education. It functions through certain technical and *ad hoc* committees appointed from time to time. The Council does not however, have any executive, administrative or controlling powers.

The work of the Council falls broadly into three categories:—Framing of courses of technical studies and laying down of standards; Improvement and strengthening of the existing institutions; Establishment of new institutions, and the development of facilities in new fields of technical education.

For laying down standards in technical education, the Council has appointed seven Boards of Studies, *viz.*, Engineering and Metallurgy, Chemical Engineering/Technology, Textile Technology, Architecture and Regional Planning, Applied Art, Commerce and Management.

In addition to the seven Boards, the Council has appointed four Regional Committees—one each for the eastern, western, southern and northern regions of the country to survey the facilities of their region, determine regional needs, foster liaison between industry and technical institutions, assist and advise on co-ordinated development.

Day to day work is, however, carried on by a small committee known as the Co-ordinating Committee of the Council which has on it representatives of all the interests that constitute the Council. The Council meets once a year; the Board once or twice a year; the Co-ordinating Committee and Regional Committees more often.

SCHOLARSHIPS

In order to promote fundamental research in various branches of Science and Technology in Universities and other Educational Institutions, grants-in-aid are paid to individual research workers who experience difficulties in the pursuit of their research work. The grants are intended for the purchase of special apparatus or for its construction, for special chemicals or stores, books, etc. not available in Universities or Institutions where the research is proposed to be carried on.

Between 1952 and 1957 grants amounting to Rs. 12,52,506 were sanctioned for payment to individual research workers through the Universities concerned.

Pursuant to the recommendation of the Scientific Manpower Committee, a Research Training Scholarships Scheme was started in 1949–50 with the twin objective of promoting scientific and technological research in Universities and other educational institutions and training research workers required for various national development programmes.

These scholarships are awarded to candidates possessing M.Sc. or equivalent qualification and who are engaged in research of doctorate standard in basic sciences or to graduates in engineering or technology who are doing post-graduate research.

At present there are about 680 scholarships each of the value of Rs. 200 per month, in force, and they have been allocated to different science and technological departments of universities and other institutions on the basis of the status of the departments and research facilities available. Each scholarship is tenable for a period of three years for a candidate and after every three years the scholarship is rewarded to a new candidate.

The scheme for the award of National Research Fellowships was initiated by the Government of India in 1955–56 to encourage brilliant young scholars of the highest possible standard in science or technology who promise to do research at any recognised University or Research Institution. Each fellowship is of the value of Rs. 400 per month.

A grant of Rs. 1,000 per year is also given to each fellowship for any special apparatus or equipment required for research. The tenure of the award is three years extendable up to five years in special cases.

Persons who have obtained a Ph.D., or D.Sc. degree in science or technology or have done research of approved equal merit are eligible for the award.

So far 46 candidates have been selected for the award of whom 31 are working under the scheme.

The Practical Training Stipend Scheme was formulated to give post-institutional practical training in industrial establishments to selected students qualifying from engineering and technological institutions. There are two categories of stipends, namely senior stipends of the value of Rs. 150 per month and junior stipends of the value of Rs. 100 per month which are awarded to graduates and diploma-holders in engineering and technology respectively. The stipends are instituted in selected Government establishments and industrial concerns who offer training under proper supervision and assume responsibility for it.

There are over 1,000 training places.

SOME INSTITUTIONS

The importance of training in business management and industrial administration are well recognized, and a comprehensive scheme on an all-India basis prepared.

Courses in Management Studies have been started at the Indian Institute of Technology, Kharagpur; the Delhi School of Economics, Delhi; the Department of Economics, Madras University, Madras; the School of Economics and Sociology, Bombay University, Bombay; the Indian Institute of Science, Bangalore; and the Institute of Social Welfare and Business Management, Calcutta. The Victoria Jubilee Technical Institute, Bombay started this course with effect from the academic session 1957–58.

An Administrative Staff College in India on the lines of the Administrative Staff College, Henley-on-Thames, England has been established at Hyderabad. The College is a joint enterprise of the Central Government, private industry and commerce. It is an autonomous organisation, and functions as a registered Society under the Societies Registration Act. The administration and management of the affairs of the College is entrusted to a Court of Governors.

The first course was started in Dec. 1957. When the college is fully organized three courses will be conducted in a year with 60 candidates for each course.

The Government of India have already paid a non-recurring grant of Rs. 7 lakhs and have agreed to give a block recurring grant of Rs. 3 lakhs for the first three years.

The object of the College is to promote and provide for the study of principles and techniques of organisation and administration in the various spheres of national life and of cognate subjects.

It has been proposed to create a Department of Mining Engineering for the First Degree Course in the following technical Institutions:

1. The Indian Institute of Technology, Kharagpur.
2. Bengal Engineering College, Sibpur.

3. Engineering College, Jabalpur, or alternatively in the new Engineering College to be established in the Bhilai Steel Project area.
4. College of Engineering, Guindy, Madras.
5. Engineering College, Osmania University, Hyderabad.
6. M. B. M. Engineering College, Jodhpur.
7. Western Higher Technological Institute, Bombay.

The annual admissions to the course in each Department would be 25 students.

The existing facilities at the Indian School of Mines and Applied Geology, Dhanbad, and the College of Mining, Engineering at Banaras, are proposed to be expanded so as to provide for an annual admission of 90 and 40 students respectively to the First Degree Course in Mining Engineering.

It has also been decided to organize National Certificate Courses in Mining Engineering in various metalliferous and coal mining areas.

The annual admission to the course in each centre would be 40 students.

The cost of the whole of this programme will be of the order of Rs. 100 lakhs non-recurring and Rs. 20 lakhs recurring.

Of the four regional schools of printing the Printing Schools at Madras, Bombay and Calcutta have already started functioning, and the school at Allahabad was expected to start in the academic year 1958.

Each school is a joint enterprise of the Central and State Governments and is designed to train 200 candidates every year.

A fifth school is proposed to be started in Delhi as part of the Delhi Polytechnic.

A School of Town and Country Planning has been set up by the Central Government as a joint enterprise with the Institute of Town Planners (India) to provide facilities for training in Town and Country Planning. The first course in Town and Country Planning commenced with effect on 16th August, 1956 with a batch of 9 students—two for the intensive course (duration one year) and seven for the diploma course (duration two years). All the students with the exception of one were State-sponsored.

The second batch consisting of 11 students —five for intensive and six for diploma—were admitted in August 1957. Eight out of the 11 were sponsored by the States. It is decided that for the first few years preference should be given to State-sponsored students.

The School is temporarily housed in the Library Building of the Delhi Polytechnic, Delhi, but a two acre plot of land in the Indraprastha Estate in the capital has been acquired, and the construction of the school building was expected to be taken in hand during 1957-58. The School has been registered as a Society under the Societies Registration Act of 1860.

The quinquennial review of the working and progress of the Indian Institute of Science, Bangalore, has been completed by a Committee under the Chairmanship of Dr. J. C. Ghosh appointed by the Visitor of the Institute. The report is under consideration.

On the recommendations of AICTE schemes costing about Rs. 18 lakhs (non-recurring) and Rs. 2·5 lakhs (recurring) have been approved for the Indian Institute of Science, Bangalore.

During the Second Five-Year Plan it is proposed to spend Rs. 80 lakhs approximately for the development of the Delhi Polytechnic, Delhi, in addition to the normal recurring expenditure.

SECOND PLAN

The Second Five-Year Plan of Technical Education as prepared by the All India Council for Technical Education includes proposals for projects which are estimated to cost Rs. 80 crores. The Plan envisages development of technical education at all levels in addition to the improvement and development of the existing institutions. The Plan provides for the establishment of three Higher Technological Institutions in the western (Bombay), northern and southern regions. The Plan also provides for the establishment of 29 new polytechnics, 8 engineering colleges and about 61 junior technical schools. Further, there is a provision for starting refresher and summer courses for teachers, schemes for training of technical personnel.

Of the eight engineering colleges one each will be established in Andhra, Kerala, Madhya Pradesh, Orissa and Punjab and two in Assam.

Of the 29 polytechnics, six will be established in Mysore three in Andhra, one in Kerala, one in Pondicherry, five in Bombay, three in Madhya Pradesh, two in Rajasthan, two in Uttar Pradesh, one in Jammu and Kashmir, two in West Bengal, one in Tripura and one in Assam.

The junior technical schools will be located as follows: 18 in Kerala, 10 in Bihar, seven in West Bengal, six in the Punjab, five in Madhya Pradesh, four each in Rajasthan and Jammu and Kashmir, two each in Bombay and Orissa and one each in Assam, Himachal Pradesh and Tripura.

The establishment of these institutions will result in an intake of 7,500 into degree courses and 15,000 in diploma courses by the year 1960–61.

For the establishment of these institutions and for the development of the existing institutions the State and the Central Plans provide for a total outlay of Rs. 58 crores.

Even when all the above plans are implemented there will still be a shortage of technical personnel and to meet this shortage the Government of India on the recommendations of the Ghosh-Chandrakant Committee has decided to expand 19 selected engineering colleges and 50 polytechnics so as to yield 2,538 additional seats for the degree courses and 4,885 additional seats for diploma courses.

To meet the shortage of teachers it has been decided to create a pool of trained teachers for the various technical institutions. For this purpose, teaching fellowships will be instituted, and the selected persons will be apprentices to senior professors to give them teaching experience. On the completion of apprenticeship fellowships holders will form a pool and the technical institutions will be invited to select from the pool, teachers for their requirements.

SOCIAL EDUCATION

The new concept of social education is embodied in a five point programme: literacy, education in health and hygiene, training for trade, profession or calling, citizenship, and healthy recreation.

The Central Government guides, co-ordinates and helps with finance, but the actual burden of implementing the schemes lies with the State Governments.

The programme is based on the report of a committee called the Saksena Committee which was adopted in 1949 and a target for the attainment of 50 per cent literacy in the five subsequent years was recommended.

The campaign was specially intensive in Delhi State where it was launched in December 1950. A Janata College was established at Alipur for the training of rural leaders. The chief means adopted were through an educational caravan which consisted of three or four jeeps or trailers, one serving the purpose of a mobile stage, another of a travelling library, a third an exhibition van while the fourth carried a projector. The caravan moved from place to place and organized exhibitions, training classes, plays and athletic contests.

In the country at large there are now (1957) 160 model community centres for educational development and 454 school-cum-community centres. There are also 26 Janata Colleges for training teachers.

Literature for the neo-literates is being steadily produced. Over 175 pamphlets were published through the Idara-Talim-O-Tarraqqi.

A popular encyclopaedia is to be brought out in five volumes—*Gyan Sarovar*. The first volume is already out. And the rest are expected to come out by 1960.

To encourage production the Ministry has organized competitions among authors.

State and District libraries have been set up. At the end of March 1956, there were nine State Libraries and 150 District Libraries. That is, about half the number of Districts in the country had libraries of their own.

A Centre of Research Training and Production is likely to be set up which will among other things evaluate and produce literature for the neo-literates.

A Standing Committee on Social Education of the Central Advisory Board advises Government on social education.

BUREAUX

Brief notes are given on some institutions not noticed elsewhere.

The Central Bureau of Text Book Research was established in 1954. It helps to improve the quality of text-books by research and guidance. It has specially helped certain States which have taken steps to nationalize the production of text books.

The Central Bureau of Educational and Vocational Guidance was established in 1954. It has now a library and laboratory.

The following States have set up State Bureaux: Orissa, West Bengal, Bihar, and Madhya Pradesh.

The following States have proposals for setting up State Bureaux: Rajasthan, Madras, Mysore.

The National Board of Audio-Visual Education has its main function the co-ordinated development of audio-visual education.

The Central Film Library which serves as a circulating library for member-institutions has now 3,320 films and 1,476 film-strips. The present membership (1957) extends to 1,040 institutions spread over the entire country.

There is a quarterly journal entitled *Audio-Visual Education*, the first issue of which was published in April 1957.

Plans have been finalized (1957) for the establishment of a National Institute of Audio-Visual Education.

A committee appointed to consider the question of including Gandhian teachings in the curricula of schools and colleges made the following recommendations among others in 1957 January: Three books should be prepared incorporating Gandhiji's contribution in important fields, one each for primary, secondary and university classes; two, Gandhiji's letters to children should be published in book form.

The implementation of these recommendations will take some time.

FREE AND COMPULSORY EDUCATION

At the end of the First Five Year Plan the position was as follows:—

The percentage of children of the age-group 6–14 attending school was 49 per cent.

Compulsory education for the age-group 6–11 (approximately) was introduced in selected areas of the various states, comprising 1,093 towns and 39,276 villages.

There were 46,218 schools in these areas, with an enrolment of 60,67,412 students.

Free education for the children in the age-group 6–11 has been introduced in many states.

In a meeting held in July, 1957, the panel on education of the Planning Commission made the following recommendations:

The provision of universal, free and compulsory education upto 14 years should be regarded as the ultimate objective and an attempt should be made to realise it in a period of 15 to 20 years at the latest; and the immediate objective before

the country should be the introduction of universal, free and compulsory education for all children upto the age of 11 plus.

This target must be reached by 1965–66 at the latest.

The recommendations are yet to be considered by Government.

The position regarding free primary education in the various states and Union territories is as follows :

Assam : Primary education is free for children in the age-group 6–11.

Bihar : Education is free for children in the age-group 6–11.

Bombay : Primary education is generally free.

Jammu and Kashmir : Education in the State has been made free from primary to college level.

Madras : Primary education is generally free in the State.

Mysore : In the areas of the former Mysore State, education upto the age of 14 is free. In Bombay-Karnatak, Hyderabad-Karnatak and Madras-Karnatak areas primary education is free in the schools controlled by the Government and the local bodies. The aided schools in these areas, however, charge fees.

Orissa : Education is free for all children upto the age of 11.

West Bengal : Primary education is free upto the age of 11 in rural areas of the State and also in certain municipalities of the State.

Uttar Pradesh : Education is free in classes 1 to 3.

Delhi : Free primary education is imparted upto the age of 11 years. Concession of free education upto the age of 14 years has also been extended in all senior basic schools in rural areas of the territory.

Laccadive, Minicoy and Amindivi Islands : Primary education is free.

Tripura : Education is free in all Government schools.

Andaman and Nicobar Islands : Primary education is free.

Complete information was not available from the Governments of Andhra Pradesh, Madhya Pradesh, Kerala, Punjab and Rajasthan and the administrations of Manipur and Himachal Pradesh at the time of writing.

SCHOLARSHIP SCHEMES

The Government of India have instituted a number of schemes for studies in India and abroad.

For studies in India

1. Merit Scholarship in Public Schools : Instituted in 1953 ; open to age-group 5 to 11 ; value depends on income of parent or guardian ; State Governments too have their own scholarships.

2. Post-Matriculation Studies : Instituted in 1956–57 ; 200 scholarships, distributed on a State-basis at Intermediate level.

3. Post-Matriculation for Study of Hindi for Non-Hindi Speaking States : Instituted in 1955–56 : Sixty-six selected in 1956–57.

4. Research Scholarships in Humanities : Instituted in 1953 : 100 scholarships for study in the Humanities.

5. Cultural Scholarships : About 100. For young workers of outstanding promise in music, dance, drama, etc. Instituted 1954–55.

6. Scheduled Castes, Tribes, Backward Classes : Amount sanctioned for 1956–57 : Rs. 186·5 lakhs. No. of scholarships in 1956–57 : about 40,000. Post-matriculation studies.

For Studies Abroad

Overseas Scholarships Schemes : For teachers in institutions of higher education ; to raise standards of instruction and research ; started in 1949–50 ; no. of places 35.

Union Territories Schemes : For persons domiciled in Delhi, Himachal Pradesh, Manipur, Tripura, Andamans and Laccadives ; for post-graduate study or research ; no. of places 5.

Foreign Languages Scholarships Scheme : For specialization in some major language of Europe or Asia ; also for teachers of foreign languages in India ; instituted in 1954–55 ; 30 scholarships.

Indo-German Industrial Co-operation Scheme : For training in industrial organizations 64 (1956–57) ; for courses at technical institutions 50 (1956–57) ; instituted in 1952–53 ; in operation every alternate year.

Scheduled Castes, Tribes, Backward Classes : Chiefly for advanced study in technical or professional subjects ; instituted 1954–55 ; 12 scholarships.

China : To promote cultural relations with China on exchange basis ; five scholarships ; instituted 1955–56.

Fully-Paid Overseas Scholarships Scheme : For Government development schemes and for institutions of higher education ; for improving standards of teaching and research ; 20 fully-paid overseas scholarships to young and brilliant persons in the age-group 20-25 ; with effect from Sept.-Oct. 1957.

Agatha Harrison Fellowship (not Government of India) : one fellowship at St. Anthony's College, Oxford, tenable for a period of five years, for a study of Asian problems with special reference to India.

Assistance to Eminent Indian Scientists : For visits to overseas research institutions ; for study of latest developments ; for attending conferences ; for lecturing at universities on research in India : instituted 1946 47.

Scheduled Castes, Tribes, Classes : Free passage to students who receive foreign scholarships ; 4 scholarships to each of the three groups ; instituted 1954-55.

Loan Schemes : Interest-bearing loans to certain category of students to be repaid in monthly instalments commencing six months after return to India.

Colombo Plan (not Government of India) : To provide technical experience. Since 1951, about 150 persons have gone abroad.

Point Four Programme : By the Government of the U.S.A. to provide technical knowledge and skill. Since 1952, 32 persons have gone abroad.

U.N. Social Welfare Schemes : For suitably qualified social welfare personnel.

UNESCO Schemes : Technical assistance programme against approved requirements of institutions. Since 1950–51, 42 persons have gone abroad.

Also, for study in specific fields ; nine scholarships awarded since 1955-56.

Foreign Governments : For post-graduate study : East Germany (50) ; France (11), 14 for officers and technicians of Indian Administration ; Italy (3) ; Netherlands (one) ; Norway (one) ; West Germany (7) and 802 for post-graduate study and practical training ; Switzerland (2) ; U.S.S.R. (11).

Offers are under consideration from Czechoslovakia and Egypt.

Foreign Institutions and Organizations :

British Council : 4 for research in U.K. ; Brush Aboe Group—U.K. : one for training in U.K. ; City of Hamburg : 10 for post-graduate study in West Germany.

International Association for the Exchange of Students : 55 for practical training ; London University Institute of Education : two for investigation at the Institute ; Philippines University : three for post-graduate study at University ; Royal Society : two for research in U.K. ; Federation of British Industries, U.K. : six for practical training in U.K. ; London Transport Authority : six for training with Authority ; Sir Isaac Pitman & Son Ltd. : eight at course for overseas teachers.

FIVE-YEAR PLANS

In the First Five-Year Plan about Rs. 169 crores were provided for the development of education—Rs. 44 crores at the Centre and Rs. 125 crores in the States.

More than half of this amount was provided for Elementary (including Basic) Education and the rest for the improvement of Secondary education, University education, Technical and Vocational education, Social education, etc.

The operative years of the First Five-Year Plan, in fact, started from 1953–54 and in that sense it was a Three-Year Plan in which an attempt was made to fulfil, so far as possible, the achievement of the objectives formulated.

The Second Plan allotment is Rs. 307 crores —Rs. 95 crores for Central Schemes and 212 crores for States Schemes.

The distribution of the provision between different fields of education in the First and Second Five-Year Plans is set out below :—

(Rs. in crores)

	First Five-Year Plan	Second Five-Year Plan
Elementary education	93	89
Secondary education	22	51
University education	15	57
Technical and Vocational education ..	23	48
Social education ..	5	5
Administration and Miscellaneous ..	11	57
Total ..	169	307

The major physical targets aimed at under the Second Five-Year Plan are :—

	From 1955–56	To 1960–61
(1) Percentage of children of age-group 6–11 to be brought under instruction to total population of the age group	51·0%	62·7%
(2) Percentage of children of age-group 11–14 to be brought under instruction to total population of the age-group	19·2%	22·5%
(3) Percentage of children of age-group 14–17 to be brought under instruction to total population of the age-group ..	9·4%	11·7%
(4) Number of Primary/Junior Basic schools ..	274,038	326,800
(5) Number of Junior Basic schools ..	8,360	33,800
(6) Number of Middle/Senior Basic schools	19,270	22,725
(7) Number of Senior Basic schools ..	1,645	4,571
(8) Number of High or Higher Secondary schools ..	10,600	12,125
(9) Number of High schools to be upgraded to Higher Secondary schools	47	1,197
(10) Total number of Multi-purpose schools to be established	250	1,187

	From 1955-56	To 1960-61
(11) Total number of Engineering Institutes at degree level to be established	45	54
(12) Total number of Engineering Institutes at Diploma level to be established ..	83	104
(13) Output of graduates in Engineering	3,000	5,480
(14) Output of Diploma holders in Engineering ..	3,560	8,000
(15) Number of Technological Institutions of Degree level	25	28
(16) Number of Technological Institutions of Diploma level ..	36	37
(17) Output of Degree holders in Technology	700	800
(18) Output of Diploma holders in Technology ..	430	450
(19) Number of Universities	31	38

During the First Five-Year Plan, the Central Government assisted the States financially to enable them to appoint Special Officers in the States to speed up the work connected with the educational development programme. Experience of the First Plan pointed towards the need to set up an adequately staffed Planning and Statistical Unit in each State. The setting up of these Units, which have been made possible by financial assistance from the Centre, has helped not only in planning but in making available useful information regarding the progress of the Plan, which makes it possible to evaluate the qualitative and quantitative achievements of the various schemes implemented.

During 1956-57, a sum of Rs. 921·99 lakhs (including Rs. 178·99 lakhs for the Relief of Educated Unemployed) was given as grants to the various State Governments for their educational development schemes.

Compulsory Education

Universal, free and compulsory education will be provided to children between the ages of six and 14 in the Union Territories by the end of the Third Plan, *i.e.* by 1966.

The State Governments have promised to provide this only for the age-group six to eleven during the corresponding period.

The plan for the Union Territories, beginning in 1958 April is estimated to cost about Rs. 13 crores, of which Rs. 3 crores would be spent during the remaining period of the Second Plan.

The total school-going population in the Territories in the age-group 6 to 14 is 8·5 lakhs (5·14 lakhs in the age-group 6 to 11). Of this 4·5 lakhs are already on the rolls (3·5 lakhs in the 6–11 group).

The plan will call for 14,000 additional teachers on the basis of one additional age-group for every year, and one teacher for every 35 students.

Whether the State Governments can carry through their plans depends on the availability of finances of the order of Rs. 320 crores during the eight years 1958–66.

NON-AFFILIATED INSTITUTIONS FOR DEGREE OR DIPLOMA ENGINEERING, TECHNOLOGY, COMMERCE

[*Note:* For Colleges see under Universities in each State.]

ANDHRA

Andhra Polytechnic, Kakinada.
Government Ceramic Institute, Gudur.
Vuyyur Polytechnic, Vuyyur.
Central Crafts Institute, Mallepally, Hyderabad.
Government Technical College, Hyderabad.
Government Technical Training Centre, Nizamabad.
Government College of Fine Art, Hyderabad.
Warangal Polytechnic, Warangal.

ASSAM

Assam Civil Engineering Institute, Gauhati.
H.R.H. Prince of Wales Technical Institute of Engineering and Technology, Jorhat.

BIHAR

Indian School of Mines and Applied Geology, Dhanbad.
Jamshedpur Technical Institute, Jamshedpur.
Ranchi School of Engineering, Ranchi.
Tirhut School of Engineering, Muzaffarpur.
Chaibasa Technical School, Chaibasa.
Dehri Technical School, Dehri.
Ranchi Technical School, Ranchi.
Sindri School of Engineering, Sindri.

BOMBAY

Birla Vishwakarma Mahavidyalaya, Anand.
College of Engineering, Poona.
Government Leather Working School, Bandra (Greater Bombay).
Government Tanning Institute, Bandra (Greater Bombay).
L. D. College of Engineering, Ahmedabad.
Nautical and Engineering College, Bombay.
Radio Electric Institute, Bombay.
R. C. Technical Institute, Ahmedabad.
St. Xavier's Technical Institute, Bombay.
Sir Cusrow Wadia Institute of Electrical Technology, Poona.
S. N. Parukh Parsi Polytechnic, Surat.
Victoria Jubilee Technical Institute, Bombay.
Deccan Education Society's Technological Institute, Poona.
Aurangabad Polytechnic, Aurangabad.
Lukhdirji Engineering College, Morvi.
Shri A. V. Parikh Technical Institute, Rajkot.
Sir Bhavsinhji Polytechnic, Bhavnagar.

DELHI

Delhi Polytechnic, Delhi.

KERALA

Kerala Polytechnic, Kozhikode.

MADHYA PRADESH

Central Technical Institute, Gwalior.
Govindram Saksaria Kala Bhawan, Indore.
Polytechnic Institute, Bhopal.
Government Polytechnic, Ujjain.
Polytechnic Institute, Nowgong.

MADRAS

Arthur Hope Polytechnic, Coimbatore.
Central Polytechnic, Madras.
C. N. Technical & Industrial Institute, Vepery, Madras.
Institute of Leather Technology, Madras.
Madras Institute of Technology, Madras.
P.S.G. and Son's Charity Industrial Institute, Coimbatore.
Ramakrishna Mission Technical Institute, Madras.
Seshasayee Institute of Technology, Tennur, Tiruchirapalli.
Tamilnad Polytechnic, Madurai.

MYSORE

D. R. R. Occupational Institute, Davangere.
Indian Institute of Science, Bangalore.
National Institute of Engineering, Mysore.
Occupational Institute, Chintamani.
Silver Jubilee Technical Institute, Bhadravati.
School of Engineering, Bangalore.
S.L.V. Occupational Institute, Hassan.
Sri J. Occupational Institute, Bangalore.
Sri K. Silver Jubilee Technological Institute, Bangalore.
Rayalaseema Polytechnic, Bellary.
Dharmaprakasa C.P.C. Occupational Institute, Mysore.
B.V. Bhoomradi College of Engineering and Technology, Hubli.
Gulbarga Polytechnic, Gulbarga.
Karnatak Polytechnic, Mangalore.

ORISSA

Orissa School of Engineering, Cuttack.

PUNJAB

Engineering College, Ludhiana.
Government Hosiery Institute, Ludhiana.
Government Institute of Dyeing & Calico Printing, Ludhiana.
Government School of Engineering, Nilokheri.
Government Tanning Institute, Jullundur.
Government Technical Institute, Ambala.
Guru Nanak Engineering College, Ludhiana.
Mehar Chand Technical Institute, Jullundur.
National Institute of Engineering, Hoshiarpur.
Polytechnic, Nilokheri.

Punjab Institute of Textile Technology, Amritsar.
Shri Vishwakarma Polytechnic, Phagwara.
Surgical Instruments Centre and Developments Laboratory, Sonepat.
Tara Karan S.D. Technical Institute, Baij Nath (Kangra).
Technological Institute of Textiles, Bhiwani.

RAJASTHAN

M. B. M. Engineering College, Jodhpur.

UTTAR PRADESH

Chaudhry Mukhtar Singh Government Polytechnic, Meerut.
Civil Engineering School, Lucknow.
Government Wood Working Institute, Allahabad.
Government Central Textile Institute, Kanpur.
Government Central Weaving Institute, Banaras.
Government Central Woodworking Occupational Institute, Bareilly.
Government Polytechnic, Allahabad.
Government Polytechnic, Dehra Dun.
Government Polytechnic, Jaunpur.
Government Polytechnic, Ghazipur, Lucknow.
Government Technical Institute, Gorakhpur.
Government Technical Institute, Jhansi.
Government Technical Institute, Lucknow.
Harcourt Butler Technological Institute, Kanpur.
Hewett Engineering School, Lucknow.
I. D. Technical Institute, Bahjoi.
Indian Institute of Sugar Technology, Kanpur.
Prem Mahavidyalaya Engineering College, Mathura.
Technical College, Dayalbagh, Agra.
Government Leather Working School, Kanpur.
Government Technical Institute, Ghazipur.

WEST BENGAL

Air Technical Training Institute, Dum Dum.
Bengal Ceramic Institute, Calcutta.
Bengal Tanning Institute, Calcutta.
Bengal Textile Institute, Serampore.
Berhampore Textile Institute, Berhampore.
Calcutta Technical School, Calcutta.
College of Aeronautical Services, Dum Dum.
Hooghly Institute of Technology, Hooghly.
Indian Institute of Technology, Kharagpur.
Institute of Jute Technology, Calcutta.
Jalpaiguri Polytechnic, Jalpaiguri.
Kanchrapara Technical School, Kanchrapara.
K. G. Engineering Institute, Vishnupur, Bankura.
Directorate of Marine Engineering Training, New Taratala Road, Calcutta.
M. B. C. Institute of Engineering & Technology, Burdwan.
R. K. Mission Silpa Mandir, Belur, Howrah.

AGRICULTURE

Indian Agricultural Research Institute, New Delhi; Indian Dairy Research Institute, Bangalore; Government Agricultural Institute, Bundshahr (U.P.); Government Agricultural Institute, Chirgaon (U.P.); Government Agricultural Institute, Gorakhpur; Agriculture Institute, Laxmipur, Panna, Madhya Pradesh.

BANKING, COMMERCE AND CO-OPERATION

Co-operative Training College, Poona; Delhi Polytechnic, Delhi; Government College of Commerce, Hyderabad; Co-operative College, Trivandrum; Sanatan Dharam College, Alleppey.

DOMESTIC SCIENCE

Lady Irwin College, New Delhi; Domestic Science Training College, Hyderabad; Girls' Vocational Institute, Aurangabad; Girls' Vocational Institute, Gulbarga; Girls' Vocational, Institute, Warangal; Girls' Vocational Institute, Hyderabad; Girls' Vocational Institute, Secunderabad.

FORESTRY

Southern Forest Rangers College, Coimbatore; Indian Forest College, Dehra Dun; Northern Forest Ranger College, Dehra Dun.

MARINE TRAINING

Training Ship "Dufferin", Bombay.

MUSIC AND FINE ARTS

Gandharva Mahavidyalaya Mandal, Poona; Madhava Music College, Gwalior; Central College of Karnataka Music, Madras; Government School of Arts, Simla; S.S.T. Academy of Music, Trivandrum; Bhatkhande (Marris) College of Hindustani Music, Lucknow; Kamboj Sapt-kala Niketan, Meerut; Prayag Sangit Samiti, Allahabad; Sangeet Vidyalaya, Almora; All India College of Music, Arts and Crafts, Dhakuria (24, Parganas); Aryya Sangeet Vidyapeeth, 199, Landsdowne Road, Calcutta; Bengal Music College, 4, Hindusthan Road, Calcutta; Government College of Art and Craft, 28, Chowringhee Road, Calcutta; Ram Saran College of Music, Vishnupur, Bankura; Art College, Gwalior; Art College, Indore; Laxmi Kala Bhawan, Dhar; M. S. Bhand's School of Arts, Gwalior; Music College, Indore; Gita Bitan Sikshayatian, 155, Russa Road, Calcutta; Harishikesh Sangeet Vidyalaya, Nabadwip, Nadia; Ajmer Music College, Ajmer.

ORIENTAL LEARNING AND THEOLOGY

Swadhyaya Mandal, Killa-Pardi (Dist. Surat); Government Sanskrit College, Gwalior; Sanskrit Mahavidyalaya, Indore; Maharaja's Sanskrit College, Mysore; Sanskrit College, Melkote (Mysore); Sanskrit College, Siddaganga (Mysore); Sri Chamarajendra Sanskrit College, Bangalore; Bidyabhushan Sanskrit College, Bolangir (Orissa); Maharaja's Sanskrit College, Parlakimedi (Orissa); Sadasiva Sanskrit College, Puri; Birla Sanskrit College, Pilani; Government Sanskrit College, Alwar; Government Sanskrit College, Jodhpur; Government Sanskrit College, Sikar (Rajasthan); Government Sanskrit College, Udaipur; Maharaja's Sanskrit College, Jaipur; Rishikul Brahamcharya Ashram Sanskrit College, Lakhim Garh (Rajasthan); Sanskrit College, Nathdwara (Rajasthan); Shri Dadu Mahavidyalaya, Jaipur; Shri Digamber Jain Sanskrit College, Jaipur; Shri Ramanuj College, Didwana (Rajasthan); Shri Sardul Brahamcharya Ashram Sanskrit College, Bikaner; Shri Vithal Nath Sanskrit Mahavidyalaya, Kotah; Alia Oriental College, Rampur; Darul-Uloom, Deoband (U.P.); Darul-Uloom Nadvatul Uloom, Lucknow; Government Sanskrit College, Banaras; Gurkul University, Kangri (Dist. Saharanpur, U.P.); Gurukul Vrindaban, Mathura; Kashi Vidyapith, Banaras; Mazhar-Ullum, Saharanpur; Calcutta Madrasah, 21, Wellesley Square, Calcutta; Prachyavani (Institute of Oriental Learning), 3, Federation Street, Calcutta; Serampore College, Serampore, Hooghly; Bhajan Das Sanskrit Pathshala, Nayan (Rajasthan); Chamariya Sanskrit Mahavidyalaya, Fatehpur (Rajasthan); Chaukhani Sanskrit Pathshala, Reengus (Rajasthan); Dhuleshwar Sanskrit Pathshala, Manoharpur (Rajasthan); Ganga Sanskrit Pathshala, Bikaner; Goenka Sanskrit Pathshala, Doondalod (Rajasthan); Goverdhan Sanskrit Pathshala, Khadagada (Rajasthan); Government Sanskrit Pathshala, Bundi; Hanumat Sanskrit Vidyalaya, Sardarshahr (Rajasthan); Harimukh Raya Sanskrit Vidyalaya, Ramgarh (Rajasthan); Jangid Vedic Vidyalaya, Fatehpur (Rajasthan); Khandal Vipra Vidyalaya, Jaipur; Mangal Dutta Mahavidyalaya, Ratangarh (Rajasthan); Matribhasha Vidyapeeth, Karauli (Rajasthan); Pareek Vidyalaya, Merta City (Rajasthan); Reongata Sanskrit Vidyalaya Bagar (Rajasthan); Sakseriya Sanskrit Vidyalaya, Chirawa (Rajasthan); Sanskrit Mahavidyalaya, Chittor; Saraswati Vidyapeeth, Kotah; Sarvajanik Sanskrit Vidyalaya, Baran (Rajasthan); Shridhar Sanskrit Pathshala, Brahmapuri, Jaipur; Kanya Gurupal, Dehra Dun (U.P.); and Sanskrit Pathshalas at Amarsar, Banswara, Bharatpur, Bonli, Chak, Cheethwari, Chomu, Dausa, Dholpur, Ganora Kaladera, Kaushi, Karauli, Khori, Lalsot, Muchkund Dolpur, Neemkathana, Niwai, Paota, Samode, Talabgaon all in Rajasthan.

PHYSICAL EDUCATION

Andhra Training College of Physical Education, Vijayawada; College of Physical Education, Muzaffarpur (Bihar); Government College of Health and Physical Education, Patna; Kaivalyadhana S.Y.M.Y. Samiti, Lonavla (Bombay); Training Institute for Physical Education, Kandivli (Bombay); Academy of Physical Education of Sri Hanuman Vyamshala, Hyderabad; Physical Training College, Shivpuri (M.P.); Hanuman Vyayam Prasarak Mandal, Amravati; Y.M.C.A. College of Physical Education, Saidapet, Madras; Physical Training College, Trivandrum; Government College of Physical Education, Rampur; Government College of Physical Education, 30, Ramkrishna Samadhi Road, Calcutta.

RURAL STUDIES

Shri Shivaji Lok Vidyapitha, Amravati.

SOCIAL SCIENCES

Tata Institute of Social Sciences, Chembur, Bombay.

STATISTICS

Statistical Branch of Indian Council of Agricultural Research, New Delhi; Indian Statistical Institute, Calcutta.

TEACHERS' TRAINING

Basic Training College, Turki (Bihar); B.N.R. Training College for Women, Patna; Women's Training College, Muzaffarpur (Bihar); Teachers' Training College, Ranchi; Training College, Bhagalpur; Graduates' Basic Training Centre, Dhulia (Bombay); Graduates' Basic Training Centre, Rajpipla (Bombay); Graduates' Basic Training Centre, Dharwar; Jamia Training Institute, Jamia Millia Islamia, Jamianagar, Delhi; Lady Irwin College, New Delhi; Domestic Science Training College, Hyderabad; C. T. College, Jaora (M.P.); Government Teachers' College, Dewas (M.P.); Nai Talim Bhawan, Sevagram; Government Secondary Training School, Berhampur (Orissa); Secondary Training School, Cuttack; St. Bedes College, Simla; A.P. Mission Higher Secondary School, Dehra Dun; Balwant Rajput College, Agra; D. A. V. College, Kanpur; Dharam Samaj College, Aligarh; Gorakhpur University Foundation Society, Gorakhpur; Government Basic Training College, Lucknow; Government College of Home Science for Women, Allahabad; Government Constructive Training College, Lucknow; Government Junior Basic Training College, Allahabad; Government Junior Basic Training College, Lucknow; Government Junior Basic Training College, Muzaffarnagar; Government Nursery Training College, Allahabad; Government Training College for Women, Allahabad; Government Training College for Women, Lucknow; Kishori Raman College, Mathura; K. P. Training College, Allahabad; Lucknow Christian College, Lucknow; Meerut College, Meerut; Queen Victoria Higher Secondary School, Agra; Tilak Dhari College, Jaunpur; Women's Training College, Dayalbagh, Agra; Government Central Pedagogical Institute, Allahabad; Government School of Arts and Crafts, Lucknow; St. Mary's Convent Training College for Anglo-Indians, Allahabad; Training College for Teachers for Schools for Defectives, Lucknow; Basic Training College, Banipur (24 Parganas, West Bengal).

VETERINARY SCIENCE

Indian Veterinary Research Institute, Izatnagar (U.P.); Indian Veterinary Research Institute, Mukteshwar (U.P.); Bengal Veterinary College, Calcutta.

EDUCATIONAL STATISTICS (1955-56)

Note that figures for 1955-56 are provisional. Also, the States mentioned in these tables are the ones existing before the reorganization in November 1956.
Figures for the old States are given for purposes of record.
Where available particulars about education in the new States are given in the articles on individual States.

1. INSTITUTIONS, ENROLMENT, EXPENDITURE

State	Number of Institutions for		Enrolment in Institutions for		Expenditure on Institutions for	
	Boys	Girls	Boys	Girls	Boys	Girls
			(in Thousands)		(in Rs. Lakhs)	
Andhra	24,656	121	22,80	25	9,38	40
Assam*	14,243	1,092	10,09	88	3,92	38
Bihar	36,137	3,254	24,03	1,07	11,70	69
Bombay	53,725	5,345	46,50	6,40	28,73	3,50
Madhya Pradesh ..	17,091	1,069	13,80	1,49	8,71	87
Madras	30,223	363	40,04	1,11	18,93	1,64
Orissa*	17,963	318	8,47	23	3,94	14
Punjab	9,774	1,907	11,32	2,68	7,26	1,58
Uttar Pradesh* ..	35,379	3,633	35,81	4,02	22,93	2,44
West Bengal ..	29,163	1,905	29,30	2,88	18,18	2,53
Hyderabad ..	14,307	971	10,71	1,37	5,58	82
Jammu & Kashmir*	1,929	396	1,51	30	67	18
Madhya Bharat ..	8,116	953	4,95	80	2,83	38
Mysore	13,572	980	8,97	1,22	4,89	50
PEPSU	3,162	315	2,73	42	1,81	23
Rajasthan	8,344	705	5,83	72	3,79	38
Saurashtra	5,326	367	3,78	76	2,37	29
Travancore-Cochin	6,075	180	19,41	87	5,65	63
Ajmer	1,531	256	72	16	88	14
A. & N. Islands* ..	40	..	3	..	3	..
Bhopal	1,481	63	57	7	86	12
Coorg	310	10	37	2	28	1
Delhi*	693	362	2,11	99	3,91	1,31
Himachal Pradesh*	1,107	31	74	5	52	3
Kutch	475	65	38	6	19	2
Manipur*	1,051	44	88	6	22	1
N.E.F.A.	183	..	8	..	15	..
Tripura*	1,436	40	84	4	66	4
Vindhya Pradesh ..	4,268	181	2,62	14	1,21	10
India	3,41,760	24,926	3,09,57	29,66	1,70,18	19,36

* Unaffected by States reorganization. Figures for the present Punjab can be got by adding figures for the old Punjab and PEPSU. Approximate figures for the present Rajasthan can be got by adding figures for the old Rajasthan and Ajmer.
Figures for Assam include figures for the Naga Hills District separated from Assam on December 1, 1957.

2. INSTITUTIONS

State	Number of Institutions for		
	Boys	Girls	All Persons
Andhra	24,656	121	24,777
Assam*	14,243	1,092	15,335
Bihar	36,137	3,254	39,391
Bombay	53,726	5,345	59,070
Madhya Pradesh ..	17,091	1,069	18,160
Madras	30,223	363	30,586
Orissa*	17,963	318	18,281
Punjab	9,774	1,907	11,681
Uttar Pradesh* ..	35,379	3,633	39,012
West Bengal	29,163	1,905	31,068
Hyderabad	14,307	971	15,278
Jammu & Kashmir* ..	1,929	396	2,325
Madhya Bharat ..	8,116	953	9,069
Mysore	13,572	980	14,552
PEPSU	3,162	315	3,477
Rajasthan	8,344	705	9,049
Saurashtra	5,326	367	5,693
Travancore-Cochin ..	6,075	180	6,255
Ajmer	1,531	256	1,787
A. & N. Islands* ..	40	..	40
Bhopal	1,481	63	1,544
Coorg	310	10	320
Delhi*	693	362	1,055
Himachal Pradesh* ..	1,107	31	1,138
Kutch	475	65	540
Manipur*	1,051	44	1,095
N.E.F.A.*	183	..	183
Tripura*	1,436	40	1,476
Vindhya Pradesh ..	4,268	181	4,449
India	3,41,760	24,926	3,66,686

* Unaffected by States reorganization. Figures for the present Punjab can be got by adding figures for the old Punjab and PEPSU. Approximate figures for the present Rajasthan can be got by adding figures for the old Rajasthan and Ajmer.
Figures for Assam include figures for the Naga Hills District separated from Assam on December 1, 1957.

3. PRIMARY SCHOOLS

State	Number of Institutions for		Enrolment of		Expenditure in Rs. on	
	Boys	Girls	Boys	Girls	Schools for Boys	Schools for Girls
Andhra	21,035	..	11,44,510	7,18,320	4,15,58,142	..
Assam*	11,791	819	4,93,993	2,68,858	98,78,555	7,22,062
Bihar	26,818	2,731	13,17,266	2,83,944	2,16,94,196	16,59,930
Bombay	30,683	1,711	20,10,909	11,59,795	8,16,63,115	1,37,05,941
Madhya Pradesh	13,195	648	7,37,626	2,43,644	2,31,24,736	30,04,409
Madras	26,804	..	20,71,119	12,25,534	8,14,24,872	..
Orissa*	14,160	210	4,84,843	1,59,031	1,09,02,071	2,45,013
Punjab	8,248	1,488	5,34,323	2,14,495	1,73,49,505	40,93,044
Uttar Pradesh*	29,202	2,696	22,53,231	4,84,596	4,85,49,753	49,14,102
West Bengal	22,207	874	14,74,434	7,04,603	4,47,01,293	44,56,523
Hyderabad	12,471	831	6,99,716	1,94,041	2,41,31,939	30,52,340
Jammu & Kashmir*	1,612	270	75,759	11,010	16,79,611	2,71,933
Madhya Bharat	6,877	845	3,22,927	66,656	92,13,948	14,60,886
Mysore	11,157	606	4,67,024	2,58,047	1,58,24,194	20,18,837
PEPSU	2,384	216	1,06,905	27,668	40,61,473	5,33,035
Rajasthan	7,054	504	2,92,640	47,237	85,95,045	10,59,204
Saurashtra	3,863	223	2,42,719	93,631	83,46,720	15,03,818
Travancore-Cochin	4,267	..	7,45,433	6,75,319	1,67,20,223	..
Ajmer	542	77	38,758	15,548	27,28,461	6,05,426
A. & N. Islands*	37	..	1,106	591	89,018	..
Bhopal	1,328	39	34,705	5,471	15,38,997	1,66,344
Coorg	170	2	6,797	5,181	3,28,409	6,611
Delhi*	357	181	59,862	44,669	73,04,519	31,34,589
Himachal Pradesh*	792	16	34,067	4,168	16,38,942	69,108
Kutch	364	51	25,580	10,006	7,90,206	1,29,261
Manipur*	840	38	49,426	17,384	9,62,683	44,052
N.E.F.A.*	152	..	5,615	603	5,70,100	..
Tripura*	994	7	42,134	11,832	24,48,850	8,820
Vindhya Pradesh	3,501	150	1,74,437	19,979	44,02,299	3,33,054
India	2,62,905	15,233	1,59,47,873	69,71,861	49,22,82,475	4,72,08,338

* Unaffected by States reorganization. Figures for the present Punjab can be got by adding figures for the old Punjab and PEPSU. Approximate figures for the present Rajasthan can be got by adding figures for the old Rajasthan and Ajmer.
Figures for Assam include figures for the Naga Hills District separated from Assam on December 1, 1957.

4. SECONDARY SCHOOLS

State	Number of Institutions for		Enrolment of		Expenditure in Rs. on	
	Boys	Girls	Boys	Girls	Schools for Boys	Schools for Girls
Andhra	670	70	2,60,911	51,840	1,96,27,151	17,42,756
Assam*	1,544	189	2,02,380	63,483	1,24,96,161	17,75,779
Bihar	4,073	211	6,31,937	66,303	3,20,44,171	26,98,286
Bombay	4,388	504	11,08,085	4,06,816	7,88,79,040	1,26,08,626
Madhya Pradesh	1,614	161	3,92,374	92,711	2,19,50,239	30,88,050
Madras	1,208	210	4,77,035	1,79,879	3,78,03,678	74,51,836
Orissa*	889	57	1,08,303	15,220	75,06,623	6,23,653
Punjab	1,237	318	4,84,231	1,11,232	2,51,32,620	62,60,873
Uttar Pradesh*	4,381	733	9,11,796	1,59,358	6,94,72,661	1,38,03,882
West Bengal	2,655	515	5,58,187	1,35,813	4,28,54,424	1,07,86,637
Hyderabad	360	91	1,78,610	49,784	1,35,93,627	37,04,138
Jammu and Kashmir*	209	69	70,094	18,419	30,80,766	9,45,230
Madhya Bharat	459	83	1,10,153	32,118	64,30,786	16,38,475
Mysore	801	165	1,64,014	54,997	90,60,824	20,37,507
PEPSU	419	76	1,34,427	34,748	71,66,067	12,15,230
Rajasthan	957	144	2,16,583	44,593	1,43,92,925	20,10,037
Saurashtra	124	20	60,766	13,272	45,46,096	9,52,858
Travancore-Cochin	1,421	115	3,09,330	2,36,662	1,67,66,964	31,22,658
Ajmer	59	15	12,767	2,198	21,66,021	3,13,494
A. & N. Islands*	3	..	987	450	1,29,778	..
Bhopal	93	15	16,822	3,259	14 50,044	3,08,019
Coorg	58	2	14,493	9,459	12,24,928	98,336
Delhi*	182	93	1,10,457	63,939	1,11.55,187	45,93.761
Himachal Pradesh*	153	14	20,197	6,374	19,67,197	2,31,054
Kutch	25	2	5,369	1,521	3,79,904	67,589
Manipur*	104	6	15,841	3,151	7,22,963	80,777
N. E. F. A.	19	..	1,063	221	2,81,313	..
Tripura*	106	11	14,277	5,087	11,22,488	1,61,571
Vindhya Pradesh	257	31	56,697	6,026	38,18,672	5,02,709
India	28,648	3,920	66,57,486	18,69,023	44,72,23,318	8,28,29,821

* Unaffected by States reorganization. Figures for the present Punjab can be got by adding figures for the old Punjab and PEPSU. Approximate figures for the present Rajasthan can be got by adding figures for the old Rajasthan and Ajmer.
Figures for Assam include figures for the Naga Hills District separated from Assam on December 1, 1957.

5. UNIVERSITY EDUCATION

State	Number of Universities for		Number of Arts and Science Colleges (including Research Institutions) for		Number of Technical, Professional and Special Education Colleges for		Total number of Colleges for	
	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls
Andhra	2	..	29	3	23	4	52	7
Assam*	1	..	18	3	6	..	24	3
Bihar	2	..	52	5	27	1	79	6
Bombay	5	1	70	6	68	1	138	7
Madhya Pradesh	2	..	21	3	22	3	43	6
Madras	2	..	45	18	54	3	99	21
Orissa*	1	..	13	1	9	..	22	1
Punjab	1	..	53	7	17	4	70	11
Uttar Pradesh*	6	..	61	8	39	8	100	16
West Bengal	3	..	81	18	35	4	116	22
Hyderabad	1	..	19	2	12	..	31	2
Jammu and Kashmir*	1	..	10	2	7	5	17	7
Madhya Bharat	..	..	26	4	14	..	40	4
Mysore	1	..	26	3	22	..	48	3
PEPSU	..	..	11	2	3	..	14	2
Rajasthan	1	..	37	5	29	..	66	5
Saurashra	..	..	4	1	6	..	10	1
Travancore-Cochin	1	..	27	8	13	1	40	9
Ajmer	..	..	7	3	..	1	7	4
Bhopal	..	..	2	..	4	..	6	..
Coorg	..	..	1	..	..	..	1	..
Delhi*	1	..	14	2	7	3	21	5
Himachal Pradesh*	..	..	3	..	1	..	4	..
Kutch	..	..	1	..	..	..	1	..
Manipur*	..	..	2	..	1	..	3	..
N. E. F. A.	..	..	..	..	..	..	..	..
Tripura*	..	..	2	..	1	..	3	..
Vindhya Pradesh	..	..	6	..	..	..	6	..
India	31	1	641	104	420	38	1,061	142

* Unaffected by States reorganization. Figures for the present Punjab can be got by adding figures for the old Punjab and PEPSU. Approximate figures for the present Rajasthan can be got by adding figures for the old Rajasthan and Ajmer.
Figures for Assam include figures for the Naga Hills District separated from Assam on December 1, 1957.

6. STATISTICS OF UNIVERSITY EDUCATION (ENROLMENT)†

State	General Education		Technical and Professional Education††		Total	
	Boys	Girls	Boys	Girls	Boys	Girls
Andhra	25,504	2,056	8,143	400	33,647	2,456
Assam*	9,952	1,679	2,301	102	12,343	1,781
Bihar	36,065	2,470	11,245	233	47,310	2,703
Bombay	47,591	12,457	21,265	2,079	68,856	14,536
Madhya Pradesh	10,955	1,941	6,554	522	17,509	2,463
Madras	32,183	6,526	14,507	1,352	46,690	7,878
Orissa*	4,846	498	1,428	86	6,274	584
Punjab	28,191	4,901	4,509	1,307	32,700	6,208
Uttar Pradesh*	1,39,300	16,247	25,254	1,721	1,64,554	17,968
West Bengal	67,751	15,196	20,079	2,016	87,830	17,212
Hyderabad	9,430	1,629	4,052	292	13,482	1,921
Jammu and Kashmir*	4,356	789	303	702	4,659	1,491
Madhya Bharat	5,097	1,241	4,214	274	9,311	1,515
Mysore	14,618	3,112	6,473	250	21,091	3,362
PEPSU	4,474	735	359	62	4,833	797
Rajasthan	10,218	1,412	7,598	124	17,816	1,536
Saurashtra	2,632	401	1,115	23	3,747	424
Travancore-Cochin	22,835	7,805	3,737	449	26,572	8,254
Ajmer	1,698	439	597	18	2,295	457
Bhopal	769	126	363	31	1,132	157
Coorg	263	57	..	..	263	57
Delhi*	8,613	2,116	3,632	892	12,245	3,008
Himachal Pradesh*	313	51	24	..	337	51
Kutch	190	26	..	..	190	26
Manipur*	852	75	233	12	1,085	87
Tripura*	1,027	95	90	2	1,117	97
Vindhya Pradesh	1,118	73	212	8	1,330	81
India	4,90,841	84,153	1,48,377	12,957	6,39,218	97,110

† Includes enrolment in attached classes.
†† Includes enrolment in special colleges.
* Unaffected by States reorganization. Figures for the present Punjab can be got by adding figures for the old Punjab and PEPSU. Approximate figures for the present Rajasthan can be got by adding figures for the old Rajasthan and Ajmer.
Figures for Assam include figures for the Naga Hills District separated from Assam on December 1, 1957.

7. UNIVERSITY EDUCATION (DIRECT EXPENDITURE)

(In Rs.)

State	University Arts and Science Colleges (Including Research Institutions)		Colleges for Technical and Professional Education†		Total	
	Boys	Girls	Boys	Girls	Boys	Girls
Andhra	71,86,958	1,68,454	27,05,373	76,990	98,92,331	2,45,444
Assam*	33,11,957	1,55,933	11,53,103	..	44,65,060	1,55,933
Bihar	1,11,34,862	4,39,726	46,40,693	39,041	1,57,75,555	4,78,767
Bombay	2,79,14,239	8,01,508	1,43,93,955	1,25,898	4,23,08,194	9,27,406
Madhya Pradesh	67,17,592	2,04,663	44,18,648	2,16,208	1,11,36,240	4,20,871
Madras	1,46,87,693	19,31,005	70,46,403	2,12,037	2,17,34,096	21,43,042
Orissa*	27,33,700	90,882	7,45,821	..	34,79,611	90,882
Punjab	1,28,50,195	5,83,538	25,50,095	7,55,191	1,54,00,290	13,38,729
Uttar Pradesh*	4,51,40,065	5,97,334	54,40,503	3,61,802	5,05,80,568	9,59,136
West Bengal	2,26,78,495	15,21,589	1,21,47,666	1,78,154	3,48,26,161	16,99,743
Hyderabad	61,19,972	5,00,273	15,94,683	..	77,14,655	5,00,273
Jammu and Kashmir*	13,08,044	1,59,688	2,32,849	42,443	15,40,893	2,02,131
Madhya Bharat	34,60,324	3,48,946	20,51,020	..	55,11,344	3,48,946
Mysore	55,00,580	3,34,897	15,47,957	..	70,48,537	3,34,897
PEPSU	18,15,106	2,40,223	7,23,949	..	25,39,055	2,40,223
Rajasthan	58,20,908	4,02,660	21,08,033	..	79,28,941	4,02,660
Saurashtra	7,07,342	58,455	13,92,689	..	21,60,031	58,455
Travancore-Cochin	67,69,404	7,66,575	12,64,959	28,341	80,34,363	7,94,916
Ajmer	11,73,180	2,43,244	..	5,207	11,73,180	2,48,451
Bhopal	7,24,438	..	3,15,759	..	10,40,197	..
Coorg	1,84,232	..	..	..	1,84,232	..
Delhi*	89,96,787	5,55,258	26,12,047	24,39,233	1,16,08,834	29,94,491
Himachal Pradesh*	2,20,857	..	24,862	..	2,45,719	..
Kutch	1,28,528	..	..	..	1,28,528	..
Manipur*	1,83,454	..	15,474	..	1,98,928	..
Tripura*	3,63,858	..	35,656	..	3,99,514	..
Vindhya Pradesh	6,10,515	..	..	..	6,10,515	..
India	19,85,03,375	1,01,04,851	6,91,62,197	44,80,545	26,76,65,572	1,45,85,396

† Includes expenditure on special colleges.
* Unaffected by States reorganization. Figures for the present Punjab can be got by adding figures for the old Punjab and PEPSU. Approximate figures for the present Rajasthan can be got by adding figures for the old Rajasthan and Ajmer.
Figures for Assam include figures for the Naga Hills District separated from Assam on December 1, 1957.

8. TECHNICAL AND VOCATIONAL EDUCATION (SCHOOLS)†

State	Number of Schools for		Enrolment		Expenditure in Rs. on Institutions for	
	Boys	Girls	Boys	Girls	Boys	Girls
Andhra	183	31	16,846	3,124	19,43,408	3,23,076
Assam*	62	14	5,261	575	20,47,874	92,750
Bihar	149	27	14,212	1,252	37,38,869	2,46,251
Bombay	430	285	39,509	19,843	71,38,612	27,72,183
Madhya Pradesh	47	14	7,888	1,259	23,12,422	3,90,486
Madras	400	94	39,130	11,812	39,39,059	11,32,226
Orissa*	64	12	3,652	359	8,92,522	58,298
Punjab	45	16	8,226	3,196	19,87,251	3,38,136
Uttar Pradesh*	140	46	13,376	2,741	51,52,632	8,25,285
West Bengal	207	72	23,441	7,851	55,91,422	8,45,718
Hyderabad	39	2	4,080	255	23,27,588	8,552
Jammu & Kashmir*	..	..	156	88	..	..
Madhya Bharat	61	9	2,379	449	8,22,088	88,576
Mysore	114	6	14,780	1,698	23,28,448	1,16,495
PEPSU*	8	3	1,404	266	3,50,972	69,828
Rajasthan	15	2	2,189	142	6,74,431	37,655
Saurashtra	17	3	2,044	532	17,60,143	55,658
Travancore-Cochin	263	42	10,904	9,286	14,99,188	76,353
Ajmer	2	..	271	20	1,61,688	..
Bhopal	11	4	830	124	4,97,110	47,695
Coorg	4	..	153	30	72,170	..
Delhi*	5	5	1,454	603	5,66,816	2,62,630
Himachal Pradesh*	3	..	312	40	1,28,544	..
Kutch	3	..	139	10	1,14,605	..
Manipur*	4	..	213	51	21,338	..
N E F A.*	2	..	106	..	87,971	..
Tripura*	2	2	120	220	39,199	20,356
Vindhya Pradesh	8	..	570	15	3,13,014	..
India	2,378	689	2,13,735	65,841	4,65,09,384	78,08,207

† Includes enrolment in attached classes.

* Unaffected by States reorganization. Figures for the present Punjab can be got by adding figures for the old Punjab and PEPSU. Approximate figures for the present Rajasthan can be got by adding figures for the old Rajasthan and Ajmer.

Figures for Assam include figures for the Naga Hills District separated from Assam on December 1, 1957.

9. VOCATIONAL AND TRAINING INSTITUTIONS

Type	SCHOOLS				COLLEGES			
	Number of Institutions	Number of boys	Number of girls	Expenditure in Rs.	Number of Institutions	Number of boys	Number of girls	Expenditure in Rs.
Agriculture	77	5,216	14	25,97,050	24	5,840	37	59,12,154
Arts and Crafts	391	4,780	14,995	17,95,264	..	..	..	..
Commerce	898	69,888	10,326	32,11,673	26	58,496	422	20,63,471
Engineering	61	27,510	20	70,62,188	40	16,959	12	1,94,69,016
Forestry	3	116	..	1,16,156	3	320	..	6,55,278
Law	..	..	..	..	25	19,921	347	16,95,657
Marine Engineering	3	1,206	..	9,20,515	..	..	..	..
Physical Education	17	1,871	372	2,62,568	8	442	48	4,28,944
Medical	82	3,580	2,563	21,48,633	88	21,062	3,987	2,71,78,316
Teachers' Training	923	64,197	25,681	190,07,007	107	10,028	4,354	65,65,918
Technology and Industry	609	34,289	11,868	161,95,404	7	2,862	26	11,88,899
Veterinary	2	728	..	1,13,481	15	3,636	13	34,02,814
Others	1	354	..	2,81,652	3	319	12	5,47,724
India	3,067	2,13,735	65,841	5,43,17,591	346	1,39,885	9,258	7,00,08,191

10. TECHNICAL AND PROFESSIONAL EDUCATION (COLLEGIATE)

State	Number of Colleges for		Enrolment†		Expenditure in Rs. on	
	Boys	Girls	Boys	Girls	Boys	Girls
Andhra	10	2	7,705	298	25,13,930	64,104
Assam*	5	..	2,350	102	11,46,731	..
Bihar	26	1	11,178	228	46,16,667	39,041
Bombay	62	..	21,024	1,822	1,37,29,609	..
Madhya Pradesh	21	2	6,481	463	44,08,026	1,46,863
Madras	29	3	12,754	966	66,68,281	2,12,037
Orissa*	6	..	1,021	73	6,70,771	..
Punjab	17	4	4,455	1,290	25,50,095	7,55,191
Uttar Pradesh*	32	8	23,069	1,292	51,15,913	3,61,802
West Bengal	29	1	18,860	850	1,17,88,660	92,638
Hyderabad	12	..	4,043	292	15,94,683	..
Jammu & Kashmir	3	..	155	34	1,79,699	..
Madhya Bharat	8	..	3,870	153	18,51,468	..
Mysore	17	..	6,156	223	13,58,680	..
PEPSU	3	..	349	62	7,23,949	..
Rajasthan	13	..	7,052	124	17,69,522	..
Saurashtra	6	..	1,115	23	13,92,689	..
Travancore-Cochin	12	1	3,598	432	11,89,031	28,341
Ajmer	..	..	591	..	..	..
Bhopal	3	..	362	30	3,14,559	..
Delhi*	6	2	3,304	490	24,96,078	21,68,615
Himachal Pradesh	1	..	24	..	24,862	..
Manipur*	..	..	67	1	..	..
Tripura*	1	..	90	2	35,656	..
Vindhya Pradesh	..	..	212	8	35,656	..
India	322	24	1,39,885	9,258	6,61,39,559	38,68,632

* Unaffected by States reorganization. Figures for the present Punjab can be got by adding figures for the old Punjab and PEPSU. Approximate figures for the present Rajasthan can be got by adding figures for the old Rajasthan and Ajmer.
Figures for Assam include figures for the Naga Hills District separated from Assam on December 1, 1957.
† Includes enrolment in attached classes.

11. TEACHER TRAINING INSTITUTIONS (NUMBER) †

State	Colleges		Schools	
	Basic	Non-Basic	Basic	Non-Basic
Andhra	1	5	25	55
Assam*	..	..	19	15
Bihar	3	2	62	26
Bombay	3	9	90	58
Madhya Pradesh	1	6	37	2
Madras	..	15	82	82
Orissa*	1	1	6	31
Punjab	5	5	13	..
Uttar Pradesh*	5	14	97	..
West Bengal	2	4	12	41
Hyderabad	..	4	20	1
Jammu & Kashmir*	..	2	..	..
Madhya Bharat	..	1	6	6
Mysore	1	3	1	14
PEPSU	1	..	3	1
Rajasthan	2	1	12	..
Saurashtra	1	1	13	..
Travancore-Cochin	..	4	12	63
Ajmer	..	..	1	..
Bhopal	1	..	1	1
Coorg	..	..	1	..
Delhi*	..	1	1	2
Himachal Pradesh*	1	..	1	1
Kutch	..	..	1	..
Manipur*	..	..	1	2
N.E.F.A.*	..	..	1	
Tripura*	1	..	..	..
Vindhya Pradesh	..	..	2	2
Total	29	78	520	403

† Only non-technical and non-professional education.
* Unaffected by States reorganization. Figures for the present Punjab can be got by adding figures for the old Punjab and PEPSU. Approximate figures for the present Rajasthan can be got by adding figures for the old Rajasthan and Ajmer.
Figures for Assam include figures for the Naga Hills District separated from Assam on December 1, 1957.

12. TEACHER TRAINING INSTITUTIONS (ENROLMENT, EXPENDITURE)

State	TRAINING SCHOOLS				TRAINING COLLEGES			
	Enrolment		Expenditure in Rs.		Enrolment		Expenditure in Rs.	
	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls
Andhra	8,005	2,653	7,99,838	2,90,762	608	108	2,43,174	64,104
Assam*	1,852	235	7,52,740	47,789	160	70	..	..
Bihar	6,650	695	16,53,771	1,73,125	443	84	2,40,230	39,041
Bombay	9,979	5,173	21,29,337	11,80,351	1,001	513	8,85,744	..
Madhya Pradesh	4,506	1,122	12,41,326	3,81,729	546	334	5,54,523	1,46,863
Madras	11,024	8,051	14,17,179	9,76,806	930	257	5,39,709	2,12,037
Orissa*	1,934	98	2,88,534	19,721	112	16	63,051	..
Punjab	4,362	1,915	3,02,645	71,957	1,913	1,089	4,11,561	1,16,216
Uttar Pradesh*	5,200	700	19,63,921	5,33,986	1,943	895	8,58,855	3,61,802
West Bengal	1,253	536	3,78,694	1,60,807	688	361	3,45,432	92,638
Hyderabad	1,001	192	9,99,424	8,552	226	62	2,71,826	..
Jammu & Kashmir*	..	..	..	..	698	157	1,63,898	..
Madhya Bharat	646	129	2,19,011	39,862	54	9	52,255	..
Mysore	1,426	371	8,71,476	1,01,955	213	72	97,530	..
PEPSU	657	186	97,965	31,818	153	28	77,990	..
Rajasthan	902	142	4,86,985	37,655	286	25	1,90,305	..
Saurashtra	665	486	5,31,456	55,658	48	7	81,786	..
Travancore-Cochin	2,616	2,515	6,93,522	42,707	336	246	1,57,345	28,341
Ajmer	113	20	90,556	..	..	..	..	..
Bhopal	357	31	52,303	..	49	15	22,069	..
Coorg	67	8	24,164	..	..	..	..	..
Delhi*	84	245	34,450	95,941	126	119	1,87,075	..
Himachal Pradesh*	176	40	54,532	..	24	..	24,862	..
Kutch	66	10	73,596	..	..	..	..	..
Manipur*	95	11	16,548	..	..	..	..	..
N. E. F. A.*	26	..	38,802	..	..	..	..	..
Tripura*	36	14	..	..	14	2	35,656	..
Vindhya Pradesh	343	15	1,43,051	..	32	8	..	..
India	64,041	25,593	1,53,55,826	42,51,181	10,603	4,477	55,04,876	10,61,042

* Unaffected by States reorganization. Figures for the present Punjab can be got by adding figures for the old Punjab and PEPSU.
Approximate figures for the present Rajasthan can be got by adding figures for the old Rajasthan and Ajmer.
Figures for Assam include figures for the Naga Hills District separated from Assam on December 1, 1957.

13. SOCIAL EDUCATION

State	Number of Schools		Enrolment		Expenditure in Rs.†	
	Boys	Girls	Boys	Girls	Boys	Girls
Andhra	2,659	..	74,649	3,303	6,19,005	..
Assam*	691	48	39,771	4,295	1,80,882	8,647
Bihar	4,557	278	1,73,937	13,644	9,80,403	64,682
Bombay	17,756	2,735	3,71,704	59,052	6,20,013	1,35,016
Madhya Pradesh	2,143	162	33,746	3,397	5,62,781	40,510
Madras	1,529	..	41,069	4,058	3,05,125	..
Orissa*	1,584	32	43,937	2,673	1,36,332	2,322
Punjab	168	72	5,953	3,481	1,03,769	77,088
Uttar Pradesh*	378	124	10,132	2,491	92,459	27,239
West Bengal	2,986	382	1,57,728	19,466	8,32,107	1,37,637
Hyderabad	1,378	30	60,363	1,850	1,13,861	3,120
Madhya Bharat	600	..	12,376	361	2,24,605	..
Mysore	1,196	200	22,490	3,234	57,787	9,660
PEPSU	334	18	2,656	147	††	††
Rajasthan	147	49	12,275	2,965	1,10,329	39,125
Saurashtra	1,259	111	27,914	3,188	2,45,784	22,605
Travancore-Cochin	54	12	2,637	716	32,624	7,370
Ajmer	915	160	11,277	1,737	2,78,212	43,216
Bhopal	39	4	754	47	37,076	4,262
Coorg	67	6	1,319	161	37,940	3,396
Delhi*	116	75	6,594	4,107	2,84,022	71,377
Himachal Pradesh*	151	..	3,025	394	34,404	..
Kutch	71	12	1,001	21	11,092	860
Manipur*	10	..	63	..	2,048	..
N. E. F. A.*	10	..	145	..	35,845	..
Tripura*	315	19	11,137	1,211	3,46,403	36,876
Vindhya Pradesh	449	..	14,296	..	1,76,270	..
India	41,562	4,529	11,42,948	1,36,193	64,61,178	7,35,008

* Unaffected by States reorganization. The figures for the present Punjab can be got by adding the figures for the old Punjab and PEPSU.
Approximate figures for the present Rajasthan can be got by adding the figures for the old Rajasthan and Ajmer.
Figures for Assam include figures for the Naga Hills District separated from Assam on December 1, 1957.
† Refers to direct expenditure only.
†† No direct expenditure was incurred during the year.

14. BASIC SCHOOLS

State	Number of Schools	Number of Pupils	Number of Teachers	Direct Expenditure in Rs.
Andhra	638	64,164	2,115	14,33,963
Assam*	640	48,315	1,537	12,11,538
Bihar	2,118	1,72,008	7,318	54,45,203
Bombay	3,670	10,70,830	28,194	3,07,07,601
Madhya Pradesh	1,130	1,50,347	5,413	42,76,152
Madras	2,405	3,34,541	11,214	82,48,911
Orissa*	383	23,509	930	9,30,022
Punjab	334	33,651	956	10,85,854
Uttar Pradesh*	31,898	27,37,827	77,575	5,34,63,945
West Bengal	496	59,721	2,039	18,82,317
Hyderabad	189	22,070	985	10,29,967
Jammu and Kashmir*	..	..	..	..
Madhya Bharat	442	35,686	1,059	7,44,550
Mysore	275	16,156	740	5,05,496
PEPSU	67	4,222	138	2,32,496
Rajasthan	142	12,110	534	3,66,367
Saurashtra	1,742	1,59,521	5,947	43,08,486
Travancore-Cochin	6	622	23	21,569
Ajmer	475	26,653	1,188	19,71,907
A. & N. Islands*	5	228	7	10,857
Bhopal	97	4,661	393	2,46,020
Coorg	118	22,099	659	9,03,613
Delhi*	299	37,266	1,273	16,01,433
Himachal Pradesh*	86	6,143	263	2,26,477
Kutch	..	..	..	..
Manipur*	1	101	5	7,800
N. E. F. A.*	7	193	13	84,280
Tripura*	44	8,529	233	3,76,578
Vindhya Pradesh	106	9,034	349	2,28,444
India	47,813	50,60,207	1,51,019	12,15,52,506

* Unaffected by States reorganization. The figures for the present Punjab can be got by adding the figures for the old Punjab and PEPSU. Approximate figures for the present Rajasthan can be got by adding the figures for the old Rajasthan and Ajmer.

Figures for Assam include figures for the Naga Hills District separated from Assam on December 1, 1957

The number of pre-primary schools was 426 and the enrolment 42,751 (22,919 boys, 19,832 girls). The total direct expenditure was Rs. 16,89,300 (all figures for 1953-54).

15. SCHOOLS FOR THE HANDICAPPED

State	Number of Schools				Number of Students				Expenditure in Rs.
	Blind	Deaf-Mute	Crippled	Mentally Handicapped	Blind	Deaf-Mute	Crippled	Mentally Handicapped	
Andhra	2	1	3	-	84	41	117	-	42,306
Assam*	-	1	-	-	-	35		-	8,109
Bihar	4	2	-	-	143	51		-	80,636
Bombay	12	9	1	2	590	407	36	164	6,32,285
Madhya Pradesh	2	1	-	-	69	12		-	40,545
Madras	5	6	4	-	336	687	399	-	3,10,934
Orissa*		1	-	-	-	14		-	4,326
Punjab	1	-	-	-	64	-	-	-	43,779
Uttar Pradesh*	10	4	-	-	344	196		-	4,46,231
West Bengal	3	4	-	1	101	374	-	63	3,81,279
Hyderabad	-	1	-	-	-	120	-	-	53,053
Madhya Bharat	1	-	-	-	44	-		-	17,915
Mysore	1	-	-	-	102	-		-	48,036
Rajasthan	1	-	-	-	31	-	-	-	16,139
Saurashtra	2	1	-	-	36	28	-	-	14,283
Travancore-Cochin	1	2	-		40	118	-	-	58,050
Ajmer	1	-	-	-	37		-	-	45,073
Delhi*	2	1	-		121	207	-	-	1,39,228
Kutch	1	-	-	-	13	-	-	-	13,311
India	49	34	8	3	2,245	2,290	522	227	23,96,418

* Unaffected by States reorganization. The figures for the present Punjab can be got by adding the figures for the old Punjab and PEPSU. Approximate figures for the present Rajasthan can be got by adding the figures for the old Rajasthan and Ajmer.

Figures for Assam include figures for the Naga Hills District separated from Assam on December 1, 1957.

16. LITERACY (1951 CENSUS)

The literacy percentage excludes children below 10.

State	Men	Women	All Persons
Assam*	33·8	9·6	22·8
Bihar	22·8	4·9	13·9
Bombay	44·1	15·3	30·3
Madhya Pradesh	27·5	6·0	16·8
Madras	35·5	12·1	23·8
Orissa*	22·9	4·9	13·8
Punjab	27·8	10·4	19·8
Uttar Pradesh*	21·9	4·5	13·7
West Bengal	37·0	13·9	26·7
Hyderabad	19·6	3·8	11·9
Madhya Bharat	20·8	4·4	13·1
Mysore	36·8	12·2	25·1
PEPSU	15·6	5·6	11·0
Rajasthan	13·8	2·9	8·6
Saurashtra	35·2	13·5	24·5
Travancore-Cochin	70·8	46·1	58·3
Ajmer	32·1	9·5	21·4
A. & N. Islands*	42·2	15·6	33·1
Bhopal	17·4	4·3	11·2
Coorg	42·8	24·1	34·7
Delhi*	47·5	29·9	40·1
Himachal Pradesh*	8·9	2·3	5·8
Kutch	30·8	13·1	21·5
Manipur*	26·2	3·0	14·2
Tripura*	26·8	6·0	17·0
Vindhya Pradesh	14·4	1·4	8·1
India	29·6	9·3	19·9

* Unaffected by States reorganization.

Figures for Assam include figures for the Naga Hills District separated from Assam on December 1, 1957.

17. NUMBER OF STUDENTS ON ROLLS

The figures for recognized institutions are given below.

Institutions	Boys	Girls	Total
Colleges (General Education)			
Research	2,193	371	2,564
M A & M Sc.	21,293	4,040	25,333
B A & B Sc. (Pass & Hons.)	1,26,117	24,741	1,50,858
Intermediate (Arts & Science)	3,41,592	54,940	3,96,532
Colleges (Professional and Special)			
Education (Teachers' Training)	9,962	4,318	14,280
Engineering	16,959	12	16,971
Technology	2,881	26	2,887
Medicine	21,085	3,987	25,072
Veterinary Science	3,636	13	3,649
Agriculture	5,840	37	5,877
Forestry	320	...	320
Commerce	58,496	422	58,918
Law	19,921	347	20,268
Physical Education	442	48	490
Fine Arts, Dancing & Other Fine Arts	1,579	1,843	3,422
Oriental Studies	4,928	497	5,425
Others	2,254	949	3,203
Schools (General Education)			
Secondary	54,69,667	13,40,013	68,09,680
Primary	1,70,43,202	74,85,086	2,45,28,288
Pre-Primary	44,864	30,631	75,495
Schools (Professional & Special)			
Technical & Training	64,616	25,716	90,332
Engineering	27,487	20	27,507
Technology & Industry	34,312	11,868	46,180
Medicine	3,678	2,565	6,243
Agriculture & Forestry	5,332	14	5,346
Commerce	69,215	10,322	79,537
Fine Arts & Crafts	4,780	14,995	19,775
Schools for Physical Education, Marine Training, etc.	3,733	376	4,109
Others	354	...	354
Fine Arts, Dancing & Other Fine Arts	6,873	7,144	14,017
Oriental Studies	1,17,402	10,340	1,27,742
Schools for Handicapped	3,729	1,157	4,886
Schools for Adults	11,42,926	1,35,901	12,78,827
Reformatory	6,094	1,095	7,189
Other subjects	48,302	13,303	61,605
Total	2,47,36,044	91,87,137	3,39,23,181

18. NUMBER OF PASSES AT MATRICULATION AND UNIVERSITY EXAMINATIONS†

State	Matriculation Number Appeared	Matriculation Number Passed	Number Passed Intermediate	Number Passed B.A. and B.Sc. (including Hons.)	Number Passed M.A. and M.Sc.	Number Passed Research	Number Passed Professional (Degrees and equivalent Diplomas)
Andhra	66,889	26,727	7,735	2,979	112	13	1,611
Assam*	14,793	6,091	1,869	688	96	3	102
Bihar	62,812	33,172	5,869	1,840	839	..	2,023
Bombay	1,19,870	57,446	12,052	7,414	1,046	51	5,063
Madhya Pradesh	21,949	12,403	2,903	1,922	658	15	1,273
Madras	91,013	35,331	11,753	5,147	329	29	3,470
Orissa*	9,114	4,582	1,172	543	57	..	292
Punjab	72,195	40,333	6,839	3,837	620	..	1,797
Uttar Pradesh*	1,74,994	78,414	34,423	11,015	4,476	156	6,401
West Bengal	75,991	38,793	18,712	5,114	1,052	58	4,703
Hyderabad	34,347	11,826	2,475	1,313	173	..	1,170
Jammu & Kashmir*	6,134	2,889	969	462	22	..	152
Madhya Bharat	13,275	5,513	2,668	492	158	..	503
Mysore	58,226	14,756	3,630	1,839	156	..	1,299
PEPSU	9,272	5,525	592	234	28	..	96
Rajasthan	22,069	11,140	1,886	1,013	368	..	1,056
Saurashtra	5,918	2,656	635	287	24	..	108
Travancore-Cochin	51,011	22,749	6,201	3,002	147	1	1,264
Ajmer	5,665	1,920	1,818	149	68	..	70
A. & N. Islands*	56	27	..	..	..	..	..
Bhopal	662	270	117	44	16	..	73
Coorg	461	208	54	7	..	..	..
Delhi*	7,493	4,534	414	1,001	366	11	830
Himachal Pradesh*	1,382	851	37	19	..	..	..
Kutch	600	256	39	4	..	..	..
Manipur*	1,507	614	130	27	..	..	..
N.E.F.A.*	6	5	..	..	..	..	..
Tripura*	1,158	438	248	58	..	..	32
Vindhya Pradesh	1,872	702	128	61	19	..	43
India	9,30,794	4,20,171	1,25,374	50,511	10,830	352	34,033

† Figures are provisional.

* Unaffected by States reorganization. The figures for the present Punjab can be got by adding the figures for the old Punjab and PEPSU. Approximate figures for the present Rajasthan can be got by adding the figures for the old Rajasthan and Ajmer.

Figures for Assam include figures for the Naga Hills District separated from Assam on December 1, 1957.

19. EXPENDITURE ON RECOGNIZED INSTITUTIONS

By Sources

	Boys	Girls	Total
Government Funds (Central)	11,50,48,661	64,45,166	12,14,93,827
Government Funds (State)	94,94,78,003	10,04,79,716	104,99,57,719
District Board Funds	9,45,35,446	44,60,253	9,89,95,699
Municipal Board Funds	4,86,77,879	1,58,66,012	6,45,43,891
Fees	33,66,84,910	4,20,93,694	37,87,78,604
Endowments, etc.	4,77,76,591	90,40,243	5,68,16,834
Other Sources	10,97,88,904	1,52,73,335	12,50,62,239

By Type of Institution

Direct Expenditure on :			
Universities	7,93,16,855	3,36,266	7,96,53,121
Research Institutions	1,39,04,324	..	1,39,04,324
Colleges for General Education	10,67,05,437	97,68,585	11,64,74,022
Colleges for Professional and Special Education	6,91,54,374	44,80,545	7,36,34,919
Secondary Schools	44,75,43,479	8,28,75,805	53,04,19,284
Primary and Pre-primary Schools	49,18,42,249	4,79,29,058	53,97,71,307
Professional and Special Schools	7,05,56,219	1,02,96,113	8,08,52,332
Boards of Education	1,32,40,136	..	1,32,40,136
Indirect Expenditure	40,97,27,321	3,79,72,047	44,76,99,368
Total	1,70,12,90,394	19,36,58,419	1,89,56,48,813

20. TEACHERS IN SCHOOLS FOR GENERAL EDUCATION

Recognized

	Men	Women
Secondary Schools		
Trained	1,58,374	41,540
Untrained	1,20,885	17,389
Total	2,79,259	58,929
Primary		
Trained	3,36,530	86,262
Untrained	2,37,652	30,805
Total	5,74,182	1,17,067

21. COMPULSORY PRIMARY EDUCATION

State	Compulsion age-group Towns	Compulsion age-group Villages	Number of Towns	Number of Villages	Number of Schools in towns	Number of Schools in villages	Total number of pupils
Andhra	6-12	6-12	178	822	1,225	1,550	3,68,702
Assam*	6-11	6-11	11	4,145	116	3,587	2,87,289
Bihar	6-10	6-10	17	19	627	9	61,566
Bombay	6-11 7-11 7-12 7-9	6-11 7-11 7-12 7-9	291	9,300	3,478	14,600	22,49,477
Madhya Pradesh	6-11	6-11	61	1,225	406	411	1,33,033
Madras	6-12	6-12	247	685	2,631	1,923	8,46,020
Orissa*	6-11	6-11	2	20	18	5	2,055
Punjab	6-11	6-11	34	4,771	247	2,181	2,48,145
Uttar Pradesh*	6-11	6-11	95	1,687	2,285	543	4,57,182
West Bengal	6-11	6-11	2†	5,745	83	2,914	3,47,071
Hyderabad	6-11	6-11	3	530	31	537	44,666
Madhya Bharat	6-11	6-11	64	1,207	835	730	1,01,721
Mysore	6-10	6-10	12	2,748	207	1,402	1,20,478
PEPSU	–	6-12	–	70	–	303	2,329
Travancore-Cochin	5-10	5-10	17	4,500	178	1,177	5,85,164
Ajmer	–	6-11	–	706	–	469	24,668
Delhi*	6-11	6-11	1	305	184	300	1,10,531
Vindhya Pradesh	6-11	6-11	47	791	113	913	97,375
India	–	–	1,082	39,276	12,604	33,554	60,87,412

* Unaffected by States reorganization. The figures for the present Punjab can be got by adding the figures for the old Punjab and PEPSU. Approximate figures for the present Rajasthan can be got by adding the figures for the old Rajasthan and Ajmer.

The figures for Assam include the figures for the Naga Hills District separated from Assam on December 1, 1957.

† 5 Wards of Calcutta Corporation and 8 Wards of Darjeeling.

PUBLIC HEALTH

MATTERS connected with health fall largely in the State field.

The Centre is, however, directly responsible even for State subjects in the Centrally administered areas of Manipur, Delhi, Tripura and Himachal Pradesh.

The Central Government's function in regard to matters which are primarily the responsibility of States themselves, can be stated to be co-ordination, the collection and supply of information, supply of expert technical assistance and advice, and such other assistance as can be given for the promotion of the health and well-being of the country.

Subjects for which the Ministry is primarily responsibl are given below:

Relations with United Nations and foreign and International Organisations; International Sanitary Regulations; Seamen's Welfare; All-India Councils of medical and allied professions; Drugs Standard Control—under the Drugs Act, 1940 (as amended) and rules thereunder; Prevention of Food Adulteration Act; Higher Medical and Public Health training of students abroad; Medical Research; Central Plan for Medical and Public Health development; Inter-State Quarantine; Family Planning; Development of Health Services in States in particular, services relating to the control of diseases like Malaria, Tuberculosis, Venereal Diseases, Filaria, Leprosy, etc. as also the development of Maternity and Child Welfare, Nursing and Family Planning; The designing and equipment of medical institutions; Nutrition; Co-ordination of State Control of Standards of drugs manufactured and sold in the country; National Water Supply and Sanitation Schemes.

CENTRAL INSTITUTIONS

The departments and institutes under the Ministry are:

The Directorate General of Health Services; The Malaria Institute of India, Delhi; The All-India Institute of Hygiene and Public Health, Calcutta; The Central Drugs Laboratory, Calcutta; The Serologist and Chemical Examiner to the Government of India, Calcutta; The Central Research Institute, Kasauli; The Indian Cancer Research Centre, Bombay; The Central Institute of Research in Indigenous systems of Medicine, Jamnagar; Post-graduate training centre in Ayurveda, Jamnagar; The Lady Reading Health School and Ram Chand Lohia Infant Welfare Centre, Delhi; The Lady Hardinge Medical College and Hospital, New Delhi; The Kalavati Paediatric Hospital, New Delhi; The College of Nursing, New Delhi; The Hospital for Mental Diseases, Ranchi; The All-India Institute of Mental Health, Bangalore; The B.C.G. Vaccine Laboratory, Guindy, Madras; The Indian Council of Medical Research, New Delhi; The Willingdon Hospital and Nursing Home, New Delhi; The Safdarjang Hospital, New Delhi; The Leprosy Teaching and Research Institute, Chingleput, Madras; Medical Stores Depots and Factories; The All-India Institute of Medical Sciences, New Delhi; The V.D. Training Centre, Safdarjang Hospital, New Delhi; Contributory Health Service Organisation, New Delhi, Port and Airport Health Organisations Offices of the Assistants Drugs Controller at Ports; The Antigen Production Unit, Calcutta; Central Quinine Office, Calcutta; The Central Food Laboratory, Calcutta.

A Central Health Service has been sanctioned; when fully constituted it will comprise about 350 Class I posts and an equal number of class II posts.

CENSUS

In 1956, it was estimated, there were about 10,000 medical institutions and about 125,000 beds. This would represent an increase during the First Plan of about 16 per cent in institutions and 10 per cent in beds.

The total outlay on public health during the First Plan was about Rs. 101 crores.

Second Plan: Rs. 256 crores.

The main facts (based on 1951 census reports) are given below:

About 380,000 persons are engaged in medical and health services in the country as a whole. Out of this 230,000 live in towns and 150,000 live in villages. These may be divided as follows (exclusive of five Districts in Bihar):

Registered medical practitioners (91,930); Vaids, hakims and those not registered (96,147); Compounders (38,407); Nurses (31,517); Midwives (23,938); Vaccinators (5,928); Dentists (3,283); Others engaged in hospitals and private establishments rendering medical or health services but not including scavengers or sanitary staff (72,970).

Number of hospitals, 8,601 (1951); no. of beds, 113,557 (1951); no. of nursing homes, 500 (1952); no. of medical colleges (including 3 dental colleges, 3 nursing, one pharmacy), 34 (1952); no. of colleges for indigenous systems, 50 (1952); no. of special institutions (*e.g.*, radiological) conducted by private agencies, 195; no. of maternity and child welfare centres (urban) 684, (rural) 418 (1947); no. of trained visitors (urban) 231, (rural) 136 (1947); no. of trained midwives (urban) 922, (rural) 255 (1947); no. of trained *dais* (urban) 1,264, (rural) 1,387 (1947).

VITAL STATISTICS

The registered birth rates, death rates and infant mortality rates are given below:

—	Birth rate.	Death rate.	Infant Mortality rate.
1930 ..	33·0	25·0	189
1940 ..	33·0	22·0	160
1947 ..	26·6	19·7	146
1948 ..	25·4	17·1	130
1949 ..	26·7	15·8	123
1950 ..	24·8	16·0	127
1953 ..	24·8	14·4	118
1954 ..	25·4	12·9	113
1955* ..	27·3	11·6	100

Note: Figs. for 1930 and 1940 relate to British Indian provinces. The rest relate to former Part 'A' States and Delhi, Ajmer, Coorg.

* Excludes Bihar, M.P., Orissa.

The infant mortality rates in some of the Indian cities per *mille* of live births are given below.

Name of the City	1954	1955
Ahmedabad ..	147	145
Bombay ..	124	111
Calcutta ..	137	133
Delhi ..	N.A.	N.A.
Lucknow ..	124	116
Madras ..	136	143
Nagpur ..	193	N.A.

N.A. = Not available.

The following paragraph gives the maternal death-rate (deaths per 1,000 of live and still-births) for 1955 in some major towns in India.

Ahmedabad, 0·6; Bombay, 1·0; Calcutta, 2·6; Delhi City, 1·7; Lucknow, 1·5; Madras, 2·3.

TROPICAL DISEASES

The following table gives the number of deaths and rates (number of deaths for every 1,000 of the population) from different diseases recorded in former Part 'A' States and Delhi, Coorg and Ajmer.

	1954 †		1955*	
	Total	Rate	Total	Rate
Cholera	8,630	0·04	7,256	0·03
Dysentery & Diarrhoea ..	161,233	0·7	131,251	0·6
Fever	1,476,998	6·1	1,048,927	4·8
Malaria**	—	—	—	—
Plague	569	—	178	—
Respiratory disease	316,494	1·3	290,143	1·3
Small-pox	28,080	0·1	21,184	0·1
Tuberculosis**	—	—	—	—
Other Causes	1,124,183	4·6	1,024,581	4·7
Total	3,116,187	12·9	2,523,520	11·6

** Not available. † Excluding Bihar. * Excluding Bihar, M.P., Orissa.

Death rates from certain causes recorded in the various States of India for 1955:

State (Pre-reorganization)	Cholera	Small-pox	Plague	Fevers	Dysentery & Diarrhoea	Respiratory diseases	All other causes	Total
Andhra	0·03	0·06	—	5·3	0·9	1·1	7·5	14·8
Assam	0·04	0·01	—	4·2	0·4	0·7	0·1	5·6
Bihar	*	*	*	*	*	*	*	*
Bombay	0·01	0·06	—	5·4	0·6	2·6	6·5	15·2
Madras	0·01	0·02	—	2·4	1·0	1·4	9·3	14·1
Madhya Pradesh	*	*	*	*	*	*	*	*
Orissa	*	*	*	*	*	*	*	*
Punjab	—	0·01	—	8·2	0·3	2·1	2·4	13·7
Uttar Pradesh ..	0·02	0·2	—	5·8	0·3	0·7	1·3	8·4
West Bengal ..	0·2	0·02	—	3·6	0·6	1·0	3·6	8·9
Ajmer	—	0·2	—	9·9	0·2	0·7	1·6	12·7
Coorg	—	0·1	—	—	0·3	0·7	6·8	8·1
Delhi	—	0·02	—	1·6	0·5	2·3	4·3	8·7

* Information not available.

Venereal Diseases : The incidence of venereal disease is particularly high in the hill tracts from Kashmir to Assam. It is also estimated that in the three States (pre-reorganization) of Madras, Bombay and West Bengal the incidence was between 5 and 7 per cent.

Fifty Veneral Diseases clinics were set up during the First Plan period, 17 of which received equipment from UNICEF.

A plant for producing Antigen has been in production since 1954. Two training centres have been established at the Safdar Jang Hospital (Delhi) and other at the Madras General Hospital.

It is proposed to establish a Central Venereal Diseases Organisation during the Second Plan Period, for which a provision of Rs. 58·67 lakhs has been made. Three clinics were to be established in 1956-57, and 18 in each of the four remaining years. Eight Headquarter Clinics, two in 1957-58 and the remaining six in the next 3 years are also envisaged.

A provision of Rs. 102 lakhs was made by the States for affording facilities for the treatment and control of venereal diseases. It was proposed to establish 71 clinics during the First Plan. The information about the number of clinics actually opened is not available.

Cancer : The number of persons who die of cancer annually is believed to be in the neighbourhood of 2 lakhs.

There are only two institutions for the treatment of cancer in India : Tata Memorial Hospital at Bombay and the Chittaranjan Hospital at Calcutta.. Both are now under the Central Government.

Research is conducted at the Cancer Research Centre at the Tata Memorial Hospital in Bombay. The Indian Cancer Society has its headquarters in Bombay and its divisional headquarters in Calcutta and Madras.

Under the Second Five-Year Plan Rs. 35 lakhs have been provided to establish cancer wards and units in certain hospitals.

PUBLIC HEALTH AGENCIES

A Central Council of Health exists with the Union Health Minister as chairman and State Health Ministers as members. The Deputy Director-General of Health Services is the Secretary. The object is to consider policy in respect of health matters.

The All-India Council of Post-graduate Medical Education prescribes standards for post-graduate medical education.

The body in charge of research is the Indian Council of Medical Research.

(For a list of research institutions see under Research.)

A sum of Rs. 4 crores is provided for research programmes.

The annual grant to the Council amounts to Rs 12 lakhs.

There are four main medical depots—one each at Bombay, Calcutta, Karnal and Madras. The depots at Bombay and Madras have factories attached to them.

The Haffkine Institute, Bombay, manufactures sulpha drugs.

The following medical bodies are in existence : The Indian Medical Council, the Indian Nursing Council, the Dental Council of India and the Pharmacy Council of India.

The object is to control and regulate the respective professions and standards of qualification.

There are State Pharmacy Councils in Punjab, W. Bengal, Bombay, Madras and M.P.

Among important Acts in force are Vaccination Act, Drugs Act of 1940, Drugs Rules of 1945. Then there are the Indian Medical Council Act, the Nursing Act of 1947, the Dentist Act, the Pharmacy Act.

CONTROL OF DISEASES

Steps are being taken to control a number of diseases that are rampant.

Malaria

National Malaria Control Programme was launched with effect from April, 1953 as a part of the first Five-Year Plan. It provided for the establishment of 136 field malaria control units to give protection to 136 million people out of the 200 million residing in the malarious areas. These units were allotted to all the 20 States forming the Republic of India according to the importance of malaria problem in each State.

During the first Five-Year Plan 162 units were allotted, each unit to cover a population of one million. 112·45 million people were protected against malaria and 25·42 lakh cases were treated.

There has been a substantial decrease in the incidence of malaria ; 19·3 million cases were reported in 1955-56 as against 60·7 million in 1953-54.

Morbidity was reduced from 17·2 per mille in 1951-52 to 12·7 per mille in 1955-56.

The consumption of anti-malarial drugs fell by 67·7 per cent— of quinine and other cinchona products by 80 per cent.

The programme is being continued in the Second Five-Year Plan period. During 1956-57, 38 more units were allotted to various States bringing the total to 200 which will afford protection to 200 million people estimated to be the number exposed to risk in different parts of the country.

175 units were functioning till the end of September, 1957.

The DDT factory at Delhi has produced 904 tons of DDT 50 per cent and about 52 tons of technical DDT during the year 1956-57 The production capacity of the factory is being doubled.

The second DDT factory which is being set up at Alwaye, Kerala, was likely to go into production in 1958.

The standard spraying equipment is now being produced locally to meet the entire requirements of the country.

Training facilities at the Malaria Institute of India, Delhi has been intensified since the year 1953-54, 138 medical officers, 556 Malaria Inspectors, 23 Malaria Engineers and 32 Medical Entomologists have been trained

During the first Five-Year Plan period Rs. 11·68 lakhs were spent on the National Malaria Control Programme. The programme is likely to cost Rs. 27 crores during the Second Five-Year Plan period.

The Government of India are considering converting Malaria Control Programme into Eradication Programme from 1958. The eradication programme during the Second Plan period including 2 years of Control Operation and 3 years of Eradication is likely to cost Rs. 52 crores.

Filaria

Among mosquito-borne diseases filaria is second only to malaria. No satisfactory cure has been found for this disease. What is aimed at is the control of the carrier species, and anti-mosquito measures have to continue for five years before results become apparent.

The National Filaria Control programme had 13 control units and 22 survey units allotted during the first Plan. Thirty-three more have been allotted, 13 during the year 1956-57 and 20 during 1957-58.

Filariasis survey with the object of delimiting the extent of the filariasis problem and to collect the pre-control data have been in progress in the States of Bihar, Uttar Pradesh, Orissa, the areas of the former Vindhya Pradesh, Madhya Pradesh, Hyderabad, Saurashtra, Bombay, Andhra, Madras and Travancore-Cochin.

So far representative sample of nearly 16 million persons residing in places known to be or suspected to be filarious have been surveyed.

Mass drug administration with Diethylcarbamazine (Hetrazan) is in progress as part of the control programme in the States of Uttar Pradesh, Orissa, Andhra, Bombay, Kerala, Mysore, Andamans, and is likely to be introduced in Bihar, M.P., Madras.

Over 10·64 lakh persons have been treated.

Anti-mosquito measures are in progress in the States of Andhra, Bihar, Kerala, Orissa, Uttar Pradesh and Nicobar Islands. About 3·66 lakh houses have been sprayed with Dieldrin 50 per cent.

The course of training in filariology is being continued at the Malaria Institute of India, Delhi and another at Ernakulam has been finalised.

So far 57 medical officers and 109 filaria inspectors have been trained.

The National Filaria Control Programme will cost 9 crores of rupees during the Second Five-Year Plan.

Leprosy

A number of bodies are fighting to control leprosy—Mission to Lepers, Hind Kusht Nivaran Sangh (formerly Indian Council of the British Empire Leprosy Relief Association), Gandhi Memorial Leprosy Foundation, Kasturba Gandhi Trust, Maharogi Sewa Mandal.

The Mission runs 50 leper homes with about 10,000 inmates and gets grants from State Governments.

The Sangh has as its president the President of the Indian Republic. It carries on research work at the School of Tropical Medicine at Calcutta, conducts courses in post-graduate training in leprosy, undertakes surveys.

Isolation of leprosy cases in special leprosy homes was regarded in the past as the main method of control of leprosy in endemic areas. Such institutional isolation has not however yielded the results expected of it.

With the discovery of sulphone therapy in leprosy, a new approach is now available for the control of the disease. Apart from clinical improvement, sulphone therapy brings about a gradual reduction in the number of leprosy bacilli in the skin, and, by promoting healing of ulcers in nose and elsewhere, it also reduces infective discharge from patients.

The only sure method of preventing contact with infective cases is the isolation of cases in leprosy hospitals, sanatoria, or colonies. There are in all about 152 colonies, homes, asylums and hospitals for the treatment of leprosy patients and the number of beds provided is estimated at 19,600.

Treatment in out-patient leprosy clinics is also available in various parts of India. The number of such clinics is approximately 1,203 and the total number of cases taking treatment therein is roughly 1,20,000 per year.

Under the Leprosy Control Scheme of the Government of India included in the First Five-Year Plan at a cost of Rs. 30 lakhs to the Central Government alone, 4 treatment and study centres and 36 subsidiary centres were sanctioned in different States. Till the end of March 1956 four treatment and study centres and 29 subsidiary centres were established.

The scheme has been continued in a more expanded form in the Second Plan. An amount of Rs. 409·48 lakhs has been allocated for this purpose in the Second Five-Year Plan. The non-recurring expenditure will be borne in its entirety by the Central Government and the recurring expenditure shared on a 50-50 basis.

The total number of centres functioning till the end of June 1957 including those established during the First Plan was 49.

Besides adding 100 more subsidiary centres during the Second Five-Year Plan, the scheme provides for the training of medical and para-medical personnel, upgrading of leprosy clinics and in-patient institutions and treatment facilities for leprosy patients in N.E.S. Blocks.

A scheme for the training of Medical Officers in Leprosy has been sanctioned.

A Central Leprosy Teaching and Research Institute has been established at Tirumani in Madras State in association with the Lady Willingdon Leprosy Sanatorium, Tirumani and the Silver Jubilee Children Clinic for Child Leprosy, Saidapet.

A sum of Rs. 28·00 lakhs has been provided for this Institute during the Second Five-Year Plan.

Tuberculosis

Mortality figures for cities show a tuberculosis death-rate ranging from 200 to 450 per 100,000 as far as can be ascertained. Little information is available from rural areas but certain investigations have shown that in small towns the infection rate is nearly as high as in the larger cities, and that in the villages it is lower though considerable.

It can be safely estimated that there are at least 500,000 deaths from tuberculosis annually. If the ratio of 5 cases of active tuberculosis to one death from tuberculosis is accepted, there will be, at least, 2,500,000 active cases of tuberculosis in India.

The Government of India has an Adviser in Tuberculosis in its Directorate-General of Health Services. He advises the Central Government and the various State Governments on tuberculosis policy and helps in co-ordinating various tuberculosis schemes. He is also Technical Adviser to the Tuberculosis Association of India.

Prophylactic (BCG) Vaccination against tuberculosis was introduced in India in August, 1948 with the assistance of WHO. The mass campaign was started in April, 1951 and is now (March 1958) in progress in all the States except the Andamans, Pondicherry and the Laccadives. Upto the end of Dec. 1957, about 10 crore persons had been tuberlin tested of whom about 3·5 crores were vaccinated with BCG and thus given protection against tuberculosis

The target is to cover the whole of the susceptible population of 170 millions by 1960-61.

The contribution of UNICEF and WHO would amount to over 1·48 mln dollars upto the end of 1958 to cover the services of the international personnel and provision of equipment and supplies consisting of vaccination equipment and vehicles, film projectors, public address equipment, etc.

There were in Oct. 1957, 154 technician's teams, each team consisting of one team leader (medical or non-medical) and six technicians in one team.

In furtherance of the object of introducing B.C.G. Vaccination in India, a laboratory for the manufacture of this vaccine was established by the Government of India at the King Institute, Guindy, in 1949. It supplies vaccine not only to centres in India but also to centres in South-East Asia.

In order to find out if it is possible to obviate certain difficulties experienced in the use of the liquid vaccine, a freeze drying vaccine plant for manufacturing and using dry vaccine has been installed as a pilot project.

There are at present five anti-tuberculosis demonstration and teaching centres, one each at New Delhi, Patna, Trivandrum, Madras and Nagpur. The Madras centre which was established in 1956 is beginning its career with an important research project namely the study of the role of modern tubercular drugs in the prevention of the spread of tuberculosis.

In the Second Plan it is proposed to establish eight more centres.

It is proposed to establish or upgrade about 300 TB Clinics during the Second Plan so as to have at least one Clinic in each District.

Attached to the Delhi University is the 'Patel Chest Institute' for teaching and research in T.B. and other diseases of the chest.

The needs of tuberculous children could not be attended to till recently, but now two hospitals for tuberculosis children have been established, one in Delhi and the other at Arogyavaram in Andhra State.

According to the latest available figures there are for the treatment of T.B. patients, 69 sanatoria, 71 hospitals, 174 clinics, 140 wards with a strength of 22,138 beds.

These beds are meant mostly for giving treatment. Beds for isolating advanced cases of T.B. for whom such treatment is not possible, have so far been negligible, and it is proposed to establish at least 4,000 beds for the isolation of such cases during the Second Plan period.

There are about ten After Care and Rehabilitation Centres for ex-tuberculosis patients, and it may be possible to establish 8 more rehabilitation centres during the second Five-Year Plan period.

The Government of India have also provided for research in various aspects of tuberculosis by providing funds for the purpose to the Indian Council of Medical Research.

Various international bodies also co-operate with the I.C.M.R. in conducting this research on sound lines. A notable research now in progress is the national survey to find out the true incidence of tuberculosis in the urban, semi-urban and rural areas of India.

Goitre, Trachoma

The scheme for goitre control envisages estimation of the problem, the supply of iodised salts and the assessment of the results of iodine prophylaxis.

The estimated cost is about Rs. 18 lakhs. Two field Units will cover a population of 87·5 lakhs in the Second Plan period.

UNICEF assistance of 15,000 dollars was sanctioned at the UNICEF Executive Board meeting in March 1957. It has also agreed to allocate 16,000 dollars for the supply of 5 Iodisation plants which were expected by about the end of 1957.

To assess the role of flies for the spread of trachoma, a review of the fly control work and investigation in two selected villages was suggested. A Trachoma Pilot Project, has now been instituted at Aligarh. Field and laboratory investigations and mass short term intermittent treatment were conducted in selected villages near Aligarh in March and April this year.

Maternity

The maternal and child mortality as already indicated is high—the maternity death rate is over 11 and infant mortality about 100.

In all States welfare activities are in progress. There are posts of maternity and child welfare officers in Madras, West Bengal, Orissa, Assam, Delhi, U.P., Punjab, Madhya Pradesh, Bihar, Andhra, Himachal Pradesh, Kerala, Bombay and Rajasthan. The Government of India has an officer in the Directorate-General of Health Services who gives special attention to maternity and child welfare problems.

Non-official bodies engaged in welfare work are the Association of Medical Aid to Women by Women, Bombay; Mothers' and Children's Welfare Society, Bombay; the Bihar Maternity and Child Welfare Society; the Indian Council for Child Welfare, New Delhi; The Kasturba Gandhi Memorial Trust; and the Indian Red Cross which has a special bureau.

The Central Social and Welfare Board is assisting the State Boards in promoting Maternity and child welfare services. As a result, a large number of agencies are undertaking services for mothers and children and training programmes for staffing the services with trained personnel.

The total number of maternity and child health centres has now increased to over 3,000.

A sum of Rs. 50 lakhs was ear-marked by the Government of India in the First Five-Year Plan for establishing Maternal and Child Health Centres in rural areas of the States.

This sum was utilised by the States, and 201 maternity and Child Welfare Units, each serving a population of 60,000 to 70,000, were established in association with the existing dispensaries.

The staff provided at each unit is one Health Visitor and 4 Midwives for the main centre as well as the 3 sub-centres distributed over the area.

It is proposed to cover 3,000 National Extension Blocks during the Second Five-Year Plan period, under the Primary Health Centre Scheme. The Maternity and Child Welfare Services will be included in the activities of Health Centres.

The programme to train Auxiliary Nurse-Midwives for Community Development Projects, was launched during the year 1954.

Sixty-six training centres in the various States have so far been approved by the Government of India to undertake training under this Scheme.

One thousand, three hundred and sixty nine students have been enrolled so far for training. Of these two hundred and thirty six have since qualified.

Seven training centres, one each in Andhra, Kerala, Orissa, Madhya Pradesh, Punjab and two in Madras, have been approved by the Government of India to undertake the scheme for integration of Public Health with the basic course in Nursing.

A sum of Rs. 4 90 lakhs has been paid by the Central Government to these centres.

One centre at Madras has started the training and the rest of the centres were to start at any time.

The large bulk of midwifery services in the villages will continue to be rendered by *dais* already practising in the villages. Under the Second Five-Year Plan a short six months course has been designed to orient them in modern techniques of asepsis, and make better and fuller use of their services, and provision has been made in the Plan for training 36,000 *dais*. A sum of Rs. 90 lakhs has been provided in the Plan for the purpose. The training will be given at health centres and at existing Maternity and Child Welfare Centres. An additional provision has been made to detail a trained midwife for purposes of supervision and continued assistance.

A sum of Rs. 45 lakhs has been provided in the Second Five-Year Plan to assist medical colleges to improve paediatric training so that medical personnel can, during the training receive adequate instruction in paediatrics and are better equipped to play their role in Child Health services.

Paediatric centres have already been established, one each in Hyderabad and Trivandrum and three more are expected to be established in Darbhanga, Agra and Delhi.

Twelve States have undertaken comprehensive Maternal and Child Health Programmes under WHO-UNICEF assistance which aims at the expansion and improvement of facilities for the training of various levels of health personnel and for the expansion of health services of mothers and children. The UNICEF provides equipment while WHO provides technical personnel. State Governments provide necessary funds and national personnel to develop the services.

The results of these programmes are encouraging in so far as it has succeeded in reducing the maternal and infant mortality of the country as a whole.

DEFECTIVES

The last census of handicapped persons (blind, deaf, crippled, mentally retarded, etc.), took place in 1931. These put the number of blind at about 600,000 and the number of deaf and hard-of-hearing at 230,000.

One important cause of personal deformity is malnutrition which can lead to blindness and deafness.

It is estimated that today the total number of blind is about 2,000,000 and the deaf about 700,000.

There is a Training Centre for the Adult Blind at Dehra Dun to impart vocational training. It imparts training in cottage-industry-type handicrafts to about 170 adult blind. There

is also a common Braille code for Indian languages known as Bharati Braille. The Central Braille Printing Press at Dehra Dun has already published several Braille books in English, Hindi and other regional languages.

The Training Centre at Dehra Dun has now a women's section.

There are in all 75 institutions for the blind and 44 for the deaf and 4 for the mentally handicapped. Four institutions cater for the orthopaedically handicapped children. About 2,000 blind children and adults and about 2,000 deaf children and adults receive training at these institutions.

A Sheltered Workshop for the Blind is functioning as part of the Training Centre where 10 blind workers are employed in chair-caning and weaving of woollen textiles. An Employment Office of the Training Centre has been functioning in Madras and another to be established in Delhi to try and secure remunerative employment for blind persons in ordinary industrial establishments. 70 persons have so far been placed by this office.

The Government of India give scholarships to blind and deaf persons over the age of 16 in order to help them to undertake higher academic education, or, professional, vocational or technical training in normal institutions of learning. Scholarships are also awarded to orthopaedically handicapped children and adults.

The number of scholarships awarded at present is 350.

In September, 1955 the Government of India appointed a National Advisory Council for the Education of the Handicapped to advise Government, to formulate new schemes, and to serve as liaison between Government and voluntary bodies.

On the advice of the Council, the Government of India have included several schemes for the education and welfare of the handicapped in the Second Plan. These schemes include the establishment of a comprehensive National Centre for the Blind at Dehra Dun consisting of the existing Training Centre for the Adult Blind and the Central Braille Press, a model school for blind children with a kindergarten section and a teacher's training department attached, an expanded sheltered workshop and a Braille Circulating Library.

On the lines of the National Centre for the Blind a National Centre for the Deaf is also proposed to be established. This will consist of a model school, a technical training centre for the Adult Blind and an audiological centre.

For the first time the Government of India will also make a beginning with the education and welfare of the mentally handicapped. A model school for the mentally retarded children is proposed to be established in Delhi during the Second Plan period.

One of the most difficult problems in the welfare of the handicapped is to secure employment for suitably trained handicapped persons. In order to deal with this problem the Government of India propose to establish a special organisation during the Second Plan period to assist handicapped persons in finding employment in the public services, industry and commerce.

A conference of the heads of 12 institutions for the orthopaedically handicapped was held in Bombay on 24th June 1957.

It should be mentioned here that the National Physical Laboratory is now working on the production of a cheap hearing aid.

Mental Disease

The number of mental cases is about one million, mental defectives one and a half million, of psycho-neurotics about three million.

There are at present three institutions for mentally retarded children.

At present there are 32 mental hospitals with accommodation for about 20,000 patients.

The Mysore Government Mental Hospital at Bangalore and the Hospital for Mental Diseases at Ranchi are the ones which are best equipped.

The following is a list of mental hospitals in India :

Mental Hospital, Tezpur; Inter-Provincial Mental Hospital, Kanke, Ranchi; Indian Mental Hospital, Kanke, Ranchi; N. M. Mental Hospital, Thana (Bombay); Mental Hospital, Ratnagiri (Bombay); Central Mental Hospital, Yeravda; Mental Hospital, Ahmedabad; Mental Hospital, Dharwar; Mental Hospital, Baroda; Mental Hospital, Nagpur; Government Mental Hospital, Madras; Governn.ent Mental Hospital, Waltair; Government Mental Hospital, Kozhikode; Punjab Mental Hospital, Amritsar; Mental Hospital, Agra; Mental Hospital, Bareilly; Mental Hospital, Banaras; Mental Hospital, Mankunda, Calcutta; Lambini Park Mental Hospital, P.O. Tiljala, 24 Parganas; Bangiyaunmad Ashram, 29-A, Vivekananda Road, Dum Dum; Mental Observation Ward, Bhawanipur, Calcutta; Mental Hospital, Jalna; Mental Hospital, Srinagar; Mental Hospital, Lashkar; Mental Hospital, Bonganga, Indore; Mental Hospital, Bangalore; Mental Hospital, Jaipur; Mental Hospital, Jodhpur; Mental Hospital, Udaipur; Mental Hospital, Bhavnagar; Mental Hospital, Trivandrum; Mental Hospital, Trichur.

The Hospital for Mental Diseases, Ranchi which was under the administrative control of a Board of Trustees was taken over by the Government of India, with effect from the 1st June, 1954 with a view to reorganising it and making it a model centre for treatment and training in Psychiatry.

The Government of India, in collaboration with the Government of Mysore, have established an All-India Institute of Mental Health at Bangalore in association with the Mental Hospital there, under the short term proposal made by Professor Mayer-Gross, W.H.O. Consultant in Psychiatry, who was assigned to the Government of Mysore for a short period. The Institute is managed by a Governing Body. The chief object of the Institute is to make provision for and to promote post-graduate and special studies and research in mental health.

The courses for the post-graduate diploma in Psychological Medicine (D.P.M.) and Medical (Clinical) Psychology were started on 3rd January 1955. A post-graduate course in Psychiatric Nursing was also started in 1956 January.

Increase of mental health activity in India is envisaged under the Second Five-Year Plan. The improvement and development of institutional facilities by State Governments by opening new hospitals and psychiatric clinics, the training programme already started or to be started by the Government of India at the All-India Institute of Mental Health for Psychiatrists, Psychiatric Nurses, Psychologists and ancillary personnel, the establishment of Child Guidance Clinics and homes for incurables will bring the problem of mental ill-health in the country under control within the next decade.

PUBLIC HEALTH MEASURES

There were 725 health units in the community development areas at the end of the First Plan.

During the Second Plan it is proposed to establish over 3,000 health units.

State Governments also propose to convert 131 existing dispensaries into primary health units and to set up a number of secondary health units.

The Second Plan provides about Rs. 23 crores for this programme.

Forty-four dental clinics have been sanctioned (Oct. 1957) for establishment in district hospitals in twelve States. In the Plan period it is proposed to have 350 dental clinics. There is a provision of Rs. 40 lakhs for this.

There is medical coverage for industrial labour through the Employees' State Insurance scheme (See under 'Labour' for details).

By the end of 1956 over 10 lakh persons had been covered.

All Central Government employees and their families stationed in Delhi enjoy medical facilities both domiciliary and institutional. The scheme has been in force since July 1954. The number of employees so covered in 1957 was about 88,000 and the total number of beneficiaries 4,03,765. The total expenditure on this was Rs. 35 lakhs in 1956-57, the contribution of employees ranging from 50 nP. to Rs. 12.

Laboratory Services : The Centre had allocated Rs. 198 lakhs as its share for the development of the public health laboratory services in combination with State Governments, which would be contributing the balance of Rs. 144 lakhs.

Thus, 15 principal and 122 Regional laboratories will come into existence, serving both, urban and rural areas. They will be diagnostic laboratories in respect mainly of bacteriological specimen, including water analysis and ordinary type of chemical examination of biological materials and an analysis of food under the Food Adulteration Act 1954.

The allocations of principal and regional laboratories State-wise are as follows : Orissa : 1,3 ; Andhra : 1,1 , Rajasthan :—,21 ; U.P. :—, 15 ; Punjab : 1,— ; M.P. : 1.5 ; West Bengal : 1,14 ; Kerala :—,1 ; Bihar : 1,16 ; Madras : —, 4 ; Kashmir :—,2.

WATER SUPPLY

Protected water supply is one of the most important factors in sanitation.

At the beginning of the First Five-Year Plan 128 towns with a population each of exceeding 60,000, 60 towns with population each between 30,000 and 50,000, and 210 towns with population each below 30,000 had protected water-supply.

In the First Five-Year Plan Rs. 30 crores were provided in plans for the States for water-supply and sanitation projects. This amount was divided into Rs. 14 crores and Rs 16 crores for rural and urban areas.

Upto March 1956, 196 urban water supply schemes and 58 Drainage schemes were approved for execution in 17 States and the expenditure incurred was Rs. 8·3 crores. 134 schemes for rural areas were approved in 19 States costing Rs. 2·8 crores.

This programme was assisted to the extent of Rs. 2·5 million in equipment and material under the United States Technical Co-operation Mission programme.

The following sums have been paid to the various States for rural and urban schemes under the National Water Supply and Sanitation Scheme in 1956 and 1957 :—

State	Schemes	
	Rural	Urban
	In lakhs of Rupees	
Delhi	0·25	123·96
Madras	..	30·00
Mysore	..	17·00
Kerala	2·88	5·00
Andhra Pradesh ..	10·00	90·00
	10·50	..
Orissa	8·00	25·00
West Bengal	..	18·58
Rajasthan	2·85	45·00
Uttar Pradesh	3·00	..
Assam	..	14·50
M.P.	9·64	..
Bombay	5·00	..
Jammu and Kashmir ..	4·93	..
Himachal Pradesh ..		

Second Plan : Central allotment for urban schemes : Rs. 40 crores. States' allotment: Rs. 23 crores for urban and Rs. 28 crores for rural.

INDIGENOUS SYSTEMS

General policy is based on the reports of the Chopra Committee set up in December 1946 (to enquire into the facilities available for training and research and need for control), and

the Pandit Committee set up in 1949 to work out the details concerning research in the ayurvedic and unani systems.

A Homoeopathic Enquiry Committee was also set up in 1948 November to recommend measures for the control and development of homoeopathy.

The general policy of the Government is that there should be only one system—the allopathic—and that steps should be taken to eradicate quackery from the indigenous systems and put them on a more scientific basis. It is held that in any reorganised training anatomy, physiology and surgery should be part of the curriculum.

There are about 50 colleges which afford a training in the indigenous systems of medicine and about 8 in homoeopathy.

Research is conducted at the School of Tropical Medicine, Calcutta; Central Drug Research Institute, Lucknow; the Drugs Research Laboratory in Jammu, and the Central Research Institute in Indigenous Systems of Medicine, the Ayurvedic Research Institute under the Thakurdatta Sharma Dharmarth Trust. There is also a Board in Bombay to promote research.

The Union Ministry of Health has published what is the first complete national pharmacopoeia of India. It gives information about the standards to be prescribed and tests to be used to establish the identity and purity of a number of indigenous medicinal preparations.

The Committee appointed by the Government of India to report on the question of establishing uniform standards in respect of education and regulation of practice of vaidyas, hakims and homoeopaths has published its report.

Among the recommendations are: five and a half years course of study inclusive of one year's internship with at least three months training in the rural areas; all members of the medical profession whatever the system they practise should enjoy an equal status; the existing institutions should be up-graded; new text-books should be written; post-graduate study and research facilities should be available; there should be separate Directorates for ayurvedic and unani, and for the homoeopathic systems.

Under the First Plan the States had an allotment of Rs. 95·23 lakhs to provide training and Rs. 1·06 crores for hospitals and dispensaries.

Under the Second Five-Year Plan, the States have provided Rs. 554·59 lakhs in their revised Plans. Rs. 62·2 lakhs have been provided for opening of new colleges of indigenous medicine and attached hospitals.

Out of this, Rs. 15·6 lakhs are provided by U.P. for opening one Homoeopathic College and attached hospital.

The provision for expansion of existing colleges and attached hospitals is Rs. 181·51 lakhs and Rs. 6·93 lakhs respectively. Under 'Miscellaneous Schemes' the provision for research and training is Rs. 14·17 lakhs and Rs. 6·925 lakhs respectively.

In addition to this assistance, the Centre has provided Rs. 100 lakhs for upgrading of colleges of indigenous medicine and research.

DRUGS

A Drugs Act—passed in 1940 and applied in 1947—is now in force in the whole country except Kashmir, though in Rajasthan and Mysore no machinery has yet been set up to enforce the provisions of the Act.

The Act regulates the import into, and the manufacture and distribution of drugs.

The control over import is exercised at the ports of Bombay, Calcutta, Cochin and Madras by an organization under the Drugs Controller.

There is a Central Drugs Laboratory in Calcutta set up in 1947 under the Drugs Control Act.

A Drugs Technical Advisory Board advises the Central and States Government on technical matters.

A Drugs Consultative Committee advises on how to bring uniformity in the administration of the Act.

The Indian Pharmacopoeia Committee helps to keep the Indian Pharmacopoeia first published in 1955 up-to-date.

A National Formulary Committee is constituted to prepare a list of essential drugs and their formulation.

The Drugs and Magic Remedies (objectionable Advertisements) Act, 1954 is in force to protect people from self-medication from magic remedies advertised in the lay press. The Act is administered by the State Government while the Rules are framed by the Central Government.

The most important step taken in the field of production was the establishment of a Penicillin Factory in the public sector. The Hindustan Antibiotic Ltd., Pimpri, went into trial production in March, 1955. Regular production of Penicillin was commenced from August, 1955. The factory has already achieved a production capacity of 12·5 million mega units of Penicillin.

Hormones

Three firms have been licensed under the Industries (Development and Regulation) Act, 1951 to take up the manufacture of synthetic hormones starting from the imported intermediates. The rate of production is expected to be about 50 kgs. per month for each of the hormones, *viz.* Testosterone, Progesterone, Ethisterone, etc

Vitamins

One firm has been licensed to take up the production of Vitamin B-12. A scheme for the production of some other Vitamins by the same firm is under consideration of the Government.

Antibiotics

Hindustan Antibiotics (Private) Limited, Pimpri have already achieved the production rate of 12·5 million mega units of penicillin and expect to increase its capacity to 24 million mega units. They will also be taking up the production of Streptomycin.

Besides Messrs. Hindustan Antibiotics (Private) Limited, Pimpri, two other firms have been licensed to produce Penicillin.

Chloramphenicol, another antibiotic is being produced by Messrs. Parke Davis and Co., Calcutta and they hope to expand their capacity to 10,000 kgs.

Besides, MAC Laboratories, Bombay and Messrs. Neo-Pharma Limited, Bombay, have also been licensed to take up the manufacture of Chloramphenicol.

Chlortetracyclin is produced by Messrs Atul Products to the extent of 9,600 kgs. They have also taken up the production of 2,400 kgs. of Tetracyclin.

Sulpha Drugs

Messrs. May & Baker, Atul Products, Haffkine Institute and a number of other firms produce sulpha drugs in the country.

All these units combined together have a production capacity of about 5,00,000 kgs. per annum.

Anti-T.B. Drugs

Messrs. Sarabhai Chemicals, Baroda, and several other firms produce INH The estimated total annual production capacity for INH is 12,000 kgs.

PAS is produced by Messrs. Bio-Chemicals and Synthetic Products, Hyderabad with a capacity of 36,320 kgs.

Anti-Malarial Drugs

Chloroquin and Camoquin are being produced in the country on an experimental basis.

Quinine salts are being manufactured by the Government Factories in Madras and Bengal.

D.D.T. & B.H.C.

The production of DDT is being stepped up from 700 tons to 1,400 tons at Delhi.

A second DDT factory at Alwaye in Kerala is expected to produce 1,400 tons per annum. The present capacity of Benzene Hexachloride is 2,500 tons per annum.

Anti-Leprosy Drugs

Three firms have been licensed under the Industries (Development and Regulation) Act, 1951 to produce anti-leprosy drugs, *viz.* DDS and its derivative (sulphone) with a capacity of 7,500 kgs. per annum.

FAMILY PLANNING

The total expenditure during the First Five-Year Plan comes to Rs. 15·82 lakhs, *i e* about 20 per cent of the total provision, Rs. 65 lakhs.

The allotment during the Second Plan is Rs. 497 lakhs and the total budget provision during 1956-57 and 1957-58 is Rs. 55 lakhs.

A break-up of these figures is given below.

Upto 1957 the number of Family Clinics established was 464. In 1958-59 it is proposed to open 266 clinics.

Provision has been made in the Second Plan for opening 2,000 rural and 500 urban clinics as a phased programme.

The sum allotted for research under the Second Plan is Rs. 50 lakhs.

To give an impetus to the whole movement a Family Planning Board was formed on 1st September 1956, with a Standing Committee.

A Contraceptive Testing Centre was opened in the Indian Cancer Research Centre, Bombay and a number of contraceptives were tested for finding out their suitability.

During the First Plan efforts were directed to the building up of an active public opinion in favour of family planning and promotion of family planning advice and service on the basis of the existing knowledge. Demographic as well as medical and biological studies were also carried out.

An education and propaganda scheme was initiated in 1955-56. A number of posters and leaflets were printed and distributed free to the States, local bodies and voluntary organisations conducting family planning clinics.

Nine films about planning, biology of reproduction and child welfare were procured and shown to the public.

Twenty research programmes relating to demographic, medical and biological studies were supported at a cost of about Rs. 6·20 lakhs.

A Demographic and Research Centre was started in Bombay in 1956. This is expected to develop into a regional centre in collaboration with U.N.

Two more centres one at Delhi and the other at Calcutta have been sanctioned A third was to be opened in a place in the south.

Family Planning Officers were to be appointed at State headquarters.

Family Planning Boards were to be set up in each State.

Upto Oct. 1957, Family Planning Officers had been appointed in the States of Andhra, Bihar, Madras, Punjab, Rajasthan and Delhi.

Family Planning Boards had been constituted in Andhra, Assam, Bihar, Madras and West Bengal.

The number of clinics approved and sanctioned during 1956-58 upto 30th September, 1957 are shown in the table below.

	Approved		Sanctioned	
	Rural	Urban	Rural	Urban
State Governments	164	45	10	11
Local Bodies	..	20	..	14
Voluntary Organisations	23	48	21	44
Total	187	113	31	69

The pattern of financial assistance by the Centre would be roughly as follows: 100 per cent for non-recurring; for recurring the quota would decrease rapidly year by year from 86 per cent to 20 per cent in the case of States and local bodies and more gradually from 100 per cent to 80 per cent in the case of voluntary bodies.

To provide staff for the clinics a total provision of Rs. 15·75 lakhs has been made in the Second Plan.

Before the establishment of a Training and Research Centre in Bombay (started September 1957) short term training courses were conducted in Delhi, Nagpur, Jamnagar, Junagadh, Rajkot, Amravati and Calcutta.

64 Doctors, and 97 Health Visitors and Social Workers were trained at these courses.

The first regular training course of 2 months duration, commenced on 2nd of September 1957 at the Bombay Training Centre, and 29 trainees including 20 doctors, 4 social workers and 5 health visitors were admitted to the course.

3 Doctors, 4 Nurses and 8 Health Inspectors were trained at the first training course at the Ramanagaram Centre in Aug.-Sept. 1957.

The table shows the breakdown of allocation (in lakhs of Rs.) in the First & Second Plans.

Programme	First Plan Allocation	Expenditure	Second Plan Allocation	1956-57 Budget Provision	1957-58 Budget Provision
Grants for opening of Clinics	30·00	7·99	373·25	12·00	15·05
Training	8·50	0·22	15·75	3·00	2·23
Education	5·00	0·18	50 00	6·00	3·00
Research	18·30	5·34	50 00	6 00	3 56
Central Organisation	3·20	2·09	8 00	3 00	1·16
Total	65 00	15 82	497 00	30 00	25·00

AUXILIARY WORKERS

In order to meet extreme shortage of doctors in the country as a whole and particularly in the rural areas, it was proposed to introduce a new type of Auxiliary Medical and Public Health Worker.

He would not be entrusted with diagnosis and treatment of diseases beyond what is necessary as a part of ordinary first-aid work, and the training should be such as to enable him to assist the health authorities, in as large a measure as possible, in preventive measures including sanitation, health education, etc. The syllabus of training throws more emphasis on the preventive aspects of the training, rather than the curative side.

During training it was proposed to give the trainees free lodging and a stipend of Rs. 50 p.m.

NURSING

At the end of the year 1956 there were 24,724 registered nurses and 28,050 registered midwives, 836 registered health visitors and 393 auxiliary nurse-wives. There were 7,977 registered nurses-dais and dais, but probably the number of trained dais was much larger Separate figures in respect of these nursing personnel for urban and rural areas are not available.

The Health Survey and Development Committee recommended that there should be a ratio of one nurse to 500 of population, and one midwife for every 100 births. On this basis, the total requirements for nurses would be 7,00,000 and 87,500 midwives for the present population.

The Plan targets for 1956 were: Nurses 22,000; Midwives 26,000; Health Visitors 800; *dais* and nurse-*dais* 6,000.

The number of nurses and midwives available in India falls far short of actual requirements. In order to meet the increasing demand for health personnel in connection with the expansion of health programmes under Community Development Projects a scheme for the training of about 6,000 additional auxiliary nurse-midwives has been included in the Second Five-Year Plan at an estimated cost of Rs. 89 lakhs to be shared by the Central and State Governments concerned.

Training in nursing is offered in centres attached to almost all large hospitals. The Nursing Colleges at Delhi and Vellore offer a higher basic course leading to a B.Sc. degree in nursing.

The number of training institutions for nursing personnel and of students under training at the end of 1956 were as follows (The second figure gives the number of trainees):—

Nurses: 209, 7,100; Midwives: 265, 2,768; Health Visitors: 17, 739; Auxiliary Nurse-Midwives: 87, 1,828.

The following post-certificate courses in nursing are at present available:—

Sister Tutors' Course.

Christian Medical College, School of Nursing, Vellore (Madras).

Nursing Administration Course.

(i) Christian Medical College, School of Nursing, Vellore (Madras).

(ii) General Hospital, Madras.

(iii) College of Nursing, New Delhi

Midwife Tutors' Course.

College of Nursing, New Delhi.

Public Health Nursing Course.

All-India Institute of Hygiene and Public Health, Calcutta.

Ward Sisters' Course.

College of Nursing, New Delhi.

Psychiatric Nursing Course.

(i) Mental Hospital, Ranchi.

(ii) All-India Institute of Mental Health, Bangalore.

Tuberculosis Nursing Course.

Tuberculosis Sanatorium, Arogyavaram (Andhra).

The training of Health Visitors is being continued and expanded at the Lady Reading Health School, Delhi under the Central Government, and at 8 other Health Schools in the States. Six more Health Schools have also been established at Allahabad, Bareilly, Rajkot, Indore, Trivandrum and Ranchi, to train another 1,700 Health Visitors under the Second Five-Year Plan.

Health visitors' training centres are now at: Bombay, Calcutta, Delhi, Hyderabad, Madras, Lucknow, Nagpur, Poona, Ludhiana, Amritsar, Trivandrum, Ranchi, Indore, Patna and Vishakapatnam.

Over 1,400 trained lady health visitors will be available during the Second Plan period to man maternity and child welfare centres—one of the most vital needs for the provision of adequate health protection to rural population—under the Community Development Programme.

At present, approximately 400 students are receiving training at eight centres. To double the number of trainees, these centres located in the States of Madras, Uttar Pradesh, Madhya Pradesh, Andhra, Punjab, Delhi and Bombay, were expanded during the First Five-Year Plan with Central assistance.

With the expanded programme, it will be possible to train 720 health visitors in the existing eight schools during the Second Plan period and 380 at the Lady Reading Health School. Besides, it is also proposed to establish six new schools where another 540 health visitors will be trained during the Second Plan period.

FIRST FIVE-YEAR PLAN

The total provision for Health schemes in the First Five-Year Plan was Rs. 140 crores: Rs. 101 crores were provided by the States and Rs. 39 crores by the Centre. During the period 1951-56 expenditure on medical and public health amounted to Rs. 105·46 crores which is about 75 per cent of the planned outlay.

The progress under broad heads of development is given below.

Rs. 30 crores were provided by the States in their plans for water supply and sanitation of which Rs. 14 crores were meant for rural and Rs. 16 crores for urban areas.

For the urban areas 196 water supply and 58 sewage schemes were sanctioned. The total amount of money sanctioned was Rs. 12·90 crores and the money paid was Rs. 8·3 crores. The number of water supply schemes actually taken in hand was 187 and of sewage schemes 42 in March 1956.

In the rural areas 134 schemes were sanctioned. The total amount of money sanctioned was Rs. 5·8 crores, and the money paid Rs. 2·8 crores upto March 1956.

The urban programme has been more successful than rural, but even here some of the schemes were just getting started and the majority only about 40 to 50 per cent complete in March 1956.

MEDICAL EDUCATION

There were at the end of 1956, 44 medical Colleges and the number of admissions into the colleges was 3,858.

There were two medical schools, the Arya Medical School, Ludhiana, and the Radhabai Palnitkar Medical School, Hyderabad

There were seven dental Colleges in India.

The All-India Institute of Medical Sciences was started in 1953-54, for which the Government of New Zealand donated one million pounds It will comprise a Medical College, a Dental College, a Nursing College, a Post-Graduate Teaching Centre and a 650 bedded hospital and rural and urban organisations to provide centres for field work.

Below we give a list of medical Colleges:

The Andhra Medical College, Vishakapatnam.
The Assam Medical College, Dibrugarh.
The B. J. Medical College, Ahmedabad.
The B. J. Medical College, Poona.
The Baroda Medical College, Baroda.
The Christian Medical College, Ludhiana.
The Christian Medical College, Vellore.
The Darbhanga Medical College, Laheriasarai (Bihar).
The Gajra Raja Medical College, Gwalior.
The Grant Medical College, Bombay.
The Guntur Medical College, Guntur.
Karnatak Medical College, Hubli.
The Kasturba Medical College, Manipal (South Kanara Dt., Mysore State).
The Lady Hardinge Medical College for Women, New Delhi.
The Madras Medical College, Madras.
The Mahatma Gandhi Memorial Medical College, Indore.
The Medical College, Kanpur.
The Medical College, Ranchi.
The Amritsar Medical College, Amritsar.
The Calcutta Medical College, Calcutta.
The Medical College, Mysore.
The Nagpur Medical College, Nagpur.
The Government Medical College, Patiala.
The Trivandrum Medical College, Trivandrum.
The National Medical Institute, Calcutta.
The Nilratan Sarkar Medical College, Calcutta.
The Osmania Medical College, Hyderabad.
The Prince of Wales Medical College, Patna.

The R. G. Kar Medical College, Calcutta.
The Medical College, Agra.
The Sawai Man Singh Medical College, Jaipur.
The Seth G. S. Medical College, Bombay.
The Sriram Chandra Bhang Medical College, Cuttack.
The Stanley Medical College, Madras.
The Topiwala National Medical College, Bombay.
The Medical College, Bangalore.
The Gandhi Medical College, Bhopal.
The Jabalpur Medical College, Jabalpur.
The Jamnagar Medical College, Jamnagar.
The King George's Medical College, Lucknow.
The Madurai Medical College, Madurai.
All-India Institute of Medical Sciences, Safdarjang, New Delhi.
Aurangabad Medical College, Aurangabad (Bombay).
Medical College, Kurnool (Andhra).
Medical College, Pondicherry.

Medical Schools

The Arya Medical School, Ludhiana.
The University Medical School, Bangalore.

Dental Colleges

The Calcutta Dental College, Calcutta.
The Dental College, Amritsar.
The King George's Medical College (Dental Wing), Lucknow.
The Madras Medical College (Dental Wing), Madras.
The Nair Hospital Dental College, Bombay.
The Sir Currimbhoy Ebrahim Memorial Hospital and Dental College, Bombay.
Government Medical College (Dental Wing), Patiala.

Others

The All-India Institute of Hygiene and Public Health, Calcutta.
The College of Nursing, Delhi.
The Malaria Institute of India, Delhi.
The School of Tropical Medicine, Calcutta.
Sri Vallabhbhai Patel Chest Institute, Delhi.
All-India Institute of Mental Health, Bangalore.

AYURVEDIC AND UNANI INSTITUTIONS

Below we give a list of Ayurvedic Institutions (is not an exhaustive list):

Ayurvedic College, Gauhati, Assam.
Gopobandhu Ayurvedic Institute, Puri, Orissa.
The Asafia Tibbia College, Bhopal.
Shri Narain Prasad Awasthi Ayurvedic School, Raipur (M.P.).
Ayurvedic Vidyalaya, Jamnagar, Saurashtra.
Ayurvedic Medical School, Bhawnagar, Saurashtra.
Govt. Ayurvedic College, Gwalior (M.P.).
Shri Raj Kumar Singh Ayurvedic College, Indore (M.P.).
Nizams Tibbi College, Hyderabad.
Govt. Ayurvedic College, Hyderabad.
Tibbi College, Delhi.
Govt. Aided S.Y.N.A. Ayurvedic College, Bhagalpur, Bihar.
Govt. Ayurvedic College, Patna.
Govt. Tibbi College, Patna.
Ayodhya Shiva Kumari Ayurvedic College, Bogusarai, Monghyr, Bihar.
Ayurvedic Vibhag Vidyalaya, Patiala.
Shri Dhanwantri College, Sangrur, Punjab.
Shri Ayurved Vidyalaya, Barnala, Punjab.
Shri Venkateswara Ayurvedic Kalasala, Vijayavada, Krishna District, Andhra Pradesh.
Shri Ram Mohan Ayurvedic College, Guntur.
Aryavaidyapatasala, Kottakkal, Kerala.
The Venkataramana Dy & Ayurvedic College, Mylapore, Madras.
College of Indigenous Medicine, Kilpauk, Madras.
Madhava Memorial Ayurvedic College, Cannanore.
Keraleeya Ayurvedic Mahapatasala, Shoranur.
Akhila Travancore Sidhamruth, Kalloore & Siddha Medical Training College.
Govt. Ayurvedic College, Trivandrum.
J. S. Maha Gujarat Ayurvedic Medical College, Nadiad.
Shri Ochhavlal N. Ayurvedic Mahavidyalaya, Surat.
Ayurveda Mahavidyalaya, Poona.
Aryangla Vaidyak Mahavidyalaya, Satara City.
Ayurveda Vidyalaya, Jamnagar.
R. A. Podar Medical College (Ayurvedic), Worli, Bombay.
Ayurved Mahavidyalaya, Ahmednagar.
Jamini Bhushan Ashtanga Ayurved Vidyalaya (College), Calcutta.
Vishvanath Ayurvedic Mahavidyalaya (College), Calcutta.
Shyamadar Vaidya Shastrapith (College), Calcutta.
Govt. Ayurvedic College, Jaipur.
Maharana Ayurvedic College, Udayapur.
Rajputana Ayurvedic & Unani Tibbi College, Jaipur.
Dayanand Ayurvedic College, Amritsar.
Govt. Ayurvedic & Unani College, Mysore.
Ayurvedic College, Hindu University, Banaras.
Ayurvedic College, Lucknow University, Lucknow.
Ayurvedic College, Gurukul University, Kangri.
Ayurvedic College, Gurukul Vrindaban, Distt. Mathura (U.P.).
Budelkhand Ayurvedic College & University, Jhansi.
Rishikul Ayurvedic College, Hardwar.
Lakit Hari Ayurvedic College, Pilibhit.
Kanya Kubja Ayurvedic College, Lucknow.
Ram Sahai Ayurvedic College, Meerut.
Lekh Ram Ayurvedic College, Dorli (Distt. Meerut), (U.P.).
Ayurvedic College, Dehra Dun.
Arjuna Ayurveda Vidyalaya, Banaras.
Baldeo Ayurvedic College, Baragaon, Banaras.
Ayurvedic College, Farrukhabad.
Narendra Vidya Mandir, Kirooli (Distt. Agra).
Moolchand Rastogi Ayurvedic College, Lucknow.
Uttra Khand Vidyapith Vidyalaya, Guptakashi (Distt. Garhwal).
Tibbia College, M.U., Aligarh.
Takmil-ut-Tib College, Lucknow.
Unani Medical College, Himmat Ganj, Allahabad.
Tibbia College, Saharanpur.
Darshanand Ayurvedic College, Banaras.

SPECIAL TRAINING

Post-graduate medical education facilities are now available at the following institutions:

1. Osmania Medical College, Hyderabad—M.D.; M.S.; D.G.O.; D.O.; Dip. Anaesthesia.

2. Grant Medical College, Bombay—M.D. (medicine, pathology, midwifery, gynaecology, pediatrics, T.B., pharmacology); M.S. (gen. surgery, ophthalmology, E.N.T., orthopaedics); D.P.H.; D.M.R.E.; D.P.M.; D.A.; D.V.D.; M.Sc. (biochemistry); M.Sc. (microbiology); M.Sc. (medical); Ph.D. (Biochemistry, Microbiology); M.Sc. (Med.); Ph.D. (Med.).

3. College of Physicians and Surgeons, Bombay—D.O.M.S.; D.A.; D.D.V.; D.P.B.; D.G.O.; F.C.P.S.; D.P.M.; D.C.H.; D.O.R.L.; D. Ortho.

4. Topiwala National Medical College, Bombay—M.D. (Medicine, pathology, bacteriology, obstetrics, gynaecology, pediatrics); M.S. (surgery); B.Sc. (medical); D.A.; D.P.M.; Also diplomas of the College of Physicians and Surgeons.

5. B. J. Medical College, Poona—M.D. (medicine); M.D. (midwifery, gynaecology); M.D. (pathology); M.D. (pharmacology); M.S. (surgery). Also diploma courses of the College of Physicians and Surgeons.

6. B. J. Medical College, Ahmedabad—M.D. (medicine); M.S.; M.C.P.S.; B.Sc.; M.Sc. (Medical); D.P.B.; D.Ana.; D.D.V.; D.O.M.S.; D.G.O.; D.C.H.; D.O.R.L.; F.C.P.S.; F.R.C.S.

7. Medical College, Nagpur—M.D. (medicine); M.S. (surgery); M.O. (obstetrics, gynaecology); M.Sc. (medical, anatomy, pharmacology, physiology, pathology, bacteriology); M.B.; M.O.; D.O.; Ph.D.

8. Stanley Medical College, Madras—M.D. (gen. medicine); M.S. (gen. surgery); M.Sc. (anatomy, physiology, pharmacology); Ph.D. (anatomy); D.G.O.

9. Christian Medical College, Vellore (Madras State)—M.D. (medicine, pathology); M.Sc. (gen. surgery).

10. Seth G.S. Medical College, Bombay—M.D.; M.S.; D.A.; D.M.R.E.; D.V.D.; M.Sc.; Ph.D.; D.P.H.

11. Medical College, Amritsar - M.S.; D.T.D.; D.O.M.S.; B.Pharm.

12. S. M. S. Medical College, Jaipur—M.D. (medical, pathology, bacteriology); M.S. (surgery, ophthalmology); M.Sc. (anatomy, physiology, pharmacology); Ph.D.; D.Sc.

13. All-India Institute of Hygiene and Public Health, Calcutta—D.P.H., L.P.H., D.M.C.W. (Dip. in Maternity and Child Welfare); certificate in Maternal and Child Health; Dip. Diet; D.I.H.; Dip. in Nutrition; D.Sc. (Public Health); D.N.; M.E. (P.H.); Certificate courses in Public Health Nursing, Biometry Technique; Nutrition, Lab. technique, Industrial hygiene, etc.

14. Calcutta School of Tropical Medicine, Calcutta—D.T.M. & H.; L.T.M.

15. R. G. Kar Medical College, Calcutta—D.G.O., D.O.M.S.

16. Medical College, Agra—M.D.; M.S.; D.C.H.; D.O.M.S.

17. Medical College, Lucknow—M.D. (medical, pathology, physics, forensic medicine, social med. and pub. health, pharmacology, tuberculosis, radiology); M.S. (surgical, ophthalmology, obstetrics, gynaecology, anatomy, orthomology, surgical, E.N.T.); D.M.R.E. (medical, radiology and electricity); D.L.O. (laryngology, otology); D.T.D. (tuberculosis); D.O.M.S. (ophthalmic, medicine and surgical); D.G.O. (gynaecology, obstetrics); D.C.P. (clinical pathology); D. Orth. Sur. (orthopaedic surgery).

18. Institute of Ophthalmology, Aligarh Muslim University, Aligarh—D.O.

19. Lady Hardinge Medical College, New Delhi—M.D. (medicine, pathology, obstetrics, gynaecology); M.S.; M.Sc.

20. Vallabhbhai Patel Chest Institute, Delhi—D.T.D.

21. Medical College, Baroda—M.S.; M.D.; D.Ped.; D.O.; D.V. & D.; D.A.; D.M.R.&.E.; T.D.D.; D.L.O.

22. All-India Institute of Mental Health, Bangalore—D.P.M.; D.M.P.; D.P.N.

23. M.G.M. Medical College, Indore—M.D.; M.S.; D.C.H.; T.B.

24. G.R. Medical College, Gwalior—M.D.; M.S.; D.M.R.E.

25. Madras Medical College, Madras—Dip. in Radiology, in Clinical Lab. Science; L.P.H.; Dip. in Maternity and Child Welfare.

26. Barnard Inst. of Radiology, General Hospital, Madras—D.M.R.; Dark Room Technique (Certificate); T.D.D.

27. Medical College, Calcutta—T.D.D.; D.G.O.; D.O.M.S.

28. National Medical Institute, Calcutta—D.G.O.; D.O.M.S.

29. P.W. Medical College, Patna—M.S.; M.D.; D.T.D.; D.C.H.; D.O.; D.L.O.; D.A.; D.C.P.

Training in nursing is offered, as already mentioned, in almost all hospitals. The Nursing Colleges at Delhi and Vellore offer higher training equivalent to the B.Sc. standard.

Health visitors are trained as mentioned in Bombay, Calcutta, Delhi, Hyderabad, Madras, Lucknow, Nagpur, Poona, Ludhiana, Amritsar, Vishakapatnam, Indore, Patna, Ranchi, Trivandrum.

Courses in malaria are conducted at the Malaria Institute of India.

Pharmacy

Facilities for training in pharmacy are being developed or improved in the following institutions:—

Department of Pharmaceutics, Andhra University; Department of Pharmacy, Saugor University; Department of Pharmacy, Banaras Hindu University; Department of Pharmacy, Punjab University; Department of Pharmacy, Medical College, Madras; Department of Pharmacy, Birla College of Science, Pilani; L. M. College of Pharmacy, Ahmedabad; Department of Chemical Technology, Bombay University.

The total cost of the scheme for the above institutions is of the order of non-recurring Rs. 13·5 lakhs and recurring Rs. 1·73 lakhs.

The Central Government or the University Grants Commission have agreed to provide about Rs. 9·81 lakhs of the non-recurring cost and Rs. 70,000 of the recurring cost.

When the scheme is fully implemented facilities will be available for an annual admission of about 200 candidates for a three-year degree course in pharmacy.

The All-India Council for Technical Education has recommended that efforts should be made for developing at least one centre in each major State for training in pharmacy. Accordingly those States which do not have such training facilities at present have been addressed by the Central Government regarding the setting up of necessary centres.

The All-India Council is also examining the question of developing facilities for training in pharmaceutics technology in certain selected institutions which are conducting courses in chemical engineering and chemical technology.

SOCIAL WELFARE IN INDIA

THE period under British rule (1800-1947) witnessed a destruction of the older social structure in India. In the newer structure that emerged a number of reforms and institutions were introduced by bodies like the Bramho Samaj (associated with the name of Raja Ram Mohan Roy), the Prarthana Samaj, the Deccan Education Society and the All-India Social Reform Association (Justice M. G. Ranade), the Ramkrishna Mission (Swami Vivekananda), the Servants of India Society (G. K. Gokhale) and the Arya Samaj (Dayanand Saraswati). Though these organisations were in the nature of religious orders, they took it as a part of their faith to serve the needy and the suffering. The Arya Samaj and the Ramkrishna Mission sponsored social reforms, established orphanages, widows' homes, free dispensaries and relief centres in periods of emergency. The Servants of India Society is especially notable for its ramifications in the fields of labour, tribal welfare, youth welfare and emergency and relief work. An impetus to women's welfare was given by D. K. Karve's Women's University and G. K. Devadhar's Seva Sadan in Poona

During this period pioneering work in many neglected fields of service, *e.g.* foundling homes, leper asylums and institutions for the maimed and the handicapped, was undertaken by Christian missionaries in the country.

By 1920 Mahatma Gandhi's contribution began to gain recognition throughout the country. He provided for a number of constructive social welfare programmes through organisations like the Harijan Sewak Sangh, All-India Village Industries Association, Charkha Sangh, the Hindustani Nai Talimi Sangh, Goseva Sangh, and the Kasturba Gandhi National Memorial Trust, etc. His constructive programme also included dignity of manual labour and labour welfare, prohibition of alcohol, drugs and gambling, Tribal welfare and leprosy relief.

The late '30s saw the formation of the first Popular Ministries in eleven provinces in India. During the same period professional social work began to be recognised with the establishment of the Tata Institute of Social Sciences in 1936.

The new profession generally covers the following fields of social work: Community Welfare Services; Family, Child and Youth Welfare Service; Public Welfare Administration; Social Security Services; Services for the maladjusted and handicapped groups; Social Defence and Correctional Administration; Services for Emergency Relief and Rehabilitation; Social Legislation and Social Action; Social Research; Training in Social Work; Tribal Welfare and Rural Welfare.

The establishment of the Indian Conference of Social Work at a meeting of over 450 social workers assembled in Bombay in November 1947 marks a significant development in the field of social work in India. The Conference undertakes and promotes the study of social problems and endeavours to foster co-operation, collaboration and co-ordination amongst social service agencies in India and abroad. It has held sessions in Bombay (1947), Madras (1948), Delhi (1949), Jamshedpur (1950), Calcutta (1951), Hyderabad (1953), Lucknow (1954), Bangalore (1955), Jaipur (1956) and Bombay (1957).

In 1958 again the I.C.S.W. was planning to hold its third national seminar, the subject being urban community development.

In 1952, it enabled the International Conference of Social Work to hold its Sixth Session at Madras— the first International Conference on Asian soil.

The aspirations of the Indian people towards State responsibility for social welfare are reflected in Part IV of the Constitution which lays down the "Directive Principles of State Policy", as follows:—

"The State shall strive to promote the welfare of the people by securing and protecting as effectively as it may, a social order in which justice, social, economic, and political, shall inform all the institutions of the national life."

SOCIAL LEGISLATION

Social legislation on an all-India scale dates back to 1843 when the first law abolishing slavery was passed. The earlier laws sought to reform the evil social practices existing at the time, practices such as *Sati*, infanticide, and child marriage. Later, social legislation began to assume a more positive and constructive role. Laws for better working conditions in factories, laws providing maternity benefits, for the abolition of traffic in women and children, and laws for the protection and care of destitute and delinquent children have all received attention in the first half of this century.

Since 1947 there has been an unprecedented increase in social legislation both at the national and the State levels.

Some of the laws which are applicable to the entire country are the Industrial Disputes Act, 1947; The Factories Act, 1948; The Coal Mines Provident Fund and Bonus Schemes Act, 1948; Minimum Wages Act, 1948; Employees State Insurance Act, 1948; The Plantation Labour Act, 1951; The Mines Act and the Provident Fund Act, 1952.

Two Acts were passed to remove caste discrimination, namely, the Caste Disabilities Removal Act XXI of 1950 and the Untouchability Offences Act XXII of 1955.

Three laws introducing changes in Hindu Law governing Marriage and Succession have been passed since 1954, namely, The Special Marriage Act 43 of 1954; The Hindu Marriage Act XXV of 1955 and the Hindu Succession Act XXX of 1956. (See also 'Laws of 1955'.)

Some of the measures in force against immoral traffic are:

The Bombay Prevention of Prostitution Act (Act XI of 1923); The U.P. Naik Girls Protection Act (Act VII of 1929); The U.P. Minor Girls' Protection Act (Act VIII of 1929); The Madras Suppression of Immoral Traffic Act (Act V of 1930); The Bengal Suppression of Immoral Traffic Act (Act VI of 1933); The U.P. Suppression of Immoral Traffic Act (Act VIII of 1933); The Mysore Suppression of Immoral Traffic Act (Act VIII of 1936); The Bombay Devadasi Protection Act (Act X of 1934); The Punjab Suppression of Immoral Traffic Act (Act IV of 1935); The Bihar Suppression of Immoral Traffic Act (Act III of 1948); The Travancore Cochin Suppression of Immoral Traffic Act (Act IV of 1952); The Saurashtra Prevention of Prostitution Act (Act VIII of 1952); The Hyderabad Suppression of Immoral Traffic Act (Act XLIX of 1952); The Madras Devadasi (Prevention of Dedication) Act (Act XXXI of 1947); The Madhya Pradesh Suppression of Immoral Traffic Act (Act III of 1953); The Ajmer Prevention of Prostitution Act (Act I of 1953); The Patiala Suppression of Immoral Traffic Act (Act II of 2004 Bikrami); The Suppression of Immoral Traffic Act (Jammu and Kashmir Act of 1954).

The Madras Act is also in force in Andhra and the Bengal Act in Delhi.

Among institutions for uplifting fallen women are the Stri Sadans and the Good Shepperd Home in Madras, the Shridhanand Mahilashram in Bombay, Crispin's Home in Poona, The Salvation Army Home, The Fendall Home, All-Bengal Women's Union Home in West Bengal and the Kushalbagh Mission Orphanage at Gorakhpur in U.P.

Some of the 80 Homes and 370 Rescue Shelters in the country attempt the rehabilitation of fallen women. A sum of rupees three crores is allotted to root out traffic in women and girls.

Children's Acts in relation to delinquency are in force in Andhra, Bombay, Kerala, M.P., Madras, Mysore, Punjab, U.P., and West Bengal. The Borstal School Acts are in force in Andhra, Bombay, Kerala, Madras, Mysore, Punjab, U.P. and West Bengal. There are also Reformatory School Acts in most of the States.

There are remand homes (67), reformatory schools (7), borstal schools (8), certified schools (49), and five juvenile jails in the country.

There are many institutions for the relief and rehabilitation of beggars. The number of institutions and capacity in some States for which figures are available are respectively as follows: Bombay: 18, 2000; Kerala: 8; Madras: 7; West Bengal: 5, 1900. There are beggar homes in Delhi, M.P., Mysore and U.P.

There are regulations against begging in the cities of Calcutta, Bombay and Madras, while begging is illegal in some of the municipal areas of M.P., Punjab and U.P.

The Acts in force against begging are: The Bhopal Prevention of Beggary Act, 1917; the Hyderabad Prevention of Beggary Act; the Bengal Vagrancy Act 1943; The Bombay Prevention of Beggary Act 1945; the Madras Prevention of Beggary Act 1945; The Cochin Vagrancy Act 1945; The Mysore Prevention of Beggary Act 1944; The Travancore Prohibition of Begging Act 1945; The Bihar Prevention of Beggary Act 1952.

According to the Constitution of India, social legislation can be formulated and implemented both by the Central and State Governments. Most social subjects are on the concurrent list, *i.e.* they can be legislated upon by the Central or State Governments. These subjects include: marriage and divorce, social security and social insurance, economic and social planning, welfare of labour, charities and charitable institutions, vagrancy and mental deficiency.

Prison Reform Bills and Borstal Institutions are subjects in the State list. An informative volume entitled "Social Legislation", which contains detailed information regarding the laws pertaining to women, children, handicapped groups and social defence was published in 1956 by the Planning Commission of the Government of India.

GOVERNMENT SET-UP

In India, the Central Government does not have a special Ministry or department for social welfare. The Ministries of Health, Education, Labour, Home, Rehabilitation, Agriculture, Community Development and the Office of the Commissioner for Scheduled Castes and Tribes undertake several important social services. The States of Assam, Andhra Pradesh, Bombay, Madhya Pradesh, Punjab, Rajasthan, Uttar Pradesh and West Bengal have Departments of Social Welfare, whereas Madras possesses a Women's Welfare Department.

The expenditure allocated to Social Services in the 1st Five-Year Plan period was 547 crores of rupees out of a total outlay of 2,356 crores, which works out to 23 per cent, whereas in the Second Five-Year Plan, out of a total outlay of 4,800 crores of rupees 946 crores that is 20 per cent has been earmarked for Social Services, including Housing, Rehabilitation, etc.

To the above amount we could also add the provision of 90 crores in the First Plan period for community development and 200 crores in the Second Plan period, both of which work out to four per cent of the total outlay, respectively.

PLAN OUTLAY BY MAJOR HEADS OF DEVELOPMENT

	First Five-Year Plan		Second Five-Year Plan	
	Total Provision (Rs. crores)	Per cent	Total Provision (Rs. crores)	Per cent
(a) Education	164	7	307	6.4
(b) Health (including water supply and sanitation programme)	140	5·9	274	5·7
(c) Labour & Labour Welfare, Welfare of Backward Classes, Scheduled Tribes, Social Welfare	44	1·8	149	3.1
(d) Housing	49	2·1	120	2·5
(e) Rehabilitation	136	5·8	90	1 9
Total	533	22.6	940	19.6

VOLUNTARY SOCIAL WORK

The groups of voluntary social work in India largely fall under the following heads: Administrators; Professional social workers; Missionaries; The Gandhian social workers; and Voluntary social workers belonging to the various private agencies.

Of these the religious believe in the traditional form of charity, the Missionaries in institutionalised social work, the Gandhian in the 14-point constructive programme.

The group of professionally trained social workers is small though most compact. This group consists of some 1,000 alumni and teachers of the following post-graduate schools of social work in India, *viz.*, The Tata Institute of Social Sciences, Devnar, Chembur, Bombay 38; Delhi School of Social Work, 3, University Road, Delhi 8; the Faculty of Social Work of the M. S. University of Baroda, Camp Road, Baroda; Shri Kashi Vidyapeeth, Banaras, Chavni, Banaras 2; Madras School of Social Work, 1, Jarretts Gardens (upper flat), 23-24, Casa Major Road, Egmore, Madras 8; The All India Institute of Social Welfare and Business Management, College Square West, Calcutta 7. The J. K. Institute of Sociology and Human Relations, Lucknow University, Lucknow also imparts training in social work, while the Patna University has a department to train social workers for industrial welfare work.

Voluntary Social Service Agencies operating on an All-India basis are mentioned below:—

Child Welfare

Balkan-ji-Bari (6-A, Cooperage, Bombay 1); Society for the Protection of Children in India (2-B, Camac Street, Calcutta); Indian Council for Child Welfare, Room 14-15, Block 'A', 'B' Barracks, Queensway, New Delhi; Indian Council for Child Education (Sumanas, 39, Edward Elliots Road, Madras 4).

Youth Welfare

Y.M.C.A. (5, Russel Street, Calcutta 16); Y.W.C.A. (Parliament Road, New Delhi); Bharat Scouts and Guides Association (Regal Building, Parliament Street, New Delhi).

Women's and Family Welfare

All India Women's Conference (6, Bhagwandas Road, New Delhi); Family Planning Association of India (Metropolitan House, Dadabhoy Naoroji Road, Bombay 1); National Council of Women in India (C Block, Western House, Curzon Road, New Delhi); Kasturba Gandhi National Memorial Trust (Kasturba Gram, P.O. Indore, Madhya Pradesh).

Health

Tuberculosis Association of India (20, Red Cross Road, New Delhi 2); Indian Red Cross Society (20, Red Cross Road, New Delhi 2); All India Cancer Prevention Society (Tata Memorial Hospital, Parel, Bombay 12); Hind Kusht Niwaran Sangh (Red Cross Road, New Delhi); Akhil Bharat Sharirik Sikshan Maha-Mandal (Tilak Road, Nagpur, Bombay State).

Rehabilitation of the Handicapped

Convention of the Teachers of the Deaf in India (50, Bondel Road, Ballygunj, Calcutta); All India Light House for the Blind (89, Elliot Road, Calcutta); National Association for the Blind (Victoria Memorial Blind School, Tardeo, Bombay 7); All India Blind Relief Society (11-F, Rajpatnagar, New Delhi).

Rural Welfare

Sarva Sewa Sangh (Maganwadi, Wardha, Bombay State); India Village Service (I.V.S. House, Marhera, Dist. Etah, U.P.).

General Social Welfare

Servants of India Society (Poona 4); Ramkrishna Mission (Belur, Dist. Howrah); Gandhi Memorial Fund (5, Mansingh Road, New Delhi); Salvation Army (Moreland Road, Bombay 8); Friends' Service Unit (1, Upperwood Street, Calcutta 16); All India Seva Samiti (Seva Samiti Building, Allahabad); Indian Co-operative Union Ltd. (American Barracks, Queensway, New Delhi).

Rural Women's Welfare

Kasturba Gandhi National Memorial Trust (Kasturbagram, Indore, Madhya Pradesh).

Relief and Rehabilitation

United Council of Relief and Welfare (Rashtrapati Bhavan, New Delhi).

Social Education

Indian Adult Education Society (30, Faiz Bazar, Delhi); Nai Talimi Sangh (Wardha, Bombay); Jamia Millia (Okhla, Delhi).

Welfare of Under-Privileged Groups

Harijan Sewak Sangh (Kingsway, Delhi); Bhartiya Adimjati Sevak Sangh (Kingsway, Delhi).

Social Defence

All India Crime Prevention Society (Behari Niwas, Kanpur, U.P.): Association for Moral and Social Hygiene in India (Room No. 211, 'P' Block, Raisina Road, New Delhi).

Co-ordination of Social Welfare

The national organization for the co-ordination of all welfare services is the Indian Conference of Social Work located at 6/A, Cooperage, Bombay 1.

There is also a South-East Asia Regional Office of the International Conference of Social Work which has been established in conjunction with the Indian Conference of Social Work in Bombay.

International Welfare Agencies in India

The following are some of the International agencies and organisations working in the country: International Conference of Social Work (South-East Asia Regional Office (6/A, Cooperage, Bombay-1); Ford Foundation (32, Ferozshah Road, New Delhi); World Health Organisation (S.E.A. Office, Patiala House, Hardinge Avenue, New Delhi); Rockefeller Foundation (Room No. 16, Indian Red Cross Society, Red Cross Road, New Delhi); International Labour Organisation, Indian Branch (Mandi House, New Delhi); International Union for Child Welfare (Consultant for Far East Asia, Rooms Nos. 14 & 15, Block A, Barracks B, Queensway, New Delhi); United Nations International Children's Emergency Fund (Patia'a House, Hardinge Avenue, New Delhi); United Nations Educational, Scientific and Cultural Organisation (Old Mill Road, New Delhi); Food and Agricultural Organisation, UNO.

Bhoodan Movement

Special mention must be made of the Bhoodan Movement initiated by Acharya Vinoba Bhave, one of the ablest disciples of Gandhiji. He is effecting a silent but nevertheless remarkable social revolution within the country by the voluntary gift of land (Bhoodan), wealth (Sampattidan), labour (Shramdan) and life (Jeevandan).

RECENT DEVELOPMENTS

The Hyderabad State Branch (now Andhra) of the Indian Conference of Social Work has established an Institute of Radiology in Hyderabad at a cost of Rs. 10 lakhs.

The Madras State Branch has started a School of Social Work, the only post-graduate institution of its kind in South India, as well as a Juvenile Service Bureau.

The Children's Aid Society, Bombay, has initiated a Juvenile Service Bureau for Bombay City, and through a grant from the Central Social Welfare Board, a Bureau of Delinquency Statistics and Research, which has prepared a detailed Report on this subject.

The Union Ministry of Health has decided to encourage Medical Colleges to employ Medical Social Workers and Occupational Therapy Workers by granting them substantial financial assistance for the purpose.

A significant development in the movement for planned parenthood in India has been the active interest taken by the Municipalities of Bombay, Bangalore and Madras in incorporating family planning services in their welfare programmes. Several large industrial concerns are also working in this direction.

An important conference, at which 73 Indian social workers, social scientists and administrators played an important role, was the 7th Session of the International Conference of Social Work held in Toronto, Canada, in June-July, 1954.

The 3rd annual conference of the All India Council of Labour and Welfare officers was held at Nagpur in December 1955, to discuss various questions connected with labour welfare.

An annual session of the Association for Moral & Social Hygiene was held at Jaipur in January, 1956.

The First National Conference on Child Welfare was held at Delhi in May 1956.

The International Red Cross Society held its XIXth Session in New Delhi in Oct.-Nov. 1957.

The Second National Youth Hostels Conference was held at Nagpur in Oct. 1957.

In May 1956, the Indian Conference of Social Work submitted a Memorandum to the Prime Minister on the creation of a Ministry of Social Welfare at the Centre and Departments of Social Welfare in all the States. The main objective of the Memorandum is to secure the establishment of a single channel for welfare administration.

The Indian Conference has also undertaken a research survey of beggars in Bombay city, which is financed by a grant-in-aid from the Ministry of Education.

The Eighth Session of the International Conference of Social Work was held in Munich, Germany in August, 1956. About 3,000 delegates from 56 countries participated. The main theme for discussion was "The impact of Industrialisation on the family and community". About 25 delegates from India under the leadership of Mrs. Hansa Mehta, President, Indian Conference of Social Work and the Vice-Chancellor, Baroda University attended the Conference.

The Ninth Session is to be held in Tokyo in November 1958. The main theme for discussion would be family planning.

The Prison Reforms Committees in Madras, Orissa and Kerala have published Reports.

On 1st September 1956 a Family Planning Board was set up, by the Union Ministry of Health to direct the family planning programme in the Second Five-Year Plan period. The Board consists of members whose term of office will normally be for five years, under the Chairmanship of the Union Minister for Health.

The Government of India have made a provision of Rs. 497 lakhs (Rs. 400 lakhs at the Centre and 97 lakhs in the States) for family planning work. The Board will advise on various matters and the recommendations of the Board will be implemented by the Ministry of Health.

A Central Training Institute has been set up in Bombay with Dr. Sushila Gore as Director. The Institute began its first two months' course in Sept. 1957. The course which is intended for doctors, health visitors, nurses and medical social workers, imparts training in child welfare, maternity requirements and family planning.

The Government of Madras has also plans for setting up a family planning institute.

On 18th September 1956 the Government of India announced the creation of a new Ministry of Community Development with Mr. S. K. Dey as Minister.

The creation of the new Ministry will involve no major change in the present organisation of the Community Projects Administration, but it will work in full co-operation with the Ministry of Food and Agriculture, and, when necessary, will utilize the resources of that Ministry.

The co-ordinated development programmes under Community Projects and National Extension already cover 123,000 villages and a population of 80 million. It is proposed that the entire country should be served by the National Extension Service during the Second Plan period through the creation of 3,800 additional development blocks of which 1,120 should be converted into community development blocks.

With a provision of Rs. 200 crores community development should become one of the most important activities of Government during the Second Plan period.

CENTRAL SOCIAL WELFARE BOARD

The Central Social Welfare Board was set up in August 1953 as an autonomous body under the general administrative charge of the Union Ministry of Education to promote programmes of social welfare under the First Five-Year Plan. The two main functions of the Board are :—

1. To extend financial assistance to existing voluntary welfare organisations; 2. To sponsor and aid new welfare services in uncovered areas where they are needed.

Budget estimates for 1957-58 : Rs. 2 crores. For 1956-57 : Rs. 1·25 crores.

The Board gave grants totalling Rs. 195·17 lakhs to 4,114 institutions between August, 1953 and August 1957.

It is estimated that at the end of the Second Plan period the number of such institutions will rise to 7,000 and the grants to Rs. 375·12 lakhs. Grants totalling Rs. 79,950 were made available to 59 Harijan institutions.

At the end of the Second Plan period 6,660 centres would receive grants amounting to Rs. 200 lakhs, 1,600 acres of land and a total local contribution of Rs. 104 lakhs.

In fulfilment of its second function of sponsoring and aiding new services, the Board has sponsored the following schemes :—

1. Welfare Extension Projects for women and children in rural areas; 2. Urban Family Welfare projects for women in the low income groups in urban areas; 3. After-care programmes for women rescued from moral danger and for other persons discharged from correctional and non-correctional institutions.

A Welfare Extension Project in the integrated pattern will spread out over an area of 100 villages and will have nearly 17 centres.

The activities in the centres are :—

Balwadis (creches-cum-pre-basic schools), maternity services, craft classes, social education for women and recreational activities for women and children. There are nearly 350 such projects functioning all over the country.

The Board will now be in charge of welfare work for women, children and the physically handicapped in all community development blocks. The new pattern now evolved makes for collaboration between the two agencies—the Board and the Community Development Projects—"for the maximum good of the maximum number in the shortest possible time."

Under this pattern, the target is to run 20,000 centres covering about 1,20,000 villages. The Board has to raise a team of 10,000 honorary women workers who can devote all their time to social welfare work.

If the target of the Board is fully achieved by the end of the Second Plan period 1,550 welfare extension projects will have been started, with 13,250 centres in 1,19,000 villages covering a population of 71·5 million with a total expenditure of Rs. 1,505 lakhs in which the Board's contribution would be Rs. 736 lakhs.

From the beginning of January 1957, eleven Welfare Extension Projects were sanctioned by the Central Social Welfare Board—one in the Punjab, four in West Bengal, five in Bombay and one in Rajasthan bringing another 300 villages in these four States within the ambit of Welfare Extension work for women, children and the handicapped sections.

The Central Social Welfare Board will not hereafter entertain any proposals from State Social Welfare Advisory Boards for sanctioning new projects, except those in an advanced stage of consideration, in view of the scheme for the co-ordination of welfare activities for women and children in the community development blocks and Welfare Extension Projects put into effect from about April 1957.

Of the Urban Family Welfare Projects, there are four of these functioning one each at Delhi, Vijayawada, Hyderabad and Poona. These are really industrial co-operatives for the manufacture of matches. The making of match boxes was selected because of the facilities for distribution of work to women in their homes for six out of the nine processes that go into the making of match boxes. A few women work in the factories also. The capacity of each co-operative is 500.

The Ministry of Commerce and Industry provides trained personnel for running the factories, makes a contribution of Rs. 3 lakhs for each project (part loan, part grant) and also provides marketing facilities.

Under the Second Five-Year Plan, a sum of Rs. three crores had been set apart for grants-in-aid to voluntary welfare organisations. Of these, some grants will be given on an assured basis for a continued period of five years to institutions of good standing and for new effort in undeveloped areas. For smaller organisations, grants will continue to be given on a year to year basis.

The larger term grants covering the period 1956-61 were given to 478 institutions totalling Rs. 87,15,750 upto March 1958.

For Welfare Extension Projects, a provision of Rs. 8·6 crores is made in the Second Plan to provide half the cost of 1,320 projects which will include those already started.

The provision for Family Welfare Industrial Co-operatives would come from the plans of the Ministry of Commerce and Industry.

The Board has a training programme for gram-sevikas and midwives which is entrusted to existing voluntary welfare organisations like the Kasturba Gandhi National Memorial Trust, and to hospitals, etc.

The Board is negotiating with the Union Ministry of Food and Agriculture to train some of its gram-sevikas in their Home Economic Wing centres.

The total number of persons to be trained would be about 6,600 gram-sevikas and about 1,320 midwives. A total provision of Rs. 50 lakhs has been made for the purpose.

Advisory Committees

The Central Social Welfare Board appointed an Advisory Committee under the chairmanship of Mr. M. S. Gore, Principal, Delhi School of Social Work to report on the after-care programmes. The Committee came to the conclusion that the programme of Rehabilitation consists of two phases—institutional and post-institutional or after-care. After-care in its turn has two aspects, namely vocational rehabilitation and social rehabilitation.

The Committee has suggested a total outlay of Rs. 1,77,00,000 for after-care services during the Second Plan period.

The Board also appointed another Advisory Committee under the chairmanship of Mrs. Dhanvanti Rama Rau to study the problem of social and moral hygiene in the country. The Report observes that prostitution is mainly an urban problem and as many as 66·5% of women come from the rural areas in the age group 10 to 29. The causes that lead to prostitution : 55·4% economic stress, 27·7 disharmony or family mal-adjustment, and 6·9 social and religious practices. Figures for kidnapping and seducing were not available.

It is the view of the Committee that vigilance or preventive work is very scanty and the standard of rescue work by voluntary institutions needs to be improved.

As a result of the recommendation of the Advisory Committees, appointed by the Board, a programme of social and moral hygiene and after-care services has been drawn up for the Second Plan. Under these, 80 institutions would be set up in groups of five each. One of the institutions will be for the rehabilitation of women rescued from moral danger. Two institutions will be for persons discharged from correctional institutions and the remaining two, for persons discharged from non-correctional institutions. In addition, there will be a shelter in each district to receive and transmit persons to these after-care centres. Each institution will have a production unit on a co-operative basis attached to it. The capacity of each institution will be a hundred and that of the production unit five hundred. This scheme will also be run by Managing Committees consisting of officials and non-officials. A total provision of Rs. 9·5 crores has been made in the plans of the appropriate Ministries in the Government of India and also in the State plans.

By November 1957 the Board had started 20 homes and 13 shelters with 20 production units having 10,000 beneficiaries. It is estimated that by the end of the Second Plan period this number will rise to 80 homes with 330 shelters, 80 production units and cover 40,000 persons.

The Board also sanctioned a grant to the Bureau of Delinquency, Statistics and Research (Children's Aid Society, Bombay) for the preparation of a comprehensive report on juvenile delinquency and allied problems in India.

THE CO-OPERATIVE MOVEMENT

Note : The States referred to in this article are the old States before the reorganization in November 1956, unless otherwise stated.

THERE were 2,40,395 societies of all types at the end of June 1956 as against 2,19,288 societies at the end of 1945-55, representing an increase of 9·6 per cent as against a rise of 10·4 per cent during 1954-55. In the same period, the membership of primary societies rose from 16·02 million on June 30, 1955 to 17·62 million at the close of June 1956. The total working capital of all types of societies showed an increase from Rs. 390·52 crores as on June 30, 1955 to Rs. 468·82 crores during 1955-56 recording an increase of 20·1 per cent as against 11 per cent during the course of the previous year. The credit structure accounted for Rs. 353·15 crores or nearly 75 per cent of the total working capital.

The total advances made during 1955-56 showed a rise of 27 per cent over the previous year's figure as against 6·9 per cent during 1954-55. The increase was more marked in former Part 'A' States. Bombay however outstripped the other States by accounting for Rs. 51·84 crores or 36·8 per cent of the total advances. There was an improvement in the position of overdues being 15·1 per cent of the outstandings at the end of 1955-56 against 17·0 per cent at the close of 1954-55.

At the apex level the increased demand for funds was met out of increased borrowings from the Reserve Bank, Governments and commercial banks which in all amounted to Rs. 19·02 crores as against Rs. 12·14 crores in the previous year. The investments of the State co-operative banks amounted to Rs. 18·39 crores at the close 1955-56 as against Rs. 14·38 crores a year rlier and of the Central banks amounted to s. 23·28 crores as at the end of June 1957, as ainst Rs. 19·88 crores in the previous year.

The number of agricultural credit societies, hich constitute the base of the co-operative edit structure in the country, increased from 43,320 on June 30, 1955, to 1,59,939 at the d of June 1956, their membership and working pital respectively being 77,90,850 and s. 79·10 crores at the close of 1955-56. The ward trend in fresh advances which was oticed in the preceding year was maintained ring the year under report being Rs. 49·62 ores as against Rs. 35·48 crores. Overdues mounting to Rs. 14·96 crores formed 25 per nt of the outstanding loans.

The working capital of all types of societies re 20·1 per cent higher at Rs. 468·82 crores s June 30, 1956, as against Rs. 390·52 crores at the close of 1954-55. Of this, deposits rmed 37·4 per cent and owned funds 29·8 per nt.

Co-operative societies in the long-term credit ctor are most unevenly distributed among fferent States. At the close of 1955-56 there re nine central land mortgage banks function- in the Country. Central land mortgage banks vanced loans to the tune of Rs. 2·83 crores ring the year as against Rs. 2·43 crores in 54-55. Their membership increased from ·93 to 90,786 during 1955-56. Debentures of value of Rs. 14·94 crores were in circulation on 30th June 1956 as against Rs. 12·71 res in the preceding year. Andhra and Madras tween themselves accounted for nearly 59 per nt of the total debentures.

There were 302 primary land mortgage banks the end of June 1956 distributed over 12 tes as against 292 banks at the end of 1954-55. r membership rose from 2,90,931 to 3,13,827 ring 1955-56. These banks advanced loans mounting to Rs. 1·74 crores during the same od as against Rs. 1·45 crores during the ceding year.

Agricultural non-credit societies showed an crease in their number and a decrease in eir membership at 30,268 and 23,91,826, respectively on June 30, 1956, as against 30,197 and 4,91,508 at the end of the previous year. Their working capital recorded a rise from Rs. 20·72 crores to Rs. 23·41 crores and their sales from Rs. 27·04 crores to Rs. 31·16 crores.

During 1955-56, 2,335 societies were brought under liquidation as against 2,593 societies in the previous year.

At the end of the year 14,820 societies were under liquidation as against 13,689 at the close of June 1955, with liabilities amounting to Rs. 5·93 crores and assets to Rs. 4·78 crores.

During the year under review, profits of practically all types of co-operative societies showed a general improvement. While the primary non-agricultural non-credit societies which had suffered losses to the extent of Rs. 89·53 lakhs during 1954-55, showed profits amounting to Rs. 71·59 lakhs during 1955-56. The State and Central non-credit societies, showed an increase in profits from Rs. 49·23 lakhs in 1954-55 to Rs. 123·63 lakhs in 1955-56. Agricultural credit societies also registered a substantial increase in profits. Primary agricultural non-credit societies which had suffered net losses to the extent of Rs. 19·66 lakhs in 1954-55, earned profits amounting to Rs. 2·80 lakhs in 1955-56. The net profit in 1955-56 of all the societies amounted to Rs. 626·95 crores as against Rs. 271·52 crores in 1954-55.

MAIN FACTS

The main position as at the end of 1955-56 is as follows :

Total number of Co-operative societies, 2,40,395 ; the total number of agricultural societies, 1,81,911 ; non-agricultural societies, 33,614.

If we take the average size of an Indian family as 5 this means that about 88·1 million or 22·8 per cent of the population were served by co-operative societies as against 80·1 million or 21 per cent of the population in 1954-55.

Total membership, 17·62 million ; membership of agricultural societies, 101,82,676 ; membership of non-agricultural societies, 63,95,047.

Total number of State and Central banks and banking unions 502 ; of supervisory unions, 582 ; of State and central non-credit societies, 2,846.

Total membership of State and central banks and banking unions 3,35,949 ; membership of supervising unions, 30,259 ; membership of provincial and central non-credit societies, 19,37,609.

Total number of agr. credit societies, 1,59,939 ; number of non-agr. credit societies, 10,003 ; number of agr. non-credit societies, 30,268 ; number of non-agr. non-credit societies, 27,745.

Total membership of agr. credit societies, 77,90,850 ; membership of non-agr. credit societies, 30,72,600 ; membership of agr. non-credit societies, 23,91,826 ; membership of non-agricultural non-credit societies, 33,22,447.

Note : All the figures below are in crores of rupees.

Working capital (1956 June), 468·82 ; Paid-up share capital, 77·15 ; Loans from Co-operative institutions 80·46 ; from Reserve Bank 14·07 ; from Government 24·32 ; other sources 6·51 ; Deposits from Co-operative institutions 11·97 ; from primary societies 25·42 ; from individuals and other sources 138 03 ; Borrowings of land mortgage banks and societies, 27·39 ; Reserve and other funds, 62·27.

Loans to individuals, 140·78 crores ; Loans repaid by individuals, 118·70 crores ; Loans outstanding against individuals, 149·96 crores ; Loans overdue from individuals, 22·62 crores.

LAND MORTGAGE BANKS

The position about central land mortgage banks is as follows (Rs. in crores) :

No. of banks, 9 ; no. of individual members, 90,786 ; debentures in circulation, 14·94 ; working capital, 18·52 ; loans advanced, 2·83.

The position about primary land mortgage banks is as follows : no. of banks, 302 ; no. of members, 3,13,827 ; working capital, 11·34 ; loans advanced, 1·74.

CENTRAL FINANCING AGENCIES

The Central financing agencies are of two types, the central bank at the headquarters of a district and the State Co-operative bank at the headquarters of the State.

The position about State Co-operative banks is as follows (Rs. in crores) : no. of State Co-operative banks, 24 ; no. of offices, 166 ; no. of individual members, 11,743 ; no. of banks and societies which are members, 24,651 ; share capital 4·37; reserves, 3·28 ; working capital, 63·34 ; loans to individuals, 9·76 ; loans to societies and banks, 53·58 ; total investments, 18·39 ; overdues, 3·7 ; investments in Government and other trustee securities, 15·98.

The position about central banks (Rs. in crores) : No. of banks, 478 ; owned funds, 15·15 ; deposits, 55·71 ; other borrowings, 21·80 ; bad and doubtful debts, 1·17 ; working capital, 92·67 ; no. of individual members 1,44,006 ; no. of banks and societies which are members, 1,55,549 ; loans advanced to individuals, 9·44 ; loans to societies and banks, 70·4 ; total outstandings, 54·34 ; overdues; 7·88 ; total investments, 23·28.

The rate of interest on borrowings and lendings varies from State to State.

NON-AGRICULTURAL CREDIT SOCIETIES

The position about the non-agricultural credit societies is as follows (Rs. in crores) :

No. of societies, 10,003 ; number of members, 30,72,600 ; working capital, 85·74 ; loans advanced, 72·06 ; loans due at end of year 60·87 ; loans overdue, 5·71 ; value of goods marketed, 2·27.

NON-CREDIT MOVEMENT

The position about the state non-credit societies (marketing unions) is as follows (Rs. in crores) :

No. of societies, 19 ; no. of individual members, 4,014 ; no. of societies which are members, 3,535 ; share capital, 1·23 ; funds, 1·08 ; working capital, 2·79 ; goods sold, 8.48.

The position about other state non-credit societies (whole-sale stores and supply unions) is as follows (Rs. in crores) :

No. of societies, 9 ; no. of individual members, 1,630 ; no. of societies which are members, 827 ; share capital, ·06 ; funds, ·12 ; working capital, ·40 ; goods sold ·29.

The position about yet other state non-credit societies (industrial unions) is as follows (Rs. in crores) :

No. of societies, 24 ; no. of individual members, 16,93 ; no. of societies which are members, 4,579 ; share capital, ·74 ; funds, ·47 ; working capital, 4·34 ; goods sold, 5·58.

The position of another type of state non-credit societies (housing societies) is as follows (Rs. in crores) :

No. of societies, 5 ; no. of individual members, 512 ; no. of societies which are members, 534 ; share capital ·70 ; funds, ·01 ; working capital, 1·33 ; loans advanced ·29.

The position about the rest of the state non-credit societies is as follows (Rs. in crores) :

No. of societies, 25 ; no. of individual members, 4,295 ; no. of societies which are members, 1,066 ; share capital, ·03 ; funds, ·06 ; working capital, ·83 ; goods sold, ·28 ; loans advanced, ·04.

CENTRAL NON-CREDIT SOCIETIES

The position is as follows (Rs. in crores) :

Total no. 2,764 ; no. of marketing unions or federations, 2,384 ; whole-sale stores and supply unions, 124; Industrial unions, 113 ; milk unions, 67 ; housing societies, 2 ; other types, 114 ; no. of individual members, 18,47,669 ; no. of societies which are members, 67,046 ; paid-up capital, 3·73 ; funds, 5·07 ; working capital, 19·93 ; goods sold, 57·85.

AGRICULTURAL NON-CREDIT SOCIETIES

Total no. of societies, 30,268; purchase and sale societies, 2,761; production and sale societies, 14,100; production societies, 6,530; social services societies, 5,681; housing 228; no. of members 23,91,826; share capital, Rs. 8·85 crores; funds, Rs. 5·17 crores; working capital, Rs. 28·40 crores; loans made during year, Rs. 11·65 crores; value of goods sold, Rs. 31·16 crores.

NON-AGRICULTURAL NON-CREDIT SOCIETIES

Total no. of societies, 27,745; purchase and sale societies, 8,077; production and sale societies, 11,525; production societies, 2,557; social services societies, 2,829; housing societies, 2,728; insurance, 30; no. of members, 33,22,447; share capital, Rs. 11·62 crores; funds, Rs. 15·85 crores; working capital, Rs. 58·52 crores; value of goods sold, Rs. 44·73 crores.

INSURANCE SOCIETIES

The position of life insurance societies is as follows:

No. of societies, 24; no. of members, 2,78,543; no. of policies, 2,54,752; sum assured, Rs. 27,86,97,000 premium income, Rs. 1,35,97,000; life fund, Rs. 7,05,05,000; assets, Rs. 7,82,62,000; cost of management, Rs. 35,03,000.

SUPERVISING UNIONS

The position about supervising unions is as follows:

No. of unions, 582; societies affiliated, 39,259; individual members of societies affiliated, 32·86 lakhs; working capital of affiliated societies, Rs. 54,24·94 lakhs.

The position about state unions and institutes is as follows:

No. of unions, 30; primary affiliated societies, 41,267; central affiliated societies, 713; individual members, 1,120; expenditure Rs. 45·32 lakhs.

FINANCIAL STRUCTURE

The total working capital in the movement on June 30, 1956 was Rs. 468·82 crores composed of owned funds 139·44 crores, deposits 175·43 crores, debentures 15·02 crores, and loans 125·38 crores.

This working capital was spread among different types of institutions as under :—

Institutions	No.	Working Capital (Rs. in crores)
State Banks	24	63.84
Central Banks and Banking unions	478	92.67
Primary Agricultural Credit Societies	1,59,939	79·10
Primary Non-Agricultural Credit Societies	10,003	85·74
Credit—Total	1,70,444	320·85
State Non-credit Societies	82	9.20
Central Non-credit Societies	2,764	19·94
Primary Agricultural Non-credit Societies	30,268	28.41
Primary Non-agricultural Non-credit Societies	27,745	58.13
Non-credit—Total	60,859	115 68
Central Land Mortgage Banks	9	18·53
Primary Land Mortgage Banks	302	11·35
Land Mortgage—Total	311	29·88
GRAND TOTAL	2,31,614*	466·41†

* The figure does not include 8,169 grain banks.

† The figure does not include working capital of grain banks which amounted to Rs. 2·42 crores.

RESERVE BANK

As a result of the Rural Credit Survey Committee's report, certain changes have been made in the type of assistance that is now given to rural areas.

In regard to credit societies, the resources that are now provided through the medium of the Reserve Bank by the augmentation of share capital at all stages—primary, district and the apex level—are about Rs. 5 crores.

Medium-term resources to the State co-operatives, the apex banks and the Central Government are provided by the Reserve Bank to the extent of about Rs. 5 crores.

The Reserve Bank lends what might be called short-term money, which really means 12 months, for production and marketing through co-operatives. It is as much as Rs. 40 crores a year now; to this has to be added a sum of Rs. 35 crores a year which the societies themselves are putting up.

The Co-operative Development Board, which is working under the aegis of the Food and Agriculture Ministry, has spent over Rs. 1 crore. They have received a grant of Rs. 1 crore for the building of godowns and for subsidising the building of godowns.

The Reserve Bank has been taking a keen interest in providing for the training of staff for a number of years in order that co-operative societies might have the services of qualified people; and the subsidies that have been given for this purpose by way of recurring expenditure amount to more than a crore of rupees.

Moreover, the Reserve Bank has also got its own training schemes on which over a period of years it has spent nearly Rs. 50 lakhs.

The following tables give the position as regards Co-operative Societies for the year 1955-56 :—

State*	CENTRAL										AGRICULTURAL					
	State and Central Banks and Banking Unions (a)		Non-Credit (b)		Central Land Mortgage Banks (c)		State Unions or Institutes (d)		Supervising Unions (e)		Credit		Non-Credit		Primary Land Mortgage Banks	
	No. of Societies	Members	No. of Societies	Members	No. of Societies	Members	No.	Members	No.	Members	No. of Societies	Members	No. of Societies	Members	No.	Members
Andhra	16	10,647	38	14,901	1	231	3	1,044	123	3,947	6,679	6,14,744	2,534	3,30,746	57	95,886
Madras	17	14,788	45	13,687	1	401	8	1,185	147	8,958	10,684	11,39,798	1,625	3,69,449	73	1,01,484
Bombay	34	80,368	62	34,367	1	1,132	1	251	231	11,060	11,139	10,15,235	1,812	3,53,763	18	32,645
West Bengal	44	13,883	41	6,870	..	..	1	77	..	..	11,578	3,53,245	2,835	1,70,652	9	2,994
Uttar Pradesh	62	45,129	2,266	18,13,652	..	..	1	74	..	..	44,006	14,03,198	6,246	1,22,622	6	875
Madhya Pradesh	42	58,490	4	4,488	..	27	1	63	5	11,490	13,103	3,69,487	647	91,063	11	22,463
Punjab	57	19,821	48	8,897	..	..	1	33	..	..	10,372	4,97,484	2,467	1,75,729	..	..
Bihar	52	16,693	132	11,782	..	..	1	20,401	1	44	12,606	4,16,496	7,775	3,05,613	..	..
Orissa	26	9,136	4	237	1	9,377	1	1,067	..	..	6,872	4,00,092	85	12,061	..	..
Assam	16	3,538	12	1,139	..	..	1	..	3	48	1,973	43,087	116	3,882	2	275
Mysore	13	4,499	13	5,702	1	372	1	821	..	..	3,670	3,48,030	980	1,27,821	83	45,625
Hyderabad	28	9,144	8	1,745	1	37	1	14,532	6	287	6,388	2,12,876	513	1,72,245	20	9,654
Madhya Bharat	26	16,853	1	79	..	..	3	1,944	..	..	7,557	1,77,218	156	4,601	1	62
Rajasthan	13	8,198	47	3,493	..	..	2	55	..	..	4,185	1,13,367	339	8,871	10	271
Travancore-Cochin	2	3,339	12	5,080	1	5,683	1	73	43	2,952	1,223	2,01,607	628	61,752	..	..
PEPSU	19	4,868	5	128	..	..	..	..	..	..	1,987	70,079	403	16,982	..	..
Jammu and Kashmir	6	3,184	2	85	..	..	..	..	..	..	2,009	1,68,149	325	24,634	..	..
Saurashtra	4	7,398	38	4,014	1	73,519	1	256	5	74	1,393	93,423	50	1,556	..	..
Ajmer	7	1,906	13	568	1	7	1	..	..	..	620	18,146	34	538	12	1,597
Bhopal	14	1,034	..	..	..	..	..	..	1	15	167	5,831	..	..	..	.
Delhi	1	790	7	770	..	..	..	..	..	..	355	12,381	192	9,004	..	..
Coorg	1	1,087	12	3,851	..	..	..	..	16	384	210	25,124	17	3,956	..	..
Himachal Pradesh	1	785	27	1,327	..	..	..	..	..	..	556	38,407	60	3,524	..	..
Vindhya Pradesh	1	371	4	314	..	..	..	..	..	..	424	10,454	230	6,841	..	..
Manipur	..	..	3	355	..	..	..	..	1	..	37	2,094	174	11,078	..	..
Tripura	..	..	1	29	..	..	1	42	..	..	82	3,609	16	2,480	..	..
Andaman and Nicobar Islands	..	..	..	..	..	..	..	..	..	..	..	..	3	209	..	..
Kutch	..	..	1	49	..	..	..	..	..	..	46	1,522	4	50	..	..
Pondicherry	..	..	..	..	..	..	..	..	..	..	18	572	2	104	..	..
Total	502	3,35,949	2,846	19,37,609	9	90,786	30	41,980	582	39,259	1,59,039	77,90,850	30,268	23,91,826	302	3,13,827

* The States existing before the reorganization in November 1956.

Table (*contd*) :—

State*	NON-AGRICULTURAL						TOTALS						
	Credit		Non-Credit		Insurance		Total Number of Societies	Total Number of Primary Societies per one lakh inhabitants	Total Membership of Primary Societies	Membership of Primary Societies per 1,000 inhabitants	Working Capital in the Movement (Rs. in thousands)	Average Working Capital per head (in Rupees)	Loans per Member (in Rs.)
	No. of Societies	Members	No. of Societies	Members	No. of Societies	Members							
Andhra	453	1,28,379	1,312	2,30,026	..	..	11,216	51·0	14,29,777	65·0	47,48,39	71	22
Madras	895	6,43,018	1,874	5,04,998	3	79,591	15,389	40·1	28,39,517	73·9	72,64,50	76	19
Bombay	1,711	10,03,737	3,933	4,83,821	12	92,674	19,413	48·3	30,28,606	75·4	1,39,92,08	171	35
West Bengal	498	3,65,075	2,265	1,83,363	9	89,201	17,322	65·3	11,70,754	44·1	22,33,69	136	9
Uttar Pradesh	789	1,33,744	2,265	3,14,924	..	..	55,641	82·9	19,75,363	29·4	38,95,07**	35	6
Madhya Pradesh	262	78,499	777	79,028	..	..	14,853	67·0	6,40,573	28·9	23,59,08	104	11
Punjab	1,553	79,321	3,239	1,44,699	..	..	17,737	136·6	8,97,233	69·2	27,21,31	56	21
Bihar	160	60,044	1,591	1,19,893	1	86	22,345	52·8	9,23,998	21·8	11,69,24	39	3
Orissa†	231	36,283	1,029	91,951	2	396	8,623	57·0	6,26,151	41·4	10,07,24	32	7
Assam	162	17,156	1,922	2,54,648	..	..	4,207	42·4	3,15,048	32·2	4,25,74	16	4
Mysore	685	1,68,675	540	81,542	..	..	6,009	55·2	7,72,732	71·0	13,48,63	46	12
Hyderabad	480	90,510	243	1,90,116	2	21,073	15,233	76·1	12,48,429	62·4	16,03,36	15	8
Madhya Bharat	298	38,430	786	27,315	1	..	8,981	106·9	2,50,685	29·8	8,42,66	96	10
Rajasthan	176	20,080	1,533	76,181	..	..	6,312	38·3	2,19,235	13·3	4,82,31	56	3
Travancore-Cochin† ..	422	1,09,310	913	1,14,334	..	..	3,245	31·3	4,87,003	46·9	4,09,60	20	4
PEPSU	524	15,278	433	11,560	..	..	3,371	94·2	1,18,899	33·2	3,67,28	91	10
Jammu and Kashmir ..	123	3,265	383	14,373	..	..	2,848	63·3	2,10,421	46·7	1,70,85	17	4
Saurashtra†	128	25,088	616	26,476	..	..	2,236	49·8	1,46,548	32·6	9,57,51	240	21
Ajmer	104	7,644	264	12,245	..	..	1,056	138·9	40,170	52·9	1,03,28	49	14
Bhopal	3	307	15	544	..	..	200	22·5	6,682	7·5	28,91	17	3
Delhi	261	29,546	616	35,235	..	..	1,432	63·6	86,166	38·3	3,12,68	88	14
Coorg	27	12,087	50	14,785	..	..	437	161·9	67,775	251·0	1,32,67	51	49
Himachal Pradesh	24	1,259	86	4,647	..	..	754	66·7	47,837	42·3	1,38,77	20	12
Vindhya Pradesh	..	..	148	6,062	..	..	830	22·6	24,043	6·5	24,07	26	1
Manipur	3	453	145	8,068	..	..	363	58·5	21,693	35·0	11,37	5	2
Tripura	5	186	45	2,957	..	..	150	20·8	9,322	12·9	7,11	8	1
Andaman and Nicobar Islands	1	172	20	955	..	..	24	80.0	1,336	44·5	3,28	17	11
Kutch	23	3,411	47	1,777	..	..	121	20·2	6,760	11·3	13,09	62	2
Pondicherry	2	1,643	25	2,903	..	..	47	14·2	5,222	15·8	7.92	142	2
Total ..	10,003	30,72,800	27,715	30,39,426	30	2,83,021	2,40,395	62·2	1,76,21,978	45·6	4,68,81,69**	80	12

* States existing before the reorganization in November 1956. ** Includes deposits and other borrowings amounting to Rs. 1,17,10 for which breakdown is not available.
† Loan transactions of the central land mortgage banks in Orissa, Saurashtra and Travancore-Cochin which advance loans to individuals direct are also included.

LABOUR

THE achievement of Independence and the emergence of India as a Republic wedded to the idea of a welfare State has made the welfare of the working classes a prime responsibility of the State. Several administrative and legislative measures of far-reaching significance have already been introduced in the country. Health, education, housing and social welfare for the masses find a prominent place in the First and Second Five Year Plans.

The general position in 1954-55 was as follows :—

Total Labour Force 139,300,000
(men 98,700,000 ; women 40,600,000).
No. employed in factories coming under the Factories Act of 1948 2,690,403
No. of trade unions on register .. 6,648
No. of trade unions which submitted returns of membership 3,113
No. of members of trade unions submitting returns 2,170,450

The Central co-ordinating authority in India for questions connected with labour legislation is the Ministry of Labour of the Government of India with the Labour Minister in charge. The administration of matters connected with the English and Indian Merchant Shipping Acts, the Mercantile Marine Department and Indian Seamen is with the Ministry of Transport. In respect of all the Railways, the Labour Minister is responsible for the administration of the Payment of Wages Act, 1936, trade disputes, hours of work for employees not covered by the Factories Act and regulation of employment of children. He is also responsible for regulation of labour and safety in respect of mines and oilfields ; trade disputes in industries, businesses or undertakings carried on by the Central Government, and inter-State migration.

Among the more important Acts that govern labour conditions and relations in India are the following : 1. Indian Factories Act, 1948 ; 2. Indian Mines Act ; 3. Payment of Wages Act ; 4. Minimum Wages Act ; 5. Workmen's Compensation Act ; 6. Maternity Benefit Acts (States) ; 7. Indian Trades Union Act ; 8. Industrial Disputes Act ; Industrial Disputes (Appellate Tribunal) Act ; 9. Tea Districts Emigrant Labour Act ; 10. Shop Assistants Acts (States) ; 11. Employees' State Insurance Act ; 12. Collection of Statistics Act ; 13. Employees Provident Funds Act.

FACTORIES ACT, 1948

The Act covers all industrial establishments employing 10 or more workers and using power and establishments employing 20 or more workers and not using power. The State Governments have been empowered to apply the provisions of the Act to any premises, irrespective of the number of persons employed, where a manufacturing process is carried on with or without the aid of power, except where the work is done by the worker solely with the aid of his family.

The Act prescribes that every factory should be kept clean and free from effluvia arising from drains, privies, etc., and lays down stipulations regarding sweeping, cleaning, disinfecting, whitewashing, ventilation, temperature, drinking water, latrines, etc.

In existing factories 350 cubic feet of space should be provided for every workman. In new factories to be built the space for each workman should be 500 cubic feet.

Elaborate provision regarding safety such as fencing of machinery, etc., has been laid down. Women and children are prohibited from employment on certain types of machinery.

Washing facilities for the workers, appliances for first-aid, rest shelters, creches, canteens, etc., are prescribed under the Act. In every factory where 500 or more workers are employed the occupier shall employ Welfare Officers.

Weekly hours of work have been fixed at 48 and daily hours at 9. The maximum spread-over allowed is 10½ hours. No worker shall work for more than 6 hours before he has had an interval for rest of at least half an hour.

Payment for overtime has been prescribed at double ordinary rate of wages.

No woman shall be employed in any factory except between the hours of 6 a.m. and 7 p.m.

A weekly day of rest has also been prescribed.

No child who has not completed his fourteenth year shall be required or allowed to work in any factory. A child who has completed his fourteenth year or an adolescent (a person who has not completed his eighteenth year) shall not be allowed to work in a factory unless a certificate of fitness by a certifying surgeon is in the custody of the manager of the factory and he carries while at work a token giving reference to such certificate. No 'child' shall be employed or permitted to work in any factory for more than 4½ hours in a day or between the hours of 7 p.m. and 6 a.m.

Every adult worker who has completed a period of 12 months' continuous service in a factory (later amended, see below) shall be allowed during the subsequent period of 12 months leave with wages including dearness allowance for a period calculated at the rate of one day for every 20 days of work performed by him during the previous 12 months, subject to a minimum of 10 days. In the case of children the leave should be at the rate of one day for every 15 days of work subject to a minimum of 14 days.

It may be added here that the recent tendency for many units particularly in south India has been to allow holidays with pay in excess of the minimum stipulated.

In many awards given by Adjudicators leave with pay upto 14 days has been granted.

Where any worker in a factory contracts any disease specified in the schedule appended to the Act, the manager of the factory shall send notice thereof to such authorities, and in such form and within such time, as may be prescribed.

The administration of the Act is left to the State Governments. The Central Government have set up an advisory organisation, namely the Office of the Chief Adviser, Factories.

The Act was amended in 1954. Under this amendment eligibility for leave with pay would be 240 days' service during a calendar year. Proportionate leave will be granted to those whose service starts after the beginning of the calendar year.

The annual leave with wages will be exclusive of holidays during or immediately before or after the period of leave.

The leave can be carried forward from one calendar year to another provided the maximum does not exceed 30 days in the case of an adult and 40 days in the case of a child.

No prior notice will be necessary when a worker requires leave to cover a period of illness.

The Act permits six hours' work at a stretch without any interval when the total number of hours to be worked on any day in a shift does not exceed six.

It also permits newspaper printing presses to work their entire night shift of six hours at a stretch.

It allows a worker a maximum of 50 overtime hours in a quarter year which is deemed to have begun on the first day of January, April, July or October.

It enables continuous employment of workers in case some of the subsequent shift workers do not turn up in time.

For the purpose of computing the rate of wages of a person who takes advantage of the concessional sale of foodgrains and other articles the basis will be the maximum ration admissible to a standard family of a specific number of consumption units.

Women and children are prohibited from working in factories at night.

Women and children are also prohibited from cleaning, lubricating or adjusting any prime mover or transmission machinery while it is in motion if such work exposes them to risk of injury.

FACTORY STATISTICS

Under the provisions of the Factories Act, 1948, registered factories submit annual and half yearly returns on employment to the Chief Inspectors of Factories in the various States. All-India figures are compiled by the Labour Bureau and are published in the *Indian Labour Gazette*.

The number of factories on registers in the areas covered by the (pre-reorganization) Part A States and of the States of Ajmer, Coorg, Delhi and Andamans during 1954 and 1955 was 30,053 and 30,148 respectively.

In the Part B States and the remaining Part C States there were in 1952, 4,794 factories with an average daily employment of 4,50,148.

The following table sets out the statistics of the average daily numbers of persons employed in factories during the year 1955.

WORKERS EMPLOYED 1955.
(Section 2m(i) and 2m(ii) factories only.)

Industry	Average Number of Workers Employed Daily
Processes allied to agriculture (Gins and Presses)	102,924
Food except beverages	336,682
Beverages	5,067
Tobacco	134,137
Textiles	1,043,222
Footwear, other wearing apparels and made up textile goods	12,442
Wood and Cork except furniture ..	27,616
Furniture and fixture	8,597
Paper and paper products	25,298
Printing, publishing and allied industries	75,192
Leather and leather products (except footwear)	19,147
Rubber and rubber products ..	24,611
Chemicals and Chemical products ..	85,907
Products of petroleum and coal ..	11,782
Non-metallic mineral products (except products of petroleum and coal)	100,287
Basic metal industries	95,273
Metal products (except machinery and transport equipment) ..	60,471
Machinery (except electrical machinery)	96,359
Electrical machinery, apparatus, appliances and supplies	30,552
Transport equipment	214,459
Miscellaneous industries	129,308
Electricity, gas and steam	26,550
Water and sanitary services ..	5,430
Recreation services (Cinema Studios)	4,014
Personal services (Laundries, dyeing, cleaning)	15,076
Total ..	2,690,403

Women formed 10·9 per cent of factory employment during 1955. Adolescents and children constituted 0·48 per cent and 0·18 per cent respectively.

MINES ACT

With a view to amending and consolidating the law relating to the regulation of labour and safety in mines, the Mines Act, 1952 was passed and brought into force from July 1952. The Act extends to the whole of India except Jammu and Kashmir. The Act restricts the hours of work for adults to 9 per day and 48 per week above ground and 8 per day and 48 per week below ground. Overtime work below ground

should be paid for at twice the ordinary rate and above ground at 1½ times the ordinary rate. The Act prohibits the employment of children below 15 years of age. It also prohibits the employment of women in any part of a mine which is below the ground level. Women can be employed above ground only between the hours of 6 a.m. and 7 p.m. Adolescents who have not completed 18 years of age are not allowed to work underground unless they are certified fit to work as adults. Adolescents not certified fit to work as adults should not be allowed to work for more than 4½ hours a day. Annual leave with wages for a period of 14 days in a year in the case of monthly-paid employees and 7 days in the case of weekly-paid employees and piece workers is granted to the workers. Provisions relating to health and safety are laid down in the Act, besides which the Central Government may direct that the Health and Safety provisions under the Factories Act, 1948 shall apply to all mines and the precincts thereof.

MINING STATISTICS

Figures are published in a Monthly Bulletin which is issued by the Chief Inspector of Mines. The average daily number of workers employed in mines in 1939, 1951, 1952, 1953 and 1954 was 298,650; 549,048; 559,196; 593,868 and 568,254 respectively. The available figures are given in the following table :—

EMPLOYMENT IN MINES IN 1954
(Figures for the Indian Union)

State*	Underground Men	Open workings		Surface		Total
		Men	Women	Men	Women	
Andhra	3,380	7,209	3,902	1,714	1,435	17,640
Assam	2,857	705	125	1,437	453	5,577
Bihar	96,253	35,110	16,541	57,365	24,413	229,682
Bombay	699	6,437	2,536	1,694	396	11,762
Madhya Pradesh	20,246	24,869	22,074	13,112	5,629	85,930
Madras	76	4,863	2,806	682	94	8,521
Orissa	4,215	14,313	10,615	9,543	4,432	43,118
Punjab (East)	5	511	10	..	..	526
Uttar Pradesh	23	25	..	22	6	76
West Bengal	57,710	3,354	925	24,016	9,819	95,824
Hyderabad	10,332	158	..	6,030	1,310	17,830
Madhya Bharat	4	855	228	100	90	1,277
Mysore	10,744	4,308	2,280	6,293	1,074	24,699
Rajasthan	2,560	3,538	698	2,094	401	9,291
Saurashtra	..	161	18	7	1	187
Travancore-Cochin	45	1,958	23	653	..	2,679
Pepsu	..	279	129	284	10	702
Ajmer	199	473	119	206	2	999
Delhi	92	44	..	18	..	154
Himachal Pradesh	65	..	..	52	19	136
Vindhya Pradesh	5,115	1,778	741	2,932	1,078	11,644
TOTAL	214,620	110,948	63,770	128,254	50,662	568,254

* Old States existing before the reorganization on November 1, 1956.

PAYMENT OF WAGES ACT

The Act applies only to wages and salaries which average below Rs. 200 per month.

According to an amending Bill passed by the Lok Sabha in December 1957 the scope of the Act will be extended. The wage limit is to be raised to Rs. 400 a month and the Act will apply to construction workers.

For purposes of the Act 'wages' means all remuneration capable of being expressed in terms of money and includes any bonus or additional remuneration but does not include travelling allowances, employers' contribution to provident funds, gratuities payable on discharge or the value of housing or other services rendered to the worker.

No wage period is to exceed one month and wages are to be paid within a prescribed time not exceeding 10 days from the end of the wage period. All wages are to be paid in coin and, or currency notes. Fines are not to exceed half anna in the rupee. Permissible deductions from wages have also been specified.

The administration of the Act, as far as factories are concerned, has been entrusted to the Inspectors of Factories in the States. In regard to persons employed in mines and in railways the responsibility of administering the Act rests upon the Chief Labour Commissioner (Central).

MINIMUM WAGES ACT, 1948

The Act covers the following industries or types of establishments. Woollen carpet making or shawl weaving; rice, flour or dal mills; tobacco manufactories (including bidi making); plantations; oil mills; employment under any local authority; road construction or building operations; stone breaking or stone crushing; lac manufactories; mica works; public motor transport; tanneries and leather manufactories; and agriculture. The appropriate Governments can extend the application of the Act to any industry wherein, in their opinion, minimum wages should statutorily be fixed.

The Act requires the Central or State Governments, as the case may be, to fix minimum rates of wages payable to persons employed in the industries mentioned above.

The Act provides for the fixation of minimum time rates, minimum piece rates, guaranteed time rates and overtime rates appropriate to different occupations, or localities and for adults, adolescents, children and apprentices. The minimum rate may consist of a basic rate and a cost of living allowance and/or cash value of concessions or it may be an all-inclusive rate.

The Act authorises the appropriate Governments to appoint Committees and Sub-Committees to hold inquiries and advise them to fix minimum rates of wages in respect of any scheduled employment or for the revision of these rates. They may also appoint an Advisory Board for co-ordinating the work of various Committees and also to advise Government generally in the matter of fixing or revising minimum rates of wages.

The Central Government have set up a Central Advisory Board for advising the Central and State Governments and for co-ordinating the work of State Advisory Boards. The Committees and Sub-Committees as well as the Central and State Advisory Boards are to consist of equal number of representatives of employers and employees, and of independent persons not exceeding a third of the total number of members.

The Central or the State Governments, as the case may be, can fix the number of hours of work per day, provide for a weekly holiday, etc., in regard to any employment in which minimum wages have been fixed under the Act.

WORKMEN'S COMPENSATION ACT

Under the Act payment of compensation has been made obligatory on all employers whose employees come within its scope, and injured workmen or the dependents of those killed can obtain compensation in all cases where personal injury has been caused by accident *arising out of and in the course of employment* and where, except in the case of injury resulting in death, the accident is not directly attributable to the workman having been at the time of the accident under the influence of drink or drugs or to wilful disobedience of rules or orders or wilful disregard of safety devices.

Besides bodily injuries the contracting of certain occupational diseases such as anthrax and mercury, lead and phosphorus poisoning were deemed and treated for the purposes of compensation, as injuries caused by accident, provided however, that the worker concerned was in the service of the same employer for more than six months.

The main provisions of the Workmen's Compensation Act as it stands today are as follows:

In all cases persons employed in an administrative or clerical capacity and those whose monthly earnings exceed Rs. 400 (except Railway Servants) are excluded.

As far as seamen are concerned, those employed on ships registered in India are covered. But if accidents take place within the three mile limit of the territorial waters the Act applies even to those employed on ships not registered in India.

Not only workmen employed within the precincts of a factory or a mine but also men engaged in any kind of work incidental to or connected with a factory or any mining operation are entitled to the benefits of the Act.

Any person who is covered by the Employees' State Insurance Act, 1948, and who is entitled to receive disablement or dependent's benefit from the Employees' State Insurance Corporation is not entitled to claim any compensation from the employer under this Act.

The amount of compensation payable depends, in the case of death, on the average monthly wages of the deceased workman and in the case of an injured workman both on the average monthly wages and the extent of disablement. The term 'wages' includes overtime pay and the value of any concessions or benefits in the form of food, clothing, free quarters, etc.

The amounts of compensation payable in the case of an injured workman whose monthly wages are not more than Rs. 10 are Rs. 500 for death, Rs. 700 for permanent total, and half the monthly wages for temporary disablement. For a workman whose monthly wages are between Rs. 50 and Rs. 60, the corresponding figures are Rs. 1,800, Rs. 2,520 and Rs. 15 respectively. The maxima for persons earning over Rs. 300 per month are Rs. 4,500, Rs. 6,300 and Rs. 30 per month respectively. In the case of minors the amounts of compensation for death and for permanent total disablement are at the uniform rate of Rs. 200 and Rs. 1,200 respectively, and half the monthly wage for temporary disablement.

The interests of dependents in cases of fatal accidents have been safeguarded by ensuring that (1) all cases of fatal accidents should be brought to the notice of the Commissioner; (2) in all cases where an employer admits liability the amount of compensation payable is to be promptly deposited with the Commissioner; and (3) in cases where the employer disclaims liability and there are good grounds for believing compensation to be payable, the dependents get the information necessary to enable them to judge if they should make a claim or not.

An employer is permitted to make to any dependent advances on account of compensation not exceeding an aggregate of one hundred rupees.

The Act is administered by Commissioners appointed by State Governments. In areas in which the Employees' State Insurance Scheme

has been implemented, the payment of workmen's compensation is the responsibility of the E.S.I. Corporation.

STATISTICS

An annual note on the working of the Act is published regularly in the *Indian Labour Gazette*. The latest available statistics on the subject will be found in the following table :—

Year	Total number of cases	Total compensation paid
		Rs.
1945	67,390	42,25,339
1946 †	55,241	36,25,808
1947 ¶	53,574	33,26,495
1948	66,776	42,20,068
1949	60,511	52,17,162
1950	61,950	57,33,066
1951	63,133	58,98,253
1952	58,734	56,37,368
1953	61,742	61,38,380
1954	66,118	64,25,062
1955	75,793	59,07,194

† Excluding Punjab and Sind.
¶ Excluding figures for Punjab.

Facilities for accident insurance are now being provided by a number of leading insurance companies in the country and the most important of these are the Claims Bureau in Calcutta and Madras.

The Millowners' Mutual Insurance Association, Ltd., Bombay, is an organisation of employers one of whose objects is the mutual insurance of members against liability to pay compensation or damages to workmen employed by them.

The table below shows the accident rate per thousand workers and the average compensation paid in the main industry groups during 1955.

INDUSTRY	1955	
	Accident Rate per thousand.	Average compensation paid per case.
		Rs.
Factories	21·67	89
Plantations ..	7 00	18
Mines	31·37	109
Railways ..	23·43	70
Docks and Ports ..	32·47	115
Tramways	30 23	64
Posts & Telegraphs	2·92	91
C.P.W.D.	1·06	399
Buildings & Construction	13·85	202
Municipalities ..	0·65	515
Miscellaneous ..	14 64	236
Total ..	19·37	79

MATERNITY BENEFIT ACT

The first Maternity Benefit Act in India was passed by the Government of the former Bombay State in 1929. After that, Maternity Benefit Acts were passed by the Governments of all the pre-reorganization Part "A" States; Hyderabad, Madhya Bharat, Mysore, Rajasthan, Saurashtra and Travancore-Cochin among Part "B" States; Ajmer, Bhopal, Delhi and Tripura among the pre-reorganization Part "C" States had similar Acts.

The West Bengal Legislature passed a separate Act in 1948 for women employed in tea-plantations under the title of the West Bengal Maternity Benefit (Tea Estates) Act, 1948.

The Government of India passed the Mines Maternity Benefit Act in 1941.

The scope, qualifying conditions and rate of benefit are not uniform under the various State Acts. The Andhra, Assam, Madhya Pradesh, the Punjab, Orissa, Mysore, Hyderabad, Travancore-Cochin and Bhopal Acts apply to women employed in regulated factories. The other State Acts apply to women employed in non-seasonal factories only. The Bihar Act till recently applied to non-seasonal factories only, but by an amending Act passed in 1953 it now applies to all registered factories except those engaged in cotton ginning, jute pressing, manufacture of lac or sugar (including gur). The Bombay Act applies to women employed in regulated factories in certain notified districts and towns of the State. Women employed in plantations in Assam, parts of Kerala and West Bengal only are entitled to maternity benefits under the respective Acts.

The qualifying period of service is generally 9 months though under the Bihar, Orissa, Uttar Pradesh and the Mines Acts it is 6 months. The period of benefits is 8 weeks in most of the States; it is, however, 7 weeks in Madras, Andhra and Orissa and 12 weeks in Hyderabad and Travancore-Cochin under the Acts.

The rate of benefit is annas eight per day in Madras and Andhra under the Acts. In the Hyderabad Act and the Mines Benefit Act the rate is Ans. 12 or average daily earnings whichever is more. In Orissa, it is the actual daily wage or salary subject to a maximum of Ans. 12 per day. The Travancore-Cochin and West Bengal (Tea Estates) Acts provide for Rs. 5-4-0 per week. Women workers on plantations in Assam receive under the Act Ans. 11 Pies 6 per day in addition to the usual food concessions and women in other industries in the State get their average weekly earnings subject to a minimum of Rs. 2. Although maternity benefit legislation does not apply to plantations in other parts of South India, the employers' associations have recommended payment of benefit on a voluntary basis at the rate of Ans. 12 per day for a period of 8 weeks.

The Mines Maternity Benefit Act and the Assam, Bihar and U.P. Acts provide for some additional benefits which take the form of free medical treatment, maternity bonus, provision of creches, additional rest intervals for nursing mothers etc. In the Central Act for women employed in mines and in the U.P. and Bihar Acts, an additional bonus of Rs. 3 and in Rajasthan Rs. 5 is paid if the women avail themselves of the services of a qualified mid-wife. But if such assistance is provided by or in an institution of an employer, the bonus is not paid.

The U.P. and Bihar Acts lay down that factories employing 50 or more women or where women employed form 25 per cent. or more of the workers, should maintain creches, and appoint female attendants to look after the children.

Provision is made in the Acts for protection of women against dismissal by the employers to avoid liability of payment. Nor can a women be discharged during the period of maternity leave. Employment of women during maternity leave is a penal offence but the Assam Act permits such employment provided it is on light work during the four weeks preceding child birth. The West Bengal Maternity (Tea Estates) Act also permits such employment on light work during 6 weeks before confinement if certified fit to do such work by the prescribed medical practitioners.

The administration of the Acts in the States is the responsibility of the Factory Inspectorates. The enforcement of the Mines Maternity Benefit Act in the coal mines is the responsibility of the Coal Mines Welfare Commissioner. In other mines, it is administered by the Chief Inspector of Mines.

The table below shows the figures relating to payment of Maternity Benefit in 1955 :

States†	Average No. of women employed.	No. of women who claimed maternity benefit.	No. of women who were paid maternity benefit in full or in part.	No. of cases in which a bonus was given or maternity benefit was paid for miscarriage or death.	Total amount paid.
1	2	3	4	5	6
PART 'A' STATES					
Andhra	47,161	286	279	5	6,769
Assam	175,698	42,350	41,259	56	3,524,596
Bihar	9,233	959	946	16	82,233
Bombay	68,590	3,026	2,554	16	107,774
Madhya Pradesh ..	20,524	260	217	1	13,648
Madras	62,208	4,450	4,132	178	171,832
Orissa	2,710	66	59	..	3,435
Uttar Pradesh	1,030	30	15	..	1,230
West Bengal	58,781	16,681	15,193	..	888,131
TOTAL PART 'A' STATES 1955	451,995	68,108	64,654	272	4,799,648
1954	431,964	52,715	50,158	764	4,112,760
PART 'B' STATES.					
Hyderabad	8,512	180	181	..	10,169
Mysore	3,868	495	495	..	36,231
Travancore-Cochin ..	28,254	7,576	7,044	..	402,005
TOTAL PART 'B' STATES 1955	40,634	8,251	7,720	..	448,405
1954	25,524	1,587	1,584	1	96,980
PART 'C' STATES.					
Ajmer	771	18	18	..	411
Bhopal	241	..	..	..	..
TOTAL PART 'C' STATES 1955	1,012	18	18	..	411
1954	1,773	16	14	..	277
MINES—					
Coal	50,273	2,988	2,887	807	119,579
Others	68,999	5,500	5,842	445	221,927
TOTAL MINES 1955	119,272	8,488	8,729	1,252	341,506
1954	103,811	7,064	7,526	1,094	287,600

† States before reorganization in Nov. 1956.

The average amount of benefit paid in the years 1954 and 1955 was Rs. 82 and Rs. 74 for Part 'A' States; Rs. 61 and Rs. 58 for Part 'B' States; Rs. 20 and Rs. 23 for Part 'C' States; and Rs. 38 and Rs. 39 for Mines.

TRADE UNIONS ACT, 1926

This Act was brought into operation with effect from 1st June 1927 and was slightly amended in 1928.

Apart from the necessary provisions for administration and penalties, the Indian Trade Unions Act, 1926, makes provision for three matters: (1) conditions governing the registration of trade unions; (2) the obligations to which a trade union is subject after registration; and (3) the rights and privileges accorded to registered unions. 'Trade Union' has been defined in such a way as to cover both combinations of workers and of employers but not of workers and employers. Persons under the age of 15 are debarred from membership of any registered union.

The administration of the Act is entirely on a State basis and each State Government is required to appoint a Registrar of Trade Unions. Any seven or more members of a union can apply for registration but no union can be registered unless at least fifty per cent of the executive consist of members actually engaged in the unit or group of units which the union proposes to cover.

Any union aggrieved by the refusal of a Registrar to register it or by the cancellation of its registration may prefer an appeal to a judge appointed by the State Government for the purpose; and, in the event of the dismissal of such an appeal, the aggrieved party has the right of a further appeal to the High Court.

The general funds of registered trade unions cannot be spent on objects other than those specified in Section 15 of the Act nor on political objects; but the Act makes provision for the creation of a separate political fund, subscription to which may be collected from such members as voluntarily desire to contribute to it. All registered unions are required to submit annually to the Registrar duly audited statements of accounts in prescribed forms together with changes in officers and the executive and a copy of the rules corrected up to date.

A registered trade union is immune from prosecution for criminal conspiracy in respect of an agreement, unless it is one to commit an offence, made between its members for the furtherance of a trade dispute or for restraint of trade and from any legal difficulties arising therefrom.

STATISTICS OF TRADE UNIONS

All-India Figures.—The following tabular statements show the latest available position in regard to Registered Trade Unions:—

REGISTERED TRADE UNIONS AND MEMBERSHIP

(The States mentioned below are those existing before the reorganization in November 1956.)

	No. of Unions on registers		No. of Unions submitting returns		Membership of Unions submitting returns	
	1953-54	1954-55	1953-54	1954-55	1953-54	1954-55
Central Unions	169	144	89	105	241,948	175,508
Part A States—						
Andhra	167	184	109	130	31,232	35,970
Assam	102	124	79	74	149,798	178,107
Bihar	435	493	338	248	263,539	262,100
Bombay	765	869	461	493	401,594	367,427
Madhya Pradesh	144	156	65	101	33,133	66,001
Madras	534	613	328	401	138,998	156,328
Orissa	81	95	62	65	31,037	32,919
Punjab	168	216	86	91	17,424	18,495
Uttar Pradesh	620	651	466	552	143,496	161,550
West Bengal	1,436	1,381	680	567	400,814	361,176
Total (Part A States)	4,452	4,782	2,674	2,722	1,611,065	1,640,073
Part B States—						
Hyderabad	276	313	57	63	22,369	23,473
Jammu and Kashmir	5	—	5	—	1,209	—
Madhya Bharat	62	69	34	45	14,900	18,155
Mysore	35	55	33	55	36,075	48,405
PEPSU	10	14	6	10	2,239	3,032
Rajasthan	85	112	36	54	7,888	12,540
Saurashtra	91	122	57	93	12,860	18,228
Travancore-Cochin	645	769	137	191	85,125	141,530
Total (Part B States)	1,209	1,458	365	511	182,674	265,363
Part C States—						
Ajmer	18	19	14	18	6,010	7,367
Bhopal	21	19	16	19	4,399	6,870
Coorg	5	—	5	—	2,042	—
Delhi	134	191	115	168	60,164	67,196
Himachal Pradesh	6	6	2	2	351	341
Kutch	1	1	1	1	419	514
Tripura	11	22	11	12	2,850	6,067
Vindhya Pradesh	8	6	8	5	1,982	1,151
Total (Part C States)	204	264	172	225	78,217	89,506
Grand Total	6,034	6,648	3,300	3,113	2,113,904	2,170,450

The industry-wise membership of the four Central Trade Union Organisations recognised by the Central Government, *viz.* the Indian National Trade Union Congress, the All-India Trade Union Congress, the Hind Mazdoor Sabha and the United Trade Union Congress, was as follows:

Name of Industry	I.N.T.U.C.	A.I.T.U.C.	H.M.S.	U.T.U.C.
Textiles	3,83,514	69,033	75,278	63,860
Transport	1,66,055	21,592	77,163	42,952
Plantations	2,89,570	27,564	45,318	34,705
Mining	78,086	30,062	64,778	32,031
Sugar	52,630	2,182	30,265	9,974
Others	4,19,779	156,530	—	3,57,388
TOTAL	13,89,634	306,963	4,35,899	5,40,910

The INTUC figures are for Nov. 1957, the AITUC for March 1955, the HMS for Dec. 1956 and UTUC for March 1957. The figures were supplied by the parties.

INDUSTRIAL DISPUTES ACT

The Act provides for setting up of two types of organisations, namely, (1) Works Committees and (2) Industrial Tribunals for the prevention or settlement of disputes. It makes conciliation compulsory in all disputes in public utility services and optional in other cases.

Section 22 of the Act declares any strike or lock-out in a public utility service to be illegal if it is commenced or declared (i) without giving to the employer or employees, as the case may be, a notice of strike or lock-out in a prescribed manner, within six weeks before striking or declaring a lock-out, or (ii) within 14 days of giving such notice, or (iii) before the expiry of the date of strike specified in any such notice; or (iv) during the pendency of any conciliation proceedings before a conciliation officer and 7 days after the conclusion of such proceedings, etc. The Act also prohibits certain other strikes and lock-outs and declares them illegal if commenced or declared during the pendency of (i) conciliation proceedings before a Board and 7 days after the conclusion of such proceedings; (ii) proceedings before a Tribunal and 2 months after the conclusion of such proceedings, or (iii) during any period in which a settlement or award is in operation, in respect of any of the matters covered by the settlement or award.

The Act was amended once in 1953 and twice in 1956. It now provides that no workman, who has been in continuous employment for more than a year, shall be retrenched unless he has been given a month's notice or wages in lieu thereof and also compensation calculated at the rate of 15 days' average pay for every completed year of service. If a workman who has put in more than a year's continuous service is laid off, he is required to be paid compensation which should be equal to 50 per cent. of the total of basic wages and dearness allowance for a maximum of 45 days in a year unless periods of lay-off after the first 45 days are of the duration of one week or more on each occasion.

According to a decision of the Supreme Court in November 1956 on retrenchment compensation; workers cannot, under the Act, claim compensation for retrenchment in case of bona fide closure of business or termination of their services by the employer on the business being sold to another employer.

The definition of the term "workman" has been extended to cover technical personnel and supervisory staff drawing upto Rs. 500 per month.

The machinery for adjudication of disputes has been recast and a three-tier machinery consisting of National Tribunals, Industrial Tribunals and Labour Courts is brought into being. Functions of these tribunals are demarcated and the importance of the dispute will determine which tribunal should adjudicate upon it. The tribunals are authorised to appoint experts having special knowledge as assessors to advise them. Schedules covering subjects which should go before each tribunal are attached to the Act.

Every employer who proposes to effect any change in the conditions of service of his workmen in respect of wages, hours of work, rationalisation; shift-working, increase or reduction in complement, etc. is required to give 3 weeks' prior notice to the workmen concerned.

The Act also provides for voluntary reference of disputes to arbitration by agreement between the employer and the workmen. Such a reference may be made to the Tribunals constituted under the Act.

All State Acts relating to the settlement or adjudication of disputes are expressly saved and the Industrial Disputes Act will not override them.

STATISTICS

The following table sets out the number of disputes in some of the years since 1947, the number of persons affected by these disputes and the total time lost in man-days :

Year	Number of disputes	Number of workpeople involved	Number of man-days lost
1947 ..	1,811	1,840,784	16,562,666
1948 ..	1,259	1,059,120	7,837,173
1949 ..	920	685,457	6,600,595
1950 ..	814	719,883	12,806,704
1951 ..	1,071	691,321	3,818,928
1952 ..	963	809,242	3,336,961
1953 ..	772	466,607	3,382,608
1954 ..	840	477,138	3,372,630
1955 ..	1,166	527,767	5,697,848
1956 ..	1,203	715,130	6,992,040

An analysis of the disputes for the year 1956 by States is given in the following table :—

State*	No. of disputes	No. of workers involved	No. of man-days lost
Andhra ..	34	25,214	86,632
Assam ..	20	7,417	55,678
Bihar ..	89	40,437	509,159
Bombay ..	296	244,141	702,296
Madhya Pradesh ..	26	40,143	1,275,350
Madras ..	212	82,726	461,072
Orissa ..	6	3,653	13,277
Punjab ..	36	9,718	57,819
Uttar Pradesh ..	144	45,274	328,789
West Bengal	241	200,078	3,452,644
Ajmer ..	2	76	4,376
Delhi ..	97	16,253	44,948
Total ..	1,203	715,130	6,992,040

Classification of the disputes by causes shows that wages, allowances and bonus involved 36·1 per cent of the workers and 31·9 per cent of the man-days lost ; personnel, 23·0 per cent workers and 14·4 per cent of man-days ; leave and hours of work, 5·4 per cent workers and 2 per cent man-days ; retrenchment, 10·1 per cent workers and 4·8 per cent man-days ; others 18·9 per cent workers and 37·3 per cent man-days ; not known 6·5 per cent workers and 4 per cent man-days.

Statistics presented in this section relate to industrial disputes which have resulted in work-stoppages involving 10 or more workers.

APPELLATE TRIBUNAL ACT, 1950

The divergent and sometimes conflicting decisions given by the various Tribunals set up in different States under the Industrial Disputes Act, 1947 created serious anomalies leading to discontent and bitterness among parties to industrial disputes. To meet this situation the Government of India enacted the Industrial Disputes (Appellate Tribunal) Act, 1950 to enable them to set up a Labour Appellate Tribunal which would hear appeals from awards or decisions of Industrial Tribunals, Industrial Courts, Wage Boards, and other statutory bodies set up by the Central or State Governments to adjudicate on industrial disputes.

The Appellate Tribunal consists of a Chairman and such number of other members as the Government may, from time to time, think fit to appoint. The Chairman is authorised to constitute as many benches of the Appellate Tribunal as he may consider necessary. Each bench is to consist of not less than two members, one of whom is to be appointed as the President. Four benches of the Tribunal are functioning at Calcutta, Bombay, Lucknow and Madras.

The Appellate Tribunal is empowered to hear appeals from any award or decision of an adjudicating authority if (*i*) the appeal involves any substantial question of law, or (*ii*) the award or decision relates to wages, bonus or travelling allowance, employers' contribution to any pension or provident fund, gratuity payable on discharge, classification by grades, retrenchment and any other matter which may be prescribed by rules made under the Act.

During the period of 30 days allowed for filing the appeal or during the pendency of an appeal no employer shall alter the conditions of service to the prejudice of the workmen concerned nor shall he discharge or punish any such workman without obtaining the written permission of the Appellate Tribunal.

The Industrial Disputes (Appellate Tribunal) Act, 1950 has been repealed by the Industrial Disputes (Amendment and Miscellaneous Provisions) Act, 1956 with effect from 1st September 1956. After that date no appeals were to be entertained. Pending appeals were however, to be disposed of by the Appellate Tribunal as if the Act had not been repealed.

On 30th June 1956 the number of appeals pending with the Labour Appellate Tribunal was 593 of which no less than 145 were more than one year old.

The headquarters of the Tribunal are now in Bombay.

RECENT COLLECTIVE AGREEMENTS

Some recent examples of collective agreements are given below.

The Ahmedabad Millowners' Association and the Textile Labour Association signed two collective agreements on 27th June 1955. The first Agreement provides that disputes between a member-mill of the Association and the Trade Union shall be settled by mutual negotiations and if negotiations fail by arbitration. This agreement is to be in force till 30th Dec. 1957.

The second Agreement lays down the formula for grant of bonus.

The Bombay Millowners' Association and the Rashtriya Mill Mazdoor Sangh, Bombay have also reached a similar agreement. The Bonus Agreement which was signed on 1st March 1956, is to cover the period 1952 to 1957. The pact provides for the appointment of a Commission to investigate into the requirements of industry for rehabilitation and modernisation. Finally and though this does not form a part of the Agreement, the Association has agreed to pay a sum of Rs. 50 lakhs towards industrial housing which will enable 4,000 tenements to be built.

The machinery for settlement of disputes, an agreement regarding which was signed between the parties on 18th September 1956 consists of a Committee of Assessors and a Board of Arbitrators.

There is a tendency for these agreements to be copied with appropriate changes in other centres in India.

The agreement between the Tata Iron and Steel Co. Ltd. and the Tata Workers Union reached on 8th January 1956, is to remain in force for 3 years. The most distinctive feature of the agreement is that it provides, *inter alia*, for union security, workers' participation in management and recognition of the union as the sole bargaining agent.

The Company accepts the principle of union membership security system and the collection of union dues through the pay-roll. The Union recognises the right of the Company to take disciplinary action and lay down personnel policies.

With a view to the improvement of productivity, the parties agree on the need for establishment of a standard force in each department, on the assurance that no employee will be retrenched and that if they are transferred to other jobs after training their earnings will not be adversely affected.

The agreement stipulates that a programme of job evaluation should jointly be undertaken in order to eliminate inequities in the structure of wages and other emoluments.

In a supplementary agreement reached on 4th August 1956 machinery has been devised to associate works employees with Management in the working of the industry.

A five-year Agreement between the Indian Aluminium Company Limited, Calcutta and its workers represented by the Indian Aluminium Belur Works Employees Union was reached on the 31st August 1956.

The most significant part of the Agreement is that dealing with bonus.

WORKING JOURNALISTS' ACT

(*See under article on the Press*)

THE EMPLOYEES' PROVIDENT FUNDS ACT, 1952

The Act was enacted to provide for the institution of provident funds for employees in factories and other establishments. It applies to factories employing fifty or more persons in the cement, cigarettes, electrical, mechanical or general engineering products, iron and steel, textiles (made wholly or in part of cotton, wool, jute or silk whether natural or artificial) industries.

The Scheme framed under the Act requires the employer and the employee to contribute at the rate of 6¼ per cent of the basic wages and the dearness allowance. The Scheme which was enforced on 1st November 1952 applies to employees whose basic pay does not exceed Rs. 300 per month.

The Act does not apply to any factory belonging to the Government or a local authority and any other factory established before or after 1st November 1952 unless three years have elapsed since its establishment. The Central Government is also empowered to exempt any class of factories having regard to the financial position or other circumstances of the case by a notification in the Official Gazette.

The Scheme provides for prompt settlement of claims in case of retirement, migration, death or other circumstances. Withdrawals from the Fund are permitted subject to fulfilment of certain conditions, for payment towards a policy of life insurance.

The Scheme is administered by a Central Board of Trustees which is tripartite in character. The Central Provident Fund Commissioner is the Chief Executive Officer and is assisted by Regional Commissioners for different regions. The Act aims at the decentralisation of the administration of the Scheme by setting up State Boards with the State Commissioners as Chief Executive Officers.

Section 17 of the Act empowers the appropriate Government to exempt from the operation of all or any of the provisions of the scheme factories which provide provident fund benefits which are equal to the benefits provided under the Act ; or factories where the employees are in enjoyment of benefits in the nature of provident fund, pension or gratuity which the appropriate Government considers are, on the whole, not less favourable to such employees than the benefits provided under the Act.

The opening balance of the employees' provident fund on 1st April 1957 was Rs. 28·54 crores. A sum of Rs. 1·36 crores was spent during 1956-57. Of this refunds to members amounted to Rs. 1·16 crores and administration expenses to Rs. 0·20 crores.

The Scheme which was enforced on 1st November 1952 originally applied to all employees whose basic pay did not exceed Rs. 300 per month.

Since July 1957 however, the limit of eligibility to the membership of the Fund has been raised to Rs. 500 per month inclusive of dearness allowance and cost value of food concessions.

* States existing before reorganisation in Nov. 1956.

With effect from 31st July 1956, the Act and the Scheme were applied to the factory industries of edible oils and fats, sugar, rubber and rubber products, electricity (including generation, transmission, distribution), tea, printing, stone-ware pipes, sanitary wares, electrical porcelain insulators, refractories, tiles and match and sheet glass factories. With this extension about 4 lakhs of additional workers in approximately 1,400 factories are estimated to get provident fund benefits and their monthly contribution together with the employers' share will be about 32 lakhs.

By a notification dated 3rd September 1956 the scheme was extended to four more industries viz. (1) Heavy and Fine Chemicals, (2) Indigo, (3) Lac including Shellac, (4) Non-edible Vegetable and Animal Oils and Fats. Approximately 54,000 workers in about 200 factories would be covered as a result of this extension.

In February 1957 it was decided to extend the operation of the Act to cover plantation workers in plantations employing 50 or more. This was to be effective in May 1957.

From May 1957 the provisions of the Act were further extended to tea, coffee, cardamom and pepper plantations covering an additional 3·6 lakh workers.

The Act was again extended from 31st July 1957 to the gas industry and 3,600 more workers were covered.

At the end of 1955, the Act covered about 2,146 factories of which 522 factories had been permitted to run their own schemes of provident fund. The total number of subscribers to the Fund as on 31st January 1956 was 14·55 lakhs of whom 9·15 lakhs were in exempted factories.

The total collection of subscriptions till the end of November 1957 was about 73 crores.

To supervise the administration of the scheme, the Central Government constituted six Regional Committees in the States* of Bombay, Bihar, Madras, Madhya Bharat, Uttar Pradesh and West Bengal.

Provident fund for workers in the coal industry was introduced by an Ordinance, namely, the Coal Mines Provident Fund and Bonus Schemes Ordinance, promulgated in December 1948. The Ordinance was later repealed by an Act which authorised the Central Government to frame a scheme for bonus and another for provident fund in coal mines. The scheme applies to the coal mines, in Bihar, West Bengal, Orissa, the former Madhya Pradesh, the former Vindhya Pradesh, Assam, Rajasthan and the former Hyderabad. The rate of contribution is one anna per rupee of the total of basic wages, dearness allowance and value of food concessions in cash or in kind. An equal contribution is paid by the employer. About 3·5 lakhs of workers are members of the Fund. In the middle of 1956, the provisions relating to forfeiture of employer's contribution to the provident fund were liberalised. The employer's contribution will now not be forfeited in the case of members who retire after reaching the age of 50 years though they have not completed 5 years service as members. The proportion of forfeiture of employer's contribution for varying periods of service has also been reduced. There will be no forfeiture at all in the case of employees who have been members of the fund for 15 years or more.

The Coal Mines Provident Fund Scheme had at the end of 1957 a membership of about 3·3 lakhs and the accumulation was Rs. 11 crores.

TEA DISTRICTS EMIGRANT LABOUR ACT

The Tea Districts Emigrant Labour Act, 1932, was brought into effect from the 1st of October 1933.

State Governments are empowered, subject to the control of the Government of India to impose control over the forwarding of assisted emigrants (chapter III) or over both their recruitment and their forwarding as occasion may dictate (chapters III and IV).

The forwarding of recruits to Assam must be made through the prescribed routes where arrangements for feeding, rest and medical treatment have been made and by authorised forwarding agents. It is made unlawful to assist persons under 16 to migrate unless they are accompanied by their parents or guardians. A married woman who is living with her husband may only be assisted to emigrate with the consent of the husband.

Repatriation.—It is provided that where an employer fails to make all the necessary arrangements for the repatriation of a worker within fifteen days from the date on which a right of repatriation arises to an emigrant labourer, the Controller may direct the employer to despatch such labourer and his family or to pay him such compensation as may be prescribed within such period as the Controller may fix (sections 13 and 15).

Section 3 of the Act makes provision for the appointment of a Controller of Emigrant Labour with some staff and possibly one or more Deputy Controllers for supervising the general administration of the system which the Act seeks to establish. The charges for this establishment are to be met from an annual cess called the Emigrants Labour Cess which is to be levied at such rate not exceeding Rs. 9 per emigrant as the Central Government may determine for each year of levy.

The cess is collected by the Controller by the sale of certificates of emigration. Every assisted emigrant has to be provided by the employing interest on whose behalf he was recruited with such a certificate. All particulars about the emigrant together with a running record of the details of his employment in Assam are given on it. Failure to provide a certificate is punishable with a fine which may extend to Rs. 500. The rate of the cess is fixed at Rs. 5.

According to the statistics collected under the Act the labour force in Assam in 1954 consisted of 349,982 adults and 336,689 children.

The number of new emigrants dropped from 38,593 in 1952 to 3,881 in 1953 and to 534 in 1954. The acute fall since 1953 is due to the request made to employers by the Government of Assam not to recruit labour from outside the State but to meet their requirements by transfer of labour from gardens having surplus workers.

The number of emigrants repatriated and of those who postponed their right to repatriation during the year 1954 was 17,641 and 19,960 respectively.

SHOPS AND COMMERCIAL ESTABLISHMENTS ACTS

Subject to certain exceptions the Acts apply to shops, commercial establishments, restaurants and places of amusement in certain selected urban centres. Some employees such as those employed in a confidential capacity and those whose work is of an intermittent character are excluded from the scope of the Acts.

The Bombay, Madhya Pradesh and Assam Acts have fixed daily hours of work at nine. In the U.P. and Madras Acts the daily hours are eight while in the West Bengal and the Punjab Acts a ten-hour day has been prescribed. Rest intervals, of half an hour are prescribed in the West Bengal, U.P. and the Punjab Acts while an hour's interval has been granted in the Assam, Bombay, U.P. and Madras Acts. Opening and closing hours have also been fixed by the Acts. The Assam and West Bengal Acts, however, prescribe only closing hours. Most of the Acts also fix the maximum overtime work that can be taken from the employees. In some cases slightly different hours of work have been fixed for employees of commercial establishments, restaurants and places of amusement.

Provision has been made in all the Acts for weekly closure of shops and establishments although in some Acts, for example the Bombay and Assam Acts, theatres, hotels, etc. are exempted from this provision. In addition to the weekly holiday, provision for privilege leave of 12 to 15 days in a year has been made in all the Acts. The Assam, West Bengal, Madras and U.P. Acts make further provision for casual leave and sick leave of 10 to 12 days and 12 to 30 days respectively.

All the Acts, except the Bengal Act, have made provision for the regulation of employment of children and young persons. The minimum age for the employment of children in the Assam, and Madhya Pradesh Acts is 12 while in the Madras and U.P. Acts it is 14. The hours of work for children and young persons are 7 per day in the Punjab, Madras and Madhya Pradesh Acts and 6 in the Bombay and U.P. Acts. Children cannot work after 7 p.m. according to the Bombay, Madras and the Punjab Acts and after 9 p.m. according to the Madhya Pradesh Act.

The Bombay Act empowers the Government to apply the provisions of the Payment of Wages Act to establishments covered by the Shops and Commercial Establishments Act. By a notification issued under Section 38(1) of the Bombay Shops and Establishments Act, 1948, the Government of Bombay made the Payment of Wages Act applicable to all establishments in the local areas of Greater Bombay, Ahmedabad, Poona, Sholapur, Surat, Belgaum ‡, Hubli ‡, Kolhapur and Baroda Cities.

By the Madras and U.P. Acts the wage period should not exceed one month and by the Punjab Act it should not exceed a fortnight. The Assam Act fixes the wage period at one month. After they become due wages should be paid within 10 days in Assam and West Bengal, 7 days in U.P. and 5 days in Madras. In the area covered by the former† Punjab wages should be paid on demand at the expiry of the wage period. Overtime wages are payable at twice the ordinary rates in Madras, U.P. and the Punjab, at one and a half times in Bombay and the area covered by the former† Madhya Pradesh and at one and a quarter times the ordinary rate in West Bengal. Hotels, restaurants and other eating places in Bombay are, however, required to pay overtime wages at twice the ordinary rate. Fines and deductions are regulated under the Madras and U.P. Acts.

One month's previous notice or one month's wages in lieu of notice before discharge is stipulated in the Acts of U.P., Punjab, Madras and Madhya Pradesh. The Bombay Act provides for only 14 days' notice or pay in lieu thereof. The Madras and Bombay Acts make provisions relating to cleanliness, ventilation, lighting and precautions against fire in establishments covered by the Acts.

Delhi, Bihar, Ajmer and Saurashtra (former States)† passed similar legislation.

The total number of establishments covered by the various State Acts and the persons employed therein were 917,392 and 1,149,423 respectively during the year 1955.

The Weekly Holidays Act, 1942 provides for a weekly closure of shops and for the grant of a weekly holiday to employees. The Act has been in force in the areas of the former Bihar, Ajmer, Coorg, Orissa, Rajasthan, Vindhya Pradesh and Hyderabad States.

INDUSTRIAL EMPLOYMENT (STANDING ORDERS) ACT, 1946

The Industrial Employment (Standing Orders) Act, 1946 which applies to industrial establishments employing 100 or more workers provides for the framing of Standing Orders laying down the conditions of employment of workers employed in the establishments.

The Act extends to the whole of India except the State of Jammu and Kashmir, and is administered both by the Central and State Governments.

* Pre-reorganization. † That is, before the reorganization in Nov. 1956. ‡ Now in Mysore.

So far as the Central Government is concerned it is responsible for administering the Act on railways, major ports, mines, oil-fields and other establishments under its control. Both the Central and the State Governments have been empowered to extend the scope of the Act to establishments in any industry employing less than 100 workers or to any other class or classes of establishments or to exempt any establishment from any of the provisions of the Act.

In exercise of these powers the Government of Uttar Pradesh has extended the Act to all establishments which are members of the Employers' Association of Northern India and the U.P. Oil Millowners' Association and to the glass industry, electricity supply undertakings and water works.

The Government of Assam has extended the Act to all industrial establishments employing 10 or more workers excepting mines, quarries, oil-fields and railways.

In January 1952 the Government of West Bengal extended the Act to all industrial establishments employing 50 or more workers.

In December 1955 by an amendment of the Act the Government of Bombay made the Act applicable to establishments employing 50 or more workers and provided that so long as a set of Standing Orders has not been certified for an industrial establishment the Model Standing Orders framed under the Act will apply.

Till the end of the year 1955, 3,991 establishments had certified Standing Orders in the then Part A States, 589 in the then Part B States and 128 in the then Part C States.

The total number of employees covered was 20,45,000.

Besides these figures there were 857 Central Undertakings with 3,87,000 employees which had certified Standing Orders.

COLLECTION OF STATISTICS ACT, 1953

This Act which replaces and embodies the main provisions of the Industrial Statistics Act is designed to facilitate the collection of statistics of certain kinds relating to industries, trade and commerce. It empowers the Central and the State Governments to direct that statistics shall be collected about—

(*a*) any matter relating to any industry or class of industries,

(*b*) any matter relating to any commercial or industrial concern or class of commercial or industrial concerns and in particular any matter relating to factories, and

(*c*) any of the following matters, so far as they relate to the welfare of labour and the conditions of labour, namely, (1) price of commodities, (2) attendance, (3) living conditions including housing, water supply and sanitation, (4) indebtedness, (5) rents of dwelling houses, (6) wages and other earnings, (7) provident fund and other funds, (8) benefits and amenities provided for labour, (9) hours of work, (10) employment and unemployment, (11) industrial and labour disputes, (12) labour turnover, and (13) trade unions.

The Central or State Government can appoint an officer to be the Statistics Authority for the purpose of collecting any statistics and such authority has the power to call upon the owner of an industrial or commercial concern to furnish the necessary information. He has also the right of access to any relevant records or documents in the possession of any person required to furnish the information and can enter any premises where he believes such records or documents are kept for the purpose of inspecting them or taking copies. The Act prescribes penalties for improper disclosure of information or returns or for wilfully furnishing false information.

WAGES

No serial statistics of wages and earnings are available in India except for those compiled under the Payment of Wages Act. The returns under the Act, however, relate only to persons in receipt of wages and salaries of Rs. 200 per month.

AVERAGE ANNUAL EARNINGS OF FACTORY EMPLOYEES DRAWING LESS THAN Rs. 200 PER MONTH.

(Excludes railway workshops, the groups of food, beverages, tobacco, gins and presses.)

State (before reorganization)	1939	1953	1954	1955
	Rs.	Rs.	Rs.	Rs.
Andhra	—	728·4	664·0	610·4
Assam	203·7	1,264·5	1,231·4	1,325·4
Bihar	415·5	1,472·6	1,150·0	1,387·9
Bombay	370·4	1,330·2	1,273·1	1,325 6
Madhya Pradesh	—	939·3	966·5	998·3
Madras	175·9	821·0	822·0	1,014 7
Orissa	161·8	873·9	894·9	899·2
Punjab	296·0	890·5	1,047·6	975·7
Uttar Pradesh	235·6	1,054·0	997·0	999 5
West Bengal	248·7	973·0	1,057·4	1,110 6
Ajmer	163·7	605·1	643·6	962·6
Coorg	—	513·5	559·4	637·0
Delhi	309·4	1,279·6	1,319 5	1,345·3

The tabular statement below shows the basic wages and earnings of important categories of industrial workers in India.

STATEMENT SHOWING THE BASIC MINIMUM WAGE, DEARNESS ALLOWANCE AND THE MINIMUM MONTHLY EARNINGS OF WORKERS IN DIFFERENT INDUSTRIES.

Industry	Centre	Minimum basic wage	Minimum dearness allowance	Minimum monthly earnings
		Rs. a. p.	Rs. a. p.	Rs. a. p.
Cotton*	Bombay City	30 0 0	71 5 0	101 5 0
	Ahmedabad	28 0 0	63 13 6	91 13 6
	Sholapur	26 0 0	56 5 4	82 5 4
	Baroda	26 0 0	57 7 4	83 7 4
	Indore	26 0 0	46 2 0	76 2 0
	Nagpur	26 0 0	47 2 0	73 2 0
	Madras	26 0 0	48 0 0	74 0 0
	Kanpur	30 0 0	49 11 0	79 11 0
	West Bengal	20 2 5	30 0 0	50 2 5
Jute†	West Bengal	26 0 0	37 6 0	63 6 0
Engineering†	West Bengal	30 0 0	25 0 0	55 0 0
Dockyards††	Bombay	30 0 0	40 0 0	70 0 0
	Calcutta	30 0 0	31 0 0	61 0 0

The most important wage revision during the year 1956 was in the collieries. By an award of the All-India Industrial Tribunal (Colliery Disputes) which was published on the 26th May 1956 and which came into force from that date, the minimum daily wages of the lowest category of male and female workers were fixed as under:

	Male Workers	Female Workers
	Rs. a. p.	Rs. a. p.
Basic wages	0 15 0	0 11 3
Dearness Allowance (150 per cent)	1 6 6	1 0 11
	2 5 6	1 12 2

Inclusive of the statutory bonus, the minimum wage will be Rs. 2-10-6 for male and Rs. 1-15-11 for female workers. Those working underground will get an allowance of 12½ per cent of basic wages.

* June 1956. † December 1955. †† September 1955.

The Chief Inspector of Mines in his Monthly Coal Bulletin publishes figures of average weekly earnings of certain categories of workers in different coalfields. The position in Dec. 1955 (the latest available information) is given in the table below:

AVERAGE WEEKLY EARNINGS IN COAL MINES.*
(December, 1955).

Category	Assam	Raniganj	Jharia	Madhya Pradesh	Rewa	Orissa	Hyderabad	Rajasthan	Indian Union
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
Underground—									
Miners and Loaders	18 6 1	13 1 3	14 8 0	12 9 7	12 14 3	11 11 6	14 14 4	11 9 4	13 12 7
Open Workings—									
Miners and Loaders	11 3 6	14 0 2	12 5 1	10 8 3	6 15 7	..	..	..	12 6 9
Surface—									
Men	14 7 6	12 13 8	12 11 8	11 9 0	10 6 9	13 11 6	15 4 3	9 12 1	12 12 5
Women	8 10 9	7 15 6	8 5 5	6 0 1	5 15 6	7 0 6	8 9 4	5 6 7	7 15 7
OVERALL	16 5 0	12 6 8	12 11 11	10 14 7	10 7 9	12 12 1	14 2 7	9 9 3	12 7 8

* The States existing before the reorganization in November 1956.

Employees of about 228 plantation estates in the districts of the Nilgiris, Ma'abar, Coimbatore, Salem, Madural and Tirunelveli have been awarded revised scales of pay and dearness allowance by the Industrial Tribunal for plantations. It has fixed the rate for first and second grade workers at Rs. 2-4-0 and Rs. 1-12-0 respectively while a child worker will get Re. 1 per day. This revision is to be given, according to the decision, retrospective effect from 24th March 1952.

It has been mentioned elsewhere that by a collective agreement employees of the Tata Iron and Steel Co. Ltd., Jamshedpur have been given an increase in wages.

DEARNESS ALLOWANCE

The scale of the allowance varies not only from centre to centre and industry to industry, but also, except where these matters are adjudicated upon, from unit to unit in the same industry at the same centre.

In coal mines dearness allowance is paid on the basis of a percentage of basic wages. In Bihar and Bengal the dearness allowance is 150 per cent of basic wages for those earning up to Rs. 30 per month.

In the engineering industry in West Bengal dearness allowance is graded according to income and ranges from Rs. 25 per month in the case of those getting basic wages up to Rs. 50 per month to Rs. 50 for those getting more than Rs. 200.

In Bombay some concerns pay at a flat rate and others on a graded scale. Several Adjudicators have granted dearness allowance either at the Bombay Millowners' Association scale which was Rs. 70-8-0 in August 1956, or at a percentage, varying from 66⅔ per cent to 85 per cent, of that scale. The rate of dearness allowance payable to Bombay City cotton mill workers itself was increased by a decision of the Labour Appellate Tribunal by 5 per cent when the Bombay Cost of living Index Number is between 325 and 335; by 7½ per cent when it is between 336 and 350; and by 10 per cent when it is above 350. The enhanced rate was given retrospective effect from May 1953; the average dearness allowance for a month of 26 working days now comes to Rs. 71-11-0 for 1954 and Rs. 64-12-0 for 1955.

In Madras the rate varies from 8 annas to Re. 1-9-6 per day and in a number of concerns it is paid at a flat rate of Rs. 25 per month. In the tanneries and leather goods industry dearness allowance paid is around Rs. 25 per month in West Bengal and Madras, about Rs. 30 in Bombay and between Rs. 40 and 60 in Kanpur.

The Committee on Fair Wages appointed by the Government of India examined the question of dearness allowance and came to the conclusion that for the lowest categories of employees the target should obviously be compensation to the extent of 100 per cent of the increase in the cost of living, but that in the case of higher categories a lower rate of compensation should apply and that the amount of compensation should be based on salary scales or slabs.

BONUS

As in the case of dearness allowance the practice in regard to the quantum of profit bonus varies from centre to centre and industry to industry.

In Bombay City and Ahmedabad the cotton mill workers received for the year 1951 a bonus equivalent to 25 per cent of basic wages earned. In 1952 the cotton textile workers of Bombay got 20 per cent of their wages as bonus. In Madura cotton mills workers received 3 months' basic wages.

A five-year agreement to settle the problem of bonus for about 250,000 textile workers in Bombay City was entered into on 1st March, 1956 between the Bombay Millowners' Association and the Rashtriya Mill Mazdoor Sangh. The agreement will assure the workers of both profit and non-profit making mills a bonus ranging from 15 days to 3 months basic wages for every year of service for 5 years from 1953 to 1957 both years inclusive. The quantum of bonus will be decided by the profit made by each unit. Mills whose bonus disputes for 1952 were pending before the courts were also covered by the agreement for that year. There were 20 of these employing about a third of the textile labour.

Subsequently, it was calculated that about 250,000 textile workers in 56 mills would receive by the end of 1956 about Rs. 6 crores as bonus for the first three years of the agreement starting from 1953.

For the year 1955 the workers received as bonus an amount of about Rs. 2·5 crores which was paid at the time of the Divali festival in 1956. As many as 21 mills paid their workers bonus equivalent to 3 months' basic wages.

The Millowners' Association also agreed to contribute Rs. 50 lakhs during the five years 1956 to 1961 towards housing schemes which the State Government might undertake for industrial workers. It is estimated that this might finance the construction of 4,000 tenements.

The Textile Labour Association and the Ahmedabad Millowners' Association have also entered into an agreement laying down a procedure for the grant of bonus. This agreement applies to all member mills of the Association in Ahmedabad, in respect of bonus claims for the years 1953 to 1957.

Claims are to be determined on the basis of published balance sheets and profit and loss accounts for the year adopted by each mill company. It is provided that a claim for bonus would only arise if there is an available surplus of profit after making provision for all the prior charges including a return on paid-up capital and on reserves employed as working capital in accordance with the formula laid down by the Full Bench of the Labour Appellate Tribunal. In no case will a mill pay to its workers by way of bonus less than 4·8 per cent. or more than 25 per cent of the basic wages earned during the year. If in any year the mill has an available surplus of profit which according to the Full Bench formula is adequate for granting bonus at a higher quantum than the ceiling of 25 per cent of basic wages, then such a mill will be deemed to have set aside a part of the residue not exceeding 25 per cent to a reserve for bonus for purpose of adjustment in subsequent years, provided, however, that such amount shall at no time exceed an amount equivalent to 25 per cent of basic wages. On the other hand, a mill whose profit is not adequate to provide for any prior charges or has suffered a loss and which will, in any case, be required to pay the minimum bonus of 4·8 per cent. of the basic wages will be entitled to set off the amount so paid against the amount of bonus payable in subsequent years.

Though under the provisions of the Bombay Industrial Relations Act, the parties are free to terminate the agreement after a period of one year, the parties to the bonus agreement have agreed not to exercise the right of termination of the agreement for a period of five years.

The amount of bonus for the year 1955 distributed to the workers before the Divali festival in 1956 totalled Rs. 1·2 crores.

No bonus has so far been paid in the jute mill industry in West Bengal.

By an agreement with the Workers' Union the Madura Mills, Madurai paid their 24,000 workers bonus equal to Rs. 35 lakhs for the financial year 1955. The bonus was distributed in April 1956.

The dispute regarding bonus for the year 1955 to the textile workers of Coimbatore was decided by a board of arbitrators representing employers and labour with the District Judge as Chairman. As a result of the decision, employers of 44 mills were required to pay varying amounts of bonus to their workers before Divali. Two mills which incurred losses were exempted. As many as 23,000 workers in 21 mills got bonus equal to 5 months' basic wages.

The dockyards in West Bengal generally pay an annual bonus amounting to a month's wages. Some of the dockyards in Bombay pay two months' wages as bonus.

The Tata Iron and Steel Co. at Jamshedpur pay a good attendance bonus amounting to 10 to 12 per cent of basic wages and a performance bonus of 10 to 50 per cent of basic wages is also given to workers. To the latter, however, only skilled and semi-skilled workers are entitled. Under the Company's revised Profit Sharing Scheme, the employees are entitled to a share of 27½ per cent of the annual net profit of the company and such share is credited to and/or distributed among the employees of the company in proportion to the basic salaries and wages earned or deemed to be earned by such employees respectively during the year in which such net profits were earned by the Company. In 1951-52 this bonus amounted to 3 months and 8 days wages. The Indian Iron and Steel Company pays bonus at the rate of 2 days' wages for every one per cent dividend declared by the Company.

The Board of Conciliation appointed for the coal-mining industry recommended the grant of an annual bonus equal to four months' basic wages, split into two parts. An attendance bonus of two months' basic wages to those fulfilling specified minimum attendance requirements, and a production bonus related to output and basic earnings and subject to their qualifying for it on the basis of a minimum attendance of 66 days per quarter in the case of surface workers and 54 days per quarter in the case of underground workers in the case of collieries in Bihar and West Bengal. Bonus on the above basis is also to be paid, according to the Fact-Finding Committee's recommendations subject to a minimum attendance of 60 and 65 days in a quarter in the case of underground and surface workers respectively in Madhya Pradesh, Andhra and Orissa collieries. In Assam, the existing rate of bonus has been raised by fifty per cent so as to raise the amount of bonus earned to a sum equal to four months' wages per year.

An agreement between the representative of the Indian Tea Association and the workers' representatives regarding bonus for the years 1953, 1954, 1955 and 1956 was reached on 7th January 1956. According to the agreement the claims for 1953 and 1954 will be met by lump sum payments to male and female adult workers who have completed at least 240 and 175 days of work in the year 1954. The payments are Rs. 130 for the Assam and Doars Zones, Rs. 100 for Terai, Rs. 65 for Tripura and Cachar and Rs. 55 for Darjeeling. Workers who have not put in the requisite number of days will receive *pro rata* bonus. It was also agreed that the figures for bonus laid down for 1953 and 1954 will be the base upon which entitlement of bonus for 1955 and 1956 shall be calculated.

The demand for bonus made by the Sindri Fertilizer Factory was not conceded, but the Government decided to give on an *ad hoc* basis a sum of Rs. 16 lakhs, partly in cash and partly in the form of special amenities.

PAY STRUCTURE

As for wages, allowing for minor differences and considering the major industries and the important centres it can be stated that in the jute industry in West Bengal and in the plantations the wages are generally paid weekly. The system of wage payment in the cotton textile industry in Bombay City and Sholapur is monthly. A peculiarity of Ahmedabad is that the wages are paid per *hapta* which varies from 14 to 16 days. The month is the accepted wage period for the railways. In some concerns wages are paid daily to certain types of workers, weekly to others, fortnightly to yet others and monthly generally to the clerical and supervisory staff.

Mining labour is mostly paid on a weekly basis.

A study was recently made by the Labour Bureau of the Government of India of the wage periods in factories covering about 7¾ lakhs workers in the former Part 'A' States of Andhra, Bihar, Bombay, Madhya Pradesh, Madras and the Punjab where the total employment is over 14 lakhs; about ¼ lakh of workers in Part 'B' States of Hyderabad, Saurashtra and PEPSU out of a total of 1¼ lakhs; and almost the entire employment of about ¼ lakh workers in Delhi, Ajmer, Bhopal and Coorg. The study showed that 81·2 per cent of the workers were paid monthly, 3·7 per cent fortnightly and 15·1 per cent weekly. In the textiles the percentage of monthly paid workers was as high as 95·7 per cent. The industries in which the proportion of weekly paid workers is higher than that of monthly paid workers were food (except beverages), tobacco, wood, cork and non-metallic mineral products.

The wage structure just before Independence was chaotic. Reform in this sphere was brought about through the agency of industrial tribunals, industrial courts, etc. As a result, not only was an increase in wages to conform with the rise in the cost of living granted but also a degree of rationalisation and standardisation was introduced in the wages schemes. The Planning Commission had advised that during the First Plan period an upward movement of wages should be discouraged in order to arrest inflationary tendencies, but wage increases should be allowed to remove anomalies and to restore the pre-war real wage as a first step towards a living wage. The table below shows the comparison between the real wages in 1939 and in the post-war years:

An interesting departure from normal practice was recently suggested by the Ministry of Labour.

The Union Ministry of Labour and Employment has recommended that all State-owned industrial undertakings should try to increase productivity by introducing the system of payment by results as recommended by the Planning Commission.

The Labour Ministry circulated a memorandum in November 1957 directing those Ministries of the Government of India employing industrial labour to investigate the possibilities of bipartite agreements at the unit level in all industrial undertakings under their control to give effect to this system of payment of wages.

The Planning Commission had recommended that in addition to a basic minimum wage, all extra earnings of the workers should be based on a piece-rate system to step up productivity.

The Commission added, however, that adequate measures should be taken to avoid fatigue and undue speed-up of production.

INDEX OF EARNINGS (1939 = 100)

Year	All India Consumer Price Index	Factory workers		Miners	
		Index of earnings	Index of real earnings	Index of earnings	Index of real earnings
1946	285	208·6	73·2	250·7	88·0
1947	323	253·2	78·4	342·8	106·1
1948	360	304·0	84·4	361·8	100·5
1949	371	340·3	91·7	376·2	101·4
1950	371	334·2	90·1	391·9	105·6
1951	387	356·8	92·2	413·0	106·7
1952	379	385·5	101·8	436·9	115·3
1953	385	384·6	99·9	437·4	113·6
1954	371	381·2	102·7	441·9	119·1

According to a decision of the Bombay Industrial Court delivered on 29th Nov. 1956, textile workers in Bombay were to get gratuity upto a maximum of fifteen months basic wages if their services were to be terminated after 15 years' service.

The award was to have retrospective effect from 22nd Nov. 1954.

They would get this gratuity whether they were mentally or physically handicapped for further service or, voluntarily retired after 15 years' service.

The gratuity was to be calculated at the rate of one month's basic wages for every completed year, for the period before the coming into force of the Provident Fund Act, 1952, and half a month's basic wages for each completed year of service thereafter, subject to a maximum of 15 months' basic wages to be paid to them or their heirs or executors or nominees as the case might be.

A similar award was given by the Industrial court in respect of textile workers in Ahmedabad.

The gratuity scheme came into operation in Ahmedabad from 15th September 1957.

CENTRAL PAY COMMISSION

On 21st August 1957, the Government of India appointed a 6-member Commission of Enquiry under the Chairmanship of Mr. Justice B. Jagannath Das, Judge of the Supreme Court to examine the structure of emoluments and conditions of service of Central Government employees and recommend changes therein.

The Commission is required to recommend, in particular, the extent to which benefits could be given in the shape of amenities and facilities.

In making their recommendations, the Commission will take into account the historical background, the economic conditions and the implications and requirements of developmental planning, and the disparities in the standards of remuneration and conditions of service between the Central Government employees and employees of State Governments and local bodies.

A Central Wage Board for the Cotton Textile Industry has been appointed by the Government of India to evolve a wage structure based on the principles of fair wages as enunciated in the Fair Wages Committee Report.

The Board consists of two independent members, two representatives each of employers and workers with an independent Chairman.

In evolving the wage structure the Board will take into consideration the needs of the industry in a developing economy, the requirements of social justice and the need for adjusting wage differentials in such a manner as to provide incentives to workers for advancing their skill.

The Board will also bear in mind the desirability of extending the system of payment by results keeping in view the safeguards against overwork and undue speed.

There is also a similar Wage Board for the sugar industry.

HOURS OF WORK

The most important happening in regard to hours of work in factories was the reduction of the weekly hours of work for adults to 48.

Actually, in many industries in this country the hours of work were not in excess of 8 per day. In the coal-mines in Bihar and West Bengal the workers seldom work for more than five to six hours in the day or for more than four to five days in the week. According to a recent investigation the average weekly attendance of a coal-miner was 4·56 days. The cotton textile industry in almost all centres normally works a uniform 8-hour day.

In all cases where continuous production is necessary such as in electricity generating plants and certain water pumping stations, cement factories, etc., work is arranged on a system of three shifts—the different shifts changing over every week or fortnight. The change-over is so arranged that every workman gets a rest period of at least twenty-four continuous hours once in one week.

As far as railways are concerned, hours of work in railway workshops are regulated by the Indian Factories Act. Most of the larger running sheds have also recently been classified as factories and work in these large sheds is arranged on the basis of three shifts of 8 hours each. In the smaller sheds where work is of a fairly intermittent character, systems of two shifts of 12 hours each obtain but the work of the individual is so arranged as not to work each operative for more than 8 hours.

The question of hours of work of railway servants was one of the points submitted for adjudication to the late Justice Rajadhyaksha of the Bombay High Court who made the following recommendations:

The employment of railway servants under the Hours of Employment Regulations should be classified under any one of the following heads:

(i) Intensive.

(ii) Continuous.

(iii) Essentially Intermittent.

(iv) Excluded.

(i) The statutory limit of weekly hours for persons whose employment is classified as intensive should be fixed at 75 hours a week on the average in a month;

(ii) The statutory maximum limit for the employment of continuous workers should be fixed at 54 hours a week on the average in a month;

(iii) The statutory maximum for staff classified as essentially intermittent should be 75 hours a week; and

(iv) For excluded workers no statutory minimum limit can be prescribed but this should not absolve the Administrations of their responsibility on humanitarian grounds, of seeing that unreasonable conditions are not imposed. The Government of India accepted these recommendations and by an Order dated 15th June 1948 declared them binding for a period of three years. These regulations are still in force.

The Plantations Labour Act, 1951 has restricted hours of work to 54 per week for adults and 40 per week for children and adolescents.

COST OF LIVING

The Government of India has sponsored family budget inquiries—the enquiry was to start in November 1957—covering factory workers, miners and plantation labour with a view to compiling a new series of consumer price index numbers on a uniform basis.

It is stated that the existing series of consumer price index numbers are based on old and out-of-date inquiries and, therefore, do not reflect correctly the present cost of living of industrial workers.

The enquiry is undertaken by the Labour Bureau of the Central Government with the help of the National Sample Survey Organisation.

The Government has selected 50 industrial centres where the family budget inquiries are to be conducted on all-India basis.

Of them, 32 have factory workers, eight miners and ten plantation workers.

Centres with factory population include Jamshedpur, Bombay city, Ahmedabad, Madras, Kanpur, Calcutta, Howrah, Bangalore, Ernakulam, Ludhiana and Delhi.

Among the mining centres are Jharia, Nellore, Asansol, and Kolar Gold Fields.

The plantation centres include Doom Dooma (Assam), Coonoor, Darjeeling and Munnar (Kerala).

The cost of living indices now in use are based on enquiries conducted by the Government of India in consultation with State Governments during the War. This scheme which was started in 1942 was completed in 1946. Over 27,000 family budgets were collected in some 28 centres.

The indices were published regularly in the *Indian Labour Gazette*, the base being 1944 = 100.

At the completion of the enquiries now set on foot there will be a new basis.

INDEX FIGURES

Owing to the variations in the method of compilation of these indices, they are not strictly comparable, but the table below shows the movement of the working class cost of living index numbers in selected centres for the twelve months of the year 1956:—

(*Base shifted to August* 1949 = 100).

State (Pre-Reorganization).	Bombay				Uttar Pradesh	Madhya Pradesh	Madras	Travancore-Cochin		Mysore			Hyderabad
Town	Bombay	Ahmedabad	Sholapur	Jalgaon	Kanpur	Nagpur	Madras	Ernakulam	Trichur	Bangalore	Mysore	Kolar Gold Fields	Hyderabad City
Original base (= 100)	July, 1933 to June, 1934	August, 1926 to July, 1927	February, 1927 to January, 1928	August, 1939	August, 1939	August, 1939	July, 1935 to June, 1936	August, 1939	August, 1939	July, 1935 to June, 1936	July, 1935 to June, 1936	July, 1935 to June, 1936	August, 1943 to July, 1944
1956													
January	109	92	91	92	85	100	103	107	111	105	99	109	103
February	110	90	93	92	82	102	103	106	110	105	101	109	105
March	114	93	99	96	83	103	105	106	109	108	104	117	112
April	117	96	100	100	86	105	110	108	112	111	106	117	118
May	116	95	100	100	85	105	110	111	114	112	106	119	114
June	117	97	104	100	88	106	113	115	117	113	109	120	116
July	115	98	105	100	91	106	114	119	121	115	112	123	118
August	118	102	110	103	93	107	115	120	122	117	114	125	119
September	115	103	111	103	93	107	114	..	108	118	114	126	121
October	117	105	115	103	94	108	112	..	111	118	116	126	119
November	116	105	119	105	93	108	114	..	114	120	117	126	125
December	116	104	119	106	91	108	115	..	110	122	118	127	126

The cost of living index figures for some other centres from 1950 to 1956 are given below : with 1949 = 100 as base.

Year	Delhi	Ajmer	Jamshedpur	Jharia	Dehri-on-Sone	Monghyr	Cuttack	Berhampur	Gauhati	Silchar	Tinsukia	Ludhiana	Akola	Jabalpur	Kharagpur	Mercara	Madras Plantation Centres	Bhopal	Beawar	Satna
1950	100	104	105	114	109	113	111	105	98	106	104	101	96	101	100	..	112	..	..	..
1951	108	111	116	116	116	110	122	123	110	115	113	102	98	111	99	..	120	..	..	..
1952	108	108	112	110	111	101	109	101	111	102	116	92	93	99	97	..	110	101	99	..
1953	106	104	112	104	102	91	107	101	102	95	108	90	96	100	101	..	120	97	90	..
1954	105	91	102	82	85	78	100	101	95	93	103	90	89	93	93	100	104	91	83	86
1955	99	83	98	77	82	89	99	97	87	86	99	84	79	88	92	94	93	87	78	77
1956	109	95	106	87	95	88	106	108	96	99	110	92	94	100	102	104	102	98	91	91

The Original base for all these series is calendar year 1944 except as follows :

(i) Madras Plantation Centres—January to June 1949. (ii) Bhopal—Calendar year 1951. (iii) Beawar—August 1951 to July 1952. (iv) Satna—Calendar year 1953. The group House Rent is not included in the indices for Jharia, Mercara and Madras Plantation Centres. In all other centres, it is kept constant at 100.

The group fuel and lighting is not included in the index for Madras Plantation Centres as the priced items of this group have been included in the miscellaneous group.

STANDARD OF LIVING

The Bombay Labour Office carried out two family budget enquiries for working classes in Bombay City, one in 1921-22 and the other in 1932-33 and the results were published in the years 1923 and 1935 respectively. Similar enquiries were also conducted in Ahmedabad and Sholapur cities and the results of both these enquiries were published in the year 1928. In Madras, the Director of Industries published in 1938 the results of an inquiry into the family budgets of industrial workers in organized and unorganized industries in Madras City conducted under the direction of the Commissioner of Labour. A number of family budgets were also collected at Kanpur, Nagpur and Jabalpur with the object of compiling cost of living indices.

The statement below contains in a tabular form the main results of some of these surveys.

COMPOSITION OF THE FAMILY, THE AVERAGE MONTHLY INCOME AND EXPENDITURE AND THE ACTUAL AND PERCENTAGE DISTRIBUTION OF EXPENDITURE ON DIFFERENT IMPORTANT GROUPS

Centres (States before re-organization)	Average number of persons in the family	Average number of earners in the family	Average monthly income per family	Average monthly family expenditure on												Total family expenditure
				Food		Fuel and Lighting		House Rent		Clothing and Footwear		Bedding & Household Requisites		Miscellaneous		
				Actual	Percentage	Actual	Percentage	Actual	Percentage	Actual	Percentage	Actual	Percentage	Actual	Percentage	
			Rs. a. p.	Rs. a. p.		Rs. a. p.		Rs. a. p.		Rs. a. p.		Rs. a. p.		Rs. a. p.		Rs. a. p.
I. W. BENGAL—																
1. Calcutta ..	4·09	1·43	70 8 4	47 1 6	65·66	5 3 3	7·28	4 13 2	6·71	5 8 10	7·74	0 1 0	0·06	8 15 11	12·55	71 11 8
2. Howrah & Bally ..	4·83	1·63	80 4 6	59 13 11	71·49	6 6 8	7·68	4 12 5	5·72	5 5 5	6·39	0 9 1	0·67	6 12 1	8·05	83 11 7
3. Kharagpur.	5·62	1·57	120 5 8	68 12 7	69·18	5 13 8	5·89	3 5 4	3·35	10 2 8	10·28	0 6 4	0·40	10 14 5	10·95	99 7 0
II. BOMBAY—																
1. Ahmedabad	4·33	1·56	134 5 8	50 9 9	52·74	8 10 1	9·99	5 2 11	5·40	12 0 2	12·04	2 0 4	2·11	17 7 11	18·25	95 1 2
2. Bombay ..	3·96	1·53	97 2 3	44 15 2	51·96	5 12 8	10·16	6 3 9	7·20	10 2 2	11·72	0 6 10	0·50	15 15 5	18·46	86 8 0
3. Jalgaon ..	5·58	1·66	60 2 5	34 5 10	56·57	5 4 4	8·68	2 5 2	3·82	10 9 6	17·44	0 4 3	0·45	7 14 9	13·04	60 11 10
4. Sholapur ..	5·39	1·85	66 15 0	37 12 2	48·75	9 7 3	12·20	2 13 2	3·64	11 4 6	14·57	0 11 11	0·96	15 6 4	19·88	77 7 4
III. BIHAR—																
1. Dehri-on-Sone ..	6·07	1·64	59 6 0	38 12 10	69·62	2 9 0	4·59	1 1 5	1·96	6 8 10	11·75	1 3 6	2·19	5 8 2	9·89	55 11 9
2. Jamshedpur	4·42	1·33	92 13 3	44 11 2	65·76	3 11 0	5·43	3 3 0	4·69	6 13 6	10·07	0 3 11	0·36	9 4 11	13·69	67 15 6
3. Jharia ..	3·62	2·02	52 0 0	33 2 6	77·70	0 3 8	0·47	.. ..	..	2 12 11	6·56	0 4 2	0·63	6 4 0	14·64	42 11 3
4. Monghyr ..	6·80	1·57	78 5 1	51 9 0	69·75	4 2 4	5·61	1 4 3	1·71	7 9 5	10·27	1 2 2	1·54	8 3 6	11·12	73 14 8
IV. MADHYA PRADESH—																
1. Akola ..	5·08	1·84	60 3 3	34 0 8	58·61	4 3 5	7·25	1 3 3	2·07	7 8 1	12·93	0 10 0	1·08	10 7 11	18·06	58 1 4
2. Jabalpur ..	4·06	1·56	64 10 9	37 1 2	58·24	4 9 7	7·22	1 11 6	2·70	7 6 5	11·62	1 1 11	1·76	11 11 11	18·46	63 10 6
V. ORISSA—																
1. Berhampur.	5·50	2·05	59 12 8	48 10 6	62·42	5 13 4	7·48	2 9 0	3·28	7 15 5	10·22	0 14 6	1·17	12 0 5	15·43	77 15 2
2. Cuttack ..	5·54	1·45	43 8 0	39 10 5	67·15	5 2 9	8·86	1 12 0	2·97	4 1 0	6·88	0 15 7	1·64	7 6 0	12·50	59 0 9
VI. PUNJAB—																
Ludhiana ..	4·56	1·84	74 10 2	47 7 1	61·25	7 1 10	9·18	2 13 4	3·66	8 4 9	10·71	0 0 11	0·07	11 11 5	15·13	77 7 4
VII. ASSAM—																
1. Gauhati ..	5·05	1·32	96 3 3	50 3 2	63·36	6 13 7	8·64	3 8 10	4·48	2 13 4	3·58	2 1 2	2·61	13 11 7	17·33	79 3 8
2. Silchar ..	5·91	1·40	86 5 0	57 9 0	71·69	5 11 2	7·10	3 7 11	4·35	5 0 7	6·27	0 7 4	0·57	8 0 10	10·02	80 4 10
3. Tinsukia ..	4·11	1·21	83 14 5	44 1 5	69·65	4 11 7	7·35	2 1 4	3·24	4 9 11	7·19	1 4 9	2·02	7 6 9	11·55	64 3 9
VIII. DELHI—																
Delhi ..	3·80	1·24	66 4 11	36 15 2	60·98	5 5 8	8·34	3 12 7	6·35	5 8 6	9·13	1 15 9	3·27	6 14 10	11·43	60 9 6
IX. AJMER—																
Ajmer ..	5·18	1·16	62 12 8	38 4 6	63·74	4 14 7	8·17	1 12 7	2·97	4 11 11	7·90	0 4 8	0·50	10 0 8	16·72	60 0 11

Studies of living conditions of plantation workers were conducted in the year 1947 by the Government of India and the results of these surveys have been incorporated in two separate reports. The tabular statement below contains details regarding the main findings of these enquiries.

COMPOSITION OF THE FAMILY, AVERAGE WEEKLY INCOME AND EXPENDITURE OF THE FAMILY AND THE ACTUAL AND PERCENTAGE DISTRIBUTION OF EXPENDITURE ON DIFFERENT GROUPS

Plantations	No. of budgets	Average number of persons in the family	Average number of wage earners in the family	Average weekly income per family	Average weekly family expenditure on												Total weekly family expenditure
					Food		Lighting		Clothing and footwear		Bedding and household requisites		Miscellaneous				
					Actual	Percentage	Actual	Percentage	Actual	Percentage	Actual	Percentage	Actual	Percentage			
				Rs. a. p.	Rs. a. p.		Rs. a. p.		Rs. a. p.		Rs. a. p.		Rs. a. p.				Rs. a. p.
North India																	
1. Surma Valley ..	200	4·57	2·29	11 3 7	8 8 8	77·07	0 2 9	1·55	0 12 3	6·90	0 2 0	1·13	1 7 8	13·35			11 1 4
2. Assam Valley ..	560	4·15	2·44	10 13 1	7 11 8	71·55	0 3 5	1·98	1 0 4	9·45	0 3 1	1·78	1 10 4	15·24			10 12 10
3. Bengal ..	297	4·16	2·52	13 5 2	9 8 4	77·42	0 4 1	2·08	0 14 11	7·58	0 2 6	1·27	1 6 11	11·65			12 4 9
South India																	
1. Madras—Tea ..	274	3·80	2·41	11 13 1	8 10 5	73·79	0 2 7	1·38	0 15 0	7·99	0 4 1	2·18	1 11 6	14·66			11 11 7
2. Madras & Coorg —Coffee ..	122	3·40	2·38	8 12 1	6 2 3	71·24	0 2 0	1·45	0 13 0	9·43	0 4 2	3·02	1 4 6	14·86			8 9 11
3. Madras & Coorg —Rubber ..	15	2·86	1·40	8 15 4	7 8 5	78·11	0 2 11	1·88	0 11 4	7·34	0 1 10	1·17	1 1 9	11·50			9 10 8

Recently the Labour Bureau conducted family budget enquiries in Bhopal and Beawar and published reports. The statement below contains the main results of these enquiries.

Centres	No. of family budgets	Average no. of persons per family	Average no. of wage-earners per family	Average monthly income per family	Average monthly expenditure per family on						Average monthly family expenditure
					Food	Fuel and lighting	House rent	Clothing and footwear	Bedding and household requisites	Miscellaneous	
					Percentage	Percentage	Percentage	Percentage	Percentage	Percentage	
				Rs. a. p.							Rs. a. p.
1. Beawar ..	371	5·08	2·17	96 8 3	66·40	6·68	3·85	10·85	1·38	10·84	89 13 6
2. Bhopal ..	360	5·03	1·63	91 1 11	61·12	6·07	6·21	8·43	1·31	16·86	86 15 2

EMPLOYMENT

Many of the larger and more progressive concerns have Labour Officers who are directly responsible for all new recruitment.

The evils in connection with recruitment were most marked in the case of casual or substitute labour. The Millowners' Association, Bombay, have dealt with the problem by establishing what is known as the "Badli Control System." Daily casual vacancies are filled only from card holders and whenever there is a permanent vacancy it is filled from these card holders. The evil influence of the jobber is thus eliminated. A recent development in this matter is the 'decasualization' scheme of the Government of Bombay which has been introduced in some of the textile centres.

In the jute mill industry during recent years, many of the mills have established what are known as Labour Bureaux one of whose functions is to recruit labour.

In this connection mention might also be made of the Employment Exchange started by the Northern India Employers' Association in Kanpur. Some progressive cotton mills in the south have also opened special Labour offices through which only recruitment is made.

The Millowners' Association, Bombay conducts special classes for the training of Mill Labour Officers and actively supervises and controls the work done by all such Officers where they have been appointed through the Association. Following the example of the Millowners' Association, Bombay, the University of Calcutta, in co-operation with the Indian Jute Mills Association, has a special course of social work for giving suitable training to Labour Welfare Officers engaged in jute mills. Among other institutions imparting training for Labour Officers mention may be made of the Tata Institute of Social Sciences, Bombay; Institute for Training of Welfare Workers, Bombay; Delhi School of Social Work, Delhi; Institute of Social Sciences, Banaras; Xavier Labour Relations Institute, Jamshedpur; Department of Labour and Social Welfare, Patna University; J. K. Institute of Sociology and Human Relations, Lucknow University, and the training course conducted by the Madhya Bharat Millowners' Association, Indore.

The Directorate-General of Resettlement and Employment set up by the Government of India organises technical training.

There were 456 training centres in June 1957 and the number of persons undergoing training in these centres was as follows:—

Technical training	10,957
Vocational training	1,439
Apprenticeship training	964
Vocational training—women	494
TOTAL ..	13,854

The number of registered unemployed was 792,345 in July 1956, of whom 391,869 were unskilled and 231,109 were clerks.

A survey conducted by the National Sample Survey in some towns towards the end of 1953 revealed that approximately 2·6 per cent of the population in these towns was unemployed. The towns covered were over 175 and each had a population of over 50,000. The four big cities of Calcutta, Bombay, Madras and Delhi, however, were not covered by the Survey. Of the 2·6 per cent unemployed 1·16 were seeking employment for the first time and about 1·44 per cent were out of work. The Survey also disclosed that 55·85 per cent of the population belonged to working age-group (16-61).

WORKING OF THE EMPLOYMENT EXCHANGES IN INDIA

1956	No. of exchanges at the end of the period	No. of registrations during the period	No. of applicants placed in employment during the period	No. of applicants on the live registers at the end of the period	Monthly no. of employers using the exchanges	No. of vacancies notified during the period	No. of vacancies being dealt with at the end of the period
January	136	142,106	14,753	717,345	4,995	21,108	39,878
February	136	127,951	12,465	724,448	5,125	26,006	41,851
March	136	121,399	15,504	704,638	5,126	24,293	37,736
April	136	133,574	16,624	702,328	5,610	27,013	39,462
May	137	140,579	17,849	714,944	5,857	31,302	44,514
June	137	170,848	19,489	740,634	5,731	20,039	45,185
July	137	170,918	16,007	792,345	5,590	23,568	43,574
August	137	144,836	14,901	797,212	5,250	21,935	41,395
September	138	143,158	14,750	799,583	5,440	23,374	41,781
October	139	120,683	14,168	776,757	5,964	22,663	41,934
November	142	123,976	16,889	760,505	5,293	21,506	41,251
December	143	129,867	13,656	758,503	5,281	21,814	42,805

Position Dec. 1957 :

Employment Exchanges secured 15,625 placements during December 1957 as compared with 17,641 in the previous month.

The decrease in placements was mainly reported from Bihar, Bombay, Kerala, Madras and Uttar Pradesh.

Of those placed during December, 4,049 were under Central Government, 7,548 under State Governments, 1,715 under quasi-Government establishments and local bodies and the remaining 2,313 under other employers.

Employment Exchanges effected 1,68,797 registrations during December, which was 4,732 less than the registrations in the previous month.

The number of employers who made use of Exchanges was 5,886 as compared with 6,096 in November.

In all, 24,400 vacancies were notified by them as against 26,675 in the preceding month.

The decrease in the number of vacancies notified was conspicuous in Bihar, Bombay, Kerala, Madras, Punjab, Uttar Pradesh and West Bengal. A significant increase was, however, recorded in Assam and Rajasthan.

The number of persons seeking employment assistance through Exchanges at the end of December was 9,22,099, which was 35,816 more than the figure at the close of the previous month.

A study to ascertain the pattern of unemployment among graduates has shown that the problem is more widespread in West Bengal, Uttar Pradesh, Bombay and Delhi than in other States. The highest incidence of unemployment among women graduates is in Kerala.

This is the first of a series of employment and unemployment studies, which are being undertaken by the Manpower Division of the Directorate of Employment Exchanges, Ministry of Labour and Employment.

The analysis was made on the basis of registration details furnished by 151 Exchanges in the country regarding graduates seeking work through Exchanges, as on May 15, 1957.

Particulars of 26,297 graduates were received from the Exchanges and a detailed analysis was made of 25,785.

Of the total number seeking employment, 24,425 (92·8 per cent) were men and 1,872 (7·2 per cent) women.

Eighty-four per cent of the unemployed graduates held Bachelor's degree in Arts, Science or Commerce. Of this, 48·5 per cent were B.As., 22·7 per cent B.Scs. and 12·8 per cent B.Coms.

In order to examine the relative incidence of unemployment among various degree holders, the annual out-turn from universities was taken into consideration as it provided an indication of the addition to the labour force every year. Comparing this with the percentage of unemployed registrants degree-wise, it was found that unemployment was relatively high among those holding B.Com. and B.Com. (Hons.) degrees than those with B.Sc. and B.A. degrees. It was also found that unemployment among M.Coms. was more acute than among M.Scs.

Among the unemployed graduates in arts, a large number had specialised in economics, history, politics and philosophy. Science graduates had mostly specialised in the group, physics, chemistry and mathematics.

Of the total number of unemployed graduates, only 2·3 per cent had secured first class, 24·8 per cent second class and the remaining 72·9 per cent third class which included those who took degrees where no class was assigned.

An analysis was also made of the age composition of the unemployed graduates. It was found that 65·4 per cent were below 25 years, 31·2 per cent between 25 and 35, while the remaining 3·4 per cent were 35 and above.

The study also revealed that 76·7 per cent of the unemployed graduates had no previous employment and only 23·3 per cent had reported previous employment. A high proportion of B.As. and B.Coms. had previous employment as compared with B.Scs.

Analysing the nature of employment sought by the graduates, it was found that 60·4 per cent registered for clerical jobs, 19·5 per cent for professional and technical jobs, 15·7 per cent for administrative and executive jobs and the remaining 4·4 per cent for other types of jobs.

Nearly 95 per cent of those seeking clerical posts were graduates with Bachelor's degree in Arts, Science or Commerce.

Another investigation by the Director-General of Resettlement and Employment revealed that the number of engineering graduates on the register of employment exchanges decreased from 690 in September 1956 to 354 at the end of March 1957. Among the graduates, 47 per cent were inexperienced, 37 per cent had acquired experience through on-the-job training, without being in paid employment, and 9 per cent had an experience of 2 years or more.

About 75 per cent of these graduates were in search of jobs for less than a year, while 6 per cent were unemployed for 2 years or more.

As regards salary, 66 per cent of the graduates expected a minimum pay between Rs. 200 and Rs. 300 per month, and 24 per cent desired a salary of Rs. 300 or more.

As in the case of the graduates, the number of engineering diploma holders decreased from 718 in September 1956 to 459 at the end of March 1957. About 65 per cent of these had no experience either in gainful employment or by way of on-the-job training, 22 per cent had acquired experience through on-the-job training, without being in paid employment, and 10 per cent had an experience of 2 years or more.

About 62 per cent of the diploma holders were unemployed for less than a year, while 18 per cent were seeking jobs for 2 years or more.

Over 26 per cent of the diploma holders, of whom a large number was inexperienced, were ready to accept a salary of less than Rs. 100, 57 per cent expected a salary ranging from Rs. 100 to 200 and a few, who had experience of 2 years or more, demanded a salary of not less than Rs. 300.

The employment position in Central Government establishments (excluding railways) in June 1957 was : 67,119 in administrative and executive positions, 223,432 in clerical posts, 143,856 as skilled and semi-skilled workers, 240,227 as unskilled workers ; making a total of 674,634.

There are over 10 lakh Government employees on the railways.

SHIVA RAO COMMITTEE

A Committee, with Mr. B. Shiva Rao as Chairman, was appointed in November 1952 to inquire into the future set up of the Organisation of the Director-General of Re-settlement and Employment. The Committee submitted its report in April 1954.

The Committee recommended that the Employment Exchange Organisation should be placed on a permanent footing and its administration should be handed over to the States. The Central Government, however, should lay down national policies, standards and programmes to be followed by the Exchanges. Private employers should be required on a compulsory basis to notify all vacancies to the exchanges, and the Employment service should develop standardised aptitude tests. A Central Advisory Committee representing employers, labour and other important public interests should be formed to advise the Director.

The Government of India accepted in principle the recommendation of the Shiva Rao Committee that all recruitment to Government posts not filled through Public Service Commissions or by competitive examinations, should be made through employment exchanges. Now that the administration of the employment services is transferred to the State Governments, this recommendation will be taken up by them.

The Union Government bears 60 per cent of the expenditure in respect of the Exchanges while the State Governments meet the remaining 40 per cent.

Provision has been made in the Second Five-Year Plan for opening an additional 125 employment exchanges, bringing the total number of exchanges at the end of the Plan period to 256. In locating the new exchanges the need for developing the employment service uniformly in all states as well as the requirements of specific local areas would be kept in view.

Government has also decided to set up a National Council for Training in Vocational Trades with the Union Labour Minister as the Chairman. The Council includes representatives of Central and State Governments, employers' and workers' organisations, and professional bodies. Its functions are to co-ordinate vocational training of national importance throughout the country, to advise Government of India in the framing of training policy and to establish and award national trades certificates.

A pilot scheme to help the educated unemployed enter into avenues of employment other than 'white collar' jobs was sanctioned by the Government of India in February 1957.

Under the scheme, four work and orientation centres were to be set up in the country, one each in the States of Kerala, Delhi, West Bengal and Uttar Pradesh.

At each of the proposed work and orientation centres 250 educated unemployed of the matriculation to university standard and registered with the exchanges will be given an orientation course for about six months. They will also be paid a stipend.

The centres will give vocational counselling, manual work and some theoretical and practical instruction in occupations selected with reference to the aptitudes of the participants. The plans of Government to develop small scale industries, the loans available and the facilities accessible to co-operative societies will also be explained at the centres.

The scheme will not guarantee subsequent placement in life, though some may get placed in positions in which shortages are felt. The instruction and orientation given, however, will be directed to giving them the necessary 'know how' to set up business either by themselves as entrepreneurs or in co-operatives.

The centres will be guided by Local Advisory Committees, consisting of officials and non-officials and will maintain close liaison with important local employers. The centres will be organised and administered by the State Governments.

EMPLOYMENT IN FOREIGN COMPANIES

The position in regard to employment of Indians and non-Indians on salaries of Rs. 1,000 and above in foreign concerns on the 1st January each year was as follows :—

Year	Indians	Foreigners	Total
1947 ..	504	5,844	6,348
1948 ..	742	6,360	7,102
1949 ..	1,085	6,709	7,794
1950 ..	1,406	6,871	8,277
1951 ..	1,784	6,953	8,737
1952 ..	2,290	7,104	9,394
1954 ..	3,346	7,008	10,354
1955 ..	3,995	6,810	10,805
1956 ..	4,685	6,566	11,251
1957 ..	5,614	6,025	11,639

Eighty-eight per cent of the foreigners were British and 3·6 per cent Americans.

The break-up of the salary groups, shows that Indians occupied 80 per cent of the posts in the Rs. 1,000-1,500 category, in 1957 as against 67·9 per cent in 1956. In the Rs. 1,501-Rs. 3,000 range 40·9 per cent were Indians in 1957 as against 34·0 per cent in 1956. In the group of above Rs. 3,000 11·4 per cent of the posts were filled up by Indians in 1957 as compared to 10·6 per cent in 1956.

ABSENTEEISM

One of the commoner complaints of Indian industrialists has been the high percentage of absenteeism and the large labour turnover in Indian factories, mines, etc. The percentage of absenteeism amounts to about 8 to 15 per cent in factories, about 10 to 15 per cent in mines and about 20 per cent in plantations. It is noteworthy that in factories in which the conditions of work and wages are satisfactory and also where there is a system of granting leave with pay apart from the statutory holidays with pay, the incidence of absenteeism is not so high as is otherwise the case. The available statistical data on absenteeism in certain types of concerns for the years 1950, 1951, 1952, 1953, 1954, 1955 and the twelve months of 1956 are given in the tabular statement below :—

ABSENTEEISM IN MANUFACTURING INDUSTRIES IN INDIA

(Percentage of man-shifts lost to man-shifts scheduled to work)

Period	Cotton Mill Industry							Woollen Industry	
	Bombay	Ahmedabad	Sholapur	Madras	Madura	Coimbatore	Kanpur	Kanpur	Dhariwal
1950	14·5	8·4	20·1	9·5	14·6	9·7	16·1	12·5	9·3
1951	12·7	8·3	18·7	8·9	11·3	10 0	12·0	13·2	10·6
1952	12·7	8 8	20·2	9·7	10·5	10·3	11·7	9·4	6·3
1953	12·6	9·4	20·5	9·3	10·9	8·2	12·3	11·0	5·0
1954	10·8	8·7	17·4	9·1	11·0	8·8	12·4	10·7	5·2
1955	8·2	6·8	18·0	6·6	12·2	9·9	12·8	10·6	5·0
1956	8·3	6 5	18·4	6·2	13 0	11·4	11·1	7.3	5·2
January 1956 ..	7·4	5·7	18·1	7·0	13·0	13 3	9·7	6·6	6·0
February ,, ..	8·1	6 5	20·2	7·2	14 2	13·3	10·2	6·6	5·7
March ,, ..	9·8	6·8	22·5	7·1	14·3	12·6	10·8	7·3	5·3
April ,, ..	9·7	7·2	24·2	6·3	15·0	11·5	11·5	8 0	7 0
May ,, ..	9·9	8 0	22·8	6·4	15 4	14·6	15.5	12·3	6·2
June ,, ..	8·7	7 1	19·8	5 6	19·0	11·9	14.0	9 5	5·7
July ,, ..	7·4	6·4	17·3	5·6	11·8	7·8	11·0	5·4	4·4
August ,, ..	7·6	5 9	14·8	5·8	10·9	8·7	10·2	6 4	3·7
September ,, ..	8·6	5 9	15·3	6 0	10·7	9 4	9·2	5·4	4·7
October ,, ..	7·4	6 1	15·9	5.9	10·1	13·2	10·7	6·1	4·8
November ,, ..	8·2	6 3	16·2	6·1	11 2	12·2	10·7	7·4	4·5
December ,, ..	6·8	6·0	14·2	5·7	10·8	8·6	10 1	6·9	4·8

Period	Engineering Industry		Telegraph Workshops	Tramway Workshops	Iron and Steel Industry	Ordnance Factories	Cement Factories	Match Factories	Leather Industry
	Bombay	West Bengal	All India	All India	All India	All India	All India	All India	Kanpur
1950	13·1	11·1	8 1	15 7	12·4	8·9	10·6	11.0	8.4
1951	13·9	10·1	8·5	13·0	11·0	8·6	11·8	10·5	7·8
1952	13·4	10·3	9·0	10·6	10·9	9·4	11·5	10·6	9·2
1953	13·7	10 8	10·1	7·0	10·9	9·9	11·9	10·1	9·2
1954	14·9	11.7	12.0	7.1	12.0	11.8	12·1	10·4	9·8
1955	15·6	12 8	12·1	7·2	11·4	12·4	11 7	10·6	10·1
1956	14·6	12.5	12·9	8·1	11·6	12·4	12·2	10·1	11·2
January 1956 ..	13·6	12·2	12.0	11·3	10·2	10·9	10·8	9·6	16·6
February ,, ..	13·2	12·0	11·4	9·6	9·9	11·7	12·5	11·5	16·7
March ,, ..	16·5	11·4	14·0	8·2	12·3	12·3	13·0	11·0	14·8
April ,, ..	18·2	15·6	16·4	8 0	12·6	14·6	14·6	12·3	10·6
May ,, ..	20·9	16·7	19 2	10·3	14·7	16·8	16·8	13·7	13·7
June ,, ..	14·5	15·1	15·2	6·8	12·8	13·8	13·5	11·8	13·1
July ,, ..	12·8	13·0	12·2	7·0	11·0	9·9	10·2	9·7	9·4
August ,, ..	12·2	9·9	10·8	6·2	11·6	9·1	10·2	8·0	9·4
September ,, ..	13·0	13·0	11·8	7·1	10·5	14·0	9·4	7·6	8·4
October ,, ..	11·1	5·7	10·8	8·2	12·7	10·2	10·6	7·9	9·0
November ,, ..	15·4	12·1	10·4	7·2	11·4	11·4	11·8	8·8	8·5
December ,, ..	14·4	13 4	10·7	7·2	9·8	14.3	12.8	9·2	14·5

EMPLOYEES' STATE INSURANCE CORPORATION

It may be mentioned at the outset that the Central Government is working out (Dec. 1957) comprehensive social security insurance scheme for the five million industrial workers of the country. The scheme will amalgamate health, life insurance, provident fund, gratuity and old age pension.

The Employees' State Insurance Act, 1948 applies to all factories including factories belonging to Government other than seasonal factories and covers employees in receipt of wages or salaries up to Rs. 400 per month. The administration of the Act is entrusted to an autonomous body called the Employees' State Insurance Corporation. A Standing Committee is to act as the executive of the Corporation. There is also to be a Medical Benefit Council to advise the Corporation on matters relating to administration of medical benefit, certification, etc. All these bodies are tripartite in character. The scheme is contributory but the

Central Government is to make an annual grant to the Corporation during the first five years of a sum equivalent to ⅓rds of the administrative expenses of the Corporation. The rates of contribution payable in respect of an employee have been fixed as follows :—

Group of employees	Employees' contribution (recoverable from employees)	Employers' contribution	Total contribution (employees' and employers' contribution)
	Rs. As. Ps.	Rs. As. Ps.	Rs. As. Ps.
1. Employees whose average daily wages are below Re. 1	*Nil*	0 7 0	0 7 0
2. Employees whose average daily wages are Re. 1 and above but below Rs. 1-8-0	0 2 0	0 7 0	0 9 0
3. Employees whose average daily wages are Rs. 1-8-0 and above but below Rs. 2-0-0	0 4 0	0 8 0	0 12 0
4. Employees whose average daily wages are Rs. 2-0-0 and above but below Rs. 3-0-0	0 6 0	0 12 0	1 2 0
5. Employees whose average daily wages are Rs. 3-0-0 and above but below Rs. 4-0-0	0 8 0	1 0 0	1 8 0
6. Employees whose average daily wages are Rs. 4-0-0 and above but below Rs. 6-0-0	0 11 0	1 6 0	2 1 0
7. Employees whose average daily wages are Rs. 6-0-0 and above but below Rs. 8-0-0	0 15 0	1 14 0	2 13 0
8. Employees whose average daily wages are Rs. 8-0-0 and above	1 4 0	2 8 0	3 12 0

The insured persons are entitled to the following benefits : (*i*) sickness benefit, (*ii*) maternity benefit, (*iii*) disablement benefit, (*iv*) dependents benefit and (*v*) medical benefit.

Amounts (Rs.) distributed in form of cash benefits in 1956-57 are as follows :—

Rs. '000

State	Sickness Benefit	Maternity Benefit	Temporary Disablement Benefit	Permanent Disablement Benefit	Dependent Benefit
1	2	3	4	5	6
Delhi	589	4	68	43	9
Punjab	116	2	28	11	6
Rajasthan	.	.	3	.	—
Madhya Pradesh	647	36	68	5	1
Uttar Pradesh	798	2	105	25	8
Bombay	5,940	229	712	95	44
West Bengal	1,457	25	270	9	8
Andhra	188	31	22	2	4
Madras	686	85	78	3	*
Kerala	—	—	5		—
Total	10,430	414	1,359	193	80

* Amounts below Rs. 500.

The implementation of the scheme throughout the country simultaneously being attended with practical difficulties, a plan of phased application of the scheme in different places was drawn up. Under this plan, it was proposed to introduce the scheme in Kanpur and Delhi in July 1950. The proposal had to be postponed at the last moment owing to objections received from employers in Kanpur that the introduction of the scheme in selected places, without its simultaneous application elsewhere, would place industries in those areas at a competitive disadvantage. To overcome these objections, and to remove a few other lacunæ, the Employees' State Insurance Act, 1948, was amended in 1951. Under the amended Act, the employers' contribution is levied from employers throughout the country in a manner which makes the extra cost on all employers as equitable as possible.

The scheme was inaugurated in Kanpur and Delhi on 24th February 1952.

The Schemes covered over 11·78 lakh employees in Dec. 1957.

The number of employees covered in different areas are :

Delhi (40,000) ; Kanpur (80,000) ; seven cities of the Punjab State (30,000)—namely, Amritsar (including Chhahrata), Ambala, Batala, Bhiwani, Jagadhri-Abdullapur, Jullundur and Ludhiana ; Nagpur (22,000) ; Greater Bombay (4,70,000) ; Coimbatore (36,000) ; Indore, Gwalior, Ujjain and Ratlam (50,000) ; Hyderabad (12,000) ; Calcutta City and Howrah District (2,30,000) ; seven industrial centres of Andhra State (12,000)—namely, Vishakapatnam, Chittivalsa, Nellimarla, Guntur, Mangalagiri, Eluru and Vijayawada ; and Madras City and suburbs (50,000) ; Agra, Saharanpur and Lucknow (17,000) ; Akola and Hinganghat (10,000) ; Quilon, Alleppey, Ernakulam and Trichur (30,000) ; Madurai, Ambasamudram and Tuticorin (38,000). Six cities of Rajasthan : Jaipur, Jodhpur, Pali, Bikaner, Bhilwara, Lakheri, (12,000) ; Beawar (5,000) ; Burhanpur (4,000) ; Jabalpur (4,000) ; Allahabad, Varanasi, Rampur and Kalyanpur (11,500) ; Patna, Katihar, Monghyr and Samastipur areas of Bihar (14,500).

A Scheme to liberalise benefits to insured workers suffering from T.B. was put into force from 1st June 1956. After exhausting his sickness benefit of 56 days, an insured person suffering from T.B. who has put in two years continuous service in a factory will get additional sickness benefit at half the sickness benefit rate subject to a minimum of Annas 12 and a maximum of sickness benefit rates for 18 weeks more. Insured persons with three years continuous service will receive free medical treatment for an extra period of about one year.

The Government of India has decided to extend medical care under the scheme to families of insured persons as soon as possible. Co-operation of the State Governments is being sought to implement this decision. The rates of contribution from employers will then be raised from 1¼ per cent. to 3¼ per cent. in the implemented and from ¾ per cent. to 1¼ per cent. in the non-implemented areas. The insured employees will pay the scheduled rates of contribution in the implemented areas and nothing in the non-implemented areas.

Sickness and Maternity Benefits became payable from the date of commencement of the first benefit period and the remaining three benefits from the date of implementation in each area which are indicated below :—

State	Area	Date of Implementation	Date of commencement of first benefit period
1	2	3	4
Delhi	Delhi State	24- 2-1952	23-11-1952
Punjab	Ambala, Amritsar (Chhehrata), Batala, Bhiwani, Jammagar, Jullundur and Ludhiana	17- 5-1953	14- 2-1954
Rajasthan	Jaipur, Jodhpur, Bikaner, Pali (Marwar), Lakheri, and Bhilwara	2-12-1956	29- 9-1957
	Beawar	27-10-1957	27- 7-1958
Uttar Pradesh	Kanpur	24- 2-1952	23-11-1952
	Lucknow, Agra and Saharanpur	15- 1-1956	14-10-1956
	Allahabad, Varanasi, Rampur and Kalyanpur	31- 3-1957	29-12-1957
Madhya Pradesh	Gwalior, Indore, Ujjain and Ratlam	23- 1-1955	23-10-1955
	Burhanpur	2- 9-1956	2- 6-1957
	Jabalpur	29- 9-1957	29- 6-1958
Bombay	Greater Bombay	3-10-1954	2- 7-1955
	Nagpur	11- 7-1954	10- 4-1955
	Akola and Hinganghat	27- 5-1956	24- 2-1957
West Bengal	Calcutta City and Howrah District	14- 8-1955	13- 5-1956
Andhra	Hyderabad, Secunderabad	1- 5-1955	29- 1-1956
	Vishakapatnam, Vijyawada, Eluru, Mangalagiri, Guntur, Chittivalsa and Nellimasla	9-10-1955	8- 7-1956
Madras	Coimbatore	23- 1-1955	23-10-1955
	Madras	20-11-1955	19- 8-1956
	Madurai, Ambasamudram and Tuticorin	28-10-1956	28- 7-1957
Kerala	Alleppey, Quilon, Trichur, Ernakulam and Alwaye	16- 9-1956	16- 6-1957
Bihar	Patna, Katihar, Monghyr and Samastipur	15-12-1957	14- 9-1958

Main Office : 2A-3, Asaf Ali Road, New Delhi.

Delhi Regional Office : B-9, Pusa Road.

Kanpur Regional Office : 7-202, Swarup Nagar.

Bombay Regional Office : Scheme C, Plot No. C., Colaba Road, Bombay 5.

Madras Regional Office : 2, Sir Desikachari Road, Mylapore, Madras 4.

Calcutta Regional Office : 64, Ganesh Chandra Avenue, Calcutta 13.

Indore Regional Office : 65, Race Course Road, Indore.

Jaipur Regional Office : A. K. Mukerjee Building, Railway Station Road.

Hyderabad Regional Office : Mahanadi Blocks 462 (a), 14, Kavadiguda Road, Secunderabad.

Trichur Regional Office : XXIV/273, Machingal Lane, Trichur.

Amritsar Regional Office : 160/13, Hide Market.

Bangalore Regional Office : 13, Kumara Park Extension, Bangalore 1.

ACCIDENTS

The Mill-owners' Association, Bombay, has done a considerable amount of good work of a pioneering character in connection with Safety-First measures. Working in conjunction with the Safety-First Association of India, the Association drew up a Safety Code for the Cotton Textile Industry and this Code was published and put into operation from August 1940.

It is of interest to note that most cotton mills in Ahmedabad had also established safety-first committees by the end of the year 1939.

The Indian Factories Act requires the manager to report all accidents which cause death or bodily injury whereby the person injured is prevented from returning to his work in the factory during the 48 hours next after the occurrence of the accident.

It is the duty of the Inspector of Factories to make an investigation as soon as possible into the causes of and the responsibility for a fatal or serious accident, and to take steps for the prosecution of the person concerned if it is found that the death or serious injury resulted from any infringement of the provisions of the Act or of the rules framed under the Act.

Provision has been made for the training of miners in first-aid. There are also in the mining areas two rescue training centres where training has been given for fighting fires, etc. in coal mines.

The Department of Mines has been strengthened to facilitate more frequent inspection of mines. As an emergency measure, the Coal Mines (Temporary) Regulations, 1955 have been promulgated for the prevention of apprehended danger and for the speedy remedy of the conditions likely to cause danger. The entire codes of coal and non-coal mines regulations are being revised to provide for more comprehensive measures for safety in mines.

The Government of India has constituted four Committees for collection of the basic data for preparing safety pamphlets on different types of machinery.

An unofficial Council of Industrial Health, Hygiene and Safety was formed in Bombay with a view to promoting interest in safety measures. The Council works in close co-operation with the State factory inspectorate and the industry.

The Office of the Chief Adviser, Factories now issues from time to time valuable literature on the subject of industrial safety.

The table below shows the number of accidents in Indian factories and mines in the years 1939 and 1941 to 1954.

Year	FACTORIES				MINES			
	Fatal	Serious	Minor	Total	Fatal	Serious	Minor	Total
1939	221	5,837	29,948	36,006	286	1,410	10,584	12,280
1941	271	8,374	40,091	48,736	303	1,489	10,969	12,761
1942	323	9,111	44,740	54,174	342	1,484	10,871	12,697
1943	361	10,016	48,799	59,176	328	1,509	9,000	10,837
1944	348	10,638	56,336	67,322	365	1,568	8,946	10,879
1945	342	11,006	58,775	70,123	307	1,441	8,724	10,472
1946*	252	8,423	48,460	57,135	328	1,275	9,312	10,915
1947†	214	8,675	49,892	58,781	263	1,450	8,137	9,850
1948	259	9,132	58,673	68,064	272	1,295	8,518	10,085
1949	194	6,513	46,902	53,609	271	1,558	16,529	18,358
1950‡	248	72,168	**	72,416	278	2,083	15,616	17,922
1951	234	75,713	**	75,947	425	2,658	*N.A.*	2,993§
1952	257	91,033	**	91,290	453	3,887	*N.A.*	4,340
1953	256	93,431	**	93,687	388	4,286	*N.A.*	4,674
1954	267	92,709	**	92,976	407	4,491	*N.A.*	4,898

* Excluding the Punjab and the N.W.F.P. in the case of factories.

** From 1950 onwards figures for Serious and Minor accidents have been combined into Non-fatal accidents.

† The figures relate to 12 States of the Indian Union, known as Provinces before the 1950 constitution whereas the previous figures relate to the pre-partition British India.

‡ Excluding Punjab and West Bengal in the case of factories.

§ Since Statistics for minor injuries are incomplete, total figures for 1951 onwards in respect of mines are not strictly comparable with those for the previous years.

N. A. Not available.

WELFARE ACTIVITIES

The Reports of the Labour Investigation Committee on labour conditions in 36 industries as also their Main Report as well as the issues of the Indian Labour Year Book published by the Labour Bureau of the Government of India contain detailed and comprehensive information regarding labour welfare undertaken in various States and industries.

Until recently the Government of India had not undertaken any activities to promote the welfare of industrial labour employed in Central concerns. Recently, however, they have done a great deal in this respect. Welfare Funds have been instituted in coal and mica mines. The Central Government have issued directives to all employing departments to constitute Labour Welfare Funds in all Government undertakings. The Fund is to be utilised for providing indoor and outdoor recreation, reading rooms, etc., to workmen employed in the undertakings. The Fund will be financed partly by Government grants.

Welfare work had been done directly by the Governments of the pre-Reorganization States of Assam, Bihar, Bombay, Madhya Pradesh, Punjab, U.P., West Bengal, Hyderabad, Madhya Bharat, Mysore, Rajasthan, Saurashtra, Travancore-Cochin Coorg, Delhi and Tripura in the areas which these States covered.

HOUSING

In the past the policy of Government as well as of industrial employers was to leave the matter of housing more or less in the hands of private enterprise. The rapid growth in industrial employment made the housing problem serious and the influx of large numbers of workers to urban centres during the war further aggravated the situation.

In April 1948 the Government of India announced as part of their industrial policy a scheme for the construction of a million workers' houses to be completed within a period of ten years but on account of financial stringency much headway could not be made in the furtherance of the scheme.

The Government of India introduced a Subsidised Industrial Housing Scheme in 1952. Under the Scheme, houses are to be constructed for industrial workers through the agency of State Governments, Statutory Housing Boards, employers and registered co-operative housing societies of industrial workers. The Central Government would assist financially these agencies both in the form of subsidies and loans. For housing schemes undertaken by State Governments or Housing Boards the subsidy will be to the extent of 50 per cent of the cost of construction and the loan also to the extent of 50 per cent. In the case of other housing schemes the subsidy and loan will be to the extent of 25 per cent and 37½ per cent respectively. The Government of India also allotted during 1952-53 a sum of Rs. 716·625 lakhs for the industrial housing scheme. As a result of the review of the working of the scheme during 1952-53 certain important modifications were later made in the scheme.

The scale of financial assistance to the employers and workers' co-operatives under the Government of India Subsidized Housing Scheme was liberalised for the period 1953-1956. The percentage of loan payable to co-operatives under the original scheme was 37½. This was raised to 50 to offer better incentive to workers' co-operatives. The employers and workers' co-operatives may get as much as 25 per cent of the approved cost of a project as subsidy; in addition 37½ per cent of the cost is advanced as loan to employers and 50 per cent as loan to co-operatives. The loan to employers is repayable in 15 years and bears an interest of 4½ per cent. In the case of workers' co-operatives, the period is 25 years and the rate of interest 4½ per cent.

The draft outline of the Second Five-Year Plan gives rough figures of the total number of houses constructed during the First Plan period in the public and private sectors, as follows :—

Public construction	*No. of houses/tenements*
Industrial Housing	77,000
Low Income Group Housing ..	40,000
Refugee Housing	323,000
Housing by Central and State Governments	300,000
Total.. ..	740,000
Estimated Private Construction ..	750,000
Grand Total ..	1,490,000

Upto 31st March 1957, over 54,000 tenements were built in India by State Governments, private enterprises and corporations under the Subsidised Industrial Housing Scheme.

A sum of Rs. 25,28,99,000 was sanctioned for the construction of 89,408 tenements upto 31st March 1957. Of this amount Rs. 13,02,56,000 will be loan and Rs. 12,26,43,000 subsidy.

A sum of Rs. 16,60,56,000 was disbursed as loans and subsidies to various State Governments, private enterprise and corporations.

Provision has been made to the extent of Rs. 45 crores for this scheme under the Second Five-Year Plan and 1,50,000 tenements are expected to be ready during the Plan period.

The subject of industrial housing has also been engaging the attention of several State Governments in recent years. The pre-reorganization Governments of Bihar, Bombay, Madhya Pradesh, Punjab, U.P., Madhya Bharat, Mysore, Travancore-Cochin, had in hand schemes of industrial housing and some of the States, as for instance Bombay, Bihar, and U.P., made substantial progress in regard to the construction of new houses.

As regards housing accommodation provided by employers, the standards vary widely. In the cotton mill industry only a small proportion of the workers is provided with houses. The jute mills in and around Calcutta have provided housing for about a third of their workers but the standards of housing provided leave much to be desired. In the engineering industry only

the larger units generally provide housing for their employees. The Tata Iron and Steel Co. for instance, have provided 12,000 houses at Jamshedpur. As many as 8,600 houses have also been built by the employees themselves on the company's land leased to them at very low rates. The cement industry in India is much ahead of other factory industries in regard to the proportion of workers housed as well as the standards of housing provided.

The Scindia Shipyard at Vishakhapatnam houses about 25 per cent of their workers in a special housing colony. In the sugar industry, the employers provide housing for about 30 to 50 per cent of their labour force.

In the coal mines up to 80 per cent of the workers are housed in dhowrahs free of rent. Under the housing scheme of the Coal Mines Labour Welfare Fund constituted by the Government of India for coal miners over 1,500 houses have been completed. The mining companies in the Kolar Goldfields in Mysore provided about 12,800 houses for their employees.

In the plantations nearly all the settled labour force have been provided with housing but the scale and standard of houses provided are far from adequate. However, in recent years the industry has become keenly alive to the urgency of the problem and at a Tripartite Conference held in November 1950, the planting interests agreed to replace the then existing sub-standard houses by stages spread over 12 years. The number of houses provided for plantation labour up to September 1951 was as follows: Assam and Bengal 323,865; Bihar 1,531; Madras 22,864; Orissa 40; U.P. 108; Mysore 2,171; Travancore-Cochin 18,216; Coorg 1,877.

On Government Railways there were on 31st March 1952, 280,988 units of residential quarters for the use of class III and class IV employees. During 1952-53, 7,323 quarters were constructed. During the year 1953-54 further 6,848 tenements of various types were added.

Several co-operative housing societies have recently been formed in Ahmedabad through the efforts of the Ahmedabad Textile Labour Association.

LABOUR WELFARE

Section 47 of the Factories Act, 1948 makes it obligatory for all factories employing more than 150 workers to provide adequate shelters and a suitable lunch room for the use of workers during periods of rest. Almost all large industrial establishments had provided tiffin rooms and rest shelters for their workmen. Most concerns had also permitted the establishment of tea stalls on the premises but apart from this, little effort had been made to run co-operative canteens on the lines of those which are associated with most of the large factories in the West.

The Act of 1948 provides for the setting up of creches in factories that employ more than 50 women.

Except for the Ahmedabad Textile Labour Association, the Railwaymen's Unions, and the Mazdoor Sabha of Indore labour unions have not done much by way of labour welfare. This has been due largely to lack of funds. Some of the Railwaymen's Unions have organised co-operative societies, and various kinds of funds for the provision of specific benefits, such as, legal defence, death and retirement benefits, unemployment and sickness benefits and life insurance, etc.

In 1939, the Bombay Government first organised model welfare centres. In July 1953, the Government of Bombay transferred all welfare activities to the Bombay Labour Welfare Board constituted under the Labour Welfare Fund Act, 1953.

Labour welfare centres are classified under four heads: 'A', 'B', 'C' and 'D'. 'A' class centres have a full-time nursery school for children; a women's section providing literacy, sewing and embroidery classes and suitable games; outdoor games and gymnasium with all facilities for men; and separate arrangements for water-taps and shower baths for both men and women. Static as well as circulating libraries are attached to these centres; radio sets are provided; monthly cinema shows are arranged; and well equipped dispensaries are attached. 'B' class centres are intended to be a replica of 'A' class centres but on a very much smaller scale. 'C' class centres provide indoor recreation and educational facilities, static and circulating libraries and dispensaries. 'D' class centres provide only outdoor recreation, such as games and sports.

Welfare centres were also opened in the areas covered by the pre-Reorganisation States of Assam, Bihar, Madhya Pradesh, Punjab, U.P., West Bengal, Hyderabad, Madhya Bharat, Mysore, Rajasthan, Saurashtra, Travancore-Cochin, Delhi and Tripura.

Although the Factories Act requires that provision should be made for washing especially in factories where workers come into contact with injurious or obnoxious substances, very little effective provision exists in this regard because most factories only provide water for washing but not soap, soda, towels, etc. As for bathing facilities, extremely few employers provide this amenity. Section 42 of the Factories Act, 1948 provides for the maintenance of such facilities in every factory.

Other types of welfare work done by factories relate to the provision of recreational facilities, amenities for the education of workers and their children, the provision of cost price grain shops, the establishment of co-operative societies, etc.

On railways there are educational facilities for the children of the employees mostly free of charge. Staff Benefit Funds have also been created which give monetary help to the children and widows of the deceased employees.

Medical facilities provided by employers range from first-aid posts and dispensaries to first-class hospitals. There are some examples, in which first rate medical facilities are provided. The Tata Iron and Steel Co. maintain a large well-equipped hospital with 400 beds, and also 8 outdoor dispensaries. The Delhi Cloth Mills maintain a hospital which is fully equipped with X-ray apparatus and other modern appliances, and which gives free medical aid to both mill workers and their families and free food to indoor patients. The hospital at the Kolar Goldfields is a model of its kind. The Buckingham and Carnatic Mills of Madras and the three important groups of employers of the Assam Oil Co. at Digboi have also provided adequate medical facilities. In all railways in India there are medical departments under the control of chief medical and health officers with divisional medical officers seconded by a number of assistants.

The total amount of money spent by the Central Government on labour welfare except for railways during the year 1955-56: Rs. 157·10 lakhs.

The amount spent by Railways on labour welfare during 1955-56: Rs. 948·50 lakhs.

COAL MINES WELFARE FUND

This Fund was constituted under the Coal Mines Labour Welfare Fund Act of 1947. The principal objects for which this fund is to be utilised are defined in the Act. These are: (1) the improvement of standards of living including housing and nutrition, the amelioration of social conditions and the provision of recreational facilities for the benefit of the labour employed in the coal mining industry; (2) the provision of transport to and from work; (3) the improvement of educational facilities; (4) the provision of improvement of supplies of water; and (5) the improvement of public health and sanitation, the prevention of disease, the provision of medical facilities and the improvement of existing medical facilities. The Act makes provision for the appointment of an Advisory Committee consisting of Government Officers and an equal number of members representing colliery owners and workers employed in the coal mining industry of whom one has to be a woman.

Both the cost of administration of the fund and the salaries and allowances of the officers appointed in connection therewith are to be defrayed from the fund itself.

At present a cess of six annas per ton of coal or coke has been levied for being credited to the welfare fund. The principal activities of the fund which are financed out of this cess are:—

(i) Housing
(ii) Hospitals
(iii) Prevention of disease
(iv) Water supply
(v) Pit-head baths and creches and others.

The cess is now being apportioned between the Housing Account and the General Welfare Account of the fund in the ratio 2:7. A Coal Mines Labour Housing Board consisting of eight members has been set up.

The fund gives certain grants and subsidies to various other funds such as the Leper Fund.

Regional hospitals and maternity child welfare centres at Katras and Tisra in the Jharia coalfield and Chora and Searosole in the Raniganj coalfield have been opened. A central hospital for Jharia coalfield has been opened and the construction of a central hospital for the Raniganj coalfield has started.

For the prevention of disease, grants are being made to the Mines Boards of Health and a scheme for the treatment of tuberculosis has been drawn up. Anti-malaria work is also in full progress.

The construction of pit-head baths and of creches has now been made compulsory.

Mica Mines Labour Welfare Fund.—The Mica Mines Labour Welfare Fund Act, 1946, which was designed to constitute a similar fund for the benefit of mica workers, provides for the levy of an *ad valorem* duty not exceeding 6¼ per cent on all mica exported from India. Under the Act Advisory Committees for Bihar, Madras, and Rajasthan were constituted. In Madras three dispensaries have been started for use by mica miners and five radio sets have been installed in selected mica mining centres.

In June 1956, the Fund was running 13 primary schools, one middle school and 10 adult education schools at its own expense and was giving financial and other aids in the shape of buildings, furniture, books, etc. to 10 schools.

WORKERS' EDUCATION

The Government of India in co-operation with the Ford Foundation appointed an International Team to suggest steps to be taken for (*a*) education of trade union representatives in the techniques of trade union organisation, management and financing, (*b*) education of union members for intelligent participation in union affairs and (*c*) education of union representatives in responsible and effective participation in management.

The Team submitted its report in June 1957.

The main recommendations of the Team are:

1. A central board with semi autonomous authority and having a sufficiently representative character should be established for the purpose of formulating the policy and administering the educational programmes.

2. A similar board should be established in States or Regions and in important industrial centres.

3. The objective of workers' education programme should be to provide to any worker who wishes the opportunity to understand what a trade union is and how it operates and to develop the necessary skill, confidence and knowledge to participate in any level of trade union activity.

4. The nature of instruction should aim at inculcating knowledge of the structure, functions and traditions of trade unions; first hand experience regarding conducting of meetings, negotiations with employers and participation in welfare development programmes; and acquaintance with labour laws and regulations as well as workers' participation in management.

5. To make workers' education really effective and continuous, it should be conceived of as a life saving process and large variety of courses and conferences differing in duration and in their venue should be adopted.

6. Programme of training of teachers and teacher administrators should be inaugurated forthwith.

EVENING CLASSES TRAINING

The Government of India have decided to start evening classes at important centres like Bombay, Bangalore, Calcutta and Kanpur to help industrial workers to better their prospects.

About 10,000 workers are expected to benefit under the scheme during the second Five Year Plan period.

The subjects of instruction will be shop arithmetic, blue-print reading and trade theory.

The evening classes will be held for 2 hours thrice a week and the course will be of two years' duration. Any literate worker sponsored by the employer will be eligible for training.

Similarly, in pursuance of the recommendation of the Shiv Rao Committee, the Ministry of Labour, Government of India, have formulated the Pre-employment In-Plant Training (Apprenticeship) Scheme.

The scheme was expected to be implemented first in cities like Bombay, Calcutta and Gwalior in 1957 with 675 seats.

By the end of the second Five Year Plan the number of seats will be increased to 5,000 in all States. The Planning Commission has included a sum of Rs. 89·6 lakhs in the Plan for organising apprenticeship programmes. The expenditure will be shared between the Government of India and the participating States in the ratio of 6 : 4.

PENSIONS, GRATUITIES

All monthly and time-rated workmen in the industrial establishments of Government are entitled to pensions on retirement provided that a minimum of ten years' service as been put in. Outside Government concerns, pensions on retirement are almost non-existent although some concerns give small pensions to old employees who have put in long periods of trusted and faithful service but these are mostly *ex gratia* and cannot be claimed as of right.

All railway employees and the employees of local and public bodies and a few of the larger public companies receive gratuities on retirement. Gratuities are also paid to non-pensionable workers who have put in not less than thirty years' service in Government concerns.

In all cases specified periods of qualifying service have to be put in before gratuities can be earned. The rules of individual administrations vary widely but the most generally accepted principle is half a month's pay for each year of service limited to fifteen months' pay in all. Permanent Government servants who have put in less than ten years' active service are entitled to gratuity if they are compelled to retire on medical certificate.

The workers in Jute Mills in West Bengal have been awarded gratuity by the Industrial Tribunal on the following lines : On retirement, resignation or retrenchment after 15 years service : ½ month's basic wages per year of service subject to a maximum of 15 months' basic wages. On reaching the age of superannuation or termination or retirement on medical grounds and on death : a month per year of service with a maximum of 15 months' basic wages.

No gratuity is payable to a worker dismissed for mis-conduct.

For the period for which provident fund has been in operation no gratuity will be payable.

Schemes of gratuity have been introduced in several engineering concerns by awards of Tribunals, the pattern followed being similar to that in the case of the Jute mills.

The Employees' Provident Funds Act, 1952 provides as already mentioned for compulsory provident funds for employees in many industries.

A few large industrial establishments in India have started their own Retirement Benefit schemes where an account is opened for every individual worker to which a fortnight's or 13 days' pay is credited every year : interest is allowed and the amount standing to a worker's credit is paid to him on retirement.

Compulsory contributory schemes are provided for all permanent workmen in the factories owned by certain public bodies such as the Bombay Port Trust ; whilst both compulsory and optional non-contributory and contributory schemes obtain for permanent workmen in the factories owned by most municipalities. Most of the larger public utility companies and corporations such as the Tata electricity generating and distributing plants, and the Burmah-Shell Corporation, to mention only a few of many, provide contributory schemes for the benefit of the majority of their workmen. Several others have schemes for their supervisory and clerical establishments but not for their workmen.

The most usual amount of deduction from pay is one-twelfth of the monthly pay but the amount contributed by employers varies from 50 per cent to 100 per cent of the amount put in by the employee.

The Provident Fund Rules of different State Governments in India are by no means uniform. The Government of the former† Bombay State by a notification dated 20th March 1941, made it compulsory for all Government servants in receipt of a monthly income of Rs. 50 per month who joined Government service before that date or of Rs. 25 per month who joined after that date to subscribe to the Government Provident Fund. Pensionable Government servants can only join the non-contributory section of the Fund.

Profit sharing in this country has mostly taken the form of payment of bonuses according to the profit making ability of a concern. The question of bonus has already been dealt with elsewhere.

AGRICULTURAL LABOUR

Out of 58 million rural families in India nearly 17·6 million are those of agricultural labourers having an average annual income of Rs. 447 per family as against an expenditure of Rs. 468, according to an inquiry into the working and living conditions of agricultural labour conducted by the Union Labour Ministry in 800 villages representative of the Indian Union.

The object of the agricultural Labour Enquiry was to collect data on employment, earnings, cost of living, living standards and indebtedness of agricultural labourers in the Indian Union with a view to considering what protective and ameliorative measures, including the fixation of minimum wages, should be undertaken to improve conditions.

The enquiry was conducted in three stages *viz.* General Village, General Family and Intensive Family Surveys in about 800 villages selected on the principles of stratified random sampling. The General Family Survey covered 104,000 families and the Intensive Survey about 11,000 agricultural labour families. The data collected during the Intensive Family Survey related to the year March 1950 to February 1951. For administrative convenience the Inquiry was divided into six zones namely, North, East, South, West, Central and North-West, which corresponded with the Census Zones of 1951.

FINDINGS

The more important findings of the Enquiry are summarised below :—

Earning Strength.—On an average the total earning strength (which included helpers) per family was about 2·6. Work was done by almost all the men and a little over half the women and the children above 10 years of age. The proportion of women was more in south, west and central India.

Employment.—The Zonal differences in the average number of days employed on wages were considerable. Male agricultural labourers were employed for 289 days in North, 245 in Central, 224 in East, 202 in North West, 196 in West and 181 in South India.

Most women undertook casual employment mainly to supplement the family income. The average employment of women workers was 120 days in agricultural and 14 in non-agricultural labour. Of the total number of man days worked by casual labourers, men contributed 62 per cent, women 35 per cent and children the remaining 3 per cent.

Unemployment.—In the Indian Union as a whole as many as 97 per cent of the attached workers reported wage-paid employment every month ; and on the average they were unemployed for only 19 days during the year. The problem of unemployment concerned essentially the casual workers, of whom 82 per cent at a monthly average reported unemployment during an average of 8 days per month. On the average in the whole of India, an agricultural worker had paid employment for 218 days in the year, cultivated his own land for 49 days and was unemployed for 98 days.

Wages.—The actual payment of wages was made in a variety of ways, wages in cash and in kind, wages partly in cash and partly in kind. Payment on time basis and on a piece basis, with or without perquisites in the form of mid-day meal, tea or tobacco.

Of the total man days worked by adult casual workers in the Indian Union, payment on a piece basis accounted for only 5·5 per cent. Time wages amounted to 94·5 per cent.

In the total wage employment in agriculture 57·7 per cent of the man days were paid in cash, 32·2 per cent in kind and the balance 10·1 per cent partly in cash and partly in kind. The practice of supplying perquisites prevailed to the extent of 33 per cent of the total man days worked by adult workers.

The average daily wage rate of the casual worker was found to be 17·5 annas for the whole of India. It was 23 annas in the North-West, 20 in the East, 19 in the North, 18 in the West, 16 in the South and 13 in Central India.

The average daily wage of women workers amounted to 62 per cent of the men's average daily wages. The wage rates of women workers in South, West and Central India were proportionately much lower than in other zones.

Of the male workers about 58 per cent could secure additional non-agricultural employment during an average of 56 days per annum. Among women about 34 per cent were employed on non-agricultural labour for an average of about 41 days a year.

Unlike casual workers attached workers, who were mostly men, received fixed wages that were generally for a period of one year irrespective of the seasonal nature of the work.

Minimum wage rates have so far been fixed for agricultural workers under the Minimum Wages Act, 1948 by the States† of Punjab, Delhi, Kutch, Himachal Pradesh, Uttar Pradesh, Bihar, Assam and Rajasthan, in Kutch, in Bombay, in Coorg, in Mysore, and in the former Vindhya Pradesh area in Madhya Pradesh.

In the Indian Union as a whole children formed 4·6 per cent of the total agricultural labour force. On the average they were employed for 150 days in agricultural and 15 days in non-agricultural work during the year. The daily wage was 11·1 annas in agricultural and 9·9 in non-agricultural employment.

† Pre-reorganization.

Income.—The family had as an economic unit various sources of income, including agricultural and non-agricultural labour, the cultivation of its own land, and occupations other than farming. The average annual income per family worked out to Rs. 447 of which Rs. 287 accrued from agricultural labour. About 57 per cent of the total income from agricultural wages accrued from cash payments and the remaining 43 per cent from payment in kind, including perquisites.

The average income of an attached worker's family was Rs. 489 and that of a casual worker's family Rs. 442.

Cost of Living.—The income of the agricultural labour families being low, it was the necessity to subsist that guided their expenditure and there was hardly any problem of preference as regards goods and services on which money should be expended.

With an all India average income of Rs. 447 the expenditure per agricultural labour family was Rs. 468 including Rs. 7 on ceremonies. There was thus a deficit of Rs. 14 on consumption alone. Of the 461 rupees spent on recurring items of expenditure, Rs. 393 (85·3 per cent) was spent on food, Rs. 29 (6·3 per cent) on clothing, totalling 91·6 per cent on food and clothing alone. Considered by zones, the annual income per family was Rs. 551 for North, Rs. 506 for East, Rs. 382 for South, Rs. 391 for West, Rs. 417 for Central, and Rs. 651 for North-West.

Taking the Indian Union as a whole the caloric intake of an agricultural worker was 2,220 and thus short of the normal requirement (3,000 calories) by about 25 per cent.

Indebtedness.—About 45 per cent of the agricultural labour families were indebted, the average debt per family being Rs. 47. Taking into account only the indebted families, the average debt was Rs. 105. The percentage of indebted families was the highest in North-West (75·8) and lowest in North. The percentage of casual workers families in debt was 44 and of attached workers families 51. The amount of debt per indebted family was Rs. 100 for casual workers and Rs. 143 for attached workers. The higher indebtedness of the latter was accounted for by the fact that it was easier for them to secure loans from their employers, generally as advances from wages. Debts were incurred mainly for production, consumption and social purposes, the debt on consumption alone being Rs. 78 out of an average debt of Rs. 105 per indebted family.

The biggest single source of borrowing was moneylenders; next in importance came employers. The amounts borrowed were Rs. 38 from the former and Rs. 22 from the latter. Shopkeepers lent Rs. 6 and Co-operative Societies only Re. 1.

CENTRAL LABOUR INSTITUTE

As a step towards meeting the need for an agency designed to afford facilities for the scientific study of the various aspects of industrial development as relating to the human factor, the Planning Commission, as part of the First Five Year Plan, recommended the establishment of a National Museum of Industrial Safety, Health and Welfare. The Museum is to serve as a nucleus of an Institute for conducting specialised courses of training and education in labour problems.

The Institute will be a composite one, comprising (1) a Museum of Industrial Safety, Health and Welfare, (2) an Industrial Hygiene Laboratory, (3) a Training Centre, (4) a Library-cum-Information Centre, (5) a Productivity Centre, and (6) a Training-within-Industry Centre.

A course in Training-within-Industry has started functioning with a well-equipped staff. It provides facilities for the training of nominees of industrial concerns as T.W.I. Instructors. The Centre which is designed to cater to the needs of the industry in the country is at present located in the Industrial Assurance Building, Churchgate, Bombay 1, and is under the direction of Mr. P. K. Sathe, Deputy Adviser (Factories), Ministry of Labour, Government of India.

The Government of Bombay have made available free of cost a 13 acre plot of land on the Kurla Hills just behind the Santa Cruz Aerodrome at Bombay. A capital grant of Rs. 10 lakhs has been sanctioned by the Central Government for the construction of the main Institute building. An Operational Agreement has been signed between the U.S. Government and the Government of India under which a sum of $100,000 has been made available for the purchase of plant, equipment and technical publications of the Institute. The Institute was expected to start functioning by the middle of 1957.

TRIPARTITE LABOUR MACHINERY

The Tripartite Labour Machinery at the centre consists of (*a*) Indian Labour Conference, (*b*) Standing Labour Committee and (*c*) Industrial Committees. Besides, there are such bodies as the Joint Consultative Board, the Central Advisory Council, the Labour Ministers' Conference etc.

Indian Labour Conference

The Indian Labour Conference is composed of 24 members representing the Central and State Governments and 9 members each representing the employers and workers, nominated by the Government of India in consultation with the all-India organisations of employers and workers.

The function of the Conference as laid down at the fourth Indian Labour Conference is to "advise the Government of India on any matters referred to for advice taking into account suggestions made by the Provincial Governments, States and Chamber of Princes† and the representative organisations of employers and workers recognised for the purpose of the Conference".

The Indian Labour Conference has held 15 sessions upto July 1957. No meetings were held in 1946, 1949 and 1953. The last session was held in New Delhi in July 1957.

The 15th session of the Indian Labour Conference which was held in New Delhi on the 11th and 12th July 1957 with Mr. Gulzari Lal Nanda, Union Minister for Labour & Employment in the chair, endorsed the recommendations regarding workers' education contained in the report of the Ford Foundation Team on the subject, and decided to intensify the Training-within-Industry Programme.

As regards worker participation in management, as the employers were willing to introduce schemes of worker participation in selected industrial units on a voluntary basis it was not considered necessary to legislate in the matter (See below).

The main functions of the joint council were to include provision of means of communication, improvement of working and living conditions, improvement in productivity and assistance in the administration of laws and agreements.

The council would be entrusted with some administrative responsibilities in the management of welfare schemes.

The conference agreed on certain principles to be followed by both employers and workers in the matter of discipline.

These include (1) no strike or lock-out without notice and no go-slow tactics, (2) no acts of violence, intimidation or coercion, (3) utilisation of existing machinery for settlement of disputes and (4) speedy implementation of awards and agreements.

The conference also drew up a model agreement to guide employers in regard to rationalisation, the underlying principles being that there should be no retrenchment or loss of earnings of the existing employees, that there should be a proper assessment of work-loads by experts and that there should be an equitable sharing of benefits of rationalisation as between the community, the employer and the worker.

Dealing with wage policy during the second Five-Year Plan, the conference adopted norms which would be a guide for all wage fixing authorities in the determination of the minimum wage.

The standard working class family should be taken to comprise three consumption units for one earner and its food requirements should be calculated on the basis of the diet recommended by Dr. Akroyd.

Clothing should be estimated at 18 yards per annum per head and in respect of housing, the rent corresponding to the minimum area provided for under Government's Industrial Housing Scheme should be taken into consideration.

Fuel, lighting and other miscellaneous items of expenditure should constitute 20 per cent of the total minimum wage.

The conference also felt that a Tripartite Wage Board was the appropriate machinery for wage fixation.

The conference decided to popularise the Subsidised Industrial Housing Scheme among employers and Co-operative Societies and recommended that the quantum of financial assistance to them should be raised.

Standing Labour Committee

The Standing Labour Committee was constituted by a resolution of the Indian Labour Conference adopted in August 1952. At present the Committee consists of 5 representatives each of the employers and workers and 12 representatives of the Governments. The representatives are nominated by the Government of India in consultation with the all-India organisations of employers and workers.

The function of the Committee is to consider and examine such questions as may be referred to it by the Plenary Conference or the Central Government.

The Committee has met 16 times so far, the last session being the one held in New Delhi in October 1957.

Both the Conference and the Committee have so far considered no less than 80 items each and besides promoting such legislation as Industrial Employment (Standing Orders) Act, 1946, Minimum Wages Act, 1948, and the Employees' Provident Funds Act, 1952, they were responsible for the appointment of the Labour Investigation Committee, introduction of health insurance schemes for industrial workers etc.

Tripartite Machinery in the States

Bombay was the first State to set up a tripartite Labour Advisory Board in March 1947. This example was followed by Uttar Pradesh, Bihar, West Bengal, Madras, etc.

The function of these boards is to help maintain harmonious industrial relations and advise Government on matters affecting labour.

WORKERS' PARTICIPATION IN MANAGEMENT

A study group set up to report on the question of workers' participation in management published its report at the end of May 1957.

The study group was led by the Secretary to Government, Ministry of Labour (at the time Mr. Vishnu Sahay). Before it completed its study the group visited the U.K., Sweden, France, Belgium, Switzerland and Yugoslavia.

The main recommendation of the group is that the Government of India should put through enabling Legislation to direct selected industries to operate given schemes relating to workers' participation in management.

† Does not now exist.

The report emphasises that management councils should not rival trade unions. A demarcation of functions is necessary and collective bargaining matters touching wages, bonus and workers' grievances should be left to the latter.

The objective of the joint councils should be to collaborate in raising productivity, provide a means of communication, improve working and living conditions, encourage suggestions and assist in the administration of laws and agreements.

The councils may be consulted on matters such as alterations in standing orders, retrenchment, rationalisation, closure, or reduction of operations, introduction of new methods, procedures for engagement of labour and punishment.

They can also receive information and make suggestions about the general economic position of the concern, market trends, production and sales programmes, organisation, methods of manufacture and the balance sheet.

The division of functions between the joint councils and the unions should be flexible and left to be settled by consultation between the management and the representative trade union.

To counteract the danger of apathy, it is suggested that the councils of management may also be given some administrative responsibility. These may cover the administration of welfare schemes, the supervision of safety measures, the operation of training and apprenticeship schemes, the preparation of working-day and holiday schedules and payment of rewards for valuable suggestions.

On balance, legislation may help to create the climate and the necessary sense of obligation.

Government should have the power to decide where the law should be applied. The consideration that will apply may be a minimum size of industry in terms of employment, the absence of rival unions, and the stability of the industry.

It should not apply to industries that are complex or in which the workers have to be protected under the Minimum Wages Act.

For undertakings spread over several places, there may be separate councils at the local, regional and national levels.

The report suggests the inclusion of technicians in the joint councils and stresses the importance of workers' education in schemes of labour participation in management. The workers must have knowledge of their industry and some general economic background apart from mere industrial skill to participate usefully and effectively.

The study group has, therefore, recommended that the Government should undertake the responsibility for organising a sustained educational campaign in collaboration with the unions and employers' organisations.

A member of the study group said that the textile and sugar industries might be a suitable starting point.

As already mentioned the Indian Labour Conference which met in July 1957 appointed a tripartite Committee to compile a list of major industries in the public and private sectors in which workers' participation in management could be introduced.

This Committee compiled a list early in August.

The industries selected from the private sector are: cotton textiles, jute, engineering, chemicals, tobacco, paper, sugar, cement, mines and plantations.

Those from the public sector include: railway workshops and yards, posts and telegraphs, ports, shipyards, transport workshops, mines, printing presses and electricity undertakings.

The committee decided that the State Governments should also be requested to name suitable industrial undertakings under their control for inclusion in this experiment of workers' participation in industrial management.

The criteria for selecting undertakings where the scheme can be introduced include: (a) The undertaking should have a well-established, strong trade union functioning; (b) The size of the undertaking in terms of employment should be at least 500 workers; (c) The employer should be a member of one of the leading employers' organisations so far as the private sector is concerned, likewise, the trade union should be related to one of the central federations; and (d) The undertaking should have had a fair record of industrial relations.

The committee also recommended that representatives of employers and workers from the selected industrial units should be invited to a seminar convened by the Labour Ministry to settle the various phases for the implementation of the scheme. In addition, employers' and workers' organisations should be asked to furnish a list of experts with knowledge of labour problems at the unit level who will constitute an advisory panel to provide guidance to both employers and workers in implementing the scheme.

At the time of writing only the list submitted by the Government of Kerala was available (Dec. 1957). The list of industries in which workers' participation in the management could be tried was as follows:

(1) Kerala State Transport; (2) P.W.D. workshops in Trivandrum; (3) The Travancore Fertilisers and Chemicals Factory in Alwaye; (4) The Rubber Factory in Trivandrum; (5) Kundra Ceramics near Quilon; and (6) some units of the coir industry in the private sector where the managements are willing.

In regard to the Kerala State Transport, the State Government has already included workers' representatives on the advisory board.

It should be added here that in Madras the Simpson group has given the workers an opportunity to participate in the management through joint Councils. The group comprises 14 companies and 7,000 employees. On the council the workers as well as the management have an equal number of representatives that is, 15.

The Government-owned Transport engineering work has a similar joint council.

The two other concerns where workers participate in management are: The Tata Iron and Steel Company, Jamshedpur and the Modi Spinning and Weaving Mills, Modinagar, U.P.

SEMINAR

A seminar on labour-management co-operation was held in New Delhi on 31st Jan. 1957. Workers' and employers' representatives from more than 30 units attended the seminar which lasted two days. The Union Minister for Labour presided.

The model agreement approved by the seminar says by way of preamble that the object of the joint councils would be among other things, to step up productivity in the interests of the unit, the workers and the country generally, and to impart to the employees a sense of participation in the enterprise.

The councils will administer welfare activities and supervise safety measures and schedules of work and holidays. They will be entitled to discuss and make suggestions with regard to the economic situation of the concern, production and sales programmes and the general running of the undertaking. They will be consulted by the management in the administration of standing orders and about closures of reduction in operations.

The Total membership shall range between six and 12, and decisions have to be unanimous to be valid. The trade union shall elect half the members, the other half being nominated by the management. One non-employee member can be elected except where the management is agreeable to this limit being raised to two, which is the maximum.

The council shall hold office for two years. The posts of chairman and vice-chairman shall rotate between the workers' and managements' representatives.

LABOUR ADMINISTRATION

Apart from dealing with labour legislation and labour conditions and attempting and bringing about uniformity of standards in the different States the Ministry of Labour of the Government of India has undertaken additional responsibilities for the placement of civil and military demobilised personnel, refugees, etc. It has continued active co-operation with organised employers and labour organisations through the Tripartite Labour Conference and Standing Labour Committee.

Apart from the main Secretariat of the Ministry of Labour it has several attached and subordinate officers. The activities of some of these have been described in the relevant sections, such as Miners' Welfare Fund, and notes on some others are briefly given below.

Labour Bureau.—To meet the ever growing needs of Government, industry and labour for accurate and reliable information relating to labour conditions, labour legislation, etc., the Central Government established on 1st October 1946, a Labour Bureau.

Among other things the Bureau edits the *Indian Labour Gazette* and the *Year Book*.

Chief Labour Commissioner.—The Central Government, in the Ministry of Labour, have also appointed a Chief Labour Commissioner. This officer is in charge of industrial relations and conciliation, labour welfare, operation of labour laws, and maintenance of information regarding wage rates and conditions of work in Central undertakings. There are a number of deputies working under him known as Regional Commissioners.

Chief Adviser of Factories.—In order to ensure uniformity in the administration of the Indian Factories Act and to improve conditions generally in Indian factories, the Government of India have appointed an officer designated the Chief Adviser of Factories. The Chief Adviser has a number of deputies, including deputies who attend to matters relating to the health of the workers and the sanitation and cleanliness of factories.

INDIA AND THE I. L. O.

India joined this organisation at the very start and since 1922 has been one of the eight countries of chief industrial importance and as such has been allotted a permanent seat on the Governing Body of the Organisation. India also contributes liberally towards the finances of the Organisation. In 1956 India's contribution amounted to U.S. $252,194 which is 3·41 per cent. of the total contribution of all member States. India's share in the appointments of the office is, however, somewhat inadequate.

At the headquarters in Geneva the number of Indian nationals employed at the end of 1955 as Assistant Members of division and above was twelve. Among these the highest post is held by Mr. B. Raghunath Rao who is the senior-most Assistant Director General and the only Asian holding such a post. The Indian Branch at New Delhi employs 19 persons including the Director. The Asian Field Office of the I.L.O. at Bangalore which has been supervising the technical assistance programme in countries of South and East Asia employs 15 Indians.

Industrial Committees

The Eighth session of the Indian Labour Conference decided to establish Industrial Committees to discuss various specific problems special to industries covered by them and submit their reports to the Conference. The first Industrial Committee to be set up in pursuance of the decision was that on Plantations in January 1947. In 1948 Industrial Committees were set up for four important industries *viz.* Cotton Textiles, Coal Mining, Cement and Leather goods, and in 1955 for Building and Construction industry. There is no uniformity in the representation accorded to Government, employers and workers in these Committees but the representation given to employers and workers is equal in all cases.

Barring the Plantation Committee which has met seven times so far, the other Committees have not been very active. The Plantation Labour Act, 1951, the extension of the Industrial Disputes (Amendment) Act, 1956 relating to lay-off and retrenchment compensation to plantation labour, grant of sickness benefit of two weeks in a year are some of the achievements of this Committee.

Joint Consultative Board

The Joint Consultative Board for Industry and Labour was constituted to promote agreements between employers and workers and to ensure their proper implementation following a recommendation in that regard made by the Development Committee on Industries in 1951. The Board as originally constituted consisted of three representatives each of employers and workers with the Union Minister for Planning as Chairman. Since February 1954 the Board has been reconstituted as a purely bi-partite body and it now consists of 8 members, 4 representing employers and 4 workers. It considers such questions as rationalisation, productivity studies, payment by results, association of workers with management, etc. At its last meeting held in September 1956 the Board decided to set up a subsidiary Joint Consultative Board for the Cotton Textile Industry.

India has so far ratified 23 out of the 103 Conventions adopted by the International Labour Organisation. Twelve of these were ratified upto 1951. She has in addition incorporated into her national legislation the essential features of many other Conventions.

The following is a list of Conventions ratified by India together with the dates of ratification within brackets :—

†1. No. 1 Hours of Work (Industry), 1919 (14-7-1921).

@2. No. 2 Unemployment, 1919 (14-7-1921).

3. No. 4 Night Work (Women), 1919 (14-7-1921).

4. No. 5 Minimum Age (Industry), 1919 (9-9-1955).

5. No. 6 Night. Work of Young Persons (Industry), 1919 (14-7-1921).

6. No. 11 Right of Association (Agriculture), 1921 (11-5-1923).

7. No. 14 Weekly Rest (Industry), 1921 (11-5-1923).

8. No. 15 Minimim Age (Trimmers & Stokers), 1929 (10-12-1922).

9. No. 16 Medical Examination of Young Persons (Sea), 1921 (20-11-1922).

10. No. 18 Workmen's Compensation (Occupational Diseases), 1925 (30-9-1927).

11. No. 19 Equality of Treatment (Accident Compensation), 1925 (30-9-1927).

12. No. 21 Inspection of Emigrants, 1926 (14-1-1928).

13. No. 22 Seamen's Articles of Agreement, 1926 (31-10-1932).

14. No. 26 Minimum Wage-Fixing Machinery, 1928 (10-1-1955).

15. No. 27 Marking of Weight (Packages Transported by Vessels), 1929 (7-9-1931).

16. No. 29 Forced Labour, 1930 (30-11-1954).

17. No. 32 Protection Against Accidents (Dockers) (Revised), 1932 (10-2-1947).

@18. No. 41 Night work (Women) (Revised), 1934 (21-11-1935).

19. No. 45 Underground Work (Women), 1935 (25-3-1938).

20. No. 80 Final Articles Revision, 1946 (17-11-1947).

21. No. 81 Labour Inspection, 1947 (8-4-1949).

22. No. 89 Night Work (Women) (Revised), 1948 (27-2-1950).

23. No. 90 Night Work of Young Persons (Industry) (Revised), 1948 (27-2-1950).

In April 1951 the I.L.O. and the Government of India concluded an agreement for provision of technical assistance to India. In consequence of this three experts visited India in September 1952 to advise the Government of India on the implementation of the Employees' State Insurance Scheme. A team of five experts on productivity came to this country in December 1952 to show how productivity and earnings of workers could be improved by the application of modern techniques of work-study, plant organisation and payment by results. To prepare plans for a national Training within Industry Centre an expert arrived in this country in August 1953 and demonstrated the utility of the system in mills in Ahmedabad and Baroda. Besides this assistance, I.L.O. experts have also advised on vocational training, employment information and occupational classification.

† Conventions containing special provisions applicable to India.

@ Ratification denounced.

FORESTS

TOTAL Forests: 278,083 sq. miles; Percentage of Forests to Land: 22·3.

Average annual revenue: Rs. 23·08 crores (average of 1953-55).

Allotment under First Five-Year Plan: Rs. 11·69 crores.

Under Second Plan: Rs. 24·40 crores.

Forest area in India is relatively small, the forests are unevenly distributed and the production is also proportionately low.

Systematic management and administration of forests in India dates back to over a century. The first enunciation of policy was in 1894, when forests were classified into four classes: (*a*) protection forests; (*b*) timber forests; (*c*) minor forests; and (*d*) pasture lands.

The limited outlook of this policy was enlarged upon by the Government of India, and the new forest policy laid down in 1952 provides for the following:

(1) An objective of one-third of all land in the country under forests, with a larger proportion in the hills (20 per cent in plains, 60 per cent in hills); (2) the reconditioning of our mountainous regions, river valleys and coastal lands by preserving and establishing protection forests; (3) the immobilisation of deserts and shifting sands; (4) sustained yield management of national forests, aiming at national self-sufficiency; (5) regulated development and utilisation of village forests; (6) development of tree lands more systematically; (7) State control over and guidance of working of private forests; (8) preservation of wild life; and (9) for State policies to be in conformity with the general principles laid down in the National Forest Policy.

Most of the country's forests are worked according to Forest Working Plans prepared by special staff. On the basis of present conditions and past working, these plans lay down, for a 10-15-year period at a time, silvicultural systems, schedules for thinnings and other cultural work, methods of management, staff requirements and exploitation programmes, besides development schemes for roads, buildings.

The formation of forest plantations involving a long-term policy for increased production, is now-a-days an important feature of Indian Forestry, *e.g.* the very valuable and extensive plantations of Teak, Bluegum, Wattle, Casuarina, Sal, Deodar, as also evergreen species and softwoods for matches.

'Forests' are a State subject.

The Government of India, however, are responsible for forest research and forest education. The Ministry of Agriculture in the Government of India co-ordinates forest activities in the country, but no forests are directly worked by it except the Andaman forests. The Inspector-General of Forests is their technical adviser in forest matters.

All States have separate Forest Departments. Usually a Chief Conservator of Forests (C.C.F.) heads the Department.

For purposes of administration the States are divided into one or more Forest Circles, each in charge of a Conservator of Forests.

Each Circle is in turn divided into four to six Divisions, each under a Divisional Forest Officer. The unit of administration and execution of forest works is the Forest Range, managed by a Range Forest Officer. Five or six of these are included in each Division. A Division may be coextensive with Civil districts or larger or smaller than them depending on the importance of the locality.

EDUCATION AND RESEARCH

Forest research and education are centralised in one large institution known as the Forest Research Institute and Colleges located at Dehra Dun.

The Forest Research Institute as such came into being in 1906 as an adjunct to the Imperial Forest College, as it was then called. Through progressive stages of development the Institute has now attained a position which has earned for it international prestige as evidenced by its recognition by the Food and Agricultural Organisation of the United Nations as a Centre for training in Forestry for South-East Asia.

The Forest Research Institute and Colleges are under the administrative control of the Ministry of Agriculture of the Government of India. Its administrative Head is designated the President.

The education wing of the Institute comprising three Colleges is in the charge of the Director of Forest Education.

The Indian Forest College trains recruits of the State Governments to their gazetted forest services. The course stretches over a period of three years.

The Northern Forest Ranger College (Dehra Dun) and the Southern Forest Ranger College (located in Coimbatore) offer training for two years to rangers selected by State Governments in the northern and southern regions of the country respectively.

The research wing of the Institute is organised under two main heads—biological and utilisation. Research on the biological side pertains to the rearing and protection of forests and is conducted in the Silviculture, Botany, Mycology and Entomology branches, while that on the utilisation of forest products is undertaken in the Wood Anatomy, Wood Seasoning, Wood Preservation, Composite Wood, Timber Mechanics, Timber Engineering, Minor Forest Products, Chemistry of Forest Products and Cellulose and Paper and Logging Branches.

Silviculture is under the direction of a Silviculturist. Much of the actual research work is, however, decentralised and done by local State silviculturists in the States, but the Central Silviculturist co-ordinates their work, does all the statistical computing and acts as an information bureau on silvicultural matters for the whole of India.

The Institute also runs a Service Branch, a Statistical Branch and a Publicity and Liaison Branch.

An advanced Diploma course in Pulp and Paper technology, the duration of which is one academic year was started in August, 1957 in the Cellulose and Paper Branch of the Institute. The minimum qualification for admission to the course is a degree in Chemical Engineering.

In pursuance of the decision of the Government of India to establish a regional Centre for forest research in the south, the administrative control of the Forest Products Laboratory, Bangalore, was transferred to the Forest Research Institute and Colleges from April 1957, and it now functions as a nucleus for this centre.

A large number of bulletins and other publications are issued by the Forest Research Institute. Of these a list can be obtained from the Publicity and Liaison Officer, Forest Research Institute, New Forest, Dehra Dun.

FOREST PRODUCE

Forest produce is divided into two main heads—(1) Major produce, *i.e.*, timber and firewood, and (2) Minor produce, comprising all other products, such as bamboos, canes, leaves, fruits, fibres, grasses, gums, resins, essential oils, medicinal and poisonous plants, fatty oils and fats, dyes, tans and animal and mineral products.

The annual outturn of timber and fuel from all sources averages about 539 million cubic feet.

The bulk of the timber supply is used for railway sleepers, constructional requirements, furniture, plywood (especially for tea chests), matches, etc.; but the country imports timber for specialized uses such as jute and textile mill accessories.

Exports from India are limited to selected rosewood logs for high grade furniture to Europe, teak poles for the Middle East and a few other items. Up-to-date, Indian rural economy (and perhaps only to a slightly less extent even its urban population) depends on wood fuel, much of which is derived from the forests. The large-scale use of bamboos and some forest grasses in the expanding paper industry, the exports of sandalwood and its oil and the development of medicinal plants deserve mention in connection with the utilisation of other forest produce.

In the Andamans, the North Andaman forests are leased out to a private agency for working the virgin forests of these islands. The Middle and South Andamans continue to be worked departmentally, mainly to meet the needs of the mainland especially for matchwood and plywood logs. The Andamans also contribute in an increasing measure (by restricting on exports abroad) towards the needs of railways, etc. on the mainland for Padauk, Gurjan and other hardwoods.

Nearly two million people are estimated to be employed on forest work; but the figures are probably below the actuals, as much forest labour is not full-time labour, devoting seven or eight months in the year to agriculture and the rest to forest work.

The general practice of the Forest Departments in the various States is to dispose of standing timber and forest produce by open auctions. Departmental conversion and sales of the produce itself are resorted to only where special considerations necessitate them, *e.g.* working of sandalwood because of its great value.

Timber production in India is not sufficient to meet internal needs. While foreign markets could be readily developed for Indian timber, exports are limited to small quantities of ornamental timbers for European countries, teak poles for the Middle East from the west coast and traditional despatches to markets in Pakistan.

Exports are regulated by quotas which are periodically re-examined.

Imports are regulated by protective or revenue duties and are restricted to such specialized items as are not readily obtainable from local production.

Revenue, Expenditure and Surplus of Forests in India (1954-55) (Rupees in thousands)

State (existing before the reorganisation).	Revenue	Expenditure	Surplus
Andhra	89,13	31,00	8,13
Assam	67,07	52,91	14,16
Bihar	76,33	65,14	11,19
Bombay	4,82,03	1,51,44	2,30,59
Madhya Pradesh	4,09,60	1,44,28	2,65,32
Madras	1,31,88	63,71	68,17
Orissa	1,42,88	43,37	99,51
Punjab	47,57	45,33	2,24
Uttar Pradesh	4,14,04	1,66,92	2,47,12
West Bengal	73,45	68,65	4,80
TOTAL	18,03,98	8,32,75	9,71,23
Hyderabad	93,25	33,21	60,04
Jammu and Kashmir	80,21	30,39	49,82
Madhya Bharat	74,61	20,73	53,88
Mysore	1,29,61	41,52	88,09
PEPSU	6,86	16,25	(—)9,39
Rajasthan	41,16	27,21	13,95
Saurashtra	2,90	10,01	(—)7,11
Travancore-Cochin	1,93,67	62,49	1,31,18
TOTAL	6,22,27	2,41,81	3,80,46
Ajmer	2,04	2,04	..
Bhopal	20,83	5,82	15,01
Coorg	33,82	12,65	21,17
Himachal Pradesh	80,20	29,98	50,22
Kutch	39	1,16	(—) 77
Manipur	1,59	1,80	(—) 21
Tripura	7,94	6,86	1,08
Vindhya Pradesh	67,43	23,86	43,47
TOTAL	2,14,24	84,17	1,30,07
Andaman and Nicobar Islands	66,39	75,12	(—)8,73
Forest Research Institute and Colleges	5,21	25,13	(—)19,92
GRAND TOTAL	27,12,09	12,58,98	14,53,11

Note :—The following States were unaffected by the reorganization : Assam, Orissa, U.P., Kashmir, Delhi, Himachal Pradesh, Manipur, Tripura, Andamans.

Figures for the present Punjab can be got by adding figures for the old Punjab and PEPSU.
Approximate figures for Rajasthan can be got by adding figures for Rajasthan and Ajmer.
For the rest of the States figures are given where available under individual States.

SECOND FIVE-YEAR PLAN

In the Second Five-Year Plan, forest development will be co-ordinated and assisted by the Centre on a large scale, in the period 1956-61. States have adopted many schemes for raising commercial, industrial and fuel plantations, for increased output of timber and other produce, for afforestation of degraded forests and waste lands, for making forests more accessible for extensive working, for conservation of wild life and for amenities for forest labour and staff.

On all this an expenditure of about Rs. 25 crores is proposed and the Centre will help the States with loans and grants. The Government of India has also plans for an expenditure of over Rs. 2 crores for expanding their research and training organizations.

The general aim is to rehabilitate about 380,000 acres of forest, and to bring 13,000 acres under wattle and blue gum, 2,000 acres under medicinal plants, 50,000 acres under matchwood and another 50,000 acres under commercially important species like teak.

A Forestry Commission might be set up for management and development.

Achievement under the first Plan includes : bringing under State control about 20 lakh acres of forest land, construction of 3,000 miles of forest roads, rehabilitation of 75,000 acres, and an increase in matchwood area at the rate of 3,000 acres a year.

The area and classes of forest State-wise (States before the re-organization) in 1954-55 are shown in the table below :

State (pre-reorganization)	Forest Area in Sq. Miles.			
	Reserved	Protected	Unclassed	Total
Andhra	9,700	2,057	1,916	13,673
Assam	6,373	110	12,961	19,444
Bihar	1,492	11,497	898	13,887
Bombay	14,044	1,290	5,529	20,863
Madhya Pradesh	26,184	10,453	25,967	62,604
Madras	8,633	1,301	..	9,993
Orissa	12,222	12,023	..	24,245
Punjab	181	4,582	258	5,621
Uttar Pradesh	9,940	1,245	3,745	14,930
West Bengal	2,669	14	2,484	5,167
TOTAL	91,438	44,572	53,758	189,768
Hyderabad	8,693	2,195	1,316	12,204
Jammu and Kashmir	10,171	754	133	11,058
Madhya Bharat	7,107	5,882	3,212	16,201
Mysore	4,388	619	195	5,202
PEPSU	87	87	124	298
Rajasthan	1,469	1,211	13,365	16,045
Saurashtra	565	..	432	997
Travancore-Cochin	2,976	76	..	3,052
TOTAL	35,456	10,824	18,777	65,057
Ajmer	172	..	..	172
Bhopal	1,317	731	298	2,346
Coorg	517	..	610	1,127
Himachal Pradesh	637	2,526	865	4,028
Kutch	..	..	197	197
Manipur	388	857	1,080	2,325
Tripura	1,020	2,438	..	3,458
Vindhya Pradesh	5,613	101	4,204	9,918
TOTAL	9,664	6,633	7,254	23,571
The Andaman and Nicobar Islands	1,498	555	447	2,500
GRAND TOTAL	138,056	62,604	80,236	280,896

Note :—The following States were unaffected by the reorganization : Assam, Orissa, U.P., Kashmir, Delhi, Himachal Pradesh, Manipur, Tripura, Andamans.

Figures for the present Punjab can be got by adding figures for the old Punjab and PEPSU.
Approximate figures for Rajasthan can be got by adding figures for Rajasthan and Ajmer.
For the rest of the States figures are given where available under individual States.

AGRICULTURE

INDIA is predominantly an agricultural country. About half of the country's national income is derived from agriculture and allied activities which absorb nearly ⅔ of its working force (of about 152 million in 1956 inclusive of dependents).

The gross value of the agricultural commodities produced in the country (1950-51) was Rs. 48,660 million (and net value Rs. 41,120 million).

The values of the principal crops were :— Rice : Rs. 11,990 million ; Wheat : Rs. 3,340 million ; Barley : Rs. 800 million ; Jowar : Rs. 1,940 million ; Bajra : Rs. 810 million ; Gram : Rs. 1,470 million ; Arhar : Rs. 830 million ; Coconut : Rs. 760 million ; Groundnut : Rs. 2,160 million ; Rape and Mustard : Rs. 690 million ; Chillies : Rs. 680 million ; Tobacco : Rs. 710 million ; Sugarcane : Rs. 3,050 million ; and Cotton : Rs. 1,130 million.

India virtually holds the monopoly in lac, leads the world in groundnut and tea production, and is the second largest producer of rice, jute, raw-sugar, rape, sesamum and castor seeds.

Some major facts about Indian agriculture (1954-55) : Area of India, 811 mil. acres ; area available for land utilization, 721 mil. acres (rest is mostly unsuitable for cultivation) ; uncultivated area 406 mil. acres (forest 133 mil. acres, area not available for cultivation 122 mil. acres, other uncultivated area 94 mil. acres and fallow 54 mil. acres) ; area actually sown 315 mil. acres ; total cropped area taking into account area sown more than once 352 mil. acres ; area sown with food crops 267 mil. acres ; area sown with non-food crops 85 mil. acres ; total area irrigated 54 mil. acres.

Average rainfall 45" ; deficiency of 25 per cent is classed dry ; deficiency of 40 per cent severe drought ; usually one year in five is a dry year, one in ten, a year of severe drought, one in 20 to 25 years wide-spread severe drought.

Out of the total cultivated area in the Indian Union of 315 million acres about 54·4 million acres are irrigated annually. Of this area 22·3 million acres are irrigated by canals, 9·8 million acres by tanks, 16·4 million acres by wells, and 5·9 million acres from other sources. The percentage of irrigated area to total cultivated area is, however, small, being only a little over 17 per cent. Protective irrigation works have made agriculture stable instead of precarious in many districts.

About one-fifth of the total irrigation of the country is got from lifting water from wells ranging in depth from a few feet to over fifty feet.

Tank irrigation is common in central and southern India.

Construction of temporary Bandharas across streams and small rivers after heavy monsoon period is over, is also common in parts of Bombay and Madras States for irrigation during the drier Rabi period.

The great bulk of agricultural land in India is deficient in organic matter. In India, cattle dung is largely utilised as village fuel and only about 40 per cent of it is used for manurial purposes.

The following table will show the area under principal crops and the yield :

AREA AND PRODUCTION

Crops	Area under crops (Thousand acres)			Production (Thousand tons)		
	1954-55 (a)	1955-56 (a)	1956-57 (a)	1954-55 (a)	1955-56 (a)	1956-57 (a)
Rice (c)	75,949	76,864	78,174	24,531	26,846	28,142
Wheat	27,512	30,386	32,891	8,778	8,569	9,068
Barley	8,309	8,382	8,594	2,870	2,749	2,744
Maize	9,511	9,116	9,244	2,939	2,554	3,020
Jowar	43,446	42,904	41,314	9,093	6,602	7,427
Bajra	27,983	28,024	27,542	3,421	3,379	2,926
Ragi	5,711	5,693	5,674	1,646	1,820	1,914
Small Millets	13,799	12,713	12,209	2,456	1,937	2,010
Total Cereals	2,12,205	2,14,082	2,15,642	55,734	54,456	57,251
Gram	22,047	24,157	23,990	5,393	5,331	5,930
Redgram (Tur)	5,944	5,673	5,696	1,688	1,830	2,047
Black Gram (Ulud) (d)	3,520	3,684	3,427	468	430	360
Green Gram (Mung) (d)	3,081	3,183	3,267	273	283	284
Horse Gram (Kulth) (d)	2,701	3,334	3,474	233	309	317
Lentil (Masur) (d)	1,194	1,222	1,261	213	205	185
Khesari (d)	2,077	2,241	2,191	291	295	260
Peas (d)	2,172	2,271	2,471	577	567	601
Moth (d)	3,114	3,927	4,403	215	296	347
Other Pulses (d)	9,450	7,408	7,115	1,516	1,285	1,104
Total Pulses	55,300	57,064	57,295	10,870	10,831	11,435
Total Foodgrain	2,67,325	2,71,146	2,72,937	66,604	65,287	68,686
Sesamum	6,501	5,653	5,433	589	457	451
Groundnut (e)	13,548	12,692	13,101	4,128	3,862	4,086
Rape & Mustard	6,025	6,317	6,211	1,019	848	1,017
Linseed	3,354	3,781	3,758	382	414	349
Castor Seed	1,394	1,405	1,403	124	124	129
Total Oilseeds	30,822	29,848	29,906	6,242	5,705	6,032
Coconut (c) & (d)	1,589	1,597	N.A.	40,82,027	40,97,372	N.A.
Sugarcane (e)	3,994	4,564	5,019	5,760	5,982	6,745
Tobacco	846	927	1,007	244	287	300
Cotton (e)	18,684	19,078	19,843	4,227	4,001	4,723
Jute (e)	1,243	1,739	1,883	2,928	4,197	4,221
Mesta (e)	528	572	738	1,018	1,159	1,474
Sann-Hemp (f)	5,08,000	6,16,000	—	1,19,000	1,23,000	—
Pepper Black (e)	208	233	234	26	32	32
Ginger (Dry) (e)	35	40	40	14	15	15
Chillies (Dry) (e)	1,523	1,490	1,450	363	355	354
Turmeric (f)	1,25,000	1,40,000	—	1,38,000	1,56,000	—
Tea (b)	779	780	N.A.	6,46,384	6,35,357	N.A.
Coffee (b)	234	240	N.A.	58,654	68,143	N.A.
Rubber (b)	172			43,266		
Banana (d) & (f)	3,44,000	3,62,000	—	1,864,000	18,53,000	—
Papaya (d) & (f)	10,000	11,000	5,73,000	104,000	133	—
Potato	658	693	702 (final)	1,736	1,839	1,674 (final)
Sweet Potato (d) & (f)	4,77,000	3,88,000	—	15,55,000	12,32,000	—
Tapioca (d)	6,38,000	5,47,000	—	1,33,000	17,99,000	—
Indigo (d) & (f)	11,000	11,000	—	135	128	—
Opium (d) & (f)	64,000	64,000	—	10,000	10,000	—
Lac (d)	—	—	—	10,23,000	12,48,000	12·48 lakh maunds

Note :—(a) Figures for 1954-55 and 1955-56 are based on revised and partially revised estimates respectively, hence subject to revision. (b) Figures for tea and rubber relate to the calendar year (*i.e.* for 1953-54 relate to 1953 and so on) and production (of tea, rubber and coffee) is mentioned in thousand pounds. (c) Coconut production is mentioned in terms of 1,000 nuts. (d) Estimates of area and production of non-forecast crops (*i.e.* banana, papaya, sweet potato, tapioca, turmeric, sann-hemp, indigo, lac, opium, coconut, and pulses excluding gram and redgram (tur) are made on *ad hoc* basis, and hence subject to revision. (e) Rice production is estimated in terms of cleaned or husked rice ; sugarcane in terms of raw sugar or gur ; groundnut unshelled ; cotton as lint (of bales of 392 lbs.) ; jute and mesta as fibre (in bales of 400 lbs.) ; pepper as dry black pepper, ginger and chillies dry. (f) In the case of banana, papaya, sweet potato, tapioca, turmeric, sann-hemp, indigo the acreage is in acres (and not in thousand acres) and production in tons (and not in thousand tons). Similarly also opium, the production of opium and lac is however expressed in maunds (of 82 2/7 lbs.). N.A. stands for data not available.

The agricultural season is divided into two main sub-divisions the Kharif season of the monsoon and the Rabi season of the cold weather. This is not well-marked in the extreme east or extreme south.

The ground is generally prepared for cultivation in April and May for kharif crops, and by the end of October or early November for rabi crops, *i.e.*, after the kharif crops have been harvested. Kharif crops are sown in the monsoon, generally after the first shower. The usual time for sowing of rabi crops is the middle of November. The crops are harvested from the middle of March to the end of April.

The chief Kharif crops are : rice, jowar, bajra, maize, cotton, sugarcane, sesamum and groundnut. The chief Rabi crops are : wheat, barley, tea, gram, linseed, rape and mustard ; and in south India rice, jowar and cotton.

The harvest comes on the market as follows : Kharif crop (Nov. 1), Rabi crop (May 1), Rice (Nov. 1), Wheat (May 1), Sugarcane (Nov. 1), Cotton (Sept. 1), Jute (July 1), Kharif oil-seeds (Nov. 1), Rabi oil-seeds (April 1), Tea (Jan. 1), Coffee (July 1), Sugar (Jan. 1).

SOILS

Four main soil groups can be recognised in the sub-continent, *viz.*, (1) the red soil derived from rocks of the Archæan system which characterises Madras, Mysore and the south-east of Bombay and extends through Andhra Pradesh and Madhya Pradesh to Orissa, Chota Nagpur and the south of W. Bengal ; (2) the black cotton or *regur* soils which overlie the Deccan tract and cover the greater part of Bombay, Berar and Andhra Pradesh with extensions into central India and Bundelkand ; *regur* soils also occur in Madras though not so typical as proper *regurs* ; (3) the great alluvial plains, agriculturally the most important tract in the country as well as the most extensively cultivated includes mainly the Indo-Gangetic plain embracing northern Rajasthan, most of the Punjab area, the plains of Uttar Pradesh, most of Bihar and the West Bengal area and half of Assam and (4) the laterite and lateritic soils which are found in the east a belt round the Peninsula and extend through West Bengal into Assam and Burma. Besides these soils there are muck soils in Kerala and forest soils in the northern part of India.

Saline and Alkali soils also form an important group of Indian soils which are known as *reh* or *usar* in Uttar Pradesh, *rakkar* and *thur* in the Punjab and *chopan* or *kari* in Bombay State. Such soils are characterized by a high degree of impermeability and " stickiness " together with high alkalinity and frequent presence of large excess of free salts. They are usually poor in nitrogen and humus and unsuitable for crop growing without previous reclamation.

Marshy and peaty soils are found in coastal areas of Orissa and West Bengal, North-West Bihar, Almora district of U.P., south-east coast of Madras, and in Kerala.

Under the Technical Co-operation Administration Programme a research project on soil fertility and fertiliser use has come into operation at the Indian Agricultural Research Institute. Under this project the twenty major soil regions of India have been grouped into six zones (Poona, Delhi, Kanpur, Nagpur, Coimbatore and Sabour) for purposes of soil survey and collection of soil data.

The fertility status of these soils is being examined by manurial trials at 40 centres throughout the country.

The important question of soil conservation and development is receiving great attention. A sample soil conservation survey conducted over 80,000 acres of the scarcity tract of Bombay State reveals that over 71 per cent of the land surface has been denuded either partially or severely out of which about 32 per cent is unfit for crop growing.

The organisation of soil conservation work in the States and Territories is the responsibility of the respective Governments. The co-ordination of work between these is achieved through the agency of the Central Soil Conservation Board which was set up in the Ministry of Food and Agriculture in 1953. Similar boards are also set up in most of the States and Territories.

Altogether seven research-cum-training centres have been established at the following places :—

1. Ootacamund (Madras) for erosion control in the Nilgiri and other hills ;
2. Bellary (Mysore) for soil conservation studies in black soils ;
3. Kotah (Rajasthan) with sub-centre at Agra for erosion control in the Chambal and Jumna ravines ;
4. Jodhpur (Rajasthan) for afforestation in the Rajasthan desert ;
5. Dehra Dun (U.P.) for studying problems of afforestation in the Siwalik hills with the sub-station at Chandigarh (Punjab) for training *chos* (hill torrents) ;
6. Vasad (in the Gujarat tract of Bombay) for erosion control in the ravines along rivers in Gujarat.
7. Research-cum-training centre at Hazaribagh (in Bihar) under the Damodar Valley Corporation.

Financial assistance of 13 million rupees in the form of subsidies and loans has been given by the Board to 12 States and 4 Union Territories during the year.

AGRICULTURAL ECONOMICS AND STATISTICS

The Directorate of Economics & Statistics is one of the main organizations under the Central Government which deals with all agro-economic problems in the sphere of food and agriculture.

Steps initiated during the First Five-Year Plan continued during the 2nd Five-Year Plan as well and a provision of Rs. 5 million is provided in the State plans for schemes of improvement of land records and statistics. State plans will be aided on a half and half-basis and Rs. 9·8 million is provided in the 1957-58 budget for these purposes.

A research division has been set up in the Directorate to co-ordinate Farm Management investigations and also to conduct research in production economics.

The statistical wing of the Indian Council of Agricultural Research is a sister organisation.

RICE

Rice crop occupies the largest area in the Indian Union, over 78 million acres giving 28·1 million tons of cleaned rice.

Madras, Bihar, Bengal, Orissa, Madhya Pradesh, Uttar Pradesh, Assam, Andhra and Bombay are the main rice growing States and they together claim about 95 per cent of the total rice area in India. About a third of the crop is irrigated, the bulk of the rice is winter crop, *i.e.*, sown in June-July and harvested in November-December, but there are rices grown in different seasons the harvest coming in summer, autumn or winter.

Rice yield in India is, however, one of the lowest in the world. The average yield is a fourth of that of Spain and Italy, a third of Japan, and half of what the Chinese and the American rice farmers obtain. But, in recent times the "krishi Pandits" have produced 74 mds. of Paddy per acre in 1949-50 ; 124 in 1950-51 and 136 in 1951-52. The production was however only 102 mds. in 1954-55. At present 76 research stations spread almost all over the States of the country are working on similar problems of rice. Though about 4,000 distinct types of rice differing in essential characteristics occur in this country, 455 superior strains giving an average of 10 to 20 per cent better yield than the farmers varieties have been evolved. But they cover only a very insignificant percentage of the total rice area : Andhra 70 per cent ; Assam 8 per cent ; Bengal 10 per cent ; M.P. 16 per cent ; Orissa 10 per cent ; Jammu and Kashmir 10 per cent and U.P. about 12 per cent.

Rice farming practices vary considerably from region to region and even from place to place depending upon such factors as climate, soil type, and rainfall.

Japanese Method

In the last few years the Japanese method has been tried with good results specially in areas of assured water supply. But many individual steps in this were evolved through research in India.

The statistics about Japanese method production are given below :

	1953–54	1954–55	1955–56	1956–57
Area under Japanese Method (in Million acres)	0·402	1·320	2·096	2·374
Additional production (of rice in million tons) due to Japanese Method ..	0·131	0·496	0·89	0·800*
Yield in Maunds per acre (of rice) by				
(*a*) Japanese Method	25·82	23·46	24·89	19·90*
(*b*) Local Method	16·92	12·93	13 33	13·33*

*Provisional, and hence subject to Revision.

In the Second Plan it is proposed to cover 8 million acres with Japanese methods—1·6 mln. acres every year.

The seasonal rice crop has different names in different States :

State	Autumn	Winter	Spring
Andhra	....	Sarava, abi	Dalua, Tabi
Assam	Ahu, aus	Sali, Bao	Boro
Bengal	Aus	Aman	Boro
Bihar	Bhadoi	Aghani	Boro
Bombay	Early	Middle	....
Kerala	Viruppu	Mundakan	Punja
Madras	Kar, Kuruval	Samba	Navarai
Mysore	....	Haine	....
Orissa	Beali	Sarad	Dalua
Punjab, U.P. and Madhya Pradesh	....	Karif	....

WHEAT

The area under wheat is about 32·9 million acres and production about 9·1 million tons. Wheat is grown widely throughout the north as a winter crop, U.P., M.P. and Punjab supplying over 72 per cent of the total outturn in the country. This crop occupies, on an average, about 10 per cent. of the total cultivated area.

More than one-third of the crop is irrigated.

The majority of the varieties grown belong to the species *Triticum vulgare* ; *T. durum* is also cultivated to some extent particularly in Peninsular India.

The crop is generally grown after a summer fallow and except in irrigated tracts, depends largely on the conservation of the soil moisture from the previous monsoon. The crop is generally harvested in February to April and the threshing and winnowing go on up till the end of May.

Unfortunately, wheat is subject to a virulent fungus disease called rust, which is the potent factor limiting its larger production in all wheat growing regions of the world, including India. The magnitude of the loss to wheat crop due to this fell disease during periods when it occurs in an epidemic form is very great indeed. In

normal years, the loss is about 5 per cent involving about sixty million rupees. In other wheat growing countries, generally, one kind of rust only is a serious menace. Though in Peninsular India only black rust is serious, northern India with the largest wheat area has to face the onslaughts of three different rusts, *i.e.*, black, red and yellow, each with a number of races.

Systematically planned work on the development of rust resistant wheats is being done under the ægis of the Indian Council of Agricultural Research and a large number of rust resistant varieties have been produced.

Besides these, varieties which have greater adaptability and yielding power are also bred.

But the coverage of the total wheat area by the improved varieties is yet to be pushed up. At present improved varieties form only 16 per cent in M.P., 33 per cent in U.P. and about 70 per cent in the Punjab, of the wheat area of the respective States.

BARLEY

Barley is an important cereal in Northern India, particularly in U.P., Rajasthan, Bihar and Punjab. It is specially important in the hills and is grown even at considerable altitudes. The area under this crop in India is over 8 million acres, and production over 2·7 million tons, with an average yield of 748 lb. per acre. The advantage in the crop is that it can be grown on soils unsuited for wheat and that it generally matures earlier.

Improved varieties of barley have been evolved at Pusa.

MAIZE

Maize is cultivated over an area of about 9·2 million acres and gives an annual production of over 3·0 million tons. The average yield is about 633 lbs. per acre. It occupies the largest area in U.P., Bihar, and Rajasthan, but is also grown on a quite extensive scale in several other States. Maize crop is of special importance as the staple diet of the inhabitants of sub-montane, hilly regions. In the northern parts of the country it is extensively grown also as a fodder crop. The variety grown is mostly the "flint" type. Maize is grown both under rain-fed and under irrigated conditions.

According to the Directorate of Economics and Statistics, Ministry of Food and Agriculture, the first estimate of maize for 1957-58 puts the current year's area under the crop at 8,627,000 acres as against the corresponding adjusted estimate of 8,265,000 acres for 1956-57. This increase in acreage has been shared mainly by Bihar and to a lesser exent by Madhya Pradesh. This estimate generally covers the period up to middle of October 1957 and does not cover the entire area sown to maize crop during 1957-58.

MILLETS

Mostly of short duration (2½ to 6 months from seed to seed) millets are grown in localities and in conditions where most of the other cereal crops are not grown, such as poor and infertile soils and low rainfall (of 20–50"). They are associated with the staple diet of the lower than the upper strata of society, and provide the chief cereal supplement for all regions outside the main rice and wheat tracts. Millet stalk form the chief food of the cattle population for about half the year in the millet regions of the country either in green or dry form. Some of them like jowar are grown in substantial areas solely for fodder purposes and special varieties are developed for forage purposes. Associated as they are with poor land, dry conditions, and the chief crops of the rain-fed and dry farmed tracts of the country, they respond to both manuring and irrigation. The major types of millets such as jowar, bajra and ragi require better land than others and are raised under irrigation also and sometimes with manuring with advantage.

Millets are grown in India on about 86 million acres annually and their production is estimated to be about 15 million tons. They are raised in almost all the States, particularly in the dry areas extending at a tangent from Punjab and Bombay in the north-west to Tinnevelly in Madras, in the south-east.

The more common millets cultivated in India are :—

Jowar (*Sorghum sp.*), Bajra (*Pennisetum typhoides*), Ragi (*Eleusine coracana*), Kora or Kangni (*Setaria italica*), Kodon (*Paspalum scrobiculatum*), Same or Kutki (*Panicum miliare*), Chena or Varagu (*P. miliaceum*), Oodalu or Sanwak (*Echinochloa frumentaceae*) and Sawan (*P. crusgalli*).

Jowar :—Among the millets jowar occupies a premier position because of the size of the crop and the economic importance of the grain. Annually about 42 million acres are grown under this to yield about 7 million tons of grain. Bombay, Madhya Pradesh, Andhra and Rajasthan contribute to about 89 per cent of the national acreage. Though mostly grown under rain-fed conditions about 3 per cent are raised by irrigation. Jowars require better land than the Bajras and the distribution of the two crops follow the quality of the soil. There are also two main types, dry or juicy. The former is mostly grown in the dry Deccan areas though those with the juicy stem are more relished by cattle. The duration of the crop ranges from 3 to 6 months.

The average yield is about 4½ mds. per acre.

According to the Directorate of Economics and Statistics, Ministry of Food and Agriculture, the first estimates of Jowar for 1957-58 puts the current year's area under the crop at 25,776,000 acres as against the corresponding adjusted estimate of 25,538,000 acres for 1956-57. This increase in acreage has been shared mainly by Bombay and Mysore and generally covers the period upto middle of October 1957 and the area sown to Kharif crop only.

Bajra :—Bajra covers over 27 million acres to yield about 3 million tons of grain. The average yield of the crop is about 3·6 mds. of grain per acre. Bombay, U.P., Rajasthan, and Punjab are the chief growing tracts. The duration of the crop varies from about 2½ to 5 months.

Ragi :—Ragi ranks the third in importance among the Millets and occupies over 5 million acres to produce about 1·9 million tons of grain. Its average yield is rather high, 9 mds. per acre. More than half the area is in Mysore, Madras and Andhra. Sixteen improved strains of ragi evolved in Madras and two in Mysore are being grown in these States.

Other Millets :—The others grouped under lesser or minor millets form about 1/6 of the total area under millets and are grown in about 12 million acres and yield about 2 million tons of grain. Some of them are of regional or local importance only and also of limited consumer demands. The most important among them are Kora or Kangni, Kodon, Cheena or Varagu, Oodalu, and Sawan.

PULSES

Pulses form an important group of crops occupying about 1/7 of the cultivated area in India. The total acreage is about 54 million and production over 10 million tons. They form the primary source of protein for the vegetarian population of the country. Some of them form a source of nutritious fodder, while others make excellent green manure crops. Being leguminous plants they enrich the soil and rightly form an inevitable component in mixed cropping as well as the linch pin in most crop rotation.

The major pulse crops of India are :—Gram or Bengalgram (*Cicer arietinum*), Redgram (*Cajanus cajan*), Blackgram (*Phaseolus mungo*), Greengram (*P. aureus*), Horsegram (*Dolichos biflorus*), Peas (*Pisum sp.*), Khesari (*Lathyrus sativus*), Lentil (*Lens culinaris*), Moth (*Phaseolus aconitifolius*), Guar (*Cyamopsis psoraloides*), Soyabean (*Glycine hispida*), Cowpea (*Vigna catjang*).

Gram is the most important pulse crop as it occupies about 40 per cent of the total pulse area and accounts for about 50 per cent of the total pulse production.

The main tracts of production are in U.P., Punjab, M.P. and Rajasthan where it is used to some extent as a substitute for cereal. Elsewhere it is considered merely as a pulse.

Redgram is the second important pulse crop covering about 11 per cent of the pulse area and responsible for about 16 per cent of the total pulse production. It is produced in U.P., M.P., Bihar, Andhra, Bombay and Madras.

Blackgram accounts for 6 per cent of the total pulse area and 4 per cent of the production. Improved varieties in this crop have been evolved in Bihar (BR. 10, 11, 68 and ST. 8); U.P. (Type 9 and 27); Madras (Vsm. 1) and Orissa (S. 1601). Mixed cropping of early autumn (beali) paddy with blackgram has been found to be more profitable than farming these crops alone in Orissa.

Greengram comes next as an important pulse crop with 6 per cent in the total pulse area and 2 per cent of the total pulse production. High yielding quality types of greengram is produced in Bihar (BR. 1–6 and S. 7); Bombay (781 and 1/49); and Madhya Pradesh (two strains). Also, one each in Orissa (3-150), Madras (Co. 1), and in U.P. (Type 1).

Horsegram covers 5 per cent of the total pulse area but accounts for 2 per cent of the production. Five improved types of this crop are under distribution in Madras and 2 each in Orissa and Andhra. Mixed cropping experiments at Vizianagram (Andhra) of horsegram with millets and cotton indicated that it forms a profitable mixture.

Peas form about 4 per cent of the total pulse area and about 6 per cent of the production. As in the case of greengram *visavis* redgram this is an important vegetable pulse crop of northern India as cowpea is in the high rainfall areas of south-west and north-east India. It is produced in Bihar and U.P.

Khesari accounts for 4 per cent of the acreage under pulses and 3 per cent of the production; Bihar is the most important Khesari growing State, M.P. and Bengal coming next.

Lentil is cultivated over 2 per cent of the pulse area and it accounts for 2 per cent of the production. Bengal, Bihar, M.P. and U.P. are the important lentil growing States. Type 577 and 94 in Bengal and two types (3 and 36) in U.P. are evolved, out of which type 36 has been found to be good for late paddy rotations in U.P. Lentil has been found to be very useful also for green manuring paddy crop in Kashmir valley.

Moth is cultivated in 5 per cent of the total pulse acreage and its contribution to the pulse production is 2 per cent. An improved variety of this crop (4301-12) has been distributed in U.P.

The rest of the pulse crop including guar, cowpea, wal and soyabean account for 17 per cent of the total pulse area and 14 per cent of the pulse production.

Guar :—Cluster bean, is cultivated throughout India in varying extent and also for varied purposes. Not less than 0·2 million acres are under this crop and its grain production is estimated at about 2 million maunds annually. Except in North and North-Western India cultivation of guar is mostly as garden crop, particularly for its tender pod for vegetable purposes. On the other hand Punjab, Rajasthan, western U.P. and Bombay are the main areas of organized cultivation. The first region accounts for 60 per cent, U.P. for 12 per cent and Bombay for the rest.

About a third of the total grain produced in the country is exported mainly for industrial purposes. About 0·05 million maunds are used for the same purpose in India for finishing in the textile mills in the Gujerat tract; the rest is utilized as a concentrated feed for livestock. The foliage of the crop makes good forage and is often used for green manuring purposes also. Improved types of this crop suiting to various purposes have been evolved. Long podded types for vegetable purposes have been produced at Coimbatore, Nagpur and Pusa and four grain

types in Bombay; also dual purpose, fodder cum grain types. Types purely meant for fodder purposes are also produced in Bombay (such as D. 111 and D. 128) and in the Punjab (D. FOS. 22).

Soyabean :—The acreage under soyabean is not more than 0·2 million in India and production not more than 0·2 million mds. of grain. The crop is of some importance in U.P. and in the Himalayan tract and to a lesser extent in Madhya Pradesh, Bombay and Mysore. Soyabean flour can be blended in varying proportions with wheat flour for making chappaties and bread, cake and other bakery goods; it can be used also in the making of soyabean milk, curd, sauce, etc. Soya milk is almost as good as cow's milk and costs only as. 2 per lb.

Cowpea :—Cowpea is an important vegetable and grain pulse particularly in the Kerala and Bengal regions where improved varieties are evolved; also in Madras and the Punjab.

OILSEEDS

Excluding coconut and cotton, the total acreage under major oilseeds in India is over 29 million acres (*i.e.* about 9 per cent of cropped area) with a production of 6·0 million tons of seeds. Most of them produce edible oil while others (like castor and linseed) yield non-edible oils for industrial and medicinal uses. The cakes barring a few exceptions make good concentrate feed for the livestock or manures for our crops. Elsewhere industrial uses of these cakes have been increasingly exploited. They are grown under a variety of soil and climatic conditions. But, coconut is confined to the coastal areas mainly of South-West India and Linseed to the upper part of the Indian Peninsula.

The most important oilseed crops grown in the country are :—Groundnut (*Arachis hypogaea*), Rape and Mustard (*Brassica sp.*), Sesamum (*Sesamum orientale*), Linseed (*Linium usitatissimum*), Castor (*Ricinus communis*), Niger (*Guizotia abyssinica*), Safflower (*Carthamus tinctorius*), Coconut (*Cocos nucifera*).

The total number of oil mills during the year 1954-55 were 7,791.

The quantities of vegetable non essential oilseeds, oils and oilcakes exported from India during 1955-56 were 48,298 tons, 2,83,435 tons and 1,62,702 tons respectively valued at Rs. 34·5, Rs. 343·49 and Rs. 53·1, millions respectively.

The bulk of the exports were in the form of groundnut and its oil. Sesamum and the niger seed were the other two oilseeds which have a high share in the exports.

Among the oils, linseed oil was second and castor oil third in importance.

Groundnuts :—India is the largest producer of groundnuts accounting for about 40 per cent of the world's production. Groundnut occupies over 12 million acres representing about 44 per cent of the area under oilseeds in India. Total production is over 4·0 million tons. The average yield per acre is over 9 mds. Bombay, Andhra and Madras are the principal growing areas. Several varieties are under cultivation. Those commonly cultivated are broadly divided into "bunch" and "spreading types." The Commercial types "Bold" and "Coromandel" are produced by the spreading type and the "Peanuts" and "Red natal" from the bunch varieties. The latter generally possess higher selling per cent (80 per cent) than spreading varieties (60–75 per cent). This, and the oil content of the Kernel as well as the colour and size of the produce are important factors apart from yield, deciding the economic assets of a variety. Four strains (TMV 1 to 4) are produced in Madras and 3 spreading and 2 bunch types in Bombay. The spreading type 25 is popular in U.P. and one spreading (HG. 7) and ten bunch types have been produced in Mysore.

Rape and Mustard cover over 19 per cent of the oilseed crop area. They are cultivated in 6·2 million acres and produce over 1·0 million tons. The average yield per acre is about 4·2 mds. U.P. accounts for nearly ⅗th of the area, and Punjab, Rajasthan, Assam and Bihar are other important States where this crop grows. In some regions it is grown as pure crop and in others, mixed with wheat and gram.

Sesamum is the next important oilseed crop covering about 22·0 per cent of the total oilseed area. It is cultivated on about 6 million acres and with an average yield of 2·4 mds. per acre the pfoduction is about 0·5 million tons of seed. U.P. is the largest producer, followed by Rajasthan, Madhya Pradesh, Madras and Bombay.

Linseed accounts for about 11 per cent of the total area under oilseeds in India. From about 3·8 million acres with an average yield of 12·3 mds. per acre this crop produces about 0·4 million tons of seed. States like Madhya Pradesh, Uttar Pradesh, Bihar, Andhra, Bombay, Rajasthan, Mysore and Punjab grow the crop to a considerable extent. Improved strains of this crop with high yield and oil content are produced in important growing areas.

Castor forms only 4 per cent of the total oilseed area in India, and about 1·4 million acres are under this crop. Its annual production is over 0·1 million tons and average yield, about 5 mds. seeds per acre. Over 60 per cent of the all India acreage is confined to Andhra; the next important castor growing area is Bombay. It is more often than not, raised as a mixed crop. The leaves of the plant are used for feeding Eri silk worm in Assam, Mysore and elsewhere. High yielding strains with other desirable economic characters have been evolved in castor also in various States.

Niger :—India is the chief producer of Niger seed in the world and has an area of about 0·7 million acres under the crop with an annual production of about 0·06 million tons. It is chiefly cultivated in M.P., in the Deccan and North-East Madras. Five improved high yielding varieties of this crop with good oil content have been produced in Bombay; also one (*i.e.* N. 5) in M.P.

Safflower is the source of an important dye also of oil. It is largely cultivated in Bombay, M.P., Mysore and in the North-East of Madras. Five improved varieties have been brought out in Bombay and one (No. 7) in M.P.

Coconut :—India ranks second among the coconut growing countries, accounting for about 18 and 22 per cent of the world's acreage and production respectively. 1·6 million acres were under this crop which produced about 3,900 million nuts in 1954-55. Kerala accounts for more than 75 per cent of the production. The rest are in Mysore, Andhra, Madras, Orissa, Bombay, Bengal, Andaman and Nicobar Islands and in the Laccadive Islands off the Kerala coast in scattered patches. Considering the importance of the crop as the main food and cash crop of the population of the Kerala region the Government of India set up the Indian Central Coconut Committee in 1945, which has concentrated attention on better production, marketing and utilization of coconut products and co-ordinated the various other aspects of the Industry. It has set up two Central Research Stations one at Kasargod and the other at Kayamkulam both in the heart of coconut regions to deal with the various fundamental problems facing coconut farming. Regional Stations are also established in important coconut growing States.

Others like Mahua (*Bassia latifolia*), Punna (*Calophyllum inophyllum*), Choolmorga (*Hydnocarpus alpinus*) and Neem (*Azadirachta indica*) are also oil producing trees of local importance. Cotton seed is also an important source for vegetable oil in India.

The annual production is about 1·5 million tons, most of which—about 75 per cent—is *desi* and the rest American. The *desi* seeds contain more oil.

SUGARCANE

India with its 35 per cent of the world's sugarcane acreage is the largest sugar producing country in the world. The total area under the cane is over 5 million acres. Sugar industry is one of the largest industries in India, second only to cotton textiles. The total capital involved in the industry is about 350 million rupees. The total value of the production of sugar industry (both gur and sugar) is about 2,600 million rupees. It finds employment for 3,500 university men and 0·13 million labour in addition to large number of persons employed in the Gur industry, transport, wholesale and retail trade. No less than 20 million farmers are also engaged in the cultivation of cane. The excise and other duties accruing due to sugar industry is more than 6 million rupees annually. These underline the importance of the crop in our national economy.

The Planning Commission has asked for an increased output of sugarcane to the extent of 0·69 million tons in terms of sugar which would enable the industry to work at full capacity and also raise the per capita consumption of sugar from 6·3 lbs. (in 1949-50) to 8·3 lbs. (in 1955-56). The increased output of cane will be large enough to allow simultaneous expansion in the production of white sugar to 1·5 million tons (by 1955-56), and in the per capita consumption of gur and Khandassari from 22·8 lbs. to 24·4 lbs. This target was almost achieved by 1951-52, even though in the later years it has fallen down. Much worse, the production showed a negative relation to expanding consumption. Production in 1951-52 to 1953-54 was 1·48, 1·34 and 1·001 million tons while the consumption was 1·17, 1·66 and 1·82 million tons, with a progressive increase in per capita consumption of 8·14, 9·13 and 11·4 lbs. The gap is bridged with imports again, as it was before the protection.

Sugarcane is consumed in India in four different ways : 1·5 per cent of the total product as Khandassari, 30 per cent as white sugar and about 50 per cent as gur and the rest for seed, chewing and such like. A portion of gur is also processed for white sugar. The consumption of factory sugar has gone up by about 60 per cent since 1951-52 when it was 1·17 million tons, while the consumption of gur has fallen from 3·24 million tons to 2·82 million tons in the same period. In the case of Khandassari there had been neither rise nor fall. Consumption has moved both ways around a rough average of about 0·1 tons. These show that the increasing demands of the nation for sugar have been met wholly by factory sugar industry which in addition has also encroached upon the market for gur.

The important sugarcane areas are U.P., Punjab and Bihar which contribute about 55·6, 8·9 and 8·3 per cent respectively of the total sugarcane area in the subtropical belt and Bombay, Madras and Andhra in the tropical areas making up 5·3, 3·3 and 3·1 per cent. Thus about ⅔ of the cane area is situated in the subtropical belt where the yield is 12–15 tons in contrast to 30–50 tons of the tropical region. Sugarcane being a tropical crop, yields better (*i.e.* by 25 per cent) and is raised cheaper in that area and a shift of the cultivation to the tropical belt of India itself will solve a major sugar problem.

The All-India second estimate of sugarcane, 1957–58, puts the current year's area and production at 4,784,000 acres and 65,501,000 tons of cane as against 4,475,000 acres and 58,985,000 tons of cane for 1956–57. This estimate covers the period generally upto middle of October 1957 and does not cover the entire area sown to sugarcane crop during 1957–58. In 1956–57 the production of sugar in India exceeded 20 lakh tons.

COTTON

Cotton area was 19·8 million acres (in 1956-57) with an estimated production of 4·7 million bales. The expansion in output consists mainly of better quality cotton of which we are still in short supply. At the same time, about one million bales of superior cotton still continue to be imported annually from Egypt, East Africa and U.S.A. for meeting the requirements of our mills.

Cotton is a subtropical crop grown in varying measures in all parts of India. The rainfall of the cotton tracts ranges from 10–12 inches in Punjab and Rajasthan to over 100 inches in the hill

tracts of Assam. The crop is sometimes entirely rainfed or partly or wholly raised by irrigation. Cotton is sown in almost all parts of the year depending upon the region and the variety. Early sowing usually increases its yield. Cotton is rotated with various cereals, oilseed legumes and other crops in different areas. Of the 15 million acres planted with cotton only a million acres are under irrigation. They are largely confined to North and North-Western India and to the South.

The "sea island" is the world's finest cotton grown principally in the West Indies. It has now been found that the "Andrews" variety can be successfully grown in the heavy rainfall areas of the coastal districts of Kerala and Mysore States.

The yield is over 1,600 lbs. of seed cotton and over 500 lbs. of lint per acre with a ginning outturn of 33 per cent and a spinning value of 70 counts. The mean fibre length of the cotton is 1·36".

The average net profit per acre by cultivating this long staple variety is estimated to be over Rs. 500, which is many times more than the usual profit obtained from other crops normally grown in these lands.

Cotton is attacked by various pests and diseases. Among the diseases wilt is prevalent almost throughout Desi cotton tracts and varieties resistant to it are bred such as "Suyog" and "Vijay" in Bombay, "Virnar", "Jarila" and "H. 420" in Madhya Pradesh and "Jaywant" and "Jayadhar" in Karnatak.

A project for the intensification of regional investigations by integrated basic research on cotton, oilseeds and millets has now been launched. This includes the establishment of 17 composite regional stations, comprising nine main and eight sub-stations for work on cotton, oilseeds and millets.

The cost of the project for Five Years is expected to be over seven million rupees.

JUTE

Jute is a very important fibre crop. India has the world monopoly for its production and trade. About 1·9 million acres are under the crop, almost 85 per cent of which are confined to Bengal Bihar and Assam. It is also grown to some extent in Orissa, U.P and Tripura. The total production of the fibre amounts to 4·2 million bales (of 400 lbs.). Bengal accounts for about 42 percent of the total acreage and about 50 per cent of the production. It is an annual crop cultivated for the fibre obtained from its bark. It is mostly grown in the alluvial soils with plenty of moisture. Seeds are generally sown on the prepared land in February to May and harvested in July to September. The crop is retted before fibre extraction. Outturn of dry fibre varies from 8-25 mds. per acre with an average of 11 mds., depending upon soil fertility and other factors.

Two varieties of Jute grown in India are *Corchorus olitorius* (Tossa Jute), and *C.capsularis* (White Jute) and in both of them high yielding strains of good fibre quality have been evolved, such as C.G., 0·620, 0·632 and 0·753 strains in *olitorius* and D.154, C.212 and C.321 in *capsularis*.

Best time of sowing jute is March second half to April end for *capsularis* and April first half to May second half for *olitorius*. Jute responds well to the application of all inorganic nitrogen fertilizers and most of the organic manures. The fungus (*Macrophomina phaseoli*) is the serious disease and various insects like Jute semi looper, hairy caterpillar, Indigo caterpillar and jute mites. Measures to control them are found and practised.

Retting is the most important factor affecting the quality of jute.

TOBACCO

Though contributing only about 8 per cent of the world's production, India is one of the principal tobacco growing countries of the world and third after U.S.A. and China. The total area under tobacco is over 0·92 million acres and production about 0·26 million tons. The average yield per acre is 644 lbs. Even though the area under tobacco is less than 0·4 per cent of the total cropped area of the country it is a leading cash crop and the mainstay of some of the regions and also of considerable importance to the national economy. It is the ninth important item of Indian export (of about 123 million lbs.) earning about 123 million rupees annually and in addition contributes about 327 million rupees to the nation's exchequer. It provides employment for millions of workers in farming and in its industry. However, India still imports manufactured tobacco (in the form of cigarette, cigar and pipe tobacco) amounting to about 2·5 million lbs. costing 7·9 million rupees and also unmanufactured tobacco (*i.e.* virginia cigarette tobacco leaf from U.S.A. for blending in the manufacture of high class cigarette; and cigar wrapper tobacco from U.S.A., Java, Pakistan and Burma; and chewing tobacco from Ceylon) of about 2·5 million lbs. costing 7·9 million rupees. But, the import requirements are steadily and speedily being met by indigenous production.

Andhra, Bombay and Madras account for about 71 per cent of the tobacco area and 72 per cent of the production. U.P., Bengal, Bihar and Mysore are other tobacco growing States of importance.

The Central Tobacco Research Institute has now been established at Rajahmundry (in Andhra) for fundamental research on all tobaccos and applied research on cigarette and Lanka tobaccos grown in that area. Regional experimental stations have also been established for Cigar and Cheroot tobaccos at Vedasandur (Madras), for Hookah and Chewing tobaccos at Pusa (Bihar) and for wrapper tobacco at Dinhata (Bengal). Three sub-stations *viz.* Cigarette Tobacco Research Sub-Station at Guntur (Andhra), Cigarette Tobacco Research Sub-Station at Nipani (Bombay) and Hookah Tobacco Research Sub-Station at Ferozepore (Punjab) are also investigating their specific types of tobacco from a regional point of view. The Institute of Agriculture, Anand is being subsidised for bidi tobacco investigations and for aspects of the agronomy and pathology of local types of tobaccos.

(*a*) *Cigarette Tobacco:* Andhra State accounts for almost the entire virginia tobacco in India as it produces about 96 per cent of the cigarette tobacco; rest in Mysore, Bihar, Punjab and Bombay. A new variety called "Cahtham" which is superior in quality and yield to the existing "Harrison special" has been recently released at Rajahmundry.

(*b*) *Cigar and cheroot types of* tobacco are cultivated mostly in Madras and West Bengal and to a lesser extent in Orissa.

(*c*) *Bidi Tobacco* is mainly confined to Charotar and Nipani areas of Bombay, Muzaffarpur, Dharbhanga tract of Bihar and to Farukhabad, Sitapur and Meerut districts of U.P.; also sparingly in Madras and Mysore States.

(*d*) *Snuff and Chewing* types are mostly produced in Madras, Bombay, Orissa, Bihar and U.P.

(*e*) *Hookah Tobacco* is primarily grown in U.P., Bihar and Punjab and to a much lesser extent in Bombay State also.

MARKETING AND INSPECTION

There is a Central marketing organization called the Directorate of Marketing and Inspection, and a number of State marketing organizations, *e.g.*, in Bombay, Bihar, Andhra, Madras, Mysore, Punjab and West Bengal.

The official in charge of the Central Directorate is designated Agricultural Marketing Adviser. The Directorate conducts marketing surveys for a number of commodities and issues reports. About 80 reports have so far been published and among the commodities covered are: rice, wheat, millets, potatoes, gram, other pulses, barley, grape, bananas, citrus fruit, linseed, ground-nuts, cashewnuts, lac, sugar, coconuts, tobacco, milk, fish, cattle, hides, skins, wool and hair, sheep and goats, eggs, coffee, castor seed, ghee and milk products, arecanuts, rapeseed and mustard, sann hemp, cardamom, meat, poultry and tapioca.

Revised editions of the reports on rice, wheat, potatoes, cattle, tobacco, skin and fish are now available. A brochure on isophgul has also been brought out.

The Agricultural Produce (Grading and Marketing) Act, 1937 aims to provide the consumers with a standardised produce of specified purity and quality under a mark of guarantee. The process of grading and marking is done commercially on a voluntary basis by packers holding a Certificate of Authorization issued by the Agricultural Marketing Adviser. There are now about 550 packers under the various grading schemes.

There are grade specifications for several varieties of rice, fruit, cotton, castor oil, coconut oil, sann hemp, tobacco, ghee, eggs, butter, sugarcane gur, vegetables, coffee, wheat, oilseeds, lac, myrobalans, hides and skins, wool, goat's hair, wood, turpentine, areca nuts, rosin, bristles.

The marketing of certain commodities is also regulated by law in some States. For instance, in Bombay State cotton is regulated in Amraoti; in the south, cotton is regulated in Tirupur and Tirunelveli, ground nuts in South Arcot and Coimbatore, tobacco in Guntur, West Godavari and Coimbatore, arecanuts, coconuts, ground nuts, tobacco, turmeric and potatoes elsewhere; in Bombay there are over 50 regulated markets; in the Punjab about 100; in Madhya Pradesh Gwalior district has 36; in Mysore coconut, copra, oilseeds and jaggery are regulated at Tiptur, there is also a regulated market at Davangere. There are also regulated markets in Ajmer.

During 1956 quality grading of various agricultural commodities like ghee, edible oils, eggs, butter, cotton, rice, fruit and potatoes intended for internal consumption was undertaken on a voluntary basis.

The principle of compulsory grading of agricultural produce for export has been recognised by the Planning Commission. Exportable commodities such as tobacco, wool, and bristles were graded on a compulsory basis.

It is proposed to extend compulsory grading to other exportable commodities such as essential oils (*viz.*, lemon-grass and sandalwood oils), pepper, ginger, cardamom, cashewnut kernels, lac, raw goatskins, East-India tanned leather and vegetable oils and oilseeds.

A Central Control Laboratory was established at Nagpur during the year to facilitate grading and standardisation of agricultural commodities. Subsidiary laboratories are also proposed to be set up in different regions such as Bombay, Calcutta and Cochin.

With a view to assisting and advising the State Governments in the matter of regulation of markets an Advisory Section was set up in the Directorate on 1st July, 1955. The Directorate is also assisting the National Extension Services Blocks and Community Project areas.

During the Second Plan, the number of regulated markets (under the Agricultural Produce-Markets Act) will be increased from 450 to 900.

An All-India Market News Service will also be set up in collaboration with the States, mainly to help the farmers.

RESEARCH

The Indian Council of Agricultural Research was created in 1929. The Council is divided into a Governing Body composed of State Ministers of Agriculture, representatives of Parliament and an Advisory Board consisting of experts. The Governing Body is in charge of general affairs and of the funds, while the Advisory Board examines scientific projects submitted to the Governing Body.

To afford relief to the Governing Body in the discharge of its executive functions there is a Standing Committee. The Governing Body is also assisted by a Board of Research and a Board of Extension. The latter is concerned with pilot schemes.

The Minister for Food and Agriculture of the Government of India is the president of the Council.

In general the Council co-ordinates research work, suggests programmes of research, gives financial assistance for approved schemes, and also undertakes schemes of its own.

The training of extension workers for the National Extension Service blocks hitherto arranged by the Council is now being looked after by the Directorate of Extension & Training set up for this purpose.

The annual grants made to I.C.A.R. fall under two main heads:—(*a*) An annual Government grant for running the administration. This varies from year to year according to requirements, and is estimated to be Rs. 13,15,000 for 1955-56 and Rs. 15,08,915 for 1956-57. (*b*) Payment of the net proceeds of the cess on agriculture produce. The income from this source is estimated to be Rs. 49,12,400 during 1955-56 and Rs. 43,27,796 for 1956-57.

Besides these, specific grants are made to I.C.A.R. for undertaking certain schemes from time to time. A sum of Rs. 10,34,000 was provided for this purpose in the 1955-56 budget and Rs. 9,78,000 in 1956-57. The total estimated expenditure (including the special grant) was about Rs. 5·3 mln. for 1955-56 and Rs. 5·1 million in 1956-57. Of the 942 schemes to be sponsored by the Council 416 related to agriculture and 246 to animal husbandry in 1956-57.

The cess is a customs duty of one half of one per cent *ad valorem* on the following: bones, bristles, butter, cereals other than rice and wheat, drugs, fibre for brushes, fish, fruit, ghee, hides (raw), manures, oil cakes, pulses, seeds, skins (raw), spices, tobacco (unmanufactured), vegetables, wheat, wheat flour, wool (raw). This applies to the whole of India except Jammu and Kashmir.

A number of Central Committees have been set up to promote the production and marketing of agricultural commodities:

Indian Central Cotton Committee, Bombay.

Indian Central Jute Committee, Calcutta.

Indian Central Tobacco Committee, Madras.

Indian Central Oil-seeds Committee, New Delhi.

Indian Central Coconut Committee, Ernakulam (S. India).

Indian Central Sugarcane Committee, New Delhi.

Indian Central Arecanut Committee, Kozhikode (S. India).

Indian Central Lac Cess Committee, Ranchi (Bihar).

All India Cattle Show Committee, Karnal (Punjab).

These Committees are financed by the proceeds of a cess levied on the particular commodity. For instance, for the Cotton Committee there is a cess of As. 4 per bale of 400 lb. of cotton; for the Coconut Committee there is a cess of As. 4 per cwt. on copra consumed in Indian mills; for the Lac Committee the cess is As. 14 per md. of export of lac and As. 10 for refuse lac exported; for the Oil-seeds Committee the cess is 1 anna per md. of oil extracted in mills, and annas 8 per md. of oil-seeds.

The Ministry of Food and Agriculture maintains a number of research laboratories:

1. Indian Agricultural Research Institute, Pusa, New Delhi.
   Sub-stations at Karnal (Punjab) and Pusa (Bihar).
2. Central Potato Research Institute, Patna.
   Laboratory, at Potato Multiplication Subdivision, Showali (U.P.).
   Laboratory, at Potato Breeding Sub-Station, Simla.
3. Central Rice Research Institute, Cuttack.
4. Research Laboratory, Central Palm Gur Training School, Cuddalore (Madras State) (See also under "Forests").
5. Forest Research Institute and College, P.O. New Forest, Dehra Dun (See also under "Forests").
6. Sugar Cane Breeding Institute, Coimbatore. Sub-station at Karnal (Punjab).
7. Indian Veterinary Research Institute, Izatnagar-Mukteswar (U.P.) (See also under "Livestock").
8. Indian Dairy Research Institute, Bangalore (See also under "Livestock").
9. Central Vegetable Breeding Station, Kulu, P.O. Naggar, District Kangra (Punjab) (See also under "Fisheries").
10. Central Marine Fisheries Research Station, Mandapam, P.O., Southern Railway (See also under "Fisheries").
11. Central Inland Fisheries Research Station, Manirampur, Pulta P.O., Barrackpur, 24 Parganas (See also under "Fisheries").
12. Deep Sea Fishing Station, Bombay (See also under "Fisheries").

A number of research institutes, stations and farms are also maintained by the Central Commodity Committees:

The Indian Central Cotton Committee has:
1. Technological Laboratory, Matunga.
2. Institute of Plant Industry, Indore.

The Jute Committee has:
1. Jute Agricultural Research Institute, Barrackpore (West Bengal).
2. Technological Research Laboratories, Tollygunge, Calcutta.
3. Economic Research Section, Indian Central Jute Committee, Calcutta.

The Tobacco Committee has:
1. Central Tobacco Research Institute, Rajahmundry.
2. Cigar and Cheroot Tobacco Research Station, Vedasandur.
3. Hookah and Chewing Tobacco Research Station, Pusa, Bihar.
4. Cigarette Tobacco Research Sub-station, Guntur.
5. Wrapper Tobacco Research Station, Dinhatta (West Bengal).

The Coconut Committee has:
1. Central Coconut Research Station, Kasaragod.
2. Central Coconut Research Station, Kayangulam.

Three regional stations at Thodupuzha, Kumarakam and Neyyattinkara all in Kerala State. And two more at Rajole in Andhra and Ratnagiri in Bombay.

The Sugar Committee has:
Sugarcane Sub-Station, Karnal (Punjab).

The Indian Central Oil Seeds Committee has two regional centres for research, one at Tindivanam in Madras for the southern region, and the other at Kanpur for the upper India oil seeds.

Five regional stations for conducting research on fruit and vegetable preservation were opened in different States of India, one each in Punjab, U.P., Madhya Pradesh, Bombay and West Bengal. This arises out of a recommendation made by the I.C.A.R. Fruit and Vegetable Development Committee. It was recommended that two of these regional stations should be opened in 1957-58 and the other three in 1958-59.

Agricultural Colleges

There are 29 agricultural colleges in India; at (1) Bapatla and (2) Hyderabad (in Andhra); (3) Jorhat (in Assam); (4) Tollyganj (in Bengal); (5) Sabour and (6) Ranchi (in Bihar); (7) Anand, (8) Poona, (9) Nagpur and (10) Akola (in Bombay); (11) Vellayani (in Kerala); (12) Coimbatore (in Madras); (13) Gwalior, (14) Jabalpur and (15) Raipur (in Madhya Pradesh); (16) Dharwar and (17) Hebbal (in Mysore); (18) Cuttack (in Orissa); (19) Ludhiana and (20) Amritsar (in Punjab); (21) Jobner and (22) Udaipur (in Rajasthan); (23) Sehore (in Bhopal); (24) Allahabad, (25) Barauf, (26) Banaras, (27) Lakhoti, and (28) Kanpur (in Uttar Pradesh); and (29) Delhi. (The Central College of Agriculture) in Delhi Territory.

WAREHOUSING CORPORATION

The Board of Directors of the Central Warehousing Corporation at its first meeting in Delhi decided to issue one lakh shares of Rs. 1,000 each of which, in the first instance, 10 per cent will be called up with share application and 10 per cent on allotment.

Mr. P. N. Thapar, Secretary, Union Ministry of Agriculture, is the Chairman of the Board of Directors.

The Board has also approved a first instalment of a chain of 100 warehouses.

In 1958-59, 30 Central warehouses will be started. The Corporation has contributed Rs. 27 lakhs to the share capital of State Corporations. A sum of Rs. 30·5 lakhs was still available in the 1957-58 budget.

By March 1958, 11 State Corporations were expected to be set up.

LAND POLICY

The land policy of the Government of India has been formulated for the promotion of agricultural production and for the provision of social justice in the rural economy. The agrarian reform undertaken by the various State Governments during the past few years fall generally into four broad classes:—

(1) The abolition of intermediaries.

(2) Tenancy reform designed to, (*a*) Scale down rents to 1/4–1/5 of the produce, (*b*) to give permanent rights to the tenants (subject to the landlord's rights to resume a minimum holding for his personal cultivation within a limited time) and (*c*) to enable tenants to acquire ownership of their lands (subject to the landlord's right of resumption for personal cultivation) on payment of moderate compensation to the landlord spread over a period of years.

(3) Fixation of ceiling on holdings.

(4) Reorganisation of agriculture including (*a*) Consolidation of holdings, (*b*) Prevention of fragmentation and (*c*) Development of co-operative village management and co-operative farming.

ABOLITION OF INTERMEDIARIES

Semi-feudal conditions prevailed over a considerable part of the country and about half of the agricultural area was owned by intermediaries between the State and the actual tiller of the soil. Such tenures included permanently and temporarily settled estates, jagirs, talukdari and Inam lands as well as non-ryotwari tenures.

There are three main systems of land tenure: the *ryotwari* (peasant proprietary tenure), where the individual owners are responsible for the payment of land revenue (*viz.* Bombay and Madras); the *zamindari* (landlord tenure) where one or more persons jointly own a large estate and are responsible for the payment of land revenue (parts of Assam, Bengal, Bihar, Madras, Orissa and U.P.); the *mahalwari* (joint village tenure), where village communities jointly hold an estate and are jointly and severally responsible for the payment of land revenue (M.P., Punjab and parts of U.P.).

The system of intermediaries (zamindars, taluqdars, jagirdars, inamdars, malguzars, and similar special tenure holders) has been almost entirely abolished except in a few small pockets (such as temporarily settled estates in Assam, zamindaris in Rajasthan, minor intermediary tenures, such as service inams and other minor inams in a number of States and intermediary areas (*i.e.* Coorg in Mysore State, Kutch in Bombay, and in Tripura Territory). Progress, was, however, comparatively easy in the temporarily settled areas (such as U.P. and Madhya Pradesh), where adequate records and administrative machinery existed. On the other hand, in the permanently settled areas (*i.e.* Bengal, Bihar and Orissa) and in areas under jagirdari settlement (*i.e.*, Rajasthan and Saurashtra part of Bombay) land records and revenue administration had to be built up from the beginning.

Compensation

Apart from the annual payment to be made to religious and charitable institutions whose Estates were brought under the State, the compensation payable for the aquisition of intermediary rights was estimated at Rs. 615 crores (including 379, 86 and 150 crores of rupees for compensation, rehabilitation grants, and for interest payments respectively).

Four States (*i.e.* Bengal, Bihar, Rajasthan and Uttar Pradesh with 59, 240, 36 and 178 crores of rupees respectively and in total Rs. 513 crores) accounted for over 83 per cent of the total amount of compensation.

The assessment of compensation payment was a complex and difficult task (particularly in States like Assam, Bengal, Bihar and Orissa) due to permanent settlement, non-availability of relevant records and also due to the absence of the requisite revenue machinery.

The principles determining the rates of compensation were (*i*) the total compensation should be financed out of the increase in revenues accruing to State Governments on the abolition of intermediaries; and (*ii*) intermediaries in the lower income groups (who constitute the vast majority) should get adequate compensation.

Compensation has been fixed generally as a multiple of the net income accruing to an intermediary at the time of acquisition of his interest, which was higher in the case of intermediaries in the lower income groups.

In some States where compensation was fixed as a uniform multiple of net income, a provision was made for payment of rehabilitation grants to intermediaries with small income. Thus, in Uttar Pradesh the compensation amount (including the rehabilitation grant) varied between 8 and 28 times the net income and in Bihar between 3 and 20 times the net income.

A considerable part of the compensation amount is payable to small proprietors. Nearly two-fifths of the compensation amount would be payable to intermediaries entitled to Rs. 5,000 or less of compensation.

Compensation is payable in cash in Andhra, Bombay, Madhya Pradesh, Madras and Orissa in instalments.

But in Bengal, Bihar, Rajasthan and Uttar Pradesh where the liability was large, compensation took the form of bonds transferable and negotiable in Bihar, Rajasthan and Uttar Pradesh and redeemed in equated instalments (of 15 years in Rajasthan and 40 in Bihar and Uttar Pradesh). On the other hand, in Bengal, the bonds were not negotiable, and have to be redeemed in 20 years.

The total compensatory payment made so far* amounted to Rs. 67 crores of which Uttar Pradesh accounted for Rs. 44 crores. A provision has been made, however, in almost all States for payment of *ad interim* or advance compensation.

With the abolition of intermediaries, the tenures come under two broad categories, *i.e.* (*i*) owners who hold land directly from the State; (*ii*) and the tenants who hold land from owners. Their rights and obligations are regulated under tenancy laws enacted in the States. Thus the multiplicity of tenancy has been considerably reduced, and in the most parts, tenants who hold land under intermediaries have now become owners of land.

TENANCY REFORM

Scaling down rents—Land revenue assessment: The land revenue is assessed differently in different States. In the following States it is a fixed share of the net produce: Madras 50 per cent; Punjab 25 per cent; Uttar Pradesh 40 per cent. In these States it varies from time to time: Bombay, Mysore, parts of Madhya Pradesh and parts of Andhra.

The rent payable by tenant cultivators to landlords has now been reduced to about ¼th over more than half the country.

In the following States the maximum rent noted against is applicable to tenants of all categories and in all areas: Bombay and Rajasthan ⅓th; Delhi 1/5th; Himachal Pradesh, former Hyderabad area and Orissa ¼th; U.P. twice the hereditary rate.

In the following States the maximum rent is subject to the qualification noted against each: Assam, ¼th (in the case of crop-sharers only); Bombay, five times the assessment (in Berar); Madhya Pradesh, twice the assessment (in the former Madhya Bharat area in respect of future tenancy only); Mysore, ⅓th (Malnad area); Bombay, ⅓th (in irrigated area in Kutch); in M.P., ⅓th (unirrigated areas of former Vindhya Pradesh); Kerala, thrice of annual assessment (dry land in Malabar); Jammu and Kashmir, ⅓th (irrigated land belonging to owners with 12½ acres of land and over).

The enforcement of laws for the reduction of rent has been difficult, as rent regulation cannot be effective unless it is accompanied by security of tenure.

Further, regulation of crop share rent is difficult to enforce. Therefore in some States like Andhra and Bombay the maximum rent is fixed as a multiple of land revenue.

Security of Tenure: The Second Five Year Plan has recommended that ejectment of tenants and sub-tenants should be avoided except in the case of non-payment of rent and misuse of land. A large number of States have already taken steps to protect the tenants by the provision of (*i*) temporary protection to tenants from eviction till comprehensive Tenancy Act is passed, (*ii*) fixity of tenure on qualifying basis, and also by (*iii*) allowing resumption by the landlord on a prescribed basis, and (*iv*) giving permanent protection or ownership.

Temporary Protection: Pending enactment of adequate legislation, ejectment of tenants and sub-tenants have been stayed for varying periods prescribed by law in Andhra, Kerala, Madras, Madhya Pradesh, Manipur, Mysore, Orissa and Punjab.

Fixity of Tenure: A number of States legislated to provide for fixity of tenure and restricted grounds on which landlord could eject them, either on a qualifying basis (*i.e.* tenants holding land for a specified period and or by prescribing conditions for the resumption of limited land by the landlord). Security of tenure on the qualifying basis of occupancy or other conditions have been granted in some States: 6 years in Andhra; 12 years in Mysore, and 3-7 years in Madhya Pradesh.

Resumption: Security of tenure was conferred on tenants subject to landlords' right to resume land for personal cultivation in Bombay, Himachal Pradesh, and Rajasthan. Tenants can retain a minimum holding or a portion thereof, such as half the area in Bombay, ⅓ in Himachal Pradesh, 5 standard acres in Punjab or a minimum holding with a net income of Rs. 1,200 (exclusive of the cost of the labour and the labour of the family) in Rajasthan. Subject to the above conditions the landlord's right to resume land for personal cultivation is limited to 3 economic holdings (*i.e.* 12-48 acres) in Bombay, 5 acres in Himachal Pradesh, 30 standard acres in Punjab and the area in excess of the minimum holding to be left with the tenants in Rajasthan.

In other States also a limit has been fixed on the area which a land owner may resume for personal cultivation.

Legislation has been put through in most of the States prescribing a basis for the resumption of the land by the landlords, as shown below: *Assam:* Landlords can resume ⅓ of the area owned subject to a minimum of 5⅓ acres and a maximum of 33⅓ acres; *Bengal:* Limit on resumption has been placed at ⅓ of the area owned; *Jammu and Kashmir:* 2-6 acres; *Madras:* Owners with 12½ acres of wet land or less can resume for personal cultivation half the area leased, subject to a maximum of 5 acres; and in *Orissa:* Owner has a right to resume an area upto 7 standard acres of wet land or 14 acres of dry land for personal cultivation. But in Bengal with regard to *Bargadars* (crop sharers) the landlord may resume only ⅓ of the area if it is more than 7½ acres, but all, if it is less.

Ownership Right for Tenants: In most States legislation provides for the conferment of ownership right on tenants and in some cases with the option left to the tenants. The right of purchase relates only to areas which a landowner cannot resume even on grounds of personal cultivation.

In Uttar Pradesh and Delhi all tenants and sub-tenants were brought in direct relation with the State. No compensation was payable by tenants as the State undertook the responsibility for paying compensation to landlords out of the rents recovered from the beneficiary tenants. But in Delhi compensation was recovered from tenants who would be required to pay land revenue to the State.

Restrictions and Conditions: In some States tenant's right to purchase was restricted as follows: *Andhra* (Hyderabad): Only protected tenants were conferred the rights; *Madhya Pradesh:* Only for occupancy tenants; *Punjab:* Only such tenants of non-resumable areas (in continuous possession for six years) were permitted to buy. The time limit for purchase was fixed as follows: Where the right to purchase ownership is optional, the tenant can exercise it in time at his discretion. But in Bombay and Madhya Pradesh (former Madhya Bharat area) the right must be exercised within a prescribed period.

Compensation to Landlords: Compensation payable by tenants for the aquisition of ownership varied from State to State except in the Punjab (where it is fixed at ⅓ of the average market value), compensation is generally a multiple of rent or land revenue. In Andhra (Hyderabad 6–15); Madhya Pradesh (Madhya Bharat: 2–8 of the net income of landlord); Ajmer: 12; former Vindhya Pradesh: 15; former Madhya Pradesh (7–10); Rajasthan (for unirrigated lands): 10 and Uttar Pradesh 10.

The compensation is fixed as a multiple of the assessment in four States:—Bombay: 20–200 times of the assessment; Delhi: 20–40; Himachal Pradesh: 48 and Punjab (PEPSU): 00 times of the assessment. This compensation is generally payable in instalments (except in former Madhya Pradesh) spread over a period of 5–15 years.

The optional right to purchase is seldom exercised. Tenants required persuasion and help. In Bombay (Saurashtra) and Uttar Pradesh the State Governments had to organise administrative drives to persuade tenants to become owners of land. The State Government (in former Saurashtra) provided even credit facilities amounting to about Rs. 20 million through the Land Mortgage Banks to enable the tenants to acquire ownership rights.

Judged by the amount of land purchased by the tenants and by the number of tenants who acquired ownership, the measures adopted have not produced any significant result. It is evident, tenants do not wish to pay to become landlords unless there are substantial advantages to gain or disadvantages to avoid.

The Second Five Year Plan has recommended that tenants of non-resumable areas should be brought into direct relationship with the State, but the total burden, including land revenue and instalment payments towards purchase price, should not exceed the level of rent recommended in the Plan.

FIXATION OF CEILING

(a) Size of Holding: One of the problems of Indian agriculture is the small size of the average holding and of fragmentation. The average size of a holding for the whole of India is 5·6 acres, but this varies from State to State: Assam 4·8 acres, Bihar 5·5 acres, Bombay 5·1 acres, M.P. 4·5 to 5·0 acres, Madras 4·4 to 5·8 acres, Orissa 5·1 acres, Punjab 5·6 acres, U.P. 5·0 acres, W. Bengal 4·9 acres, All India 5·6 acres. The majority of the holdings will be less than 5 acres, a great majority indeed less than 2.

* The end of 1955-56.

(b) Ceiling on Holding: There is a general movement towards fixing a maximum and minimum on land holdings, as an aspect of land reform. This relates to (1) the absolute amount of land which any individual may hold and (2) the future acquisition of land.

Ceiling on Existing Holding: Legislation was enacted in the following States for the fixation of ceiling on existing holding:—Andhra (Hyderabad): 4½ family holdings (18-270) acres; Bengal: 25 acres; Himachal Pradesh: 30 acres in Chambe (in other areas land assessment at Rs. 125); and Jammu and Kashmir: 22½ acres.

Implemented and enforced only in Andhra, Bengal and Jammu and Kashmir. The Punjab Government has begun implementation of the law to assume management of lands held by owners under personal cultivation in excess of 30 standard acres (50 standard acres for displaced persons). This does not apply to the efficiently managed estates whose break up may lead to a fall in production.

Ceiling has also been applied to lands held by intermediaries in Assam, Bengal and Madhya Pradesh, and Rajasthan (Ajmer). In Assam 50 acres for proprietors and in Madhya Pradesh and Rajasthan (Ajmer) at 50 standard acres.

Ceiling on Future Holdings.—In various States ceiling has been placed on future aquisitions:—Andhra (Hyderabad): 3 family holdings (12-180 acres); Assam: 50 acres; Bengal: 25 acres; Bombay: 3 economic holdings (12-48 acres); Delhi: 30 standard acres; Jammu and Kashmir: 22½ acres; Madhya Pradesh (Madhya Bharat): 50 acres (and for displaced persons) 40 standard acres; and Uttar Pradesh: 30 acres.

(c) Regulation of Standards of Agriculture: With the exception of Andhra (Hyderabad) and Punjab no State has so far made provision for regulating the standards of cultivation and management of land and resumption of land in case of failure to maintain these standards. Some of the agricultural Legislation in Orissa and Himachal, however, have some provision for this, more or less of an obligatory nature.

CONSOLIDATION

(a) Consolidation of Holdings: Consolidation of holding is viewed as a rural development programme, particularly as the prerequisite for optimum land use and food production, for the last two decades. But progress up to so far has been meagre in several parts of the country. The movement towards consolidation of holdings is partly voluntary and partly compulsory. Legislation towards this end has been enacted in the States of Bombay, Madhya Pradesh, Punjab, Delhi, U.P., Jammu and Kashmir and Himachal. Special provision for consolidation of holding has also been incorporated in the Tenancy Acts of Orissa, former Hyderabad and Ajmer. Consolidation work has so far been undertaken in Andhra (Hyderabad), Bombay, Delhi, Himachal Pradesh, Jammu and Kashmir, Madhya Pradesh, Orissa, Punjab, Rajasthan and Uttar Pradesh. The total area consolidated upto 1956 is about 13·66 million acres as under:

Area consolidated

(in million acres)

States	Upto 1955-56	In 1955-56	Total
Bombay (Pre-reorganisation)	2·17	0·68	2·85
Delhi	0·20	—	0·20
Madhya Pradesh (Pre-organisation)	2·89	0·11	3·00
Punjab	6·23	1·18	7·41
Uttar Pradesh	0·20	—	0·20
Total	11·69	1·97	13·66

(b) Prevention of Fragmentation: Measures to check sub-division and fragmentation of holdings, relate to putting restriction on partition and transfer below specified limits. Legislation disallowing such partitions has either been enacted or in the process of enactment in the following states. U.P. below 6¼ acres; former Hyderabad below a basic holding ranging from 2-24 acres; Rajasthan below a size to be determined by the State Government; Delhi below 8 standard acres; former Madhya Pradesh below 15 acres; former Bhopal below 15 acres; former Vindhya Pradesh below 5 acres of irrigated or 10 acres of dry land.

Co-operative Farming: The policy is to give encouragement and assistance to farmers to group themselves into voluntary co-operative farming societies.

The ultimate solution of the land problem is co-operative village management.

The Central Government has offered to provide financial assistance towards administrative and advisory staff, and the State Governments have also offered some financial assistance for the purpose.

But, co-operative farming has not made much headway. Before 1955-56 there were 1,135 co-operative farming societies and in 1955-56 1,397, West Bengal: 75; Bombay: 342; Punjab: 347; Rajasthan: 76 and Uttar Pradesh: 168.

The Second Five Year Plan has provided financial assistance amounting to Rs. 13·857 million for the development of co-operative farming.

It is expected that over a period of 10 years, a substantial portion of the agricultural land will be cultivated by co-operative farming.

The National Development Council has recommended that 3,000 co-operative farms should be started during the Second Five Year Plan. There are plans for starting 600 in 1958-59.

Besides co-operative farming, collective farming is undertaken in some States, *i.e.* Andhra (Hyderabad), Bombay (Saurashtra), Madhya Pradesh (Bhopal), Mysore (Coorg) and Tripura.

(d) Agricultural Labour: About 30·4 per cent of the rural families were agricultural labourers, half of them possessing no land whatsoever, and the other half owning some land. There is tenancy legislation in many States while minimum wages for agricultural workers are fixed in former Ajmer, Delhi, Himachal Pradesh, former Kutch, Patna District of Bihar, Punjab.

Landless agricultural workers are settled on the Central Mechanized Farm, Bhopal, under a scheme for the settlement of 5,000 families over an area of about 6,800 acres. Financial help has been offered to States like U.P. for initial spade-work in land utilisation such as land reclamation and layout, building tenements, health and social amenities and also administrative staff for the initial stages of 2-3 years. Though the State schemes are not linked up with those on co-operative farming, the purchase, and services in connection with the colonies will be on co-operative basis leaving other aspects to the decision of the colonisers. The Second Five Year Plan provided 15 million rupees for the purpose. But the amount spent was less than Rs. 10 million spent mainly in Uttar Pradesh (in Lakhimpur Kheri and Pilibhit Districts) and in Madhya Pradesh (Bhopal). Small schemes from Andhra, Madras and Mysore also got the support of the Government.

Bhoodan

(See under 'Late Particulars').

LAND USE

The topographical factors are as follows (the figures which are in lakh acres are inclusive of Jammu and Kashmir):

Total land area, 8,116; mountains, 873; hills, 1,506; plateau, 2,148; plains, 3,498; unusable area, 3,082; topographically usable area, 5,034.

Land area per capita—2·25 acres.

The high density sub-regions are as follows:

Sub-regions	Population (lakhs)	Density per sq. mile	Land area (lakh acres)
Lower Gangetic Plains	700	832	538
Upper Gangetic Plains	389	681	366
Malabar-Konkan	238	638	239
South Madras	307	554	355
North Madras and Orissa Coastal	211	461	293
Total 5 sub-regions	1,845	660	1,791

The medium density sub-regions are as follows:

Sub-regions	Population (lakhs)	Density per sq. mile	Land area (lakh acres)
Trans-Gangetic Plains	259	332	499
South Deccan	315	247	817
North Deccan	239	246	621
Gujarat-Kathiawar	161	226	456
Total	974	253	2,393

The low density sub-regions are as follows:

Sub-regions	Population (lakhs)	Density per sq. mile	Land area (lakh acres)
The Desert	46	61	482
Western Himalayas	90	68	852
Eastern Himalayas	124	118	674
North-West Hills	104	163	409
North Central Hills and Plateau	138	164	537
North-East Plateau	290	192	967
Total	792	129	3,921

It has been found by sample study of Districts in different parts of the country (with a population of 12 crores) that the area of cultivated land per capita has fallen from 1891 to 1951 in some such proportion as the following (the area is given in cents):

1891—109; 1901—103; 1911—109; 1921—111; 1931—104; 1941—94; 1951—86.

The same study revealed that double-crop area per capita has also fallen from 1891 to 1951:

1891—12; 1921—13; 1951—10.

So has the irrigated area per capita:

1891—16; 1921—18; 1951—14.

FIRST FIVE-YEAR PLAN

The Plan sought to increase the production of food and raw material and transform the village environment and outlook of the rural population.

The outlay was as follows (Rs. in crores):

Agriculture	199·18
Veterinary, dairying	20·63
Forests	11·17
Co-operation	6·38
Fisheries	4·63
Rural development	11·56
Community Projects	90·00
Local Works	15·00
Programme for scarcity affected areas	15·00
Total	373·74

The following table shows the indices of land used in the high density, medium density and low density sub-regions :

Indices	High	Medium	Low	India
Percentage of net area sown to total land area	50	50	19	35
Percentage of net area sown to topographically usable area	62	70	40	56
Double-crop percentage	23	6	12	13
Irrigation percentage	25	11	10	16
Fallow percentage	18	26	22	22
Percentage of forests	11	11	22	15
Percentage unavailable	17	15	16	16
Percentage unused	12	8	27	17

The State should also provide them with house sites, give preference to co-operatives of landless workers in the allotment of reclaimed land, entrust co-operatives of agricultural workers with construction work on behalf of the Public Works and Forest Departments.

SECOND FIVE-YEAR PLAN

In the Second Plan agricultural programmes are intended to provide adequate food to support the increased population and the raw materials needed for a growing industrial economy and also to make available larger exportable surpluses of agricultural commodities.

The targets to be attained were additional production of 7·6 million tons of foodgrains, 1·26 million bales of cotton, 2·09 million bales of jute, 0·7 million tons of sugar, 0·4 million tons of oilseeds.

The major and minor irrigation works were to irrigate 19·7 million acres.

Under the reclamation programme 7·4 million acres were to be brought under the plough by the Central and State Governments at a cost of Rs. 35 crores. About 1·4 million acres would be reclaimed by the Central Tractor Organization, 1·2 million acres by similar organizations in the States. The remaining 4·8 million acres were expected to be developed by the farmer with the assistance of the State.

Improved seeds and fertilizers would be supplied and the use of improved implements encouraged.

Besides schemes drawn up in consultation with the Central Government, there were supplementary schemes proposed by the Commission.

The allotments for the latter were as follows rupees in crores) :

Additional provision for minor irrigation works	20
Construction of tube-wells	25
Grow More Food	86
Community Projects and National Extension Service	101
Provision for landless labourers	1·50

Under the Plan finance would be made available to the cultivator through the Reserve Bank, as well as by the States through co-operative credit societies.

It was hoped that by the end of the Plan period Rs. 100 crores, Rs. 25 crores, and Rs. 5 crores would be made available as short term, medium term, and long term loans respectively.

About land policy, the Commission thought that there should be an upper limit to the amount of land held by one person. This would apply to resumption of land for personal cultivation and future acquisition not exceeding three family holdings.

Tenants who hold land should be enabled to acquire ownership on payment of compensation. Where such land is cultivated by the owners themselves the test should be efficiency. Farms which are badly managed should be taken over by the State and cultivated through the co-operatives of landless or displaced workers.

Owners of middle-sized and small farms should be encouraged to develop their production on a co-operative basis. If they do not resume land for personal cultivation within a reasonable period the tenants should be allowed to become the owners.

A tenancy should last at least for five to ten years and should be renewable.

Rents should vary between one-fourth and one-fifth of the produce.

There should be co-operative village management under which land and other resources are pooled and utilized in the interests of the community as a whole.

For the same type of work everyone should receive the same remuneration.

Increased facilities for training and experiments in co-operative farming were to be provided at a cost of Rs. 50 lakhs.

A sum of Rs. 2 crores was provided for settling landless agricultural workers on reclaimed land.

The outlay item-wise is as follows :—

(In million Rs.)

	Centre	States	Total
Agricultural Production	97·0	719·009	816·009
Minor Irrigation	28·0	631·824	659·824
Land Development	50·0	170·305	220·305
Soil Conservation	40·0	155·838	195·838
Warehousing and Marketing	39·0	156·671	195·671
Co-operation	....	275·694	275·694
Miscellaneous	6·0	87·598	93·598
Village Panchayats	....	120·502	120·502
Local Development Works	150·0	....	150·000
Total Agriculture	530·00	4,197·441	4,727·441
Animal Husbandry	40·00	342·337	382·337
Dairying and Milk Supply	18·00	159·919	177·919
Total Animal Husbandry	58·00	502·256	560·256
Forests	24·00	247·255	271·255
Fisheries	38·00	79·758	117·758
Total (Grand)	650·00	5,026·710	5,676·710

The targets to be attained are an additional production of 15·4 million tons of foodgrains, 2 million tons of sugar, 2·1 million tons of oilseeds, 2·3 million bales of cotton, and 1·5 million bales of jute, over the estimated production for 1955–56 in the First Five Year Plan.

If the Second Five Year Plan targets are realised agricultural production as a whole would increase by about 28 per cent, the increase in the production of foodgrains being nearly 25 per cent, and that of commercial crops about 34 per cent.

AGRICULTURAL PRODUCTION TARGETS OF THE SECOND FIVE YEAR PLAN

(In million tons)

Commodity	Estimated Production of 1955–56	Targets for the Second F.Y.P. 1960–61	Additional production over 1955–56	Per cent increase in index of production
Foodgrains	65·0	80·4	15·4	24·6
Sugar (gur)	5·8	7·8	2·0	38·9
Oilseeds	5·5	7·6	2·1	37·0
Cotton*	4·2	6·5	2·3	55·6
Jute*	4·0	5·5	1·5	58·1
Other crops*	..	..	..	22·4
All commodities	..	..	..	27·8

* In million bales.

This is to be effected through various measures including the following :—

(*a*) **Land Reclamation & Improvements** :—As against 7·4 million acres to be brought under the plough by the Central and State Governments (1·4 million acres by C.T.O., 1·2 million acres by State Tractor Organization, and 4·8 million acres by the farmers themselves with State assistance) proposed in the First Five Year Plan, during the Second Five Year Plan, 1·5 million acres are to be reclaimed and land improvement measures are to be undertaken on 2 million acres through Central and State Tractor Organization, farmers and other agencies.

(*b*) **Soil Conservation** :—The Second Five-Year Plan has provided Rs. 200 million for soil conservation alone as against a total of Rs. 130 million for forest and soil conservation combined provided in the First Five Year Plan. During the Second Plan soil conservation work is to be undertaken in a concentrated manner over 3 million acres of land in areas seriously affected by soil erosion. The programmes include soil conservation measures for two million acres of agricultural land. Measures for the control of shifting sand-dunes are to be undertaken over an area of 0·35 million acres. Measures such as afforestation, fire control in forests, waste lands, contour bundings, etc. are to be undertaken in fingerprint river valleys over an area

of about 0·33 million acres, in hilly regions over an area of about 0·17 million acres, in ravine lands over an area of 0·15 acres, and in waste lands over 0·1 million acres.

(c) **Seeds**:—Each State will have seed farms for raising nuclear seeds and multiplying them through registered growers, keeping in view the requirements of the entire area to be served by State farms; 13,000 seed farms with a total area of about 93,000 acres are proposed. Co-operative seed stores will be set up at the headquarters of every national extension block and similar stores for each group of 20 villages. Fertilisers and other agricultural accessories will also be made available in these stores.

(d) **Irrigation**:—As against 19·7 million acres to be irrigated (by major and minor irrigation projects) in the First Five Year Plan, an additional area of 21 million acres (12 million acres from large and medium projects, and 9 million from minor irrigation projects) is proposed for the Second Five Year Plan.

(e) **Fertilizers and Manures**:—The consumption of nitrogenous fertilisers will be increased from 0·61 million tons (in 1955) to over 1·8 million tons during the Second Plan; phosphate fertilisers consumption will also be stepped up. Utilisation of Oilcake (non-edible to livestock) will also be increased. Green manuring practice will receive increased attention in the manurial practices. Larger utilization of town compost and sewage too will be adopted.

Horticulture

(f) *Fruits and Vegetables*:—About half a million acres of orchards will be rejuvenated in the different States and about 0·2 million acres of new orchards will be laid during the Second Five Year Plan. Vegetable production will be encouraged, particularly in the neighbourhood of towns by organising nurseries and providing seeds and plants to vegetable growers on credit, and by co-operative marketing organisation of food and vegetable growers. Nucleus potato seed production will be taken up in the different potato growing States. Fruit and vegetable preservation will be encouraged by assistance to the canning industry and by setting up cold storage plants, etc. Export of such products will also be encouraged.

(g) *Marketing*:—Compared with only Rs. 7·5 million in the First Five Year Plan, Rs. 60 million have been ear-marked by the Centre for marketing, including warehousing. In addition, separate funds are also provided for a National Co-operative Development Board and an All-India Warehousing Corporation in State plans. The marketing programmes formulated on the basis of recommendations of the Rural Credit Survey Committee include 1,800 marketing co-operative societies, 350 warehouses and over 1,000 regulated markets.

(h) *Plant Protection*:—Plant protection work will be intensified; existing centres will be strengthened and five new centres will be established.

(i) *Research*:—For increasing the tempo of agricultural research in the States and in the Central Institutes and Commodities Research Stations, Rs. 140 million are provided. Agro-economic research will also be intensified, and two more agro-economic centres will be added to the present four.

(j) *Agricultural Education*:—For the training of village-level-workers, in addition to the existing 54 basic agricultural schools and 44 extension centres, it is proposed to establish 25 new basic agricultural schools, 21 extension centres and 16 basic agricultural wings attached to extension training centres. Additional agricultural colleges will be set up where they are needed, as 6,500 agricultural graduates are needed during the Second Plan. Financial assistance will be provided to State Governments for the establishment of four new agricultural colleges and expansion of training facilities in an equal number of existing agricultural colleges in the country. The financial details are, about ⅓th of the non-recurring expenditure will be provided by the Centre as grant, and the balance as loan, subject to a maximum of Rs. 2½ million for a new college and Rs. 0·75 million for the expansion of an existing college. The entire recurring expenditure would be the responsibility of the State Governments concerned. They are, however, obliged to reserve a suitable number of seats in their colleges for students from States without agricultural colleges.

CLASSIFICATION OF AREA

(Thousand acres)

States and Territories	Forests		Area not available for cultivation		Uncultivated land excluding current fallows		Fallow lands		Total cropped area	
	1953-54	1954-55	1953-54	1954-55	1953-54	1954-55	1953-54	1954-55	1953-54	1954-55
STATES										
Andhra Pradesh	12,302	12,614	11,916	11,429	7,695	7,788	6,953	7,112	29,801	29,739
Assam (A)	15,797	12,042	10,092	14,077	3,658	3,638	1,136	889	5,922	6,003
Bengal (West)	2,088	2,087	3,769	3,880	1,914	1,904	1,177	1,596	15,378	14,750
Bihar	8,841	9,126	5,515	5,224	2,881	2,916	5,972	6,196	25,336	23,750
Bombay	15,629	15,214	20,368	19,384	10,678	11,263	7,912	7,540	68,686	69,247
Jammu & Kashmir ..	1,380	1,400	1,695	1,739	721	708	425	403	1,818	1,849
Kerala	2,460	2,515	1,042	1,033	1,027	1,017	512	443	5,218	5,233
Madhya Pradesh	33,617	33,675	11,441	11,365	18,068	18,002	6,464	6,062	41,547	42,403
Madras	4,757	4,491	5,488	5,534	3,812	3,663	3,876	3,935	16,777	17,116
Mysore	6,413	6,851	4,395	4,531	6,779	6,687	3,960	3,847	25,265	25,589
Orissa	10,125	8,799	5,329	6,274	6,164	6,466	2,667	3,008	15,079	14,956
Punjab	831	836	7,736	7,753	2,615	2,509	2,214	1,770	20,176	22,157
Rajasthan	3,260	3,433	18,392	16,535	22,217	21,974	14,032	15,182	23,069	23,505
Uttar Pradesh	8,479	8,648	11,116	11,002	8,208	7,813	3,749	3,518	50,632	51,895
TOTAL STATES ..	125,979	121,726	118,294	119,760	96,437	96,348	61,049	61,496	349,704	353,723
TERRITORIES										
Andaman & Nicobar Islands	34	37	16	16	15	15	1	2	12	12
Delhi	(a)	(a)	79	79	46	46	14	11	228	296
Himachal Pradesh	400	400	160	157	1,018	1,020	58	57	1,019	1,041
Laccadive, Minicoy and Amindivi Islands	*	*	*	*	*	*	*	*	*	*
Manipur	37	37	(b)	(b)	96	91	10	(a)	203	218
Tripura	1,574	1,574	65	66	472	469	61	46	539	587
TOTAL TERRITORIES..	2,048	2,048	320	318	1,647	1,641	144	116	2,001	2,126
TOTAL INDIA ..	128,024	123,774	118,614	120,078	98,084	97,989	61,193	61,612	351,705	355,854

* Not available. (a) Less than 500 acres. (b) Included under forests. (A) Including North-East Frontier Agency.

AREA UNDER DIFFERENT FOOD CROPS CULTIVATED IN 1953-54 & 1954-55

(Thousand acres)

States and Territories	Rice		Wheat		Barley		Maize		Jowar		Bajra		Ragi	
	1953-54	1954-55	1953-54	1954-55	1953-54	1954-55	1953-54	1954-55	1953-54	1954-55	1953-54	1954-55	1953-54	1954-55
STATES														
Andhra Pradesh ..	6,372	6,371	49	60	8	9	464	475	6,380	6,145	1,834	1,640	827	808
Assam	4,237	4,195	6	7	–	–	36	38	6,380	6,145	–	–	–	–
Bengal (West)	11,327	9,833	141	141	128	107	155	117	4	4	(a)	(a)	30	24
Bihar	12,200	12,024	1,544	1,597	1,126	899	1,693	1,612	9	7	6	9	400	374
Bombay	3,996	4,062	2,780	2,850	38	36	553	504	17,826	17,736	10,134	9,578	626	638
Jammu & Kashmir ..	477	452	230	275	78	50	396	283	1	3	44	31	(a)	–
Kerala	1,906	1,941	(a)	(a)	–	–	1	1	12	12	1	1	10	11
Madhya Pradesh ..	9,473	9,363	5,248	5,716	375	410	1,051	1,013	5,658	5,350	522	517	36	36
Madras	8,097	5,266	4	4	1	1	31	16	1,913	1,771	1,703	1,338	1,001	948
Mysore	2,058	2,293	710	666	13	11	27	27	6,214	6,399	1,314	1,389	2,006	2,021
Orissa	9,619	9,518	12	13	1	1	61	62	17	17	11	11	305	305
Punjab	648	654	4,097	4,434	566	617	977	948	822	722	3,056	2,446	9	20
Rajasthan	169	157	1,957	2,069	1,213	1,274	1,307	1,341	2,700	2,748	8,647	8,042	(a)	(a)
Uttar Pradesh	9,053	9,000	9,230	9,295	5,084	4,808	2,535	2,594	2,274	2,506	2,813	2,884	474	483
TOTAL STATES ..	76,632	75,209	26,008	27,127	8,631	8,223	9,287	9,031	43,830	43,420	30,085	27,936	5,724	5,668
TERRITORIES														
Andaman & Nicobar Islands	6	7	–	–	–	–	–	–	–	–	–	–	–	–
Delhi	1	2	60	67	15	13	3	4	49	26	60	47	–	–
Himachal Pradesh ..	112	110	325	322	73	73	271	276	3	–	(a)	(a)	43	43
Laccadive, Minicoy & Amindivi Islands ..	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Manipur	176	217	1	1	–	–	(a)	(a)	–	–	–	–	–	–
Tripura	391	404	–	–	–	–	(a)	(a)	–	–	–	–	–	–
TOTAL TERRITORIES	686	740	386	390	88	86	274	280	52	26	60	47	43	43
TOTAL INDIA ..	77,318	75,949	26,394	27,517	8,719	8,309	9,561	9,311	43,882	43,446	30,145	27,983	5,767	5,711

AREA UNDER DIFFERENT FOOD CROPS CULTIVATED IN 1953-54 & 1954-55

(Thousand acres)

States and Territories	Small Millets		Total Cereals		Gram		Red Gram		Other Pulses		Total Pulses		Total Foodgrains	
	1953-54	1954-55	1953-54	1954-55	1953-54	1954-55	1953-54	1954-55	1953-54	1954-55	1953-54	1954-55	1953-54	1954-55
STATES														
Andhra Pradesh ..	3,124	2,951	19,058	18,449	281	299	461	422	3,000	2,955	3,742	3,676	22,800	22,125
Assam	8	5	4,287	4,245	7	7	9	6	151	173	167	186	4,454	4,431
Bengal (W)	34	6	11,819	10,232	492	438	44	57	1,476	1,536	2,012	2,031	13,831	12,263
Bihar	747	773	17,725	17,295	1,357	1,384	446	469	4,722	4,156	6,525	6,009	24,250	23,304
Bombay	1,153	1,123	37,106	36,527	1,215	1,361	1,589	1,523	3,883	3,860	6,687	6,744	43,793	43,271
Jammu & Kashmir ..	57	17	1,283	1,111	3	9	–	–	–	–	3	9	1,286	1,120
Kerala	31	35	1,961	2,001	(a)	(a)	10	9	22	55	30	65	1,991	2,066
Madhya Pradesh ..	3,554	3,628	25,917	26,033	3,430	3,388	1,048	1,013	4,103	4,021	8,581	8,422	34,498	34,455
Madras	1,765	1,632	11,515	11,026	4	4	163	143	915	920	1,082	1,067	12,597	12,093
Mysore	1,455	1,454	13,797	14,260	400	377	683	629	1,885	2,095	2,968	3,101	16,765	17,361
Orissa	115	117	10,141	10,044	61	58	33	33	1,001	1,049	1,095	1,140	11,236	11,184
Punjab	22	24	10,197	9,865	3,976	5,886	–	–	647	604	4,623	6,490	14,820	16,355
Rajasthan	266	221	16,259	15,852	1,831	2,168	19	34	3,150	2,994	5,000	5,196	21,259	21,048
Uttar Pradesh	1,641	1,748	33,104	33,408	6,592	6,567	1,439	1,605	3,044	2,825	11,075	10,997	44,179	44,405
TOTAL STATES ..	13,972	13,734	2,14,169	2,10,348	19,649	21,946	5,952	5,944	27,999	27,243	53,590	55,133	2,67,759	2,65,481
TERRITORIES														
Andaman & Nicobar Islands	–	–	6	7	–	–	–	–	–	–	–	–	6	7
Delhi	–	–	188	159	25	81	–	–	8	8	33	89	221	248
Himachal Pradesh ..	56	65	883	889	15	20	(a)	–	55	56	70	76	953	965
Laccadive, Minicoy and Amindivi Islands ..	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Manipur	–	–	177	218	–	–	–	–	–	–	–	–	177	218
Tripura	–	–	391	404	–	–	–	–	2	2	2	2	393	406
TOTAL TERRITORIES	56	65	1,645	1,677	40	101	–	–	65	66	105	167	1,750	1,844
TOTAL INDIA ..	14,028	13,799	2,15,814	2,12,025	19,689	22,047	5,944	5,944	28,064	27,309	53,695	55,300	2,69,509	2,67,325

(a) Below 500 acres.

AREA UNDER OILSEEDS IN 1953-54 & 1954-55

(Thousand acres)

States & Union Territories	Groundnut		Sesamum		Rape & Mustard		Linseed		Castor Seed		Total Oilseeds	
	1953-54	1954-55	1953-54	1954-55	1953-54	1954-55	1953-54	1954-55	1953-54	1954-55	1953-54	1954-55
STATES												
Andhra Pradesh	2,417	3,067	827	708	3	2	66	74	860	902	4,173	4,753
Assam	–	–	14	14	287	290	3	3	4	4	308	311
Bengal (W)	–	–	11	11	204	205	70	80	–	–	285	296
Bihar	–	–	48	63	226	234	313	246	21	30	608	573
Bombay	3,878	5,139	930	892	72	73	501	525	220	220	5,601	6,849
Jammu & Kashmir	–	–	–	–	32	50	42	14	–	–	74	64
Kerala	31	36	9	50	(a)	(a)	–	–	(a)	(a)	40	86
Madhya Pradesh	496	810	1,216	1,228	315	322	1,235	1,232	22	21	3,284	3,608
Madras	1,306	1,772	431	380	2	2	–	–	31	35	1,770	2,189
Mysore	1,878	2,108	254	213	11	13	106	118	126	119	2,375	2,571
Orissa	61	61	272	257	127	126	26	26	52	53	538	523
Punjab	117	136	74	64	503	631	28	28	–	–	722	859
Rajasthan	62	127	1,058	1,323	279	532	148	167	3	3	1,550	2,152
Uttar Pradesh	249	291	1,195	1,292	3,461	3,520	888	839	7	7	5,800	5,949
TOTAL STATES	10,495	13,547	6,339	6,490	5,522	6,000	3,426	3,352	1,346	1,394	27,128	30,783
TERRITORIES												
Andaman & Nicobar Islands	–	–	–	–	–	–	–	–	–	–	–	–
Delhi	–	–	–	–	4	5	–	–	–	–	4	5
Himachal Pradesh	(a)	1	2	2	8	9	2	2	–	–	12	14
Laccadive, Minicoy & Amindivi Islands	–	–	–	–	–	–	–	–	–	–	–	–
Manipur	–	–	–	–	–	–	–	–	–	–	–	–
Tripura	–	–	10	9	11	11	–	–	–	–	21	20
TOTAL TERRITORIES	(a)	1	12	11	23	25	2	2	–	–	37	39
TOTAL INDIA	10,495	13,548	6,351	6,501	5,545	6,025	3,428	3,354	1,346	1,394	27,165	30,822

(a) Below 500 acres.

AREA UNDRR DIFFERENT CASH CROPS IN 1953-54 & 1954-55

(Thousand acres)

States & Union Territories	Sugarcane		Tobacco		Cotton		Jute		Mesta	
	1953-54	1954-55	1953-54	1954-55	1953-54	1954-55	1953-54	1954-55	1953-54	1954-55
STATES										
Andhra Pradesh	139	176	350	308	1,198	1,218	–	–	138	179
Assam	64	60	22	24	38	35	284	282	3	3
Bengal (W)	48	57	39	41	1	(a)	560	551	12	141
Bihar	299	327	30	28	12	12	283	270	17	31
Bombay	198	213	220	211	9,284	9,908	–	–	159	90
Jammu & Kashmir	3	3	–	–	–	–	–	–	–	–
Kerala	6	17	(a)	(a)	17	19	–	–	–	–
Madhya Pradesh	67	71	20	14	2,107	2,356	–	–	25	22
Madras	78	126	33	38	813	823	–	–	4	1
Mysore	112	112	115	103	2,283	2,449	–	–	87	39
Orissa	60	59	11	11	26	25	59	87	17	21
Punjab	387	414	7	7	898	1,189	–	–	1	1
Rajasthan	40	53	18	13	427	509	–	–	–	–
Uttar Pradesh	1,973	2,292	43	44	140	120	27	34	–	–
TOTAL STATES	3,474	3,980	908	842	17,244	18,663	1,213	1,224	463	528
TERRITORIES										
Andaman & Nicobar Islands	–	–	–	–	–	–	–	–	–	–
Delhi	3	5	1	1	(a)	1	–	–	–	–
Himachal Pradesh	3	3	2	2	1	(a)	–	–	–	–
Laccadive, Minicoy and Amindivi Islands	–	–	–	–	–	–	–	–	–	–
Manipur	–	–	–	–	–	–	–	–	–	–
Tripura	5	6	1	1	20	20	15	19	–	–
TOTAL TERRITORIES	11	14	4	4	21	21	15	19	N.A.	N.A.
TOTAL INDIA	3,485	3,994	912	846	17,265	18,684	1,228	1,243	463	528

(a) Below 500 acres. N. A. Not available.

AREA UNDER SPICES, CONDIMENTS AND PLANTATION CROPS, 1953-54 & 1954-55

(Thousand acres)

States & Union Territories	Pepper (Black)		Ginger (Dry)		Chillies (Dry)		Tea		Coffee		Rubber	
	1953-54	1954-55	1953-54	1954-55	1953-54	1954-55	1953-54	1954-55	1953-54	1954-55	1953-54	1954-55
STATES												
Andhra Pradesh	–	–	1	1	343	414	–	–	(a)	(a)	–	–
Assam	–	–	–	–	7	8	384	386	–	–	–	–
Bengal (W)	–	–	1	1	16	16	191	192	–	–	–	–
Bihar	–	–	–	–	61	51	4	4	–	–	–	–
Bombay	–	–	1	1	295	332	–	–	–	–	–	–
Jammu & Kashmir	–	–	–	–	–	–	–	–	–	–	–	–
Kerala	180	179	32	23	11	11	87	97	26	26	163	166
Madhya Pradesh	–	–	1	1	88	100	–	–	–	–	–	–
Madras	10	10	3	1	113	122	73	68	44	45	2	2
Mysore	18	17	2	2	263	282	9	4	160	163	4	4
Orissa	–	–	2	2	24	24	–	–	(a)	(a)	–	–
Punjab	–	–	(a)	(a)	63	84	9	9	–	–	–	–
Rajasthan	–	2	(a)	(a)	43	66	–	–	–	–	–	–
Uttar Pradesh	–	–	–	–	5	8	5	6	–	–	–	–
TOTAL STATES	208	208	43	32	1,332	1,518	762	766	230	234	169	172
TERRITORIES												
Andaman & Nicobar Islands	–	–	–	–	–	–	–	–	–	–	–	–
Delhi	–	–	–	–	1	2	–	–	–	–	–	–
Himachal Pradesh	–	–	2	3	1	1	2	2	–	–	–	–
Laccadive, Minicoy & Amindivi Islands	–	–	–	–	–	–	–	–	–	–	–	–
Manipur	–	–	–	–	–	–	–	–	–	–	–	–
Tripura	–	–	–	–	2	2	11	11	–	–	–	–
TOTAL TERRITORIES	–	–	2	3	4	5	13	13	–	–	–	–
TOTAL INDIA	208	208	45	35	1,336	1,523	775	779	232	N.A.	169	172

(a) Below 500 acres.

AREA SOWN UNDER ALL CROPS IN 1953-54 & 1954-55

(Thousand acres)

States & Union Territories	Net area sown		Area sown more than once		Total area sown	
	1953-54	1954-55	1953-54	1954-55	1953-54	1954-55
STATES						
Andhra Pradesh	27,272	27,312	2,529	2,427	29,801	29,739
Assam†	5,081	5,118	841	885	5,922	6,003
Bengal (West)	13,247	12,727	2,181	2,023	15,378	14,750
Bihar	19,232	18,979	6,104	4,705	25,336	23,684
Bombay	66,032	66,462	2,654	2,885	68,686	69,347
Jammu & Kashmir	1,681	1,674	187	175	1,818	1,849
Kerala	4,331	4,363	887	870	5,218	5,233
Madhya Pradesh	37,540	38,191	4,007	4,212	41,547	42,403
Madras	14,034	14,354	2,743	2,762	16,777	17,116
Mysore	24,378	24,787	887	802	25,265	25,589
Orissa	14,116	13,854	963	1,104	15,079	14,958
Punjab	16,894	17,421	3,282	4,736	20,176	22,157
Rajasthan	26,690	27,325	1,379	2,180	28,069	29,505
Uttar Pradesh	40,959	41,572	9,673	9,823	50,632	51,395
TOTAL STATES	311,487	314,139	38,217	39,589	349,704	353,728
TERRITORIES						
Andaman & Nicobar Islands	12	12	(a)	(a)	12	12
Delhi	227	230	1	68	228	298
Himachal Pradesh	667	679	352	362	1,019	1,041
Laccadive, Minicoy & Amindivi Islands	*	*	*	*	*	*
Manipur	203	218	*	*	203	218
Tripura	462	479	77	78	539	557
TOTAL TERRITORIES	1,571	1,618	430	508	2,001	2,126
TOTAL INDIA	313,058	315,757	38,647	40,097	351,705	355,854

† Including North-East Frontier Agency. (a) Less than 500 acres. * Not known.

LIVESTOCK

IT is estimated that there were about 307 million total livestock in 1956. Of these the cattle formed about 159 million, buffaloes about 45 million, sheep 38·6 million, goats about 56·6 million, horses, ponies about 1·5 million, other livestock (mules, donkeys, camels and pigs) about 6·7 million and poultry about 97·4 million. India has thus about 19 per cent of the world's cattle, about half the world's buffaloes and about 18 per cent of the goats.

In spite of the large number of livestock, the net value of the livestock products in 1950-51 amounted only to about 16 per cent of the income from agriculture.

The imports during 1954-55, 1955-56 and 1956-57, were worth Rs. 51 lakhs, Rs. 56 lakhs and Rs. 35 lakhs respectively, and exports (excluding monkeys) were worth Rs. 385 lakhs, Rs. 393 lakhs and Rs. 21 lakhs respectively.

Monkeys have been exported recently on a large scale, namely, 100,330 in 1954-55 valued at Rs. 18 lakhs, 106,296 in 1955-56 valued at Rs. 29 lakhs and 1,144,090 in 1956-57 valued at Rs. 80 lakhs.

CATTLE

For draught purposes cattle are mainly used everywhere though male buffaloes are important as draught animals in the rice tracts and humid parts of the country. For dairy purposes, the buffalo is important, the milk yield being high and the percentage of butter fat considerably above that in cow's milk.

As for the fodder that is required, only two-thirds in the roughage variety and one-third in the concentrate are available.

Generally speaking, cattle thrive well in the dry areas of less than 30" rainfall, but where the rainfall is heavy they are poor producers.

Among the well-defined breeds of cattle (26 in all), three broad divisions are : dairy and draught cattle and those that serve a dual purpose.

Milch :—The Sahiwal, the best milch breed, are responsive to environment, have an yield of 4,000 lbs. a year. The Sindhi are also responsive to environment, the Gir in Saurashtra and Rajasthan have an yield of 3,700 lbs. a year.

Dual :—The Galo in Madhya Pradesh are draught animals but also good milkers, 3,000 lbs. The Kangayam in the south and south-east of the country are powerful draught animals of average milk yield. The Kankrej, are essentially draught but have milk potentialities (3,000 lbs.), they belong to Gujarat. The best known in this group are the Hiriana (Punjab, 3,000 lbs.), Tharparkar (Gujarat and Rajasthan, 3,000 lbs.), and Ongole (Andhra).

Draught :—The Amritmahal (Mysore) are poor milkers ; then there are the Hallikar (Mysore).

Other breeds are the Kenkatha (U.P.) ; the Kherigarh, chiefly draught (U.P.) ; the Malvi, chiefly draught (Malwa, Andhra) ; the Bachaur, chiefly draught (Bihar) ; the Krishna, fairly good milkers (Maharashtra, Andhra) ; the Mehwati, for heavy ploughing and carting (Rajasthan) ; the Nagori, essentially draught but good milkers too (Andhra) ; the Rath, strong and heavy (Rajasthan) ; the Dangi, active workers with poor milk yield but good for heavy rainfall areas (Maharashtra) ; the Deoni are good for cultivation and also as milch cattle (Maharashtra).

In the order of the productivity of milk we might arrange the cattle as follows : the Sahiwal, the Kankrej, the Ongole.

The best known breeds of buffaloes (26 in all) are the Murrah, Nili and Ravi buffaloes of the Punjab, the Jafferbadi buffaloes of Kathiawad Mehsana of Gujarat, Nagpuri of Vidarbha and the Surti and Pandharpuri, a type of Nagpuri buffaloes of Bombay State. All except the Nagpuri are noted dairy breeds. Murrah, is adapted to all climates. They also yield on an average about 3,000 lbs. of milk for over 300 days in a year.

Generally speaking, buffaloes provide the Indian farmer with milk and ghee while the cow is only the mother of the working bullock. The buffalo is therefore better fed and looked after. The average annual milk yield of a buffalo is 1,100 lbs. against 413 lbs. of the Indian cow. Further buffalo milk being one and a half times as rich in fat content as cow milk, is more valued for butter and ghee production. Buffaloes are also better utilisers of coarse fodder and are less expensive to keep.

Experience of Government farms is that by better feeding and management the production of village cows can be increased by 50 per cent, whereas that of the buffaloes can be increased only by 15 per cent. In view of the early maturity of the cow and the greater utility of its males for work, cows have more overall utility, but buffaloes are comparatively economical where there is cheap fodder or free grazing in plenty.

Livestock Development

Livestock Development is stepped up through special schemes such as Key Villages, Gosadan, and Poultry Development Schemes.

Under the Key Village Scheme by the end of 1955-56, 144 artificial insemination centres and 574 key village units had been established. Legislation for livestock improvement and control of contagious disease exists in all States (except Assam, Orissa, Rajasthan and U.P.). A total of about 848 bulls and 304 buffalo bulls of recognised breeds were located at the artificial insemination centres established during the first plan.

In 1955-56, 37,502 male cattle were castrated. During 1954-55 a scheme for subsidizing and rearing selected calves produced in key village areas were also initiated. During 1955-56, 1,873 calves were subsidised in the States of Andhra, Bihar, Bombay, Madras, Kerala (Travancore-Cochin), Madhya Pradesh (Ajmer, Bhopal) and Delhi.

Much progress has not been made in the Key Village programme, nor in the organisation of proper facilities for the profitable marketing of improved livestock and livestock products along co-operative lines. An effort has been made to promote the formation of small cattle breeders' co-operative societies which may form the nucleus for the expanded activities to be taken up later.

Gosadans.—The First Five-Year Plan proposed the establishment of 40 gosadans at a cost of Rs. 1·5 million in which, old infirm and useless cattle are segregated and sent to gosadans located in remote forests and other waste lands where grazing facilities are not fully utilised. All male stock were castrated before admission into the gosadans. The remains of dead animals such as skins, hides and hoofs, etc. were to be utilised by setting up a small 'charmalaya' at each centre.

SHEEP

It has been estimated that the number of sheep in the country is about 40 million and that the total quantity of wool produced is 54 million lb. annually valued at Rs. 10-5 million. The yield of wool per sheep varies greatly in different parts of the country. In Punjab, Uttar Pradesh and Rajasthan, the annual production per sheep is estimated at between 3·1 lb. and 4 lb., while in the rest of the States it does not exceed 1 lb. The average for the whole of the country is in the neighbourhood of 2 lb. per sheep per year.

Sheep also supply meat worth about Rs. 120 million every year in addition to pelts and manure. Sheep manure is very much valued among other manures as it contains twice as much nitrogen and potassium as are present in cattle manure. An individual sheep contributes 0·5 to 0·7 tons of manure annually.

India still requires large quantities of wool. About 16 million pounds of wool, tops and yarns costing about Rs. 120 million are imported. At the same time, we export about 38 million pounds valued at Rs. 81 million annually. This is because the fibre composition of the selected breeds of our major sheep rearing areas (such as Rajasthan, Saurashtra, Kashmir, Himachal Pradesh, Uttar Pradesh and the Deccan) are variable, and also coarse or coloured or otherwise defective. The wool produced from Indian sheep is modulated and not fit for the manufacture of cloth. It is mostly used for making carpets.

A sheep and wool development scheme has now been launched on the lines of the key village scheme for cattle improvement, in 250 centres in different States.

GOATS

Goats form an integral part of Indian agricultural economy. The goat is the principal source of meat supply ; it also provides manure, skin, hair (Mohair) and milk. There are about 57 million goats in India, which is a fourth of the world's goat population. About a fifth of this is used for milk production. Annually about 17 million goats are in demand for human consumption. About 21·3 million pieces of goat skins and hides valued at Rs. 75 million are produced in India, of which skins worth about 57·2 million rupees are exported. Goats are of active habit and multiply rapidly. Rajasthan has the largest goat population followed by Bombay, Bihar and U.P.

The important breeds of Indian goats fall under four broad groups :—Himalayan Goats are found in the hills of Kashmir, Punjab and Uttar Pradesh. These are mostly reared for mohair production and also for meat. There is also the Pashmani goat of Kashmir which produces an undercoat of very fine variety of hair which goes into the manufacture of shawls. The plain goats comprise some of the best mutton and milch animals. Some of the better known breeds are Marwari, Konor and Jamnapari. The last yield 600 lbs. in a lactation of 250 days. Deccan plateaux goats yield small quantities of milk and are mostly reared for mutton.

Another group consists of animals reared by landless labourers and artisan classes purely for milk supply. The local goat (Punjab) yields only ½ to 1 lb. of coarse hair mainly used for rope and belt, whereas the cross bred (with Angora) yields 4 to 6 of mohair a year. Results from the Punjab and U.P. have shown that selected goats yield (6 to 8 lbs. milk per day going upto even 12 lbs. in U.P.) on an average about 400 lbs. of milk per lactation of 150 days while a few went upto 700 lbs. and even higher.

Exploratory breeding of imported Saanlen goat (which is one of the highest milk yielders of the world) at Poona have shown that a suitable milk breed can be evolved for the Hill regions of the Deccan plateaux.

POULTRY

Poultry-keeping is an important subsidiary industry of the poorer classes. Indigenous poultry of low grade produce on an average 50 small-sized eggs per year.

Even at a low rate of production, the annual contribution of Indian poultry to the country's economy is not less than Rs. 100 million.

At present, the *per capita* consumption of eggs in India is only four per annum as compared with 400 in U.K., U.S.A. or Denmark.

An improved strain of poultry has been evolved at Izatnagar by selective breeding for ten generations which give an average annual egg yield of 150 and sometimes of 234 of the larger egg type.

Poultry Development.—To stimulate poultry development as a subsidiary industry in the rural areas, a pilot project was approved early in 1955, under which 50 extension centres were to be established during 1955-56 with the assistance under the Indo-U.S. Technical Co-operation Programme. 33 centres have now been established, and are in different stages of development.

DAIRYING

Like agriculture dairying is one of the major industries in India as milk and milk products contribute not less than Rs. 6,200 million to the national income.

Despite the large vegetarian population and large number of cattle, the dairy industry is still unorganised. Of 200 million cattle and buffaloes, 72 million or 36 per cent are milch animals (females over 3 years). Milk yield is, however, low: Cow 413 lb. per year, buffalo 1,100 lb. Though buffaloes form only 30 per cent. of milch animals, due to their comparatively high yield, they account for 55·9 per cent of the total milk produced. Buffalo milk has butter fat content 6·5 to 7 per cent. as against 4 to 5 per cent. of cow.

Gross production of milk is 20·65 million tons, of which 13·2 million tons are marketed, the rest being used for home consumption or fed to calves. *Per capita* daily consumption of milk and milk products varies from 16·89 oz. in the Punjab to 26·4 oz. in Orissa; average 5·5 oz.

Intensive steps are being taken by most States to improve the cattle, both from the view-point of draught and milk production; and many important schemes have been put in operation: cattle fairs, milk recording projects, cattle breeding farms. Cross breeding with imported bulls did not yield good results in the long run. Only Indian bulls are now used for this purpose.

Most of the States have appointed Dairy Development Officers to organise dairying both on co-operative lines as well as through private enterprise.

Dairy Development Projects working in the various States are—*Andhra*: Milk supply schemes are introduced at Kurnool and Guntur; *Bombay*: A very large colony has been established at Aarey near Bombay City where about 15,000 animals are housed under the most modern conditions and supply milk to Bombay City. A large dairy of similar nature has been established at Anand with the assistance of UNICEF. Milk supply schemes are also working at Poona; *Bihar*: Co-operative milk unions have been set up in 3 towns; *Madhya Pradesh*: The number of dairy units has increased from 7 to 11; *Madras*: A number of cooperative milk supply schemes are in operation. These had reached a daily output of over 29,000 maunds in 1955-56. Further, the State Government advances loans to co-operative societies for the purchase of milch cattle. About 2,740 cattle were purchased in this way in 1955-56; *Mysore*: Milk supply schemes are taken up at Dharwar and Hubli; *Orissa*: Eight subsidised dairies have been established so far; *Uttar Pradesh*: There are co-operative milk units in 9 towns with well-equipped dairies where milk collected from rural areas is pasteurised prior to distribution.

Research in dairying is done at the National Dairy Research Institute at Karnal and its southern regional station at Bangalore. This Institute also runs courses in Animal Husbandry and Dairying.

The chief diseases that the Animal Husbandry and Veterinary Departments have to deal with are glanders and surra in equines, foot and mouth disease, haemorrhagic septicaemia, black quarter and anthrax in ruminants while tuberculosis, Johne's disease and contagious abortion are assuming greater importance than in the past. Glanders and surra are both scheduled diseases under the Glanders and Farcy Act. Glanders is incurable but surra can now be successfully treated with Naganol or Antrypol. This disease (surra) also affects camels, cattle and dogs and in recent years its importance as a bovine disease has been more widely recognised.

A major scourge affecting Indian cattle is Rinderpest which causes a mortality of about 60 per cent resulting in an annual loss of 0·4 million heads of cattle, valued at about 300 million rupees. The first plan had provided Rs. 1·67 million for Rinderpest eradication. Because of the eradication campaign of the past, Kerala and Madras are now free from the disease. But, further north, in Andhra Pradesh, Mysore, and Bombay States the disease is prevalent and a pilot scheme to vaccinate and brand about 12 million cattle and buffaloes has been in operation since October, 1954.

The quantity vaccine produced during the first plan period (October 1954 to March 1956) and the number of animals vaccinated were 7·5 million doses and 5·7 million animals respectively. During 1956-57, 10·573 million doses of vaccine were produced and 5·46 million animals were vaccinated bringing the total to 18·113 million doses of vaccine produced and 11·16 million animals vaccinated since the beginning of the scheme.

Of the diseases of ruminants mentioned, all, with the exception of foot and mouth disease, can now be controlled either by means of sera or by vaccines.

Indian poultry are also subject to several contagious diseases. The dreaded "Ranikhet" disease is fairly widespread and its ravages have seriously hampered the poultry industry. A chick-passaged vaccine has now been developed at the Indian Veterinary Research Institute. Fowl pox and fowl cholera vaccines are available for the protection of poultry against these diseases.

According to the FFYP, 650 veterinary dispensaries were established. During 1955-56, 192 dispensaries (including 13 mobile units) were set up.

Research and Educational Institutions

The Chief Research Centres under the Central Government are:—Indian Veterinary Research Institute is situated at two places in Uttar Pradesh, Izatnagar, and at Mukteswar near Bareilly. They undertake both research and training.

The Institute supplies the veterinary demands of the whole of India for sera and vaccines and except for two minor institutions (one in Madras and the other in Mysore), it is the only source in India for these products. The present output of these products meet only ⅓rds of the demands. Recently on the advice of a foreign expert in the manufacture of Biological Products through modern methods, steps are being taken to modernise the equipment and processes.

Similarly, Research in Dairying is done at the Indian Dairy Research Institute, Karnal (Punjab) and at its southern regional station at Bangalore (Mysore). The Indian Dairy Research Institute is the principal Educational and Research centre in the country in Dairy Science. The institute gives courses in Animal Husbandry and Dairying.

ANIMAL DISEASES

There are fourteen Veterinary Colleges in India, one each at Gauhati, Patna, Calcutta, Bombay, Mathura, Hyderabad, Madras, Hissar, Bikaner, Bapatla, Mhow, Cuttack, Trichur and Jabalpur.

LIVESTOCK STATISTICS

The following table shows the estimates of livestock population for 1956:

(In thousands).

Area	Cattle	Buffaloes	Sheep	Goats	Horses & Ponies	Other Livestock	Total Livestock	Poultry
STATES								
1. Andhra Pradesh	10,958	5,743	7,428	3,601	96	708	28,534	14,058
2. Assam	5,247	478	32	1,103	16	306	7,182	8,712
3. Bengal (West)	11,587	772	667	5,298	30	345	18,699	13,189
4. Bihar	14,331	3,387	990	6,422	119	709	25,958	8,690
5. Bombay	20,231	5,427	4,000	7,155	245	407	37,465	10,548
6. Jammu & Kashmir ..	1,757	374	1,465	814	96	2	4,508	2,166
7. Kerala	2,586	515	100	918	2	125	4,196	6,768
8. Madhya Pradesh	22,560	4,995	898	5,220	253	425	34,351	5,383
9. Madras	9,859	2,066	7,178	3,965	19	569	23,651	10,153
10. Mysore	8,997	2,642	4,151	2,606	42	254	18,692	7,899
11. Orissa	8,036	884	679	1,924	6	114	11,643	5,225
12. Punjab	5,943	3,852	1,164	1,871	100	445	13,375	1,411
13. Rajasthan	12,127	3,452	7,378	8,734	113	700	32,499	461
14. Uttar Pradesh	22,936	9,781	1,903	6,258	352	1,410	42,648	2,178
TERRITORIES								
1. Andaman & Nicobar Islands	5	6	*	4	*	14	29	57
2. Delhi	120	115	7	22	7	35	306	71
3. Himachal Pradesh	1,171	219	633	598	5	6	2,632	58
4. Laccadive, Minicoy & Amindivi Islands ..	*	*	*	*	*	*	*	*
5. Manipur	143	17	†	6	1	36	203	*
6. Tripura	317	41	3	109	1	41	512	355
TOTAL INDIA ..	158,863	44,766	38,666	56,623	1,503	6,657	307,083	97,373

* Not known. † Less than 500.

FOOD

THE areas covered by the Punjab and the former Vindhya Pradesh (now part of Madhya Pradesh) are generally surplus in wheat.

The areas covered by the following States are generally surplus in rice: Orissa, Madhya Pradesh, Andhra, Punjab.

From the point of view of food generally the position is roughly as follows:

Surplus areas: Madhya Pradesh, Punjab, Orissa, Assam, Andhra.

Self-sufficient areas: U.P.

Deficit areas: Bombay, Madras, Mysore, Rajasthan, Himachal Pradesh, Bihar, West Bengal, Kerala.

Population under statutory rationing while it was in force: 1951—46 million, 1952—31·2 million, 1953—22·8 million.

Rationing was abolished in November 1954.

Population covered by other types of rationing (while it was in force) including Fair Price Shops: 1951—68·2 million, 1952 (Dec.)—97·1 million, 1953—60·6 million.

Decontrol of food after the war started in the middle of 1952 and was complete through a series of intermediate steps by the end of the third week of March 1955.

Wheat and coarse grains were completely decontrolled in November 1953, grams in January 1954 and rice in July 1954. Restrictions on the inter-State movements of wheat was withdrawn on March 17, 1955.

The statutorily rationed population on the last day of 1953 was as follows (to the nearest thousand) (old States): Assam: 330,000; Bombay: 6,455,000; Punjab: 1,200,000 (only for rice in 12 towns); West Bengal: 5,878,000; Hyderabad: 1,200,000 (only for rice in two towns); Jammu and Kashmir: 90,000; Travancore-Cochin: 8,568,000; Delhi: 1,488,000; Total (excluding Punjab and Hyderabad): 22,809,000.

PRODUCTION

Total foodgrains production in the country was as follows: (figures in million tons) 1950–51: 50; 1951–52: 51·17; 1952–53: 58·27; 1953–54: 68·72; 1954–55: 66·60; 1955–56: 65·3; 1956–57: 68·7 (estimate).

Taking cropwise the production figures were as follows:

Rice: Rice production during the year 1956–57 touched an all-time high at 28·1 million tons, which showed an increase of 4·8 per cent. in production over the previous year.

Wheat: Production in 1956–57 was 9,068,000 tons, which showed an increase of 5·8 per cent. over the previous year. The increase in production was shared by Punjab and Rajasthan and to a lesser extent by U.P. and Madhya Pradesh.

Gram: Production in the country in 1956–57 was 5,930,000 tons which recorded an increase of 11·2 per cent. in production over 1955-56. This heavy increase was shared by almost all the important gram growing States except Bihar, and was particularly marked in Punjab, Rajasthan, Madhya Pradesh and U.P.

Maize: Production in 1956–57 touched an all-time high at 3,020,000 tons, which showed an increase of 18·2 per cent over the previous year's. The production of major millets—jowar and bajra—in the year 1956–57 was put at 10,353,000 tons, which showed an increase of 3·7 per cent. over last year.

The following are the comparative production figures 'of rice, wheat and barley during the five years 1953 to 1957:

(000 tons)

Year	Rice	Wheat	Barley
1956–57 ..	28,100	9,068	2,744
1955–56 ..	25,475	8,569	2,749
1954–55 ..	24,531	8,778	2,870
1953–54 ..	27,769	7,990	2,905
1952–53 ..	22,537	7,382	2,882

The All-India (Final) Estimate of production of foodgrains for 1956–57 was 68·7 million tons.

State-wise details of production in 1956–57 (in 000 tons) are as under:—

Andhra Pradesh 5,617; Assam 1,744; Bengal (West) 4,711; Bihar 5,244; Bombay 7,765; Jammu and Kashmir 504; Kerala 886; Madhya Pradesh 8,361; Madras 4,728; Mysore 3,673; Orissa 2,500; Punjab 5,556; Rajasthan 4,388; Uttar Pradesh 12,453; Andaman and Nicobar Islands 3; Delhi 31; Himachal Pradesh 255; Laccadive, Minicoy and Amindivi Islands (Not known); Manipur 117; Tripura 150.

The demand and supply of cereals from 1954 to 1956: (000 tons).

		1954	1955	1956 (e)
Production (a)		52,268	55,734	53,349
Procurement Net Imports (b)		1,407	15	36
(c)		754	232	554
(d)		506	..	2
Opening Stocks in Godowns	States	950	784	168
	Centre	518	856	738
	Total	1,468	1,640	906
Offtake from Godowns	States	1,504	449	642
	Centre	616	1,161	1,367
	Total	2,120	1,610	2,009

(a) Production figures refer to the agricultural year (*i.e.* July–June) and production under 1956 relates to the agricultural year (1955–56).
(*b*) Excludes quantities taken over from the State Governments to the Central Reserve.
(*c*) Shows total supplies out of both the imported cereals and internal surpluses.
(*d*) Shows separately the supplies out of internal surpluses already included under 'c'.
(*e*) Figures for 1956 are provisional and subject to revision.

DROUGHT

Famine conditions prevailed in parts of five States: Bihar, eastern U.P., Orissa, M.P. and West Bengal.

The drought area covered about 170,000 sq. miles with a population of about 80 millions.

According to a rough estimate between three and four million tons of foodgrains, mostly rice, had been lost.

The estimates of loss made by the State Governments was as follows in 1957-58:

Paddy crop in Bihar was not likely to yield more than 50 per cent of the normal production, while the extent of damage in Madhya Pradesh was assessed between 25 per cent and 70 per cent in different areas. Orissa's estimate of the loss in paddy crop was 55 to 65 per cent of the normal production and the fall in production in West Bengal was roughly placed at about eight lakh tons of rice. The U.P. Government estimated the damage to the late paddy crop in eastern districts to be ten annas or more in the rupee.

The Sivaraman Committee, appointed by the Planning Commission to study the scarcity conditions in Bihar, eastern Uttar Pradesh, Orissa and Madhya Pradesh, however, reported that earlier estimates of damage to the "kharif" crop were likely to prove exaggerated.

The Orissa crop, on the whole, might not be much below normal and the "rabi" crops would not generally be much affected.

The Committee was of the opinion that the total loss of crop in Bihar would be 35 per cent and not 60 per cent, as earlier feared, while the loss of rice in eastern U.P. and Madhya Pradesh would be about 224,000 tons and 940,000 tons respectively as against the first estimates of 489,000 tons and 1,482,000 tons respectively.

In Bihar, the loss of rice was likely to be 600,000 tons and not 1,960,000 tons as anticipated by the State Government.

1958 OUTLOOK

Authoritative circles viewed the food situation for 1958 with cautious optimism.

This optimism stemmed from the adequate programme of food imports backing the concerted activities within the country, the downward tendency in prices and the expectation that prices would fall further following various steps taken by the Government during 1957.

The Food Ministry estimated that foodgrains costing between Rs. 80 and Rs. 90 crores would have to be imported during the financial year 1957–58.

At the end of 1957 the Governments of India and of the States had built up stocks of a little over a million tons of wheat and rice after meeting its regular commitments for distribution through fair price shops.

Rice: 270,000 tons, wheat: 712,000 tons; others: 48,000 tons.

The drought conditions referred to made any accretion to the reserves impossible.

By the beginning of 1958 Government would have to draw upon its reserves which together with fresh imports under the agreements with the U.S.A. and Burma, about 1·5 million tons, are unlikely to last beyond the middle of 1958.

About rice, a redeeming feature was that 1957 would close with a balance of about 200,000 tons. This would mean that while imports in 1958 would be only five lakh tons against about seven lakh tons in 1957, it would still be possible to maintain distribution of rice on the same scale as in 1957.

So far as food imports were concerned, India had two long-term contracts—one for the import of 3·1 million tons of wheat from the U.S.A. under Public Law 480 and the second for the import of two million tons of rice from Burma for a period of five years from 1956.

By the end of 1957 the entire quantity of wheat due from the U.S.A. had arrived, except for about 4·6 lakh tons, which was expected in the first few months of 1958. From Burma about five lakh tons of rice was the 1957 import figure and a similar quantity was expected in 1958.

The position regarding wheat imports in 1958 was roughly as follows: Balance under P.L. 480 from the U.S.A. (450 to 500 thousand tons), aid under Colombo Plan from Canada (about 110,000 tons) and normal marketing imports as required by P.L. 480 agreement (400,000 tons).

In addition to these, it had been agreed that unused allocations totalling about 42 million dollars under P.L. 480 Agreement in respect of cotton, dairy products and tobacco should be diverted to food grains. This provided an additional import of over six lakh tons of wheat.

Meanwhile, it was understood, discussions were continuing for a new P.L. 480 Agreement with America.

The position in respect of rice, according to these circles, was however not so satisfactory, as it had not been found possible to augment the import of rice due to foreign exchange difficulty and non-availability of rice in the world market except at very high prices.

Amendment of the Essential Commodities Act in the middle of this year was an important step in the fight against high prices, for, it gave the Government the power to require stockists to sell not at prevailing market prices but at the average price of the past three months or at controlled prices.

Among the steps taken by Government to control prices were fixation of maximum prices at which rice and paddy was to be sold in three districts of Andhra Pradesh, application of section 3 (3A) of the Essential Commodities Act to the states of the Punjab, Rajasthan and western districts of U.P. in respect of gram and application, with effect from November 2, of the same section of the Act to U.P. and the Punjab in respect of wheat.

Government's policy was to control trade to end speculation—but without returning to full-scale controls. It decided to licence traders to know how and where the food stocks were and how and at what prices they were being disposed of.

An Extension Wing, with emphasis on increased agricultural production, was to be set up in the Ministry of Food and Agriculture to relate effectively scientific knowledge, resulting from agricultural research and other activities of the Ministry, to the programme of increasing food production in India. The Wing will work in co-operation with the Community Development and National Extension blocks, helping to give priority attention to increased food production.

There was an extra allotment of Rs. one crore for minor irrigation schemes during 1957-58.

Two expert committees were appointed, the first to suggest ways and means of combating special problems of areas like eastern U.P. where it was suspected climate had changed.

The second committee of specialists will examine all major and medium irrigation schemes in the drought-affected areas to inquire why the irrigation potential, provided by spending large sums of "scarce money," has not been fully utilised.

The balance sheet of foodgrains distributed by Governments during 1955 and 1956 was as follows:

(in thousand tons)

—	1955	1956
Opening Stock with States ..	784	168
Procurement	15	36
Net Supplies to States ..	232	552
Total Availability	1,031	756
Offtake in States	449	642
Transfer of Stocks to Centre	414	35
Stocks with States at the end of the year	168	79
Central Sales during the year	1,161	1,367
Central Reserves at the end of the year	856	738

IMPORTS (1956-57)

In 1957 upto the end of August, 629,875 tons of rice and 1·7 million tons of wheat were imported.

The imports for the years were as follows:

(figures in million tons)

1950—2·1; 1951—4·7; 1952—3·9; 1953—2·0; 1954—0·808; 1955—0·7; 1956—1·42.

The cost of import of foodgrains was as follows:

(figures in crores of rupees)

1950—80·6; 1951—216·8; 1952—209·1; 1953—85·96; 1954—47·02; 1955—33·11; 1956—56·34.

The imports of individual grains were as follows:

(in million tons)

	1954	1955	1956
Rice*	0·603	0·265	0·325
Wheat (including flour)	0·197	0·435	1·095
Others	0·008	—	—
TOTAL	0·808	0·700	1·420

The cost was as follows:

(Rs. in lakhs)

	1954**	1955	1956
Rice*	—	—	—
Wheat	—	—	—
Others	—	—	—
TOTAL	4,702	3,311	5,634

Countries from which imports were obtained from 1954 to 1956 with quantity (in million tons) and C & F value (in lakhs of rupees) were as follows: The figures are provisional:

Country	1954		1955		1956	
	Quantity	Value	Quantity	Value	Quantity	Value
U.S.A. ..	0·008		0·129		0·423	
Australia ..	0·197		0·306		0·617	
Argentina ..			—		—	
Canada ..			—		—	
U.S.S.R. ..			—		0·40	
Pakistan ..			—		0·020	
Burma ..	0·608		0·265		0·274	
Thailand ..			—		—	
China ..			—		0·046	
TOTAL ..	0·808	47,02	0·700	33,11	1·420	56,34

Countries from which imports of individual grains were made in 1956 were as follows:

(in thousand tons)

	Wheat	Rice	Millets
China	—	46	—
U.S.A.	423	—	—
Australia	617	—	—
Burma	—	274	—
Thailand	—	—	—
Pakistan	15	5	—
U.S.S.R.	40	—	—

PRICE LEVEL

The movement in the price of some items is shown by the following table of index numbers of wholesale prices:

(Base 1952-53 : 100)

	1955		1956		1957	
	January	December	January	December	January	December
All commodities	93·9	93·9	95·3	107·9	107·2	106·0
Food Articles	83·3	87·5	89·4	104·8	103·2	103·0
Cereals	73·0	77·0	80·0	97·0	95·0	100·0
Pulses	50·0	73·0	76·0	87·0	86·0	84·0
Rice	73·0	76·0	77·0	93·0	91·0	100·0
Wheat	77·0	80·0	85·0	94·0	94·0	93·0
Jowar	65·0	71·0	83·0	127·0	119·0	124·0
Bajra	74·0	99·0	98·0	133·0	132·0	134·0
Gram	71·0	57·0	60·0	97·0	97·0	99·0
Red gram (Dal)	44·0	54·0	57·0	77·0	78·0	74·0
Arhar	51·0	86·0	85·0	82·0	83·0	82·0

The continuing high prices of rice and wheat in spite of the rise in indigenous production and imports is attributed to a change in people's dietary habits and the emergence of the small hoarder.

It is believed that an increasing number of people are switching over *from* coarse grains to wheat not merely because of greater prosperity, but also due to the narrowing gap between their respective prices.

The poor peasant, who used to sell almost his entire output of wheat in the market for consumption in the urban areas two or three years ago, has begun to hold back a part of his produce in the hope of obtaining better prices later on.

He can afford to do so because he has more money in his hands and the State meets a considerable portion of his needs by way of aid under the community development programme or cash loans from the rural co-operatives.

It has to be said, however, that the total production of cereals has declined steadily from 58·26 million tons in 1953-54 to 55·73 million tons in 1954-55, 54·4 million tons in 1955-56 and then up to 57·2 in 1956-57.

This is accounted for by the decline in the production of coarse grains due to seasonal factors. But the fall in the output of coarse grains has indirectly encouraged the change in the pattern of consumption.

GROW MORE FOOD

The figures below show the performance in the principal food crops as compared with the targets for 1955-56 (figures are in million tons):

	Target, 1955-56	Achievement	
		1955-56	1956-57
Rice	27·2	26·8	28·1
Wheat ..	8·3	8·6	9·1
Other Cereals	17·0	19·0	20·0
Pulses	9·1	10·8	11·4
TOTAL ..	61·6	65·2	68·6

For the execution of the various Grow More Food schemes during 1956-57 Rs. 25·62 crores were allotted. Out of this loans amounted to Rs. 22·15 crores and subsidies to Rs. 3·47 crores.

* Excludes the quantity and value of 22,300 tons of Burma rice supplied by the Government of Ceylon on a replacement basis.
** Individual figures are not available.

It was expected that production would increase by 16 lakh tons as a result of the G.M.F. programme.

Reclamation of land by the Central Tractor organization : 85,189 acres in U.P. and M.P. and 2,000 acres of jungle cleared in Assam.

The cost of reclamation for 1954–55 came down to Rs. 46 per hour and Rs. 50 per acre from the corresponding figures of Rs. 51 and Rs. 59 in the preceding year.

Tubewell construction is undertaken under two different heads (*i.e.* Indo-American Technical Programme of 1952–53, and G.M.F. assistance). Under the former, out of the 2,650 tubewells originally proposed 2,649 were drilled by the end of 1956 in the States of Bihar, Punjab and Uttar Pradesh. Under the G.M.F. assistance, out of the 700 tubewells proposed 551 were drilled during the same period. Exploratory Project for tubewell drilling is also proposed for most of the States under the Technical Assistance programme. Out of the 350 bores, 30 have already been drilled in the Narbada Valley (near Itarsi) in Madhya Pradesh.

About 4,000,000 maunds of seeds were allocated to the States for the Kharif season and 95,000,000 for the rabi.

During 1955–56 about 2·12 million tons of compost manure was prepared from refuse as against 2·01 million tons in the previous year. 1·79 million tons were distributed during the period as against 1·68 million tons in 1954–55.

There were about 24 schemes in operation during 1955–56 for the utilization of sewage and sullage.

The total supply of ammonium sulphate available for distribution from the pool during 1956 was about 0·64 million tons (made up of 0·057 million tons of carry-over stocks from the previous year, 0·33 million tons obtained from Sindri Fertilizer Factory, 0·052 tons procured from other indigenous sources and 0·2 million tons imported from abroad).

The maximum sale price of ammonium sulphate in 1954 came to Rs. 345 per ton as against prices ranging between Rs. 350 and Rs. 450 per ton during 1953.

This is now made available to farmers throughout the country at the uniform rate of Rs. 345 per ton. Subsidies are given to State Governments for transport to ensure that the consumer gets this at the fixed price.

The consumption rose to about 0·675 million tons during 1956 tons as against 0·552 million tons during 1955, and 0·50, 0·427 and 0·276 million tons during 1954, 1953 and 1952 respectively.

The consumption of superphosphate was 0·051 million tons in 1953, 0·091 in 1954, 0·078 in 1955 and 0·10 in 1956.

The total quantity of fertilizers distributed in 1956–57 was 5,85,000 tons. Apart from this a total quantity of 88,306 tons of other fertilizers (comprising 17,500 tons of urea, 20,750 tons of ammonium sulphate nitrate and 56 tons of calcium ammonium nitrate) were imported under the Indo-U.S. Technical Co-operation programme during 1955. Almost the entire quantity of these was distributed free of cost to the cultivators for demonstration purposes and also to popularise this type of fertilizer.

Grow More Food campaign is now merged in the Community Development and National Extension Projects. These latter are not really new to the country in a sense. Parts of the agricultural departments have always been engaged in the demonstration and propaganda of improved farm practices. This, however, did not prove effective.

The eleven Model Village Projects of the I.C.A.R. which successfully worked on a pilot scale during the forties in various parts of India, (*viz.*, former Madhya Pradesh 4 ; Uttar Pradesh 4 ; Bombay 2 ; and Travancore-Cochin 1) showed what could be done to improve traditional methods. Brayne's work in the Punjab, the Firka Development in Madras, the Etawa Project in Uttar Pradesh and Sarvodaya work in Bombay and elsewhere, were more or less the successors of the I.C.A.R. Pilot Projects, but with varying emphasis on particular aspect of rural development.

REPORT OF THE FOODGRAINS ENQUIRY COMMITTEE

A Committee called the Food Grains Enquiry Committee was appointed on 24th June, 1957 with Mr. Asoka Mehta as Chairman and Thirumala Rao, M.P., Mr. S. F. B. Tyabji, M.P., Mr. V. N. Tivary, Raja Surendra Singh of Nalagarh and Dr. B. K. Madan as members and Dr. S. R. Sen as Member-Secretary.

The report was submitted to Government early in November 1957 and published on 19th November. It contains 11 chapters and a large number of charts and statistical tables.

The Committee confined itself to the basic problems relating to the production, distribution and prices of foodgrains in the country from an over-all point of view.

It reviews briefly the food situation during the last few years and the policy of the Government regarding distribution, production and prices of foodgrains. Further, an assessment of recent developments and a prognosis of the food situation, as it is likely to develop during the next few years, is made and is followed by the main conclusions and recommendations which are summarized below.

The Report also deals briefly with the problem of scarcity areas.

The Committee has reviewed the food situation and policy of the Government about distribution, production and prices of foodgrains since 1950–51.

It observes that just before the First Five Year Plan was launched, i.e., in 1950–51, the country was in the grip of a serious food shortage and food prices were ruling at high levels. Large releases from Government stocks, better crop prospects, and a tighter monetary policy helped to bring down the prices substantially during the following two years and there was a general feeling that stability had been largely restored.

This stability, however, was short-lived as there was an unprecedented increase in foodgrains production during 1953–54.

This year saw the beginning of a recession which gathered momentum in the following year. One reason for the rise of price movements was that the marketed surplus tended to increase more than proportionately as production rose.

To arrest the decline in prices, Government took a series of measures including limited price support operations and permission to export pulses and rice in limited quantities. There was a general feeling that the bottom level was perhaps reached and prices could not fall further.

A reversal of this trend ensued due to the reports in October 1955 of a fall in millets crop. This rise in prices was helped to a certain extent by the knowledge that the Government had no stock of millets and that its stock of wheat was low. The rise in prices, which at first looked like a normal correction of the earlier fall, gathered momentum throughout 1956. An apparent paradox of the situation, however, was that in spite of the substantial increase in foodgrains production during 1956–57, prices continued to rise, indicating the strength of the demand factors.

The rise in prices in the case of different commodities, however, differed widely, the rise being greater in the case of those which had suffered heavily in output.

The Committee observes that the instability of food-prices with its consequences in terms of instability in incomes of agricultural producers and costs of living, costs of production, employment and other elements of the economy forms one of the problems for consideration.

PRICE LEVEL

The Government's food policy is reviewed broadly in relation to programmes of food distribution and food production.

Between 1951–57, the policy regarding food distribution has undergone a change successively from complete control to complete decontrol and then back to partial control.

Tracing the history of the Grow More Food Campaign followed by the Integrated Production Programme, the Committee observes that the ideal of relative food self-sufficiency was itself not capable of easy achievement because in practice it turned out to be a 'moving target' in a country where the masses of the population were underfed and even a small increase in production and in income led to a substantial increase in consumption.

The recommendations of the Grow More Food Enquiry Committee, appointed by the Government of India in 1952 were incorporated into the programme of agricultural development drawn up under the First Five Year Plan, and a target of 7·6 million tons of additional foodgrains was fixed to be achieved by the end of 1955–56.

In the early years of the Plan, the policy of concentrating efforts on intensive cultivation in selected areas with assured water supply and suitable soil was continued, but subsequently as the food position appeared to have improved, there was a shift of emphasis to community development projects.

After the relaxation of controls in 1954 and the abandonment of procurement, however, the emphasis in community development projects shifted from increasing agricultural production and marketable surplus in selected areas to increasing the general level of production and well-being of the country as a whole.

The production of foodgrains at the end of the First Five Year Plan exceeded the target fixed for the Plan period.

Under the Second Five Year Plan, a target of 10 million tons of additional production of food-grains over the year 1955–56 was fixed by the Planning Commission as compared to 7·6 million tons in the First Plan.

This target, however, was revised upwards to 15·5 million tons mainly with a view to meeting the domestic demand, increasing export earnings and providing adequate safeguards against the possibility of inflation arising out of the implementation of the Second Plan.

The Committee states that on the whole the rise in prices may be ascribed to a general increase in demand resulting from the increase in investment expenditure on public and private accounts financed by deficit financing and credit expansion during the last few years.

These general inflationary forces tended to manifest themselves through various factors on the demand side of foodgrains. With a steady increase in the purchasing power of the public, there has been a change both in the volume and pattern of food consumption of many sections of the people. For instance, people who used to live on roots like tapioca and sweet potatoes are transferring their demand to millets, or coarse rice and those who used to take millets formerly are now shifting over to rice and wheat.

Another factor which affected the demand side was the change in the propensity to stock. It is pointed out by the Committee that as a result of the sharp fall in prices, stocks with the traders had fallen to very low levels by the middle of 1955 but with an expectation of a rise in prices in 1956, they increased considerably.

In 1955–56, most of the stock piling was done by the traders but in 1956–57, there was a significant change and a large part of the stock holding was done by big and medium producers also.

Reviewing the supply position of food-grains, the Committee states that the fall in the production of millets to the extent of 3 million tons in 1955–56 initiated the price uptrend in 1955, and increased the pressure of demand on both rice and wheat. In spite of an increase in the production of millets, the pressure on rice and wheat continued in 1956–57 also.

The Committee further points out that from the point of view of prices, variations in marketed surplus are more important than variations in production and states that though the gross availability per capita in 1957 may be almost the same as in 1954, it is likely that the net availability per adult for non-farm population will have declined due to increased retention by the agriculturists.

Thus the rise in prices, since the middle of 1955, according to the Committee, is essentially an outcome of monetary and other general factors interacting on certain special factors pertaining to demand and supply of foodgrains. With a situation generally favourable to a rise in prices of foodgrains, it was first the fall in production and later the slowing down in market arrivals which pushed the prices of foodgrains sharply upwards from the low levels reached in 1954–55.

PROSPECTS

After taking into account, the possible increase in the population in rural as well as urban areas separately, the Committee feels that the demand for foodgrains on this account may increase by 10 per cent during the Second Plan period. Additional demand for foodgrains due to increase of income has been estimated between 4 and 4·5 per cent. The Committee, therefore, expects a total increase between 14·4 and 15 per cent in the total consumer demand for foodgrains including that for cattle feed and seed during Second Plan period.

In the absence of the necessary estimates of total demand in the base period, the Committee has used the average gross availability of foodgrains during the last 3 years at 69 million tons as the basis for working out the future demand for foodgrains in quantitative terms and has roughly estimated the total demand for 1960–61 at 79 million tons.

The breakdown of these 79 million tons between rural and urban areas worked out roughly to 66 million tons and 13 million tons respectively and between superior grains namely rice, wheat and pulses, and inferior grains namely millets at 56 million tons and 23 million tons, respectively.

After ascertaining the views of the Government as well as other interested organizations, the Committee has concluded that the actual achievement in foodgrains production by 1961 is likely to be of the order of 77·5 million tons which is comparable to the figure of 79 million tons for likely demand in 1960–61.

Considering the availability of foodgrains from abroad, the Committee feels that the total imports of wheat on present estimate would amount to 2 lakh tons under International Wheat Agreement, 4·5 lakh tons under P.L. 480 and 3·5 lakh tons from commercial sources, a total of ten lakh tons.

Regarding rice, apart from the small quantities which could be obtained from U.S.A., Egypt, Thailand, China and Viet Nam, it is expected that imports from Burma would be 5 lakh tons in 1958 and 3·5 lakh tons in each of the subsequent two years.

CONTROLS

As the instability of food prices was expected to continue during the next few years, the Committee feels that special measures are necessary for keeping price disparities within reasonable bounds.

As complete free trade was undesirable and full control had its administrative and financial difficulties, the Committee has recommended a *via media* between these two as the solution of the food problem.

Full control, according to the Committee, should be resorted to only in cases of emergency like war or famine or extreme inflationary pressures. Controls should be of countervailing or regulatory rather than of restrictive type.

For the present, it should ordinarily be sufficient to undertake open market purchase and sale of foodgrains by the Government as a regular measure, socialise part of the wholesale trade, exercise control over traders operating in the rest of the market through a system of licensing, maintain a sizeable reserve stock of wheat and rice, arrange for the regular import of a certain quantity of wheat and rice and organize propaganda for consumption and production of subsidiary food.

Special measures, however, have to be undertaken in a period of rising or falling prices.

The Committee recognises the importance of appropriate, fiscal, monetary and credit policies in controlling prices, but emphasises that these have to be supplemented by certain specific action directed to controlling foodgrains and also in respect of related commodities if comparative stabilisation of their prices is desired. It feels that to ensure a level of prices which would provide the necessary incentive to the producer with due regard to the interest of the consumer and maintenance of reasonable cost structure in the country, it is essential to set up such an organization and machinery for co-ordinated formulation of measures to be taken from time to time and their implementation.

FOODGRAINS ORGANISATION

The Committee has, therefore, recommended firstly, the setting up of an authority known as the Price Stabilization Board for the formulation of policy for price stabilisation in general and for determining from time to time the programme of enforcing it, and secondly, the establishment of a suitable organisation known as Foodgrains Stabilisation Organisation to execute that part of the policy and programme framed by the Price Stabilization Board as may relate specifically to purchase and sale operations in the field of foodgrains.

The Committee states that it is desirable to set up a body of non-officials called the Central Food Advisory Council to assist the Food Ministry and Price Stabilization Board.

Similarly an organization called Price Intelligence Division for collecting all relevant data should be built up with a senior officer as head who will also act as Secretary to the Price Stabilization Board.

The Price Stabilization Board with the help of the Central Food Advisory Council and Intelligence Division will keep a careful watch over the price situation and recommend necessary action from time to time for maintaining not only the general price level reasonably stable but also for preventing undue disparity between the prices of various commodities.

The Foodgrains Stabilization Organization which may either be a department of the Ministry of Food and Agriculture or a statutory corporation or a limited company, will operate as trader in the foodgrains market with branches or agencies of its own in all important mandies particularly in surplus areas and centres of distributive trade.

The most important work of this Organization will be buffer stock operations *i.e.*, purchasing when the prices tend to fall and selling when prices rise. It will, from time to time, have to fix limits of prices at which it would buy or sell within the range of prices for its operation fixed by Government on the advice of the proposed Price Stabilization Board.

The Committee emphasises the need for socialization of trade to bring about stability of agricultural prices.

It is not necessary that the Foodgrains Stabilization Organization should undertake all these operations itself. It may operate through the agency of licensed wholesale dealers, rice and flour mills or co-operative societies and may make use of the Departments of Civil Supplies and Marketing of the State Governments.

This Organization should generally try to complete its purchasing operation within three months of harvest and should have warehouses in important producing and consuming centres including deficit areas.

The Foodgrains Stabilization Organization is expected to control a large part of the market surplus during normal years, but so long as inflationary trends continue and food shortages persist, open market operations may push up the prices making it necessary to stop its operations.

It will, therefore, be necessary to undertake some form of compulsory procurement for replenishing reserve stocks and maintaining supplies to vulnerable sections of the population at reasonable prices. In order to make the measure a success, licensing of foodgrains dealers will be necessary and an order on the lines of the Foodgrains (Procurement and Licensing) Order 1952 should be issued and strictly enforced.

The building up and maintenance of an adequate reserve stock as distinguished from any buffer stock is one of the most important tasks of the Foodgrains Stabilization Organization. The Committee is aware of the Government's decision to build up a reserve stock of two million tons but it emphasises the need for replenishing these stocks as soon as they tend to fall below that figure.

In this context, the Committee feels that an annual import of 2 to 3 million tons will be required for some time to come. The Committee is of the opinion that the assured supply of foodgrains from U.S.A. and Burma would enable the formulation of a stable and long term food policy.

DISTRIBUTION

Referring to the short term measures relating to control of distribution and trading in foodgrains, the Committee states that food distribution should be primarily through fair price shops or through institutions like co-operative societies or employers' organizations, etc.

In view of relatively easy supply position, wheat may be issued freely upto a full quota of 12 oz. per adult, per day.

The issue of rice, however, which is in short supply may ordinarily be not more than 8 oz. per adult per day in South India, 6 oz. in East India and 4 oz. in other areas. Moreover, this amount should be issued only if the purchaser agrees to take the balance of 12 oz. in the shape of wheat.

The sales from these shops should normally be on 'no profit, no loss' basis.

A provision should be made for subsidised sales to specific categories of persons. Big cities may be cordoned off in case of abnormal fall in production and non-availability of larger imports to insulate the rest of the economy from pressure that these cities with high purchasing power might exert on general supply.

The object of creating zones is to match deficit areas to surplus areas and thus to minimize the demand on Government supplies and also eliminate cross movements of foodgrains. The Committee feels that once a zone is formed it should be mainly on a relatively long term basis so that the trade patterns are not frequently disturbed.

Regarding local relief, the Committee recommends that a section should be set up within the State Government and also at the Centre for the purpose of anticipating difficulties arising out of possible floods and drought, locating scarcity pockets and initiating prompt means to deal with them. The Committee suggests that Village Panchayats and co-operatives should be encouraged through advances wherever necessary to set up grain golas.

The Committee has also recommended that Food Administration at the Centre and in the States should be put on a permanent footing.

The Committee has examined in detail the different schemes for stepping up the foodgrains produce such as major and minor irrigation works, distribution of improved seeds and chemical fertilisers, land reclamation, etc., and has made a number of recommendations, *e.g.*, reallocation of unspent funds allocated for major irrigation works to minor irrigation works, uniformity of rates in homogenous tracts, increase in the seed multiplication farms, high priority for import of fertilizers, etc.

The Committee has observed that uncertainty about land reforms is affecting production efforts and has recommended that the State Governments should proceed expeditiously with enacting the necessary legislation for land reforms and follow it up with effective implementations.

It is expected that the food requirements of the urban areas may increase considerably in the course of next few years and necessary measures should be taken to augment the total marketed supply and to encourage its flow to the assembling markets.

Referring to the problem of scarcity areas which spread over a long belt extending from the northern districts of Bombay to the eastern tip of Assam and touching parts of Rajasthan, Madhya Pradesh, Orissa, Eastern U.P., Bihar and West Bengal, the Committee points out that the purchasing power of the people in almost all these areas is generally low owing to inadequate employment opportunities and unbalanced economy. These areas, therefore, have posed difficult and recurring problems.

The Committee has made a brief study of the local problems of one of these pockets, *viz.* the eastern districts of Uttar Pradesh and hopes that detailed and intensive studies would be undertaken in such areas before long.

The solution of the problem of low purchasing power, according to the Committee, lies in correcting the unbalanced character of the economy by increasing and diversifying employment opportunities through promotion of village and small-scale industries besides provision of better irrigation facilities for agriculture and for protecting the economy against flood hazards.

The Committee concludes its report by emphasising the need not only for determined and all out efforts to step up food production but also checking the high rate of the grpwth of population. The Committee feels that gravity of the food situation demands national efforts transcending regional and party considerations.

FISHERIES

THE fishing industry in India offers employment to about 4·21 lakh persons and contributes annually over Rs. 10 crores towards the national income.

The estimated annual production of fish is about 12 lakh tons, of which 70 per cent comes from sea and estuarine fishing.

About 27,000 tons of fish products, consisting mostly of dry, dry-salted and wet-salted fish, are annually exported to neighbouring countries.

The annual per capita availability of fish in India is estimated to be 3·4 lbs. as against 16 lbs. in Ceylon, 70 lbs. in Burma and 90 lbs. in Japan.

It is estimated that 40·5 lakh tons of fish would be needed to meet this country's minimum requirements.

Surveys conducted recently in the Bay of Bengal and Arabian Sea reveal that if only our rich resources are properly exploited this would more than meet the demand. The greatest handicap in the exploitation of the country's fish resources hitherto has been the traditional methods of fishing. The great part of the 70,000 boats and other craft used for fishing cannot operate beyond a few miles.

Experiments in mechanisation of fishing are being conducted since 1948 with the help of assistance received from Norway, U.S.A. and F.A.O.

Four Japanese, one British and three F.A.O. experts are working in this country, and the Norwegian Government is operating a development scheme in Kerala as part of the Norwegian Aid Programme.

During the past few years, more than six hundred boats in Bombay have been fitted with motors. This has led to a four-fold increase in the production of fish in Bombay.

There is a proposal under consideration to set up three exploratory fishing stations at Cochin, Visakhapatnam and Port Blair

Adequate landing and servicing facilities, refrigeration plants, quick transport arrangements and efficient marketing are also necessary for the success of commercial fishing in India.

Considering the importance of the industry a provision of Rs. 12 crores has been made in the Second Plan for developing it.

BOMBAY STATE

Bombay State has a sea board of more than 1,200 miles extending from Reddy (District Ratnagiri) in the south to Lakhapat (Kutch) in the north inclusive of Saurashtra coast. The Inland Fisheries extend to Bhandara District in the East, a crowflight distance of over 500 miles. The total number of fishing villages along the coast is estimated at over 450. The Bombay State Fisheries enjoy a pre-eminent position on the West Coast of India both from the point of view of total production and progress of developmental activities

The Fisheries Department of Bombay State has its Head Office in Bombay having regional offices at the following places for administrative convenience, under control of the officers indicated against each region :

Region.	*Controlling Officer.*
1. Saurashtra ..	Officer on Special Duty (Marine Products), at Rajkot.
2. Kutch ..	Superintendent of Fisheries, Bhuj.
3. Vidarbha .	Superintendent of Fisheries at Nagpur and Bhandara.
4. Marathwada	Superintendent of Fisheries, Aurangabad.
5. Ratnagiri ..	Superintendent of Fisheries (Coast), Ratnagiri.
6. Kolhapur ..	Superintendent of Fisheries, Kolhapur.
7. Baroda ..	Superintendent of Fisheries, Baroda.
8. Surat & Broach ..	Superintendent of Fisheries, Surat.

Bombay State has a total outlay of Rs. 1,10,85,000 for development of fisheries under the Second Five-Year Plan. The schemes have been so drawn up that these will ultimately lead to elevating the present standard of the fishing industry by augmenting available supplies of fish and also by promoting the socio-economic condition of fishermen. The schemes can broadly be classified as Research, Demonstration, Development and Training schemes. The schemes are progressing according to schedule.

Important varieties of sea fish caught along the coastline : Saranga (White Pomfret) ; Halva (Black Pomfret) ; Ghol (Jew fish) ; Dara (Giant Threadfin) ; Ravas (Indian Salmon) ; Kuppa (Tuna) ; Surmai (Seer fish) ; Boi (Mullet) ; Bombil (Bombay duck) ; Bangda (Mackerel) ; Mushi (Sharks) ; Wam (Eels).

Estimated production : about 1,70,000 tons.

Price per ton of fish at present : Rs. 300. The total value of fish caught in this State : Rs. 5,10,00,000.

The number and names of the more important fishing villages and of the fishing grounds :

Greater Bombay : Lower Colaba, Worli, Danda, Versova ; *Thana District :* Bassein, Arnala, Uttan, Edwan, Usarni, Satpati, Navapur, Utcheli, Nagaon, Dativare ; *Surat District :* Umarsadi, Kolak, Bulsar, Kosamba ; *Broach District :* Broach, Bhadbhut, Kavi ; *Amreli District :* Madhwar, Kotda, Velan, Okha ; *Kolaba District :* Karanja, Versoli, Alibag, Theronda, Revdanda, Murud, Bharadkhol ; *Ratnagiri District :* Burondi, Dabhol, Jaigad, Ratnagiri, Vijaydurg, Jaitapur, Malvan, Deobag, Vengurla ; *Saurashtra :* Veraval, Mangrol, Porbunder, Navabunder, Jafrabad, and Dhamlej ; Jamnagar, Salaya and Sikka ; Navlakhi-Malia ; *Kutch :* Saurbari, Cheval, Kharirohar, Tuna, Rampar, Saughad, Bhadreshwar, Luni, Sekherdia, Barol, Mundra.

The estimated fishing population : 271,000.

The facilities available for curing, storage and refrigeration, co-operative marketing are :

Several ice factories in the city and also at important fishing centres along the coast.

Annually, some addition to the available cold storage space is being made by extension to the existing plants and establishment of new plants.

A seven-ton ice plant and 30-ton cold storage were erected by the State Government at a cost of about Rs. 1,32,000 and handed over to the Satpati Fishermen's Sarvodaya Co-operative Society for operation. The Society has also been allotted by the Government, refrigeration equipment to increase the seven ton ice making capacity of its existing plant to ten ton and a four ton quick freezing plant and refrigeration equipment for a fish storage, ice storage and quick frozen fish storage received under the T. C. M. Programme of the American Government. It has now attached to it 98 out of the 732 mechanised craft in the State, all of which carry ice aboard their vessels to preserve fish right from the time it is caught.

Construction of ice factories at Veraval, Mangrol, Porbunder and Bedi are nearing completion. Plans and estimates for construction of ice and cold storage plant at Kandla are under preparation.

Marketing facilities. A new building was put up in 1951 by the Bombay Municipality to cater for the City's fish trade. Lifts are being installed for the convenience of shoppers as the retail sale of fish is on the first floor.

The new market adjoining the original congested market was erected at a cost of about Rs. 8 lakhs. In the fish section space is provided for 250 squatters. Sufficient space is now available to traders to display their products. Two new additional markets one at Grant Road and another at Umarkhadi were also constructed during recent years.

Marketing facilities have also been provided at Kankavli and Malvan in the Ratnagiri District.

Municipality at Jamnagar was persuaded to build a small fish market at Khoja Naka.

About four times the quantity of fish at present caught in the entire State will be necessary to meet the nutritional requirement of the people.

The quantity available for sale in Greater Bombay to the public was approximately as follows :—

Year	*Tons*
1950-51	31,674
1951-52	35,849
1952-53	36,388
1953-54	37,812
1954-55	32,034
1955-56	30,072
1956-57	26,000

Taiyo Fishing Co. Ltd., was permitted by the Government of India to conduct trawling off Bombay and Saurashtra waters. The firm employed trawl nets for deep-sea fishing. The total quantity of fish landed by the trawler was about 1,800 tons. The Government of India have since terminated the contract with the firm.

West Coast Fisheries (Travancore) Ltd. commenced deep sea fishing operations in Bombay waters in February 1953. It employed trawl nets for deep sea fishing and landed about 94 tons of fish during four voyages. The trawler is now conducting fishing operations off Travancore waters. New India Fisheries Ltd., a firm registered under the Company's Act, has recently been permitted by the Government of India to undertake trawl fishing. The firm in collaboration with Japanese enterprisers imported four trawlers from Japan and commenced fishing operations in Bombay waters. The firm commenced bull trawling in May 1956 and landed 2,300 tons of fish upto December 1956.

GOVERNMENT HELP

Government effort in up-to-date fishing technique, money spent, trawlers gear used, quantity of fish caught : The State Government built the vessel "Tapase", now renamed the "Mysis" in 1947, at Rs. 65,000 for demonstrating the usefulness of mechanised craft for catching fish.

Two improved types of fishing crafts at a total cost of Rs. 54,000 were also built and allotted to two fishermen's co-operative societies in the State on half subsidy and half loan basis for capture of fish.

During 1955-56 subsidy of Rs. 2,02,240 and loans to the extent of Rs. 3,99,895 were granted for the purpose. Government help to fishermen in Bombay area for mechanisation of fishing craft during 1956-57 : Loan Rs. 8,01,128 and subsidy Rs. 4,48,338. Loans granted to individual fishermen during the past ten years for purchase of boats, nets, and other fishing gear : Rs. 30,00,000 Fishermen now possess more boats and nets with which they are able to catch more fish.

Government have received 341 marine engines of different H.P. valued at $6,74,599·00 under the T.C.M. Programme of the American Government, which have been allotted to groups of fishermen on loan-cum-subsidy basis. Twine and net making plant has arrived under T.C.M. Programme. The same will be allotted to Bambai Rajya Machhimar Sahakari Sanstha.

Number of power-propelled vessels owned by fishermen : 800.

Government efforts in educating fishermen :—

Seven fisheries schools have been established in important fishing centres, imparting special training in net making, boat repairing, fish preserving, etc. Ratnagiri District 4, Thana District 1 and Surat District 2.

Adult education centres and backward class cultural centres are also conducted at important fishing centres in Saurashtra.

Annual expenditure on these schools : Rs. one lakh.

The Department of Fisheries has also a scheme to train fisher-youths in the operation of power vessels as mechanics and navigators. So far 151 apprentices have been trained, 90 under the old scheme and 61 under the modified scheme. Under a modified scheme introduced by the Government, facilities are made available to train 20 candidates in the technique of improved methods of fishing. The centre is situated at Satpati, Thana District and is financed by the Government of India. The duration of each course is six months, the scheme having been sanctioned for three years. Each candidate is paid a monthly stipend of Rs. 50 and food allowance of Rs. 10. A similar centre has also been established at Veraval (Saurashtra).

Besides, the State Government have started a new three months training course to train fisher-youths in handling and operation of marine engines. The trainees are paid a stipend of Rs. 40 per month each. So far 52 candidates have been trained and 19 are undergoing training at present.

Two graduates of the fishing community were also sent to U.S.A. by the State Government for two years to receive training in canning, refrigeration and other specialised branches of fisheries. The scheme has now been discontinued by the Government.

Several candidates from fishermen's community have also received training aboard the Japanese trawler "Taiyo Maru" at Government expense.

Public aquaria : The State Government maintains the Taraporevala Aquarium along the Marine Drive, Bombay. The exhibits include both fresh water and marine forms, found along the coast of the State. Attached to the Aquarium is the Marine Biological Research Station where facilities are available to research students for M.Sc. and Ph.D. degrees. The institute is affiliated to the University of Bombay. It is now proposed, during the Second Five-Year Plan period, to construct one additional storey over the Aquarium building at an estimated cost of Rs.90,000. The Marine Biological Research facilities will also be intensified by appointment of technical staff to guide research. The station will also be provided with a research vessel by conversion of the department's vessel 'Mysis.'

FRESH WATER FISHERIES

The State being primarily a maritime province stretching along the western coast, fresh water fisheries have shown comparatively less expansion. Nonetheless, efforts are made to import quick growing varieties of baby fish in the State such as Catla (*Catla catla*), Rohu (*Labeo rohita*) and Mrigal (*Cirrhina mrigala*) from West Bengal, for their release in perennial waters in the State in larger numbers every year. Large irrigation reservoirs also are being stocked with these varieties so that they may thrive and breed there in course of time. In 1957-58 about 29,26,000 carp fry imported from West Bengal were released in different sheets of water.

Collection of local baby fish for stocking is attempted at several places around Kolhapur, Baroda, Bhandara, etc., and efforts are made in all directions to boost up these less developed fisheries.

Despite the handicaps, income from fresh water fisheries in the State exceeds Rs. 2,00,000 per annum.

ANCILLARY PRODUCTS

A fisheries technological laboratory has been established at Sassoon Dock, for conducting research on problems relating to ancillary industries like shark liver oil, gelatine, glue, fish meal, etc. To ensure quick and clean extraction of oil a Sharple's super centrifuge, a fish liver boiler and a steam boiler have been installed. The laboratory also tests samples of shark liver oil from the public for vitamin 'A' content and also samples of dry fish and fish manure for their chemical composition. A Beckman's spectrophotometer has been imported from the U.S.A. for this purpose.

In 1956-57, the output of neat shark liver oil was 5,250 gallons with an average vitamin 'A' content of 15,000 I.Us/Gm. The oil when processed, was capable of yielding 396,720 lbs. of Oleum-vitaminatum of B.P. standard. Besides this, there is the oil disposed of by the fishermen direct which will be about 2,500 gallons.

The processed products marketed by the department comprise (*i*) "Sharkovit" with vitamin 'A' and 'D', 1,000 and 100 I.Us. per gramme respectively, (*ii*) "Elasmin Liquid", a shark liver oil concentrate with vitamins 'A' and 'D' 20,000 and 2,000 I.Us/Gm. respectively, (*iii*) "Elasmin Pearls," Elasmin Liquid is offered in 3 minims capacity gelatin capsules to facilitate its use by those who do not like to take the oil in its plain form. Each capsule contains 6,000 I.Us of vitamin 'A' and 600 I.Us. of vitamin 'D' and (*iv*) Sharkomalt, Shark Liver oil with malt extract. This product contains 12,000 and 2,400 I.Us. of vitamins A and D respectively, per fluid ounce.

Another important by-product of fisheries is fish meal. The departmental laboratory is also well-equipped for the manufacture of edible gelatin and fish glue both for adhesive as well as photo-processing work.

The following schemes were included in the State Government's first Five-Year Plan : Study of marine biology and establishment of an aquarium in Bombay ; Establishment of a marine biological station at Ratnagiri ; Establishment of ice and cold storage plants along the coast ; Development of inland fisheries at Khopoli ; Stocking of inland waters with carp fry ; Provision for merged States for inland pisciculture ; Higher technical training for fisher-youths abroad ; Establishment of fisheries schools along the coast ; Provision for merged States for training schemes.

Receipts of the department during the financial year 1956-57, are shown below :—

	Rs.
Fish curing yards	1,49,224
Fisheries Tech. Laboratory ..	4,61,822
Other receipts	2,46,585
Taraporevala Aquarium	66,651
Receipts from T. C. M.	154
Receipts in Saurashtra Region ..	2,02,094
Total ..	11,26,530

The State Government's share under the U.S. operational Agreement No. 5 amounts to Rs. 30 lakhs, to be utilised to procure up-to-date equipment to increase existing supplies of fish and to improve the socio-economic condition of fishermen. The equipment ordered out is as follows : 322 marine diesel engines, one 11-ton ice plant and 30-ton cold storage for fish, one quick-freezing plant and equipment to enlarge the present ice production capacity of the plant at Satpati. Ice plant and cold storage machinery indented under the T.C.M. Programme have been received and distributed to the fisheries co-operative societies at Satpati and Versova. One twine and net making plant has also been indented under the T.C.M. Programme, which will be allotted to one of the fisheries co-operative societies in this State. The Plant was expected to be received in 1956-57. All the engines received under the T.C.M. Programme have been allotted to fishermen of the State. The State also received for distribution among fishermen, nylon, fish hooks and hemp twine. Additional quantity of nylon is being indented under the T.C.M. programme 1956.

FISH CURING YARDS

During 1956-57 the department maintained 36 fish curing yards of which 15 were in North Kanara District* and 21 in Ratnagiri District. As a result of the reorganisation of States in November 1956, the 15 fish curing yards in North Kanara District were transferred to the Mysore State. The department now holds charge of only 21 yards in Ratnagiri District. Improvement comprising erection of cement concrete platforms, cement superstructure thereon, copious supply of fresh water, etc. which lead to improvement in cured product, have been provided at many of the important yards in the two districts at an approximate cost of Rs. 8 lakhs. A few of the yards still need such improvement. Accordingly it is proposed to provide the aforesaid facilities in the 2nd Five-Year Plan at an approximate cost of Rs. 80,000.

The transactions at the yards in Ratnagiri District during 1956-57 were as follows :

Quantity of fish let in for curing—2,60,667 mds.

Quantity of salt issued—71,580 mds.

Quantity of cured fish removed—1,99,651 mds.

The total budget allotment for the department for the year 1956-57 was Rs. 2,56,340.

The designation of the department is : Office of the Director of Fisheries, Bombay.

KERALA STATE

Kerala State, the smallest maritime State in India with just over 300 miles of sea coast, contributes to nearly 25·28 per cent of the total sea fish landed in India. Oil Sardine (Sardinella longiceps) and the mackerel (Rastrelliger canagurta), the two most important shoaling fishes of the west coast contribute to the major fishery of the coast, the third important constituent being prawns. The main types of indigenous fishing crafts are the dug out canoes, catamarans (in the southern region) and plank built boats.

Besides being engaged in the general administration and conservation of the general fisheries, the Department is also engaged in various developmental activities such as fisheries research, establishment of cold storages, organisation of fishermen co-operative societies and financing them with loans and grants to relieve them of their debts, supply of fishery requisites, mechanisation of small fishing crafts, training of fishermen in the use of mechanised craft and tackles, construction of break-water and providing safe landing facilities, establishment of sanitary curing sheds, intensive seed collection and distribution and popularising fish culture and running departmental fish farms, etc.

The major varieties of fishes in the coast are :

Sardinella longiceps, S. fimbriata, S. gibbosa, S. albella, Thrissocles sp., Anchoviella commersoni, Dussumieria hasselti, Kowla kowal, Chanos chanos (milk fish), Galeocerdo tigrinus, Carcharias melanopterus, C. limbatus, Scoleodon sp. Sphyraena, Chilosillium sp. Zygaena malleus Pristies, sp. Trygon sp. Trichiurus savala, Pseudorhombus arsius, Cynoglossus cynoglossus, Arius jella, Epinephelus merra, E. Chlorostigma, Serranus malabaricus, Therapon jarbua, Siliago shihama, Megalaspis cordyla, Decapterus russelli, D. macrosoma, Caranx kalla, C. ignobilis, Coryphaena hippurus, Lutjanus spp. Chorinemus spp. Leiognathus spp. Sciaena spp. Upeneus vittatus, Stromateus spp. Mugil spp. Polynemus sp. Auxis thazard Euthunnus affinis, Indocybium guttatum Cybium commersoni, Lactarius lactarius, Histiophorus sp.

The estimated landing of all fish in the State is about 210,000 tons of which 10,000 tons are contributed by freshwater fishes the rest being sea fishes. At about Rs. 250 per ton, the sea fish is valued at Rs. 5,00,00,000 whereas the freshwater fish at Rs. 400 per ton is valued at Rs. 40,00,000. Though the population of the

* Now in Mysore.

State is 1,36,00,000 only about 70 per cent of the people are estimated to be fish eaters. At the most only 50 per cent of the total production is utilised for domestic consumption, whereas the balance is exported out of the State and out of India, either in the fresh condition or as cured fish. This includes nearly 3,000 tons of Prawn Pulp exported to Burma and Singapore and nearly 450 tons of frozen shrimp lobster to U.S.A. Except for a small quantity of foreign tinned product imported to the State, there is absolutely no import of fish into the State.

There are nearly 85,000 active fishermen in the State. Along the coast there are 66 fish curing yards, some of which are provided with fly-proof, sanitary fish curing sheds, and salt is issued at a subsidised rate which is less than the cost price in the salt factories. There are two Fishermen Training Centres one at Ernakulam and the other at Beypore, to train able bodied fishermen in the use of mechanised fishing craft and modern fishing. Soft wood for making boats, Nylon and Fishing hooks, etc. are distributed at concessional rates through the 199 Fishermen Co-operative Societies. Trained fishermen are given capital and equipment to start co-operative fishing with mechanised units.

The Indo-Norwegian Fisheries Project near Quilon is engaged in the mechanisation of small fishing crafts and in the exploitation of the fisheries' resources of the sea off Kerala. They have also established a Health Centre and a Pipe Factory under the scheme of improving the health and sanitation of the area. There are five private companies exporting frozen shrimps, lobster tails and frog legs, and cold storage plants are working at Trivandrum, Neendakara, Cochin and Kozhikode.

There are 4 Fisheries Research Stations in the State engaged in Marine, Estuarine and Fresh Water fisheries and a Fisheries Technological Station conducting researches in fisheries by-product.

MADRAS

Madras State, with a coast line of 600 miles and with about 4 lakhs acres of inland waters, is rich in fisheries resources. The Fisheries Department, established in 1907 has a comprehensive programme based on a policy of survey of fishing areas, initiation and co-ordination of research, conservation, development and exploitation of fisheries, provision of efficient and modern craft and tackle, organisation of the fish trade on proper lines and improvement in the socio-economic condition of fishermen. Considerable progress in all directions has been achieved by the Department during its existence of over five decades.

The Fisheries Department is under the administrative control of the Additional Director of Industries and Commerce, who is assisted in all technical matters by two Deputy Directors in charge of marine and inland fisheries activities respectively. The fisheries in the districts are managed by six Regional Assistant Directors with headquarters at Vellore, Mettur Dam, Tanjavoor, Madurai, Tuticorin and Nagercoil. These Asst. Directors have Inspectors and Assistant Inspectors in the taluks. There are four marine biological stations at Ennore, Krusadai Island, Tuticorin and Cape Comorin; a Technological Station at Tuticorin; and a Freshwater Biological Station at Bhavanisagar, in-charge of qualified research officers. At Madras there is a Fisheries Marketing and Information Officer for promoting fish-trade and for dissemination of information. The Aquarium and Museum maintained by this unit are popular with the public. There is a Craft and Tackle Officer for popularisation of mechanised fishing.

There are 244 coastal fishing villages with a total fishing population of 2,40,000. These fisherfolk possess about 5,000 boats, 23,000 catamarans, and 3 lakhs of fishing nets. The estimated landings of sea fish in 1956-57 is about 60,000 tons as detailed below, their total value being Rs. 504 lakhs.

Ribbon fish 16,800 tons; Cat-fishes 13,200 tons; Sharks 4,200 tons; Sabre-fish 7,200 tons; Big Jawed jumper 4,800 tons; Sardines 4,800 tons; Flying fish 1,200 tons; White baits 3,000 tons; Perches 3,000 tons; Miscellaneous forms 1,800 tons.

There are about 60,000 inland fisher-folk possessing about 20,000 implements. The estimated landings of inland fish from the various inland waters in 1956-57 is about 38,000 as detailed below, their total value being Rs. 226 lakhs.

Carps 13,510 tons; Cat-fishes 7,720 tons; Murrels 4,632 tons; Eels 772 tons; Gobius 386 tons; Mullets 1,930 tons; Chanos 386 tons; Lates & Polynemus 1,158 tons; Hilsa 386 tons; Prawns 3,088 tons; Other Miscellaneous 4,632 tons.

The average wholesale and retail price of the important varieties of fish are as follows: The first figure indicates the wholesale price for 100 lbs. and the second the retail price per lb.

Freshwater Carps (Rs. 36; 34 Naye Paise); Freshwater Catfish (Rs. 38; 41 nP.); Freshwater Prawns (Rs. 46; 62 nP.); Sea Catfish (Rs. 35; 44 nP.); Sea Prawns (Rs. 46; 75 nP.); Sea Mackerel (Rs. 35; 34 nP.); Sea Pomfret (Rs. 58; 87 nP.); Sea Seer (Rs. 63; 94 nP.); Sea Perches (Rs. 41; 47 nP.); Indian Salmon (Rs. 40; 45 nP.).

17 fish curing yards are maintained by the Government wherein good quality salt is supplied to fisher folk at subsidised rates for curing fish under the technical supervision of fisheries departmental staff. Two Ice Plants of 5 tons daily output and storage facilities for 15 tons are under construction at Tuticorin and Mettur dam.

There are 168 fishermen co-operative societies with about 18,000 members on their rolls with a paid up share capital of Rs. 1,55,000. These societies play an important role in the improvement of the economic conditions of the fisherfolk. They issue small loans to the members during the off season; and also inculcate the spirit of thrift and co-operation among the fisherfolk. Long term loans are issued to these societies by Government for enabling their members to redeem themselves of their prior debts and to undertake fish marketing themselves. Four District federations of fishermen co-operatives have also been formed for organising fish marketing on a larger scale.

Through exploratory fishing operations, the fisheries department has located rich deep sea fishing grounds off Pulicat, Ennore, Madras, Cuddalore, Nagapattinam, Pamban, Tuticorin, and Cape Comorin, and arrangements are being made for their commercial exploitation. 31 small mechanised boats have already been distributed to fishermen co-operatives together with nylon fishing nets.

The pearl and chank fisheries of the Gulf of Manaar are State monopolies, and yield a substantial revenue besides supporting a large population of divers. The pearl fishery conducted off Tuticorin in March-May 1957 fetched 1·2 crores of pearl oysters, and a revenue of Rs. 1·7 lakhs was realised by the Department by sale of its two-thirds share of the oysters. During 1956-57, about 12 lakhs of chanks valued at about 14 lakhs rupees were fished.

Census of Inland Fisherfolk for 1954:

Men engaged in actual fishing	..	12,745
Men engaged in part-time fishing	..	2,099
Number of women and children	..	29,500
Total	.. ..	44,344

Schools have been opened for fisherchildren. Natural Science and Fisheries Science play a large part in their curriculum. The children are taught handicrafts like coir rope making, mat weaving, net making, etc. Books, pencils and stationery articles are given free to these children.

Officers of the department and teachers of Fisheries schools have done a great deal to improve the standard of life of the children.

There are a museum and an aquarium belonging to the department. In the Museum, preserved specimens of all important marine and freshwater fishes, various kinds of sharks, aquatic curios like sepia, loligo, sea horse, etc. are all exhibited. The Aquarium has eight large aquaria in which Tropical Aquarium Fishes like Gold Fish, Black Mollies, Sword Tails, Guppies, Blue Gourami and Food fishes like Catla, Labeo, Cirrhina, Gourami, etc. are kept. Most important experimental fish farms are Mettur Fish Farm, Poondi Fish Farm, Thanthipandal Fish Farm, Chetput Fish Farm, Vellore Fort Moat Farm and Chingleput Fort Moat Farm. The ponds in the farms and other ponds belonging to the department are intensively stocked with quick growing fishes every year and the catches are marketed to the public.

In addition to being an important source of food supply rich in proteins and albumenoides, food fishes play an important part in the manufacture of several bye-products in use in the everyday life. They are fish-oil (body oil and liver oil), shagren, isinglass, fish glue, fish meal (guano), fin soup, pearl essence, fish manure, etc.

Under the Second Five Year Plan, 15 schemes with a total outlay of Rs. 84·74 lakhs are being implemented, with the following main objectives in view. (*i*) To develop inland, estuarine and off-shore and deep sea fishing, to improve fishing techniques and technology and to promote fisheries research; (*ii*) to provide fishermen with modern craft and tackle at subsidized rates and under the hire-purchase system and to provide other equipment like nylon nets, hooks and other facilities like fishing harbours; (*iii*) to provide fishermen with long-term credit facilities through Fishermen Co-operative Societies in order to extricate them from the clutches of traders and middlemen, to whom they are indebted; (*iv*) to provide them and their womenfolk with profitable employment; (*v*) to improve communications to the fishing hamlets and to provide all facilities for proper preservation and better marketing of their catches; and (*vi*) to assist them to form themselves into co-operative bodies in order that they may get better credit and trading facilities and thus reap the full benefits of their labours.

The schemes are (*i*) Intensive seed collection and distribution for stocking inland waters; (*ii*) Rural Fishery Demonstration; (*iii*) Development and exploitation of major reservoir fisheries; (*iv*) Establishment of model estuarine fish farm; (*v*) Improvement of fishing crafts; (*vi*) Development of fishing harbours at suitable river mouths; (*vii*) Supply of Nylon nets and hooks to fishermen; (*viii*) Co-operative societies for marketing of fish; (*ix*) Training of personnel; (*x*) Fish meal and fish manure production; (*xi*) Quick transport of fish from landing centres to marketing and consuming centres; (*xii*) Salt Subsidy Scheme; (*xiii*) Fish preservation: Provision of ice plant and cold storage facilities; (*xiv*) Fish Marketing and (*xv*) Administrative staff at Headquarters.

Revenue from Fisheries in 1956-57: Rs. 25·85 lakhs; expenditure in 1956-57: Rs. 33·7 lakhs.

Latest Budget Allotment for the Department for 1956-57: Rs. 30,00,000.

The designation of the department is: Government Fisheries Department, Madras.

MYSORE

The facts given below refer to the post-reorganization Mysore State.

Inland Fisheries: There are about 30,000 minor tanks and 4,000 major tanks in the State. The important rivers are: Thunga, Bhadra, Thungabhadra, Cauvery, Hemavathi, Laxmanathirtha, Vedavathi, Varada, Palar, Pennar, Sharavathi, Bheema, Krishna, Manjeera, Don, Ghattaprabha, Mallaprabha, Chandragiri, Netravathi, Swarna and Seetha Nadi, comprising a total of over 3,000 miles. There are nearly 20 big reservoirs formed across the above rivers.

Inland Fisheries are developed only in selected areas of the State. There are 10 fishery divisions, 12 fish farms, 3 deep water fishing units and 20 fish seed collecting centres. The revenue from Inland Fisheries is approximately Rs. 50,000.

Marine Fisheries : Mysore State has 200 miles of coast line on the Arabian Sea. All along this sea board, there are many fishing villages, the most important of them being Karwar, Ankola, Kumta, Honnawar, Bhatkal, Majali, Bingi, Chandia, Gangoli, Malpe, Udiyawar, Bukkapatnum and Mangalore.

Nearly 40 varieties of sea fishes are landed out of which the most important are Sardine, Mackerel, Seer and Sharks. The total fish production on Mysore coast is 1/10 of the total marine fish landings in India.

Thus, the marine fisheries confined to the districts of North and South Kanara can be regarded as one of the richest in the whole of India.

Quantity of fish in tons and the approximate value :—North Kanara : 20,000 ; Rs. 44,80,000 ; South Kanara : 80,000 ; Rs. 66,00,000.

Value of fish exported:—North Kanara: Rs. 38,20,000 ; South Kanara : Rs. 45,00,000.

No. plying the trade :

	No. of Fishermen.	*No. of dependents on fishing industry.*	*No. of boats.*	*No. of nets.*
North Kanara	7,132	23,000	3,600	—
South Kanara	12,096	57,000	6,700	18,900
Total	19,228	80,000	10,300	18,900*

Average catch per fisherman per annum :- North Kanara : 2·77 tons ; South Kanara : 3·00 tons.

Total annual internal consumption :-North Kanara : 7,200 tons ; South Kanara : 15,000 tons.

Marketing facilities : North Kanara : Fish is transported to Bombay after icing in carrier launches. Surplus fish is dried and cured in fish curing yards. Steps are being taken to establish ice and cold storage facilities at important coastal centres.

South Kanara : Fish is sold in local markets and also transported to interior markets in lorries and sold there in fresh condition. There is an ice factory-cum-cold storage plant of 50 tons capacity in Mangalore. Steps are being taken to establish ice and cold storage facilities at important coastal centres. Deep freezers for keeping the surplus properly preserved are being installed at the important inland markets. The present fish market at Mangalore is being modernised. Fresh fish trade is being extended to Mercara, Mysore, Mandya, etc.

Capital value of the industry together for North and South Kanara districts is estimated at Rs. 15,00,000.

No. of fish curing yards :—North Kanara : 15 ; South Kanara : 15.

Process of modernisation (South Kanara) : Mechanisation of boats for powered fishing is taken up as also ice plants and refrigerated storage facilities are being provided. It was expected that by the close of 1957-58 there could be about 12 mechanised boats operating in coastal waters in addition to three T.C.M. powerboats.

SUBSIDIARY INDUSTRIES ESTABLISHED AND THE SCOPE FOR DEVELOPMENT :

	Fish-meal plants.	*Fish oil factories.*
North Kanara ..	—	3
South Kanara ..	1	13
Total ..	1	16

AMENITIES TO FISHERMEN

1 Mysore State : Fishermen Co-operative Societies, 52 ; Subscribed capital, Rs. 4·00 lakhs ; Number of fishery schools, 25.

Steps are being taken to explore the prawn fishing grounds north of Mangalore.

In order to cope up with the expanded programme of fishery development of the State, a separate department has been set up with the Director of Fisheries as its head with headquarters at Bangalore.

ORISSA

Kinds of sea-fish caught : Pomfrets, Mackerel, Ribbon fish, Silver bellies, Sardine and White Bait. Kinds of river fish caught : Labio Rohita, Catla Catla, Cirhina, Mrigala, Labio kalbasu and other Carps and Cat fishes.

Annual production of Shark Liver Oil : 1950-51 (3,000 lb.) ; 1951-52 (6,730 lb.) ; 1952-53 (7,658 lb.) ; 1953-54 (10,718 lb.) ; 1954-55 (6,587 lb.) ; 1955-56 (11,681 lb) ; 1956-57 (1,449 lb.).

Average price per maund of sea-fish in pre-war years : Between Rs. 5 and Rs. 10. Present price per maund of lower varieties : Between Rs. 10 and Rs. 20. Wholesale price per maund of good fish like Pomfrets : Between Rs. 35 and Rs. 55. Wholesale price per maund of higher varieties of river fish : Between Rs. 65 and Rs. 100. Price of smaller fish : Between Rs. 30 and Rs. 50 ; Small prawns : Between Rs. 10 and Rs. 20 ; Lange prawns : Between Rs. 45 and Rs. 60.

Important marine fishing villages : Patisonapur, Markandi, Gopalpur, Paayagi, Sonapur, Suria, Aryapalli, Kandarapalli, Gajapatinagar, Purnuabandha, Damodarpur, Rambha, Chanmuhani and Arkhakuda.

Important assembly centres in the Chilka lake : Kaluparaghat, Rambha, Balugaon, Gangadharpur, Kuhuri, Chhatrapur and Khallikota.

Important assembly centres in Mahanadi estuary : Kujang.

Important assembly centres in Dhamra estuary : Chandripal.

Important inland fishing centres : Ansupa lake, Russelkonda reservoir and Kausalyaganga.

Number of fish curing yards run by the fishermen's own co-operative stores : 6. Number of ice factories which cater to preservation of fish for transport to Calcutta and elsewhere : 6. Co-operative marketing has developed in the Chilka area. The annual volume of trade ranges between Rs. 25 to Rs. 40 lakhs.

There is considerable demand for fish in the urban markets unlike the interior where it is very much less on account of lack of purchasing power.

The demand is approximately 100 times more than the supply.

There are no deep-sea fishing companies in the State.

The State has not taken up deep-sea fishing. There are no fishermen's schools.

There is a small experimental aquarium attached to the Fisheries Department in Cuttack.

Fresh water biological stations have been established at Kausalyagang, District Puri, Kiakani (Cuttuck), Humari (Ganjam), Augul, Jeypore, Kathpal (Mayurbhanj).

Major experimental farms in the State : Cuttack fish farm ; Puri fish farm ; Chowdwar fish farm ; Sonepur ; Sambalpur ; Balasore ; Kausalyagang ; Angul ; Baudh ; Jajpur ; Belguntha.

Shark liver oil industry has developed recently. Annual production : 1952-53—2,240 lb. crude oil ; 1953-54—12,000 lb. crude oil : 1954-55—8,062 lb. ; 1956-57-3,700 lb.

Research is going on in the manufacture of agar agar and hydrolysed protein.

Schemes under the revised first Five-Year Plan : Development of Inland Fisheries ; Reclamation of swamps to relieve unemployment ; Scheme for utilisation of T.C.A. Equipment ; Reorganisation of the Fishery Department ; Development of Inland Fishery ; Biological and Technological Investigation of the Chilka Lake Fisheries ; Development of Mahanadi Estuary ; Development of Marine Fishery. Such of these schemes as have not been completed would continue during the second Five-Year Plan period. Besides these, the following are the schemes under the second Five-Year Plan : Development of fish seed centres ; model fish farms ; research in fresh water biology and technology ; marine farms ; power fishing experiments in the sea, estuaries and inland waters ; research in technology.

Second Five-Year Plan provision 1956-61 : Rs. 52·25 lakhs.

Income from Fisheries Department ranges between Rs. 1·5 and 2·2 lakhs per annum which does not include rent for water areas.

Budget allotment : 1957-58 : Rs. 18·12 lakhs.

A separate Directorate of Fisheries was created in 1955.

THE PUNJAB

Kinds of fish caught : Goonch (Bagarius), Bochwa (Chupisoma Garua), Silund (Silomia silondia), Mullee (Wallagonia attu), Nalakhi (Heteropnoustas fossilis), Singhari (Mystus aor), Khaga (Rita rita), Kalbons (Labeo calbasu), Rahu (Labeo Rohita), Gid (Labeo disphostomus), Bhangan (Labeo microphthalmus), Mori (cirrhina mirgala), Sunni (cirrhina raba), Thaila (Catla Catla), Kharni (Barbus sarana), Mahseer (Barbus putitora), Chilwa (Barilius modestus), Pari (Notopterus chitaler), Saul (Ophicephalus Marulius), Daula (Ophicephalus punctatus).

Total quantity of fish caught in former Punjab upto Aug. 1956 was over 916 maunds. This fetched an income to the State of about Rs. 6,000.

In the first ten days of Sept. 1956 all the public waters of the former Punjab were put to public auction. This brought an income of Rs. 1,09,700.

The total income from the former PEPSU during 1956-57 was about Rs. 45,478.

Price level : Prices vary from market to market. In some markets prices are fairly high. On the whole prices ranged for wholesale about as. 12 per seer ; Retail at Re. 1 per seer.

The demand for fish in the local market is very low, the population being mostly vegetarian.

After meeting the local demand the fish is exported to Delhi and U.P. where it finds a ready market.

* Exclusive of North Kanara for which figures are not available.

There are no sea fisheries. There are no companies engaged in exploring and exploiting the fisheries of the State.

The catching and marketing of fish under the supervision of the departmental staff has been abandoned in the old Punjab. The fishing rights in public waters are now regulated by means of public auction on yearly basis preference being given to organised fishermen's co-operative societies.

This system was already in operation in the PEPSU area.

There are no facilities available for canning, storage and refrigeration. The party or the individual holding the contract for fishing rights of public waters in a particular district is bound to set up a fish sale shop at the district headquarters. Permits for export of fish outside the district are however issued by the Warden of Fisheries, Punjab, or by an officer specifically authorised by him in this behalf where the local consumption of fish is very low. No trawlers are used; only primitive methods of fishing by nets are used.

There is no school in this State for educating the fishermen and their children for improved and up-to-date methods of fishing.

Public museums and experimental farms in the State: Government Fish Farm, Batala (District Gurdaspur).

There are no industries for fish products in this State.

There are four organised Fishermen's Co-operative Societies functioning in this State. The fishermen are being persuaded to organise more such societies. In order to improve their socio-economic conditions, a scheme for the grant of interest-free loans to Fishermen's Co-operative Societies has been included in the Second Five-Year Plan so that the fishermen may be able to conduct their catching and marketing on co-operative basis and get the whole profit.

There are four schemes relating to Fisheries which have been included in the Second Five-Year Plan of the Integrated State of Punjab. Their details are as under:

Name of the Scheme.	Expenditure during the plan period (Rs. in thousands).
1. Scheme for the expansion of the development of fish by stocking with fish seed a large number of impounded waters.	261
2. Scheme for the provision of cold storage arrangements at three important fish consuming centres in the Punjab.	197
3. Scheme for the grant of interest-free loans to Fishermen's Co-operative Societies for co-operative marketing of fish.	60
4. Fisheries Development Scheme. (This is according to the plan of the erstwhile PEPSU State).	600

Revenue from Fisheries during 1956-57: Rs. 1,62,361-9.

Budget allotment for the department (1957-58) as a whole: Rs. 66 lakhs approximately including Rs. 3,54,470 for fisheries section.

Fisheries Department in the Punjab is attached to the Animal Husbandry Department under the control of the Head of the Department who is designated as Director, Animal Husbandry and Warden of Fisheries, Punjab.

UTTAR PRADESH

Kinds of freshwater fish caught:

In plains: (*i*) Major carps like Labeo Rohita, Labeo Calbasu, Cirrhina Mrigala, Catla Catla, Labeo Gonius, (*ii*) Small carps, (*iii*) Minnows, (*iv*) Cat fishes, (*v*) Mullets, (*vi*) Spiny eels, (*vii*) Feather backs, (*viii*) Glass fishes.

In hills: (*i*) Kumaon Mahaseer, (*ii*) Hill Trout, (*iii*) Asela, (*iv*) Khurant, (*v*) Discognathus, (*vi*) Oreinus.

The State also imported an exotic variety of fish *viz.* Mirror Carp for culture in Uttar Pradesh hills.

Total quantity of freshwater fish caught (1944): 241,304 mds.

Total value of freshwater fish caught in 1956-57: The Department is concerned only with waters placed under its management. The value realised from such waters during 1956-57 was Rs. 2,71,444.

Price level of the fish during April 1956 to March 1957:

Varieties	Average wholesale price per maund	Average retail price per seer
	Rs.	Rs. a.
Rohu	38	1 8
Nain	37	1 6
Bhakur	34	1 7
Calbose	35	1 5
Parhin	24	1 0
Tengan	29	1 1

Approximate strength of the fishing population: Latest figures available are for 1944: about 10,695 families.

Facilities available for curing, storage and refrigeration, co-operative marketing: Generally fresh fish arrive in the markets and curing is rarely resorted to. Gorakhpur, Basti, Kanpur, Lucknow and Dehra Dun are some of the fish markets where there are some arrivals of dried and salted fish.

During the second Five-Year Plan stress is laid on inducing fishermen of the State to take up pisciculture as a cottage industry by organising them in co-operative societies. In order to release them from the clutches of the middlemen, provision has been made to assist 114 such parties during the plan period to give them grant-in-aid to the tune of Rs. 10,000 per party for purchase of modern fishing paraphernalia and improvement of their fishing areas, nursery ponds, stocking tanks, etc. The Department will also arrange to supply fish seed to these parties for stocking their tanks at a subsidised rate of Rs. 4 per 1,000. Besides, cold storage facilities at low rentals to preserve their produce will also be provided to fishermen by installing plants in the fish markets one each at Kanpur, Lucknow, Allahabad and Banaras. The plant at Allahabad is nearing completion.

Potential demand for fish in the local markets is such that a major portion of the fish production in the State is exported by the fish traders to more lucrative markets outside the State such as Calcutta, Delhi, etc. To satisfy the demand, the Tank Stocking and Development Scheme as part of Government of India's 'Grow More Food Campaign' was launched in the State in 1944-45.

It has been decided by the Government to restrict the departmental activities to large sheets of waters and to set aside the small village ponds easy to manage for private enterprise.

Nearly 4,274 acres were stocked during 1956-57. Besides, the stocking of reservoirs, large sheets of water, *viz.* Pahuj (1,372 acres), Barwar (2,485 acres) in Jhansi, Kitham (640 acres) in Agra, Kondar Tal (375 acres) in Gonda, Nankuchia Tal (480 acres) and Bhim Tal (480 acres) in Nantal, Alwara Jheel (60 acres) in Allahabad, Rampur Narwi Jheel (100 acres) in Kanpur, Dariogunj Jheel (220 acres) in Etah, Rata Dabri (50 acres) in Shahjahanpur, Chauki Jheel (50 acres), Chandapur Jheel (50 acres) and Ramya Bihar (200 acres) in Kheri was also undertaken.

Government effort in up-to-date fishing technique, money spent, trawlers, gears used, quantity of fish caught: A provision of Rs. 15,000 has been made in the budget allotment of 1957-58 to further equip each of the five circles in the State with adequate fishing paraphernalia. A fishing vessel at a value of $2,879 has also been imported for use in fishing of the canal reservoirs at Jhansi. Besides, two more motor boats at a total cost of Rs. 20,000, were expected to be purchased during 1957-58. Eradication of aquatic vegetation both emergent and submerged, is receiving active attention of the department and the results so far achieved are satisfactory.

Government effort in educating fishermen: Training is imparted in the State at Banaras.

Public museums, aquaria, experimental farms in the State: A small museum exists in the Central Fisheries Research Laboratory, Badshahbagh, Lucknow where all possible fish species available in the State have been displayed. An aquarium room in the Laboratory is also being fitted up. An aquarium is under construction at the Prince of Wales Zoological Garden, Lucknow.

There are two Government experimental farms in the State—one at Bhowali, District Naini Tal, where an exotic fish, *viz.* Mirror Carp is kept for breeding and the other is at Mirzapur where problems which confront the growth of fishes in land-locked waters are studied.

Schemes under first Plan: *i*) Research Fish Farm, Mirzapur; *ii*) Revival or permanent posts of Fish Marketing Officer and Fisheries Inspectors of Lucknow Circle; *iii*) Replacement of vehicles for Fisheries Section; *iv*) Rentals for fry and fingerlings collection; *v*) Construction of special transportation tanks for road and air transport of fry and fingerlings to reduce mortality; *vi*) Development of Fisheries in Canal Reservoirs.

Schemes under the second Five Year Plan: (*i*) Establishment of Fisheries Co-ordination and Supervision Section at the Headquarters of Director of Animal Husbandry, U.P., (*ii*) Intensification of piscicultural activities with a view to augmenting fish production, (*iii*) Establishment of five demonstration farms with requisite nurseries, (*iv*) Rentals of nurseries for rearing fry and fingerlings, (*v*) Improvement of fish nurseries and renovation of two trout hatcheries in U.P. hills, (*vi*) Improvement and maintenance of tanks, (*vii*) Help to fishermen co-operatives and private pisciculturists, (*viii*) Extension and development of fisheries in Tarai State Farm, (*ix*) Provision of cold storage facilities in the fish markets at Kanpur, Lucknow, Allahabad and Banaras.

Revenue from Fisheries during 1956-57: Rs. 2,71,444.

Latest budget allotment for the Department (1957-58):

		Rs.
(a)	Direction	35,400
(b)	Research	98,000
(c)	Tank Stocking and Development Scheme	4,20,300
(d)	Works	1,000
(e)	Provision for 9 planned schemes...	12,20,000
	Total	17,74,000

The designation of the Fisheries Department: Department of Animal Husbandry and Fisheries, Uttar Pradesh, Lucknow.

WEST BENGAL

Kinds of sea fish caught: Pomfret, Bhetki, Mackerel, Prawn, Topsi, Hilsa, Chanda, Bhola, Bombay Duck, Ribbon, Shark, Reyn, Skate, Eel, Cat fish, Phasa, etc.

Total quantity of sea fish caught in 1956-57: 12,357 mds.

Total value of the sea fish caught in 1956-57: Rs. 1,56,446.

Price per maund of different kinds of fish in March 1957:

Varieties	Maximum	Minimum	Average
	Rs.	Rs.	Rs. a. p.
Carps ..	110	45	76 6 8
Hilsa ..	70	40	51 10 0
Bhetki ..	110	60	84 13 0
Mullets ..	100	55	76 15 0
Butter ..	95	20	54 5 6
Lobster ..	115	60	87 5 9
Shrimp ..	85	10	48 11 0

Approximate strength of the fishing population: 96,400 (1951).

Potential demand for fish in the local market: In West Bengal (27,647 mds.); In Calcutta (5,561 mds.).

Extent to which production meets this demand: Seven per cent.

Money spent by Government in connection with fishing in 1956-57: Rs. 1,21,000.

Gears used: Haddock trawl, Prawn trawl, Herring trawl, etc., all made of cotton twines.

There is one experimental fish farm in sewage fed water maintained by the State Government. There are demonstration fish farms in private parties' tanks in each Thana of the State.

Ancillary industries like liver oil, gelatin, glue, fish-meal, and their production: One Scheme for production of shark liver oil, fish-meal, processed fish and utilisation of other fish by-products is operated at Contai coast.

Production during 1956-1957:

Shark liver oil—4,976 lb.; Fish-meal—16,221 lb.; Dry fish—747 lb.; Fresh fish —15,050 lb.

Approximate Revenue from fisheries during 1956-57: Rs. 7,75,295.

Budget allotment for the Department for 1957-58: Rs. 32,01,000.

The designation of the Fisheries Department: Directorate of Fisheries, West Bengal under the administrative control of Fisheries Department and Development Department, the latter controlling the sea fishing scheme only.

IRRIGATION

THE net area under irrigation in India during 1954-55 was 54·4 million acres and the gross area 60·7 million acres. This is the second largest irrigated area in any country of the world, the largest being in China.

The total capacity of India's canals is over 220,000 cusecs, and the canals are over 67,500 miles in length.

The total amount of annual flow of water in the Indian Union is 1,356 million acre feet. Of this only 76 million acre feet or 5·6 per cent are at present being used for irrigation purposes.

The following are some of the more important projects under construction: Bhakra-Nangal Project (Punjab), Damodar Valley Project (Bihar and West Bengal), Hirakud Dam Project (Orissa), Tungabhadra Project (Andhra, Mysore), Gangapur Storage Project (Bombay), Kakrapar Project (Bombay), Godavary Project, Stage I (Andhra), Ghatprabha Valley Project, Stage I, Left Bank Canal (Mysore), Kosi Project (Bihar), Koyna Hydro-electric Project (Bombay), Rihand Dam (U.P.), Nagarjuna Sagar Project (Andhra), Chambal Project, Stage I (Madhya Pradesh and Rajasthan).

The following are the different measures, which are envisaged and the extent to which, on the first estimates which have been framed, additional production may be secured from each of them.

	Additional Production (million tons)
Major irrigation	2·4
Minor irrigation	1·8
Fertilisers and manures ..	2·5
Improved seeds	1·0
Land reclamation and land development	0·8
General improvements in agricultural practices	1·5
Total	10·0

The statement below shows the distribution in terms of total cost and outlay, during the First Plan, of irrigation and power projects (excluding flood-control schemes).

Cost	Number of Projects	Total estimated cost (Rs. crores)	Total outlay (Rs. crores)
1. Rs. 30 crores and above	9	623	233
2. Between Rs. 10 crores and Rs. 30 crores ..	10	172	77
3. Between Rs. 5 crores and Rs. 10 crores	9	64	26
4. Between Rs. 1 crore and Rs. 5 crores	103	256	154
5. Less than Rs. 1 crore	337	135	79
Total ..	468	1,250	569

Classing a year in which the deficiency is 25 per cent. as a dry year and one in which it is 40 per cent. as a year of severe drought the examination of past statistics shows that, over the precarious area, one year in five may be expected to be a dry year and one in ten a year of severe drought. It is largely in order to remove the menace of these years that the great irrigation systems in parts of the country have been constructed.

In the arid tracts where the annual rainfall is less than 15 inches, no cultivation is normally possible without irrigation.

In India today we have a vast network of canals in Uttar Pradesh, the Punjab, the deltaic area of Madras and some parts of Bihar. There are about 120 high dams distributed mainly in Bombay, Uttar Pradesh, Madhya Pradesh and southern India. The number of tanks is about 23,000 in Madras and over 25,000 in Mysore State.

PLAN PROJECTS

Two hundred and twenty-nine major and medium schemes costing Rs. 720 crores were included in the First Five-Year Plan. Good progress has been made on these schemes and a good number of them have been completed, the total expenditure incurred to the end of the First Five-Year Plan being about Rs. 420 crores. These projects brought under irrigation an area of approximately 4 million acres by March 1956, and are expected to irrigate 22·28 million acres on full development.

In the Second Five-Year Plan, about 210 schemes costing about Rs. 452 crores will be taken up. These are expected to irrigate about 16·60 million acres of land on full development.

A provision of Rs. 486 crores has been made in the Second Plan for irrigation and flood control.

The projects are mostly being executed by the State Governments.

The most important of these under actual construction include:—

Bhadra Project (Mysore):—This is one of the biggest irrigation and multi-purpose projects undertaken by the State. The scheme includes the construction of a reservoir on the river Bhadra at Lakkavalli (Shimoga District) with a storage capacity of 61,250 c.ft. to irrigate 2,34,200 acres of land in the dry taluks of Shimoga, Chitaldrug and Bellary districts and to generate electric power to the extent of 41,040 KW at the dam site. Two channels take off from the reservoir on each bank and the right bank channel has to be taken in a tunnel, three miles in length, across the Urbani Range of hills before it enters Sulekere valley which commands vast fertile lands in the taluks of Harihar and Davangere. When completed, this will perhaps be the longest irrigation tunnel in India.

The cost of the project is estimated at about Rs. 25 crores and the work is expected to be completed by 1961. According to the schedule, water has already been made available to an extent of nearly 20,000 acres of land. The project was actually started on a small scale in 1947 and so far about Rs. 9 crores have been spent.

Bhakra-Nangal Project (Punjab): The Bhakra-Nangal project in the Punjab comprises two big dams—The Bhakra Dam and the Nangal Dam, about 70 miles north of Chandigarh—a vast network of canals, four power houses and 7,072 miles of electric transmission lines and 3,541 distribution sub-stations.

It is the largest multi-purpose river valley scheme under construction in India.

The project is expected to irrigate over nine million acres and build up an ultimate power potential of 10,44,000 kW. The States that will benefit are the Punjab, Rajasthan, Himachal Pradesh and Delhi. According to estimates made in 1956 the project is estimated to cost Rs. 174 crores, and will be completed by March 1960. According to the estimates made in 1946 it was to cost Rs. 75 crores.

The project will irrigate 4·8 mln. acres in the Punjab, and nine lakh acres in Rajasthan. It will also improve irrigation in another 3·5 mln. acres.

The Nangal Dam, the Canal Regulator, the Nangal Hydel Channel, two power houses Ganguwal and Kotla, and the Bhakra canals have already been completed.

The Ganguwal Power House with a capacity of 48,000 kW. was opened on 2nd Jan. 1955. The Kotla Power House also with a capacity of 48,000 kW. was commissioned on 9th June 1956.

The increase in foodgrains as a result of the extra irrigation facilities is expected to be 1·13 million tons a year. Other additional yields that will accrue from the project are: fodders 60,28,161 tons, sugarcane 1,48,201 tons, cotton 4,67,062 tons, rice 31,337 tons, groundnuts 5,021 tons, foodgrains 5,09,498 tons, oilseeds 31,086 tons.

The Bhakra-Nangal is the biggest of the multi-purpose projects in India.

Some details are given below:

The principal feature of the project is the construction of a dam about 760 feet high on the river Sutlej near the village of Bhakra about 50 miles upstream of Rupar Town in the Ambala District. The total storage capacity of the reservoir is estimated to be 7·40 million acre feet, of which 5·73 million acre feet will be available for use. The reservoir will extend to about 55 miles above the dam spread over an area of 64 sq. miles.

The dam will be the highest straight gravity type in concrete in the world.

Bhakra Dam: Height 760 feet; Length at bottom 325 feet; Width at top 30 feet; Length at top 1,700 feet; Width of dam at bottom including apron 670 feet; Width at bottom including apron and heel claystone 1,320 feet. Bhakra Reservoir: Total storage capacity 7·4 million acre feet; Live storage capacity 5·73 million acre feet; Length of reservoir 55 miles; Area submerged 42,500 acres; Population to be displaced 30,000; No. of villages to be submerged or partly submerged 366; Total quantity of excavation 14,77,00,000 cubic feet; total quantity of concrete for dam and appurtenant works 14,31,00,00 cubic feet; cost of Dam Rs. 65,91,00,000.

During the construction of the dam, the waters of the Sutlej are being diverted through two 50-feet diameter tunnels, one on each side. The length of the two tunnels is about one mile. Coffer dams upstream and downstream of the working area have been completed and the river has been diverted through the tunnels.

About eight miles downstream of Bhakra Dam site, Nangal Dam on the river Sutlej has been completed.

Nangal Dam: Height 95 feet; No. of bays 26 of 30 feet span each; Distance between abutments 955 feet; Nangal-Bhakra Canal System: Length of Main Line and Branches 690 miles Length of Distributaries 2,100 miles.

This dam will serve firstly to divert the requisite supplies from the river for the Nangal Hydel Canal, secondly to provide storage to smoothen the fluctuations in supplies due to load variations in Bhakra Power Plant. The Nangal Canal takes off from the left bank of the river Sutlej at Nangal Headworks. It is a lined canal about 40 miles long with a maximum capacity of about 14,500 cusecs, for the first 9,700 feet of its length and 12,000 cusecs thereafter.

The Bhakra Canal system, which was inaugurated by the Prime Minister on July 8, 1954, consists of 690 miles of Main Canals and Branches and 2,100 miles distributaries. The Nangal Hydel Canal, passes through a sub-mountainous terrain full of deep ravines and hill torrents. The work on it involved construction of 58 cross drainages and 34 bridges. It is lined with concrete and tiles throughout its length of 40 miles and has cost Rs. 11 crores.

The Bhakra electricity transmission system would consist of 2,267 miles of high tension lines ranging from 33 K.Vs. to 220 K.Vs. Apart from this, there will be 800 miles of 11 K.V. lines. Greater stress would be laid on rural electrification as it would step up agricultural production by energising tube-wells. About 5,000 villages will be electrified by the end of the Second Five-Year Plan.

Full benefits of the Project will be available on its completion in 1960. However, schedules have been so arranged as to bring some measure of these benefits as each step of construction is completed. Kharif irrigation was provided to over 3 lakh acres in the Punjab with effect from July 1954; 24,000 kW. of additional electricity became available with the commissioning of the Ganguwal Power House in January 1955.

Upto 1955 March Rs. 8,829 lakhs were spent on the Bhakra-Nangal project.

Damodar Valley Project (Bihar and West Bengal).—The Damodar Valley Project which is one of the most important multi-purpose schemes and is to benefit the States of Bihar and West Bengal, has as its main features the construction of (*a*) Multi-purpose storage dams with hydro-electric plants, (*b*) an irrigation project with a net work of irrigation canals and distribution measuring 1,465 miles, (*c*) an 85 miles long irrigation-navigation canal, (*d*) a power transmission grid and (*e*) thermal power stations to supplement the hydro power.

The ultimate benefits that will accrue from this scheme include (*a*) effective flood control of the Damodar River, (*b*) perennial irrigation of 10,26,762 acres including 185,000 acres now irrigated in the kharif season and 300,000 acres in the rabi season resulting in an additional yield of rice and rabi crop valued at Rs. 23 crores a year, (*c*) the generating of 559,000 kW. of electric power, which will promote the growth of industry, lead to the electrification of railways, etc., (*d*) cheap transport facilities through the navigation canal (*e*) annual traffic through the canal of coal, paddy, etc. to the extent of nearly 2 million tons and (*f*) efficient drainage of about 700 sq. miles of water-logged area in the lower valley in W. Bengal.

Of the electric power generated 375,000 kW will be thermal and 184,000 kW will be hydro-electric.

The first phase of the D.V. Project comprises (1) a thermal power station of 150,000 kW capacity at Bokaro, 7 miles by road from the Bermo railway station, in the district of Hazaribagh, Bihar, (2) Tilaiya dam with a power station of 4,000 kW in the same district, 14 miles south of Kodarma railway station on the Grand Chord line of the Eastern Railway, (3) the Konar dam, 24 miles from Hazaribagh, (4) the Maithon dam with a power station of 60,000 kW in the district of Manbhum (Bihar), 3 miles from Kumardhubi railway station on the Grand Chord line, (5) the Panchet Hill Dam with a power station of 80,000 kW. (ultimate), of which one unit (40,000 kW.) has been taken in hand, in the district of Manbhum (Bihar), about 13 miles south of Maithon, (6) the Durgapur Barrage and Canals in the district of Burdwan (West Bengal) and (7) the transmission line system.

The construction of the first dam was started in 1948.

The Bokaro Thermal Power Station was commissioned in 1953 with an installed capacity of 150,000 kW and will ultimately have a capacity of 225,000 kW.

The Tilaiya Hydro Station was put into commercial operation in February 1953, with two 2,000 kW sets. Work on the transmission system is actively in progress and 635 miles of 132 kV (out of a total of 720 route-miles) and 91 miles of 33 kV lines with most of their associated sub-stations have been completed.

The Konar Dam in the district of Hazaribagh was completed in 1954 and was formally opened by the Prime Minister of India on October 15, 1955.

The Maithon Dam, 162 feet high above the river bed, has been built on the Barakar River above its confluence with the Damodar. It consists of a main earth dam, 1,031 feet wide across the bed of the river, with a concrete spillway 618 feet in length, and a long stretch of earthen dykes on both the banks —6,228 feet long on the right and 5,726 feet long on the left.

It has an underground power station on the left bank, the installed capacity of which is 60,000 kW and which will produce annually 164,000,000 kW of hydro-electric power. The normal storage level of the reservoir will be 6,64,000 acre feet, the maximum at flood stage will be 12,00,000 acre feet and the low water release will be 4,96,000 acre feet.

The dam has been designed to provide water for the irrigation of some 27,000 acres in the Lower Valley.

This Dam is one of the two key dams on which flood control and irrigation in the lower Damodar Valley will largely depend. This dam now complete, was opened by the Prime Minister on September 27, 1957. The construction of attached power station is now in progress.

Work on the Panchet Hill Dam has been completed to the extent of about 80 per cent of the earthen dam and about 60 per cent of the concrete dam.

The Durgapur Barrage has been completed and was opened by the Vice-President of India on August 9, 1955. Through some reaches of the completed canals, irrigation water was made available for an area of one lakh acres during 1955-56 and 1·6 lakh acres during 1956-57. The work on the remaining canals is in progress and is expected to be completed in 1958-59.

As the next stage of development, work has been started on (1) expansion of the Bokaro Thermal Power Station by the addition of a 75,000 kW generating set, thus raising the ultimate capacity of generation to 225,000 kW, (2) the construction of a second Thermal Station at Oyaria near Durgapur in the district of Burdwan (West Bengal), with a capacity of 150,000 kW and (3) the necessary strengthening of the transmission system.

These extension works are programmed to be completed in time to meet the additional demands for power and new industrial development, such as, the expansion of the steel industry, undertaken by the Government as a part of the Second Five-Year Plan; electrification of the part of the Eastern Railway.

First plan outlay: Rs. 77·15 crores.

The estimated cost of the project excluding the new schemes to be taken up during the period of the Second Five Year Plan is about Rs. 102 crores. The aggregate expenditure on the various projects upto the end of July 1957 works out to about Rs. 85 crores.

Budget

Revised estimates (1956-57) .. Rs. 16,47,98,000
Budget estimates (1957-58) .. Rs. 17,07,75,000

It may be mentioned here that the Damodar Valley Corporation Act was passed in March 1948, and the Corporation itself came into existence on July 7, 1948.

The whole project was originally divided into two phases. A description of the first phase is already given.

Four other dams at Balpahari, Bokaro, Aiyar and Bermo with hydro-electric stations, forming part of the original programme, have been deferred to a later date till the needs of flood control, power generation and water supply justify these additional works.

Extensive land reclamation, soil conservation, rehabilitation of displaced persons, malaria control, promotion of small-scale industries and development of fisheries are some of the miscellaneous activities of the DVC.

The manner in which the costs are shared among the participating Governments is as follows:

The total amount of capital allocated to irrigation is shared between the State Governments of West Bengal and Bihar in the following way:

(i) The Government concerned is responsible for the capital cost of the works constructed exclusively for irrigation in its province;

(ii) the balance of the capital cost under irrigation for both the States of West Bengal and Bihar is shared by the State Governments in proportion to their guaranteed annual off-takes of water for agricultural purposes.

The expenditure allocated to power is shared equally by the three participating Governments, (The Central Government, West Bengal, Bihar).

The share of expenditure allocable to flood control is equally divided between the Centre and West Bengal up to Rs. 14 crores, and any amount in excess thereof is the liability of the Government of West Bengal.

It may be added here that the reorganisation of the States of Bihar and West Bengal does not involve any change in the irrigable areas in these States. In regard to power also, no appreciable change is involved as the benefit from the DVC power system will be shared almost equally by the States of Bihar and West Bengal.

The annual gross revenue from power is now more than Rs. 3·5 crores and in 1957 it was expected to be Rs. 3·67 crores.

Additional supplies to be made over the next three years will amount to 200,000 kW and the demand will fully consume the capacity of the power-stations under construction at Maithon, Panchet, Durgapur and Bokaro.

Power is consumed mostly by major industrial concerns, but the D.V.C. also helped considerably in urban and rural electrification.

The Bihar Government, whthin the last eight years, electrified 70 towns, 508 villages, 153 collieries, 77 mica mines, 697 surface wells and 961 tube-wells.

The West Bengal State Electricity Board has started distributing D.V.C. power among 12 coal-mines, five towns and 11 villages.

It was expected that with the completion of the Panchet Dam by July 1958, the four dams of the Corporation would provide as much practical flood protection as could be expected and be able to reduce pressure from the maximum of 650,000 cusecs so far experienced to 250,000 cusecs. around Burdwan. The D.V.C. barrage and irrigation project in West Bengal were nearing completion. Since the execution of the Durgapur Project 11,300 acres were brought under irrigation in 1956.

Considering that about 80 per cent of the work on the D. V. Project is complete a Bill to amend the D.V.C. Act was introduced in Parliament on 11th Dec. 1957. The idea was to have full time or part time members of the Board and a senior officer as Secretary with large powers to act as chief executive officer.

Gangapur Storage Project (Bombay).—The project consists of constructing a 12,500 feet earthen dam at Gangapur on the river Godavari to impound a storage of 5,500 Mcft, constructing a new canal, viz. Nasik L.B.C. 24 miles to take off directly from the dam, and remodelling for increased capacity the existing Godavari canals. The project will bring under

irrigation an area of 25,000 acres including perennial crops on the Nasik L. B. Canal, and an additional area of 20,000 acres including perennial crops on the Godavari canals.

The project is to benefit the eastern part of Nasik Taluka, the southern part of Niphad Taluka and a small portion of Sinnar Taluka of the Nasik District and the Kopergaon Taluka of the Ahmednagar District. The area under the command of the project includes some areas which are very liable to famine.

The project which is estimated to cost Rs. 395 lakhs, was started before the First Five-Year Plan, and a good part of the project had been executed in the First Plan period. The dam is completed and the work on the canals also is at an advanced stage of construction. Pending the construction, completion of the new canal and remodelling of the existing canals, the water stored in the lake has been utilised on the existing canal. A portion of the new canal, which is complete is also being opened for irrigation. Provision has been made in the 2nd Five Year Plan for the completion of the project, which was expected to be done quickly.

It is proposed to increase the storage of the Gangapur Dam from 5,500 Mcft. to 7,200 Mcft by installation of waste weir gates. By this increased storage, an additional area of 19,000 acres including perennials will be irrigated in the eastern part of Nasik and the southern part of Niphad Taluka by the construction of a new canal to take off directly from the dam named Nasik Right Bank canal and extending the Nasik left Bank canal from mile No. 25 to 30. This is known as the 2nd stage of the Gangapur Project, and is estimated to cost Rs. 87·6 lakhs. The work on the 2nd stage which is included in the 2nd Five-Year Plan, has already been started.

Ghataprabha River Valley Project (Mysore):—This is mainly an irrigation project in Belgaum District to be completed in three stages. It contemplates construction of two reservoirs across the Ghataprabha river, a tributary of the Krishna river and its tributary with channels on both the banks from the anicut. The project is estimated to cost about Rs. 35 crores and will irrigate six lakh acres in the dry districts of Belgaum and Bijapur. The first stage of the project, which is practically completed at a cost of Rs. 5·45 crores, consists of constructing the first section of the Ghataprabha Left Bank Canal taking off from the existing pick-up weir at Dhupdal in Belgaum District, near Gokak Falls. The length of this section is 44 miles and it commands an area of 2·5 lakh acres of land.

The second stage consists of the construction of a storage dam at Hadalga and construction of the second section of the Ghataprabha Left Bank Canal from the 45th mile to the 73rd mile. This scheme has been included in the Second Five-Year Plan, and a provision of Rs. 8 crores has been made for this scheme. With the completion of the second stage, a total area of about 4·5 lakh acres can be brought under irrigation.

The third and final stage consists of construction of a storage dam at Ajra and also of the Ghataprabha Right Bank Canal. The Hadalga dam site (second stage) lies in Kolhapur District of Bombay State and the Government of Bombay has been approached to accord the necessary permission to proceed with this work.

Godavari Project, Stage I (Andhra).—The project is situated in Nirmal Taluka in Adilabad District. The first phase of the Godavari Project involves the construction of the Kaddam dam, 5,495 feet long across the river Kaddam a tributary of the Godavari, and 48 miles of canal from the dam. This Project will irrigate 67,000 acres in the Adilabad District. The Project is estimated to cost Rs. 441·0 lakhs. The scheme is nearing completion. An area of 7,000 acres has already been brought under irrigation.

Harike Project.—Work on the Harike Barrage and the Ferozepur Feeder has been completed. Work on the Bakhu Canal is nearing completion. The expenditure in the first four years of the Plan was estimated to be Rs. 4·92 crores.

The Project will be completed in 1959 and its estimated cost is Rs. 7 crores. Area to be irrigated is 10 lakh acres in Ferozepur and Bhatinda districts, besides providing irrigation to vast tracts in Rajasthan through the 207-miles all-metalled canal—the world's longest channel—to be constructed by 1962. This canal will also take off from Harike. This will add about 5 million tons of foodgrains, fodders and oilseeds.

The work on the Harike Project is nearing completion although the barrage itself, which was damaged in 1955 floods, will have to be extended. The work on the 89-mile long lined channel of the Sirhind Feeder which started in 1955 is expected to be completed by June 1959 and an expenditure of Rs. 2 crores was expected to be incurred during the year 1957-58. This project will take over the existing unirrigated areas of Sirhind Canal and Bhakra Nangal Canal System lying to its west. The surplus supplies so saved would be utilized elsewhere for the improvement of irrigation in dry tracts of the State.

Hirakud Dam Project (Orissa).—The Hirakud project was formally opened by the Prime Minister on 13th Jan. 1957. Water from the dam now completed flowed into the Baragarh Canal, the central arterial canal, in July 1956 and water was available for irrigation in September 1956.

By April 1957 it was expected that the project will irrigate 672,000 acres of land in Sambalpur and Bolangir Districts, and 1,867,000 acres in Cuttack and Puri Districts.

Power has been made available since December 1956 with the commissioning of Unit No. III of 24,000 kW, Unit No. IV of 24,000 kW and Unit No. II of 37,000 kW have also been put into operation and have been running satisfactorily. The only set left the Unit No. I of 37,500 kW was expected to go into operation before the end of 1957-58.

Upto March 1956 Rs. 65 crores had been spent on the project. The revised estimates for Stage I are Rs. 70·78 crores.

The project was started in 1948. The full project envisages the construction of three dams and two power houses, the first at the dam sight (already in operation) and the second at Chiplima, sixteen miles below the Hirakud Dam.

The full project is designed to irrigate 2·5 mln. acres of land including 1·8 mln. acres under the Delta Scheme and provide ultimately 232,500 kW of electric power. The second stage of the project is expected to be completed by 1960.

The power will be utilized in the northern part of the State in the following Districts: Sambalpur, Sundargarh, Keonjhar, Mayurbhanj, Dhenkanal, Cuttack, Puri, Bolangir and Kalahandi.

More details are given below.

The Hirakud Dam which is now complete is three miles in length and is located at Hirakud near Sambalpur across the main channel of the River Mahanadi. There are also 13 miles of low dykes on the two sides.

The dam is a concrete-cum-masonry-cum-earth dam. The maximum height of the concrete dam is about 200 ft. of the earth dam 195 ft.

The reservoir created by the dam and dykes will have a capacity of 6·6 million acre ft. of water covering an area of 288 sq. miles. Three flow canals (one from the right dyke and two from the left) will irrigate 6·72 lakh acres in the districts of Sambalpur and Bolangir-Patna. The length of the main canals and branches will be 91·5 miles with 460 miles of distributaries and minors, and 2,000 miles of water courses.

The power from the project will be utilised for giving power not only to the various towns but also to rural areas for which purpose a large system of 33 and 11 K.V. lines are being constructed; power will also be given for small industries and for domestic lighting.

The total estimated cost of the Hirakud Power Utilisation Scheme is Rs. 155·85 lakhs. This does not include the cost of Hydro-Electric works and machinery at Hirakud Dam and also the transmission of energy at 132 K.V. and 66 K.V.

As already mentioned, the whole project has three stages. The first stage consists of the main dam (so-called Hirakud Dam) with its power house for 123,000 kW installed capacity and canal systems at either flank. This stage is complete. The second stage consists of the Chiplima power scheme to develop 72,000 kW, sixteen miles below the main dam and a 37,000 kW unit at the main power house. This is expected to be completed in 1960. The third stage aims at the construction of a weir across the Mahanadi above Naraj with canal systems in Puri and Cuttack districts.

The immediate benefit from the completion of the first stage will be an additional quantity of 5·6 lakh tons of foodgrains and 2·4 lakh tons of other commodities.

Ultimately the whole of the protected area in the Mahanadi delta will be immune to flooding, the new embankments will provide means of communication for many villages and improve navigation on the existing canals.

Kakrapar Weir and Canals Project (Bombay).—This Project is a part of the Lower Tapi Valley scheme. It was taken up for execution by the C.W. & P.C. (then known as C.W.I.N.C.) on behalf of the Government of Bombay and was inaugurated on November 1, 1949. It was handed over to the Bombay Government for further execution in June 1954.

The project proposed to be developed in two stages consists of a weir at Kakrapar on the Tapi River whence the Right and the left Bank canals are taken off to irrigate an area of 5,62,000 acres of seasonal crops in Surat District on the run off of the river. The head works comprising the weir about 2038 feet long and 45 feet high above the deepest river bed, the head regulators for the canals and the afflux bunds were completed in the middle of 1953. The Left and Right Bank canal systems comprising the main canals, branches, and distributaries have a total length of 850 miles. These canals are intended to increase food production by 1·6 lakh tons and cotton by 16,000 tons. The work on the main canals is at an advanced stage of construction and that on the branches, mains and minors, etc. is in full swing. Irrigation has already commenced on a part of the area on the left bank canal.

The project which was estimated to cost Rs. 626 lakhs is under revision and is expected to cost about Rs. 11 crores. The project has been included in the 2nd Five-Year Plan for completion.

It is also proposed to construct a storage reservoir on the Tapi river, upstream of the Kakrapar Weir, in Songad Taluka of Surat District to hold a storage of 3·25 lakh Mcft. This will be used for assuring supply to 5·62 lakh acres of seasonal irrigation planned on the Kakrapar Weir and Canal project, and will in addition bring new areas to the extent of 4·3 lakh acres including perennials under irrigation on Ukai right and left bank canals in Surat and Broach districts. It will also be possible to increase irrigation by 3·18 lakh acres of crops including perennials in the command of the Kakrapar canals. Thus after completion of the Ukai Project irrigation facilities will be provided for new areas of 7·48 lakh acres besides assuring supply to the seasonal crops of 5·62 lakhs acres under the Kakrapar system.

The Ukai Dam has great potentialities of development of cheap and economical H.E. power. It will be possible to generate, due to the storage 110 kW of firm power at 60 per cent load factor. Incidentally, the project will also afford partial flood relief to the flood affected

areas of the Tapi river below Ukai. The cost of the full project *i.e.* for irrigation as well as power on the present estimation will be Rs. 58 crores. A provision has been made for the irrigation part of the project in the Second Plan.

Lower Bhavani Project (Madras).—This involved the construction of a dam, 208 feet high and 1,520 feet long with earthen flanks across the river Bhavani, a tributary of the Cauvery. The site is at Satyamangalam, about 20 miles from the Mettupalayam railway station. A canal on the right side, 124 miles long, irrigates about 207,000 acres of cotton, cholam and rice crops in Coimbatore District.

The cost of the scheme was Rs. 9·4 crores. A start on the construction was made in 1949 and it is now completed. Water has been allowed in the canal to irrigate 195,000 acres from September 1957.

About 10,000 kW of seasonal power is also planned.

Mayurakshi Reservoir Project (West Bengal).—This project involved the construction of a low masonry dam at Massanjore in the Santal Parganas District of Bihar, 123 feet above river bed to store 0·5 million acre feet of water, a weir at Tilpara in Birbhum District, West Bengal and a canal system extending over 1,340 square miles on both sides of the river Mayurakshi.

The scheme brings under irrigation an area of 600,000 acres for kharif and 120,000 for rabi crops. In addition 4,000 kW hydro-electric power during monsoon is generated. The total cost of the scheme was Rs. 16·11 crores. The project is now completed. The Massanjore Dam which is named Canada Dam was opened on November 1, 1955.

Though the dam is in Bihar, the weir is in West Bengal and it is West Bengal which mostly benefits.

Tungabhadra Project (Andhra, Mysore).—This Project was originally sanctioned by the Governments of Madras and Hyderabad which had territorial jurisdiction over this area at that time, primarily as a famine relief measure. Work on the Project was commenced in 1945 by the Governments of these two States.

It is now being executed by the Governments of Andhra Pradesh and Mysore States which have become successors to the Governments of Madras and Hyderabad in respect of this area on account of the re-organisation of States in India.

The Government of Mysore is solely in charge of the execution of the Project on the northern side of the Tungabhadra River.

On the southern side the Tungabhadra Board constituted under the directive of the President of the Indian Union, is in charge of all common works relating to Mysore State and Andhra Pradesh, and the respective States are in charge of other works in which only the concerned States are interested.

The Tungabhadra Reservoir is 146 square miles in extent and has a capacity of nearly 3·1 million acre feet at the full Reservoir level of plus 1633.

The Tungabhadra Dam across the river Tungabhadra at Mallapuram in Bellary District (Mysore) is 7,942 feet long and 160 feet high at the deepest foundation. There is only one canal on the northern side. This is expected to irrigate about 5,80,000 acres in Mysore State.

There are two canals on the southern side of the river—the Low Level Canal and the High Level Canal.

The former has already been executed and preliminary works in respect of the latter are in hand.

The area irrigated on the southern side is as follows: From the Low Level Canal, Andhra 1,57,000 acres and Mysore 92,000 acres. From the High Level Canal (it is anticipated) Andhra 2,53,500 acres, Mysore 1,36,500 acres.

The areas irrigated from the Low Level Canal in Mysore are in Bellary, and in Andhra in Kurnool. The areas irrigated from the High Level Canal in Mysore are in Bellary, and in Andhra in Kurnool, Anantapur and Cuddapah.

Only areas in Mysore are irrigated by the Northern Canal and these are in Raichur Dt.

When completed, the Hydro Electric Scheme on the southern side will consist of 2 Powerhouses with 4 generators, each of 9,000 kW capacity making an aggregate of 72,000 kW. The first station is near the Dam and the second about 13 miles along Canal.

The first and the second generators at the Dam Powerhouse were commissioned in January 1957 and May 1957 respectively, and the first and second generators at the Canal Powerhouse were expected to be commissioned in October and December 1957.

The balance of four generators in the two Powerhouses will be installed later.

On the northern side of the Project, it is initially proposed to have one Powerhouse near the Dam with 4 generators of 9,000 kW capacity each. It is also proposed to develop later Powerhouses along the Canal.

The expenditure on the northern side of the river will be borne solely by the Government of Mysore.

The expenditure on the southern side for the works executed by the Tungabhadra Board, will be shared between the Governments of Andhra Pradesh and Mysore State in the following ratio tentatively.

	ANDHRA PRADESH	*MYSORE STATE*
Headworks and Low Level Canal.	5	4
High Level Canal	65	35
Hydro Electric Scheme	80	20

The expenditure on the works which are being executed by the Board is as indicated below:

Headworks and Low Level Canal: Rs. 21·5 Crores. Hydro Electric Scheme: Rs. 7·5 Crores. High Level Canal: Rs. 14 Crores (Approx.).

The Tungabhadra Dam proper was completed early in 1953 except for the installation of spillway gates in the spillway section. This work has also been almost completed by now and only minor items of work like the construction of utility tower remains to be completed.

The water for irrigation on the northern side Canal, and on the Low Level Canal on the southern side has been supplied from 1st July, 1953.

Work on the northern side Canal in its length of 125 miles is in progress, about 50% of the work having been completed; the balance is expected to be completed by 1959.

Work on the Low Level Canal with entire length of 223 miles, is as already mentioned fully completed.

Work on the Powerhouses on the southern side of the project the Dam Powerhouse, has been completed and work on the Canal Powerhouse was expected to be completed by end of 1957. The transmission system on the northern side is completed, while work has commenced on the construction of the Powerhouse at dam-site.

The preliminary work on the High Level Canal Scheme has been taken up. The actual execution of works was expected to be taken up only on receipt of specific sanction from the Government of India.

The Dam will help in raising food production by 140,000 tons.

Kosi Project (Bihar).—The Kosi project envisages the construction of a dam of the unprecedented height of 785 feet above rock foundations on the Kosi River, a mile upstream of Barahkshetra temple in Nepal, where the Kosi leaves the hills, for flood control, power, irrigation, navigation, soil conservation, silt control, fish culture and recreation, etc. The total scheme was to cost Rs. 177 crores.

The present scheme estimated to cost Rs. 45·91 crores was prepared by the Central Water & Power Commission in November 1953.

The Project consists of four different units as follows:—

(*a*) Unit I—Hanumannagar Barrage and Head Works: This is estimated to cost Rs. 17·02 crores. The barrage is to be constructed about 30 miles below Chatra in Nepal where the river debouches into the plains from the gorge. It consists of a main spillway 4,163 ft. long, a diversion spillway 474 feet long, with earth dams about 12,000 feet each on both the flanks connected to two Afflux Bunds 8 miles each on either banks of the river. The functions of the barrage are (*i*) to arrest coarse silt and flatten the gradient of the river above (*ii*) to act as a safety valve during abnormal floods when 50,000 cusecs will be let down into old Kosi Dhars (*iii*) to provide for irrigation of 14 lakh acres and (*iv*) to develop power that is possible with the available head. (The earthquake safety factor adopted in the design of the Barrage is ·15 g horizontal and ·10 g vertical.)

(*b*) Unit II—Flood Banks and Protective Measures: The estimated cost for this is Rs. 13·57 crores involving construction of 75 miles of embankment on the western side below barrage and 63 miles on the eastern side. Besides, a flood bank of 12 miles above the East Afflux Bund in continuation is also provided. The purpose is to restrict the flood waters between the the embankments, thus preventing the usual spill, and also to stop further westward translation of the river Kosi.

(*c*) Unit III—Eastern Kosi Canal System: The canal system at an estimated cost of Rs. 14·00 crores is proposed to have an annual irrigation of about 14 lakh acres in the districts of Purnea and Saharsa.

(*d*) Unit IV—Hydro Electricity: A provision of Rs. 1·32 crores has been made for this. It is expected about 20,000 kW can be generated, but the exact scheme is yet to be finalised.

The work on the project is to be implemented by the Government of Bihar. The Central Government will render necessary technical assistance.

The flood banks were taken up for construction first and work near Nirmali on the western embankment was inaugurated by the Chief Minister of Bihar on 14th January 1955. The work on the eastern embankment near Supaul was commenced on 3rd February 1955.

The work on the embankment which was done by the local villagers and the Bharat Sewak Samaj was completed upto about 85 per cent towards the end of March 1957. The remaining 15 per cent had to be done during the season commencing from October 1957.

Koyna Hydro-electric Project (Bombay).—The Koyna Project contemplates the construction of a dam across the Koyna River at Jaikwadi near Helwak in North Satara Dt. The scheme is ultimately capable of generating 580,000 kW of firm power at about 75 per cent load factor. The scheme is estimated to cost Rs. 92 crores.

In the first stage four units of 60,000 kW will be erected at a cost of Rs. 33·32 crores.

The dam will be 208 ft. to start with. Later it will be raised to 268 ft. The powerhouse will be built under-ground on the western slope of the ghats.

The project was part of the First Five-Year Plan, and generation of power is expected to start in October, 1960.

Preliminary work on stage I has been completed. The powerhouse has started supplying power to the works site and colonies.

Rihand (Pipri) Dam and Power Station Project (Uttar Pradesh).—This Project is proposed to impound 8·6 million acre feet of water by a 296 feet high dam across the river Rihand, a tributary of the Sone, near the village of Pipri in Mirzapur Dt. The powerhouse will

have five generating sets of 50,000 kW. each and a total installed capacity of 250,000 kW. It will also bring under irrigation about 14 lakh acres of land in U.P. and about 5 lakh acres in Bihar by means of about 4,000 tube-wells.

The estimated cost of the scheme including transmission and transformation, is about Rs. 45·27 crores.

The project is under construction and is expected to be completed in 1961.

Nagarjuna Sagar Project (Andhra).—The project in its first stage comprises the construction of a masonry dam 302 feet high above the foundation level, across the Krishna river near Nandikonda village in Nalgonda District, about 90 miles below Siddeswaram, and two canals taking off from the reservoir, known as the left and the right bank canals. The dam is situated about ten miles from Macherla railway station. Large areas extending between the Krishna and the Godavari in the north and the Krishna and the Pennar in the south can be commanded by the reservoir.

The right bank canal which will be 135 miles long will carry a discharge of 11,000 cusecs in the first stage. The left Bank Canal will be 108 miles long and will lead up to the river Muneru in the first stage.

Work was started in Dec. 1956, and the project will take nine years to complete.

The cost of the first Stage of the project, namely, construction of the dam and the two canals is estimated to be about Rs. 86·57. crores. The total area to be benefited by the project will be 20·6 lakh acres of land spread over the districts of Guntur, Kurnool, Nellore, Warangal and Nalgonda.

The second Stage of the project which will be taken up later will provide for the generation of electric power of 75,000 kW capacity.

Chambal Project, Stage I (Madhya Pradesh and Rajasthan).

The full development consists of :—

(*a*) Three dams across the Chambal River with a power-station at each dam site.

(*b*) High tension transmission lines for power transmission to various sub-stations in Madhya Pradesh and Rajasthan.

(*c*) A barrage across the river near Kota city to divert the water from the storage and power dams into irrigation canals.

(*d*) A net-work of irrigation channels on either bank of river fed from the Kota barrage.

The original estimated cost of the whole scheme was Rs. 77·15 crores and the scheme was expected to generate 2,20,000 kW of hydro-electric power, and irrigate 14 lakh acres of land annually in Madhya Pradesh and Rajasthan.

The scheme was proposed to be taken up in three stages, keeping in view the immediate demand for irrigation and a gradual development of power demand. The details of the stages namely the achievements upto September 1957 are as under :—

STAGE I.

The first stage envisages the construction of Gandhi Sagar Dam with power station, Kota Barrage and Canal system. The stage is estimated to cost Rs. 49·49 crores and the details in brief on each of these items are as under :—

The Gandhi Sagar Dam which is situated at a distance of 4·5 miles down stream of the Chaurasigarh Fort is being constructed at the boundry of Rajasthan and Madhya Pradesh States to create a reservoir having a gross capacity of 5·73 million acres feet at the cost of Rs. 8·90 crores. Nearly 91 per cent of excavation for foundation and 45 per cent of Masonry and concrete work on this irrigation-cum-power dam have been completed at an expenditure of Rs. 5·78 crores. The Gandhi Sagar Power station which is estimated to cost Rs. 5·00 crores is another work which will generate nearly 92,000 kW of hydro electric power on completion.

The excavation work on this power station has already been completed and nearly 40 per cent work of masonry and concrete is still to be completed. The total expenditure incurred so far is Rs. 0·62 crores.

Kota Barrage which is situated about 52 miles down stream of Gandhi Sagar Dam and about half a mile above the Kota city, is being constructed by the Rajasthan Government to store the released water from the dams and to divert this water into Irrigation Canals. The construction work on this Barrage, which will be 1,970 ft. long and 120 ft. high, is in progress and nearly 85%, 77% and 15% of rock cutting, stone masonry and concreting work respectively have been completed at an expenditure of Rs. 1·44 crores. The total estimated cost for this work is Rs. 3·07 crores.

The two canals namely Right Main Canal and Left Canal which have the gross commanded area of 24·03 lakh acres and 4·81 lakh acres to provide the annual Irrigation of nearly 11·4 lakh acres and 2·6 lakh acres respectively, take off from Kota Barrage. The construction work on these Canals is in progress and 94 per cent, 68 per cent and 68 per cent of rock cutting, masonry and concrete and earth work have been completed in case of left canal and in case of right main canal 64 per cent, 35 per cent and 48 per cent work of the same type has been done so far in Rajasthan portion. In Madhya Pradesh 37 per cent of Rock Cutting, 6 per cent of Masonry and Concrete and 16 per cent of Earth work have been completed on right main canal. The total expenditure of Rs. 5·33 crores (Rs. 2·44 crores for Rajasthan and Rs. 2·89 for Madhya Pradesh) has been incurred so far as against the total estimated cost of Rs. 22·52 crores.

The works are already in progress and are expected to be completed by 1962-63.

STAGE II.

(*a*) Construction of the Rana Pratap Sagar Dam and the Bhopal Power-Station below it to generate 90,000 kW of power at 60 per cent load factor, and suitable extension of transmission lines and sub-stations at an estimated cost of Rs. 17·66 crores. These works were expected to be started in 1957-58 and completed in 1963-64. This will enable irrigation of a further 3 lakh acres in addition to the generation of extra power.

STAGE III.

This caters for a further development of hydro-electric power by building the Kota Dam about 10 miles up-stream of the Kota Barrage with a power station to generate 45,000 kW of power at 60% load factor, and a further extension of transmission lines, etc., at an estimated cost of about Rs. 10 crores. The work on these items has not been taken up so far.

Progress of Multi-Purpose Projects

	Outlay		Irrigation Projects
Bhakra-Nangal ..	Rs. 85·7 crores during plan.	Rs. 25·5 crores before plan.	1·18 million acres (additional) irrigated. Total capacity 3·6 million acres.
D.V.C.	Rs. 71 crores during plan.	Rs. 15·5 crores before plan.	Available for 1 lakh acres (additional). Total capacity 1,026,000 acres.
Hirakud.	Rs. 44·6 crores during plan.	Rs. 7·8 crores before plan.	261,000 acres (additional). Total capacity 672,000 acres.
New Projects ..	18·12 crores.		

MINOR IRRIGATION

As a result of the schemes executed during the First Five-Year Plan, about 9·4 million acres have been or are being brought under irrigation against the five-year programme of 11·2 million acres.

The target of area proposed to be brought under irrigation by minor irrigation works completed during 1955-56 was fixed at 2·9 million acres. It was expected that most of the minor irrigation works executed or undertaken during the second half of the year 1955-56 would benefit the crops during 1956-57. Only a small proportion of works constructed before 1st Oct. 1955 would provide irrigation facilities for the rabi crops of 1955-56. It was estimated that about 0·6 million acres might be benefited during 1955-56.

About 0·8 million acres were expected to be benefited under special tubewells programme up to the end of 1955-56.

Minor irrigation projects like dams, channels, etc. brought under irrigation 4·00 million acres of new land during the five years of the Plan. About 0·90 million acres were benefited by the well schemes during this period.

1956-57

The target for 1956-57 and the achievement in the period July to March 1956-57 :

	*Targets**		*Achievements**	
	Number	*Acreage*	*Number*	*Acreage*
Construction and repair of wells.. ..	30,000	232,000	11,148	55,740
Construction and repair of tanks ..	778		710	35,500
Pumping installation including Persian wheel, etc.	9,000	82,000	5,448	13,620
Tubewells (G.M.F.)	153		154	61,000
Miscellaneous minor irrigation projects (*viz.* Dams, Channels and Distributaries, etc.)	—	977,000	—	125,193
Total programme :		1,600,000		291,634

*Subject to revision.

SECOND FIVE-YEAR PLAN

The total cost of the new irrigation projects in the Second Plan is Rs. 452 crores of which about Rs. 167 crores are expected to be spent during the Plan period.

The total provision for major and medium works is Rs. 381 crores (Rs. 167 crores for new schemes, Rs. 214 crores for continuing the schemes of the First Plan).

The Plan provides for 195 new medium irrigation projects.

During the Second Five-Year Plan 21 million acres of land are expected to receive irrigation, 12 million acres from large and medium irrigation schemes and 9 million acres from minor irrigation works.

The provision for minor irrigation is made in part in the agricultural programmes of States and in almost equal part in the national extension and community development programmes.

The former includes also provision for about a million acres of land to be irrigated from State tube-well schemes.

Prior to the First Plan, 2,500 tube-wells irrigated about one million acres in the country.

The First Plan provided for the construction of an additional 5,830 tube-wells to irrigate about 2 million acres.

The Second Plan provides for the construction of another 3,581 tube-wells to irrigate 916,000 acres.

Each tube-well will irrigate 300 acres of land and give an additional production of 60 tons of food grains.

AREA IRRIGATED, 1954-55.

(In Thousand acres)

STATES AND TERRITORIES	Food-grains	Non-food-grains	Total
STATES			
Andhra Pradesh	6,751	712	7,463
Assam	1,449	84	1,533
Bengal (West)	2,621	181	2,802
Bihar	3,725	245	3,970
Bombay	2,501	1,264	3,765
Jammu & Kashmir	648	96	744
Kerala	793	322	1,115
Madhya Pradesh	1,802	305	2,107
Madras	6,317	1,001	7,318
Mysore	1,331	408	1,739
Orissa	2,010	214	2,224
Punjab	5,505	3,445	8,950
Rajasthan	2,819	906	3,725
Uttar Pradesh	10,964	2,653	13,617
TOTAL STATES	49,236	11,836	61,072
TERRITORIES			
Andaman & Nicobar Islands	–	–	–
Delhi	70	28	98
Himachal Pradesh	155	9	164
Laccadive, Minicoy and Amindivi Islands	–	–	–
Manipur	(a)	(a)	(a)
Tripura	–	–	–
TOTAL TERRITORIES	225	37	262
TOTAL INDIA	49,461	11,873	61,334

(a) Below 500 acres.

NET AREA IRRIGATED BY SOURCES, 1954-55.

The following table gives the figures in thousand acres:

STATES AND TERRITORIES	Government Canals	Private Canals	Tanks	Wells	Other Sources	Total
STATES						
Andhra Pradesh	2,999	70	2,451	737	206	6,463
Assam (A)	178	721	–	–	634	1,533
Bengal (West)	425	849	952	39	465	2,730
Bihar	748	302	580	451	1,889	3,970
Bombay	570	57	534	2,099	94	3,354
Jammu & Kashmir	167	519	2	6	20	714
Kerala	325	68	91	28	312	824
Madhya Pradesh	942	(a)	333	697	97	2,069
Madras	1,922	3	2,166	1,122	104	5,317
Mysore	357	19	797	311	195	1,679
Orissa	482	71	576	87	688	1,904
Punjab	5,123	141	14	2,803	43	8,124
Rajasthan	621	–	359	2,039	37	3,056
Uttar Pradesh	4,453	48	1,028	6,095	708	12,332
TOTAL STATES	19,312	2,868	9,883	16,514	5,492	54,069
TERRITORIES						
Andaman & Nicobar Islands	–	–	–	–	–	–
Delhi	44	–	6	48	–	98
Himachal Pradesh	–	–	–	(a)	95	95
Laccadive, Minicoy and Amindivi Islands	–	–	–	–	–	–
Manipur	–	–	–	–	(a)	(a)
Tripura	–	–	–	–	–	–
TOTAL TERRITORIES	44	–	6	48	95	193
TOTAL INDIA	19,356	2,868	9,889	16,562	5,587	54,262

(A) Includes North-East Frontier Agency.

(a) Below 500 acres.

GROSS IRRIGATED AREA BY CROPS, 1954-55.

The following table gives the figures in thousand acres:

STATES AND TERRITORIES	Rice	Jowar	Bajra	Maize	Ragi	Wheat	Barley	Other Cereals and Millets	Total Cereals and Millets
STATES									
Andhra Pradesh	5,968	34	160	67	420	10	7	63	6,729
Assam (A)	1,433	–	–	(a)	–	–	–	–	1,433
Bengal (West)	2,477	(a)	–	11	–	40	3	–	2,531
Bihar	3,294	–	–	4	–	221	73	–	3,592
Bombay	828	571	164	38	5	724	20	2	2,352
Jammu & Kashmir	452	(a)	1	50	–	67	15	39	630
Kerala	770	2	–	–	(a)	–	–	(a)	772
Madhya Pradesh	1,139	(a)	(a)	5	–	410	120	2	1,676
Madras	4,973	442	290	12	408	1	(a)	103	6,289
Mysore	1,102	60	5	19	85	22	8	4	1,305
Orissa	1,912	1	(a)	4	16	7	–	2	1,942
Punjab	473	164	279	453	1	2,540	182	4	4,096
Rajasthan	20	58	92	340	–	1,075	878	12	2,475
Uttar Pradesh	913	48	22	384	29	4,593	2,354	78	8,421
TOTAL STATES	25,754	1,380	1,013	1,393	1,024	9,710	3,660	309	44,243
TERRITORIES									
Andaman & Nicobar Islands	–	–	–	–	–	–	–	–	–
Delhi	2	7	4	2	–	44	4	(a)	63
Himachal Pradesh	54	–	–	19	3	56	11	8	151
Laccadive, Minicoy and Amindivi Islands	–	–	–	–	–	–	–	–	–
Manipur	(a)	–	–	–	–	–	–	–	(a)
Tripura	–	–	–	–	–	–	–	–	–
TOTAL TERRITORIES	56	7	4	21	3	100	15	8	214
TOTAL INDIA	25,810	1,387	1,017	1,414	1,027	9,810	3,675	317	44,457

(A) Includes North-East Frontier Agency.

(a) Below 500 acres.

GROSS IRRIGATED AREA BY CROPS, 1954-55—*contd.*

(In Thousand acres)

STATES AND TERRITORIES	Gram	Tur	Other Pulses	Total Pulses	Total Food grains	Sugar-cane	Other Food Crops	Total Food Crops	Cotton	Non-food crops other than Tobacco and Fodder	Total non-Food Crops	Total all Crops
STATES												
Andhra Pradesh	1	1	20	22	6,751	173	244	7,168	3	292	295	7,463
Assam (A)	–	1	15	16	1,449	–	2	1,451	–	82	82	1,533
Bengal (West)	–	–	90	90	2,621	23	129	2,773	–	29	29	2,802
Bihar	–	–	133	133	3,725	72	166	3,963	–	7	7	3,970
Bombay	126	9	14	149	2,501	240	547	3,288	93	384	477	3,765
Jammu & Kashmir	2	(a)	16	18	648	1	32	681	1	62	63	744
Kerala	–	–	21	21	793	11	206	1,010	–	105	105	1,115
Madhya Pradesh	95	(a)	31	126	1,802	66	191	2,059	12	36	48	2,107
Madras	(a)	2	26	28	6,317	122	297	6,736	239	343	582	7,318
Mysore	2	11	13	26	1,331	112	122	1,565	15	159	174	1,739
Orissa	1	3	64	68	2,010	46	99	2,155	5	64	69	2,224
Punjab	1,270	(a)	139	1,409	5,505	318	220	6,043	1,149	1,758	2,907	8,950
Rajasthan	326	(a)	18	344	2,819	51	226	3,096	265	364	629	3,725
Uttar Pradesh	1,100	5	1,438	2,543	10,964	1,564	445	12,973	88	556	644	13,617
TOTAL STATES	2,923	32	2,038	4,993	49,236	2,799	2,926	54,961	1,870	4,241	6,111	61,072
TERRITORIES												
Andaman & Nicobar Islands	–	–	–	–	–	–	–	–	–	–	–	–
Delhi	5	(a)	2	7	70	5	10	85	(a)	13	13	98
Himachal Pradesh	1	–	3	4	155	(a)	5	160	(a)	4	4	164
Laccadive, Minicoy and Amindivi Islands	–	–	–	–	–	–	–	–	–	–	–	–
Manipur	–	–	–	–	–	–	–	–	–	–	–	–
Tripura	–	–	–	–	(a)	–	–	(a)	–	–	–	(a)
TOTAL TERRITORIES	6	(a)	5	11	225	5	15	245	(a)	17	17	262
TOTAL INDIA	2,929	32	2,043	5,004	49,461	2,804	2,941	55,206	1,870	4,258	6,128	61,334

(A) Includes North-East Frontier Agency.

(a) Below 500 acres.

FINANCE

The following table shows the budget estimates of the Government of India for 1958-59 at a glance:

REVENUE (IN LAKHS OF RS.)

	Budget 1957-58	Revised 1957-58	Budget 1958-59
Customs	167,60	183,00	170,00
Union Excise Duties	259,57	264,55	301,93 +2,83 *
Corporation Tax	50,50	50,50	55,50
Taxes on Income other than Corporation Tax	89,92	82,47	84,53
Estate Duty	9	12	12
Taxes on Wealth	12,50	9,00	12,50
Taxes on Railway Fares	..	3	7
Taxes on Expenditure	..	..	3,00
Taxes on Gift	..	..	3,00*
Opium	2,50	3,28	2,87
Interest	4,90	6,15	6,60
Civil Administration	43,21	56,79	44,24
Currency and Mint	36,02	36,84	36,62
Civil Works	2,95	2,78	2,87
Other Sources of Revenue	27,65	21,56	32,93
Posts and Telegraphs—Net Contribution to General Revenues	3,95	1,23	2,34
Railways—Net Contribution to General Revenues	6,67	6,33	7,04
TOTAL REVENUE	708,03	724,63	763,16 +5,83 *

HEADS OF REVENUE

Here are some heads of revenue not shown above or not shown separately (figures in lakhs of rupees):

Land revenue 52; State excise duties 166; Stamps 293; Forest 257; Registration 9; Taxes on Vehicles 34; Sales tax 180; Other taxes and duties 49; Posts & telegraphs (gross) 63,64; Administration of Justice 10; Jails and convict settlements 1; Police 35; Ports and Pilotage 41; Lighthouses and Lightships 48; Education 32; Medical 20; Public Health 22; Agriculture 79; Veterinary 18; Co-operation 2; Aviation 90; Broadcasting 178; Miscellaneous departments 349; Currency 32,37; Mint 425; Multi-purpose River scheme 1; Electricity Schemes 1; Receipts in aid of Superannuation 73; Stationery & Printing 29; Road and Water Transport Schemes (Gross) 57; Defence Receipts (effective) 13,56; Defence Receipts (non-effective) 9.

HEADS OF EXPENDITURE

Here are some heads of expenditure not shown in the table below or not shown separately (figures in thousands of rupees):

Civil works 17,75,51; Multi-purpose river schemes 90,23; Famine 25; Territorial & Political pensions 22,09; Privy purses and allowances to Indian rulers 5,46,75; Superannuation allowances & pensions 3,71,27; Army 1,72,04,30; Navy 16,61,98; Air Force 88,54,65; Defence Services (non-effective) 14,57,99; Grants-in-aid to States 46,96,70; Miscellaneous adjustments between Union and State Governments 6,66; Extraordinary charges 14,00,00; Community Development Projects 14,01,64; Civil Defence 94; Pre-partition payments 37,27.

DEMANDS FOR GRANTS

Below are some Demands for Grants and Appropriations (figures are in thousands of rupees):

Posts and Telegraphs Department 66,14,15; Meteorology 1,61,46; Overseas Communications Service 1,23,76; Aviation 3,79,52; Archaeology 1,09,70; Other Scientific Departments 56,67; Education 25,37,10; Tribal areas 8,02,99; External Affairs 8,78,80; Territorial and Political Pensions 22,09; Forest 2,56,20; Agriculture 15,72,50; Civil Veterinary Services 1,48,25; Medical Services 5,18,73; Public health 14,06,97; Cabinet 35,34; Police 4,93,68; Census 8,34; Andaman and Nicobars 2,77,91; Broadcasting 4,01,00; Survey of India 1,71,11; Botanical Survey 12,50; Zoological Survey 11,87; Scientific Research 6,38,98; D.P.'s 20,48,25; Ports and Pilotage 62,10; Lighthouses and Lightships 1,38,90; Central Road Fund 4,28,99; Communications (including national highways) 6,03,69; Stationery and Printing 7,19,67; Parliament 1,40,21; Secretariat of Vice-President 59; Staff, Household and allowances of President 18,37; Union Public Service Commission 42,05.

EXPENDITURE (IN LAKHS OF RS.)

	Budget 1957-58	Revised 1957-58	Budget 1958-59
Direct Demands on Revenue	46,00	62,97	94,45
Irrigation	10	10	13
Debt Services	35,00	37,44	40,00
Civil Administration	191,02	194,71	200,44
Currency and Mint	6,72	7,35	8,50
Civil Works and Miscellaneous Public Improvements	15,93	16,23	18,71
Pensions	9,17	9,36	9,40
Miscellaneous—			
Expenditure on Displaced Persons	22,50	22,33	20,48
Other Expenditure	44,06	42,63	50,33
Grant to States, etc.	25,23	47,26	47,03
Extraordinary Items	23,86	13,15	28,30
Defence Services (Net)	252,70	266,05	278,14
TOTAL EXPENDITURE	672,29	719,58	796,01
SURPLUS (+)	+35,74	+5,05	−27,02
DEFICIT (−)			

* Effect of budget proposals.

SOURCES OF REVENUE AND EXPENDITURE

The principal sources of Central revenue are: customs duties, excise duties levied by the Central Government, corporation tax, income tax (excluding taxes on agricultural income), estate and succession duty, the earnings from the mints, terminal taxes on goods or passengers carried by railway, sea or air, taxes on railway fares and freights, taxes (other than stamp duty) on transactions in stock exchange and future markets, stamp duty on bills of exchange, cheques, bills of lading, letters of credit, insurance policies, transfer of shares, etc., taxes on sale and purchase of newspapers and on advertisements in newspapers.

The railways and the posts and telegraphs contribute to the Central revenues. There are also the profits on the Government industrial undertakings.

About as much as 90 per cent of the revenue is derived from the customs, excise duties, corporation and income taxes.

The principal sources of revenue for the individual States are: State taxes (on agricultural income, lands and buildings, minerals rights, consumption or sale of electricity, sale or purchase of goods other than newspapers, advertisements other than in newspapers, goods and passengers carried by road or on inland water-ways, vehicles, animals, boats, tolls, professions, trades, luxuries, amusements), capitation taxes, stamp duties, excise duties on alcoholic liquors, opium and other narcotics.

A point about the Sales Tax is worth mentioning here. The Union has the power of declaring any commodity as essential for the life of the community and thereby vetoing any sales tax levied on it by a State Government. This power comes from the Essential Goods Act of 1952.

Then there are the subventions from the Central Government. Part of the proceeds of the income-tax are distributed among the States. The jute growing States get part of the proceeds from the export duty on jute. There are also special grants which are made to certain States.

Collection and appropriation of taxes are not always vested in the same authority. Some taxes are levied by the Central Government but collected and appropriated by the States (stamp duties, excise duties, duties on medicines and toilet preparations). Some are levied and collected by the Union but assigned to the States (succession and estate duties on property other than agricultural, terminal taxes on passengers, railway fares, freights, stock exchange, future markets, newspapers or advertisements). Corporation tax is collected and retained by the Union, but taxes on other incomes are levied and collected by the Union and distributed between the Union and States.

The two biggest items of expenditure of the Central Government are outlay on development programmes (capital account) and defence.

Three important heads of expenditure of the States under the revenue account are: irrigation, security and social services.

Then there is public debt, now almost wholly internal—the rupee debt. This may be divided into three classes, long term loans and money market liabilities, the unfunded debt which includes provident funds, postal deposits, saving certificates, and last the deposits.

CAPITAL TRANSACTIONS

Receipts are as follows (in lakhs of rupees):

	Revised 1957-58	Budget 1958-59
New Loans	2,14,24	4,29,76
Net Receipts from:		
Treasury Bills	3,80,00	2,05,00
Treasury Savings Deposit Certificates	5,20	17,20
Post Office Savings Bank	18,00	25,20
12-Year National Plan Saving Certificates	62,00	86,00
Cumulative Time Deposits	—	2,50
Post Office Cash Certificates	— 95	— 90
National Savings Certificates	— 22,10	— 26,57
Defence Savings Certificates	— 5	— 3
National Plan Certificates	— 2,50	— 4,50
Other Unfunded Debt	18,90	19,53
Railway Depreciation Fund, Revenue Reserve Fund (Railways), Railway Development Fund	— 11,58	— 28,44
Telephone Development Fund	25	— 1,15
P. & T. Renewals Reserve Fund	1,58	1,45
Appropriations for Reduction or Avoidance of Debt	— 66	— 50
Income-tax Deposits (net)	5,00	5,00
Discount Sinking Fund (net)	3,48	6,83
Payment by Reserve Bank for Rupee Coin	63	1,73
Repayment of Loans by States	5,00	5,00
Other Loan Repayments	94,30	62,22
Other Deposits and Advances (net)	16,95	12,47
15-Year Annuity Certificates	92,47	71,60
Inter-State Debt Settlement—India, Burma	50	1,65
Total	8,80,66	8,90,65
Deficit on Capital Account	5,54	—
	8,86,20	8,90,65

Disbursements are as follows (in lakhs of rupees):

	Revised 1957-58	Budget 1958-59
Capital Outlay:—		
Railways	1,38,47	1,38,84
Irrigation	13	19
Posts & Telegraphs	11,01	10,82
Schemes of Agricultural Improvement and Research	1,67	1,79
Industrial Development	1,52,26	1,93,09
Aviation	2,82	3,29
Broadcasting	1,02	1,15
Ports	3,70	3,93
Currency & Coinage	— 22	69
Mint	48	46
New Capital at Delhi	7,38	6,45
Multi-purpose River Schemes	3,30	4,22
Electricity Schemes	27	54
Civil Works	16,22	15,28
Commutation of Pensions	— 35	— 33
Sterling Pensions	— 8,85	— 24,89
Defence Capital Outlay	24,93	27,00
Schemes of Government Trading	44,15	2,91
Development Grants	10,31	8,69
Displaced Persons	15,54	13,33
Dandakaranya Development Scheme	25	3,00
Shipping Tankers	1,23	58
Transfer of Development Assistance from U.S. Government	35,02	78,47
Other Works	83	1,50
Other Civil Heads	25	35
Discharge of Permanent Debt	72,77	28,15
Discharge of Special Floating Debt	4,80	3,43
Advance to State Governments	2,82,83	2,79,32
Other Loans and Advances	62,53	55,60
Inter-State Debt Settlement	1,45	12
Total	8,86,20	8,57,97
Surplus on Capital Account	—	32,68
	8,86,20	8,90,65

SPECIFIC ALLOTMENTS

The following specific allotments for 1958-59 may be noted (figures in lakhs of rupees):

	Budget 1958-59
Council of Scientific and Industrial Research	175·00
Salt Works	20·00
Hindustan Shipyard Ltd.	52·00
Hindustan Steel Ltd.	157,88·50
Overseas Communications Service	25·00
Eastern Shipping Corporation	52·06
Air Corporation (Indian Air Lines)	322·80
Air Corporation (Air India International)	210·13
Oil Exploration Scheme	216·54
Hindustan Insecticides Ltd.	3·00
Hindustan Antibiotics Ltd.	1·00
Thorium Uranium Plant	2·30
Pilot Plant at Ghatisila	2·20
Acquisition of Land for Atomic Energy Establishment	10·00
Atomic Reactor	93·00
Buildings for the Atomic Energy Establishment	102·06
Zerlina Reactor	50·00
"Apsara" Reactor	0·50
Other Development Expenditure of Atomic Energy Establishment	50·00
Uranium metal processing plant	16·00
State Trading Corporation	250·00
Handicrafts Corporation	10·00
Hindustan Heavy Engineering Corporation	75·20
Equipment for School of Mines and Applied Geology	5·00
National Projects Construction Corporation	25·00
Bolani Ores (Private) Ltd.	40·40
Fourth Steel Plant	50·00
Oil India (Private) Ltd.	10·00
Singareni Collieries Ltd.	30·00
National Coal Development Corporation	50·00
Diesel Engine Factory	0·01
Dry Freeze Vaccine Laboratory	1·00
Mysore Iron & Steel Corporation	1·00
Institute of Small-scale Industries	9·80
Purchase of Shares in Orissa Mining Corporation	2·50
Two Coal Washeries	100·00
Establishment of Second Shipyard	2·00
Purchase of Shares in Neyveli Lignite Corporation	699·99
Purchase of Shares in Nangal Fertilizers and Chemicals Ltd.	404·96
Purchase of Shares in Heavy Electricals (P.) Ltd.	100·00
Western Shipping Corporation	250·00

DEBT POSITION

At end of 1957-58: Rs. 33,50 crores.

At end of 1958-59: Rs. 39,55 crores.

A broad analysis is given below (figures in rupees crores):

	As on March 31, 1958	As on March 31, 1959
Rupees Loans:		
Current Loans	17,01·25	18,26·79
Treasury Bills and Ways and Means Advances	12,15·70	14,20·70
Special Floating Loan	2,07·80	2,04·37
Expired Loans	13·98	14·94
Total	31,38·73	34,66·80
Sterling Loans:		
Current Loans	0·55	0·15
War Contribution	20·62	20·62
Capital portion of Railway Annuities	0·48	—
U.K. Syndicate of Banks	0·67	0·67
Expired Loans	0·03	0·03
Total	22·35	21·47
Dollar Loans	1,59·85	3,61·68
Loan from U.S.S.R.	15·30	45·98
Loans from W. Germany	14·00	44·00
Loans from other Foreign Sources	—	15·13
Grand Total	33,50·23	39,55·06

INTEREST-BEARING OBLIGATIONS AND INTEREST-YIELDING ASSETS

The obligations are as follows (figures in rupees crores):

	Revised 1957-58	Budget 1958-59
IN INDIA :		
Public Debt.—		
Loans	17,01·25	18,26·79
Treasury Bills and Ways and Means Advances	12,15·70	14,20·70
Total public debt (India)	29,16·95	32,47·49
Unfunded Debt.—		
Service Funds	0·27	0·25
P.O. Savings Bank Deposits	340·28	365·28
P.O. Cash and Defence Savings Certificates	1·66	0·66
National Savings Certificates	216·52	190·02
National Plan Certificates	22·88	18·38
State Provident Funds	195·26	213·97
Ten-Year Treasury Savings Deposit Certificates	49·61	66·61
Cumulative Time Deposits	—	2·50
12-Year National Plan Savings Certificates	62·00	148·00
Other items	15·49	16·33
Total Unfunded Debt (India)	9,03·97	10,22·00
Deposits.—		
Depreciation, Development and Reserve Funds	1,66·68	1,38·04
Other deposits	17·06	23·86
Total deposits (India)	1,83·74	1,61·90
Total obligations in India	40,04·66	44,31·39
IN ENGLAND :		
Public Debt.—		
Loans	0·55	0·15
War contribution	20·62	20·62
U.K. Syndicate of Banks	0·67	0·67
Capital portion of railway annuities in purchase of railways	0·48	—
Total public debt (England)	22·32	21·44
DOLLAR LOANS	1,59·85	3,61·68
LOAN FROM U.S.S.R.	15·30	45·98
LOAN FROM W. GERMANY	14·00	44·00
LOAN FROM OTHER FOREIGN SOURCES	—	15·13
Total interest-bearing obligations	42,16·13	49,19·62

Assets

The interest-yielding assets are as follows (figures in crores of rupees):

Capital advanced to Railways	12,15·70	13,54·54
Capital advanced to other commercial departments	1,64·88	1,86·08
Investments in commercial concerns	2,74·39	4,67·28
Capital advanced to States	11,85·11	14,02·21
Other interest-bearing loans	1,99·40	2,42·53
Deposits with U.K. for redemption of Railway annuities	0·48	—
Purchase of annuities for sterling pensions	55·91	33·97
Debt due from Pakistan	3,00·00	3,00·00
Total interest-yielding assets	33,95·87	39,86·61
Cash and securities held on Treasury account	50·75	50·75
Balance of total interest-bearing obligations not covered by above assets	7,69·51	8,82·26

CENTRAL HELP TO STATES

The following allotments to States are provided for in the 1958-59 budget (figures in lakhs of rupees):

Share of taxes and duties: 157,47

Grants and subventions from revenue: 128,63

Grants and subventions from capital: 17,46

Loans: 284,51

Grand total of allotments to States: 588,07

Lump sum grants to States are as follows (figures in lakhs of rupees):

Grow More Food 2,60; Community Projects 3,31; National Extension Services 8,50; Basic and Social Education 6,93; Welfare of Backward Classes 5,02; Key Village 53; Improvement of land records and agricultural statistics 7; Soil Conservation 93; Higher agricultural education 4,82; National malaria control 5,44; Industrial Housing 2,73; Local works 4,00; Central Road Fund 5,66; Total lump sum grants and subventions 1,46,09.

Lump sum loans as follows:

Irrigation 70,12; Miscellaneous Development 32,63; Grow More Food 36,05; Rehabilitation 8,34; Industrial Housing 12,60; Community Development Projects 9,22; Natural Calamities 1,00; Handloom and Small-scale Industries 6,19; Other loans 108,36; Total loans 284,51.

ALLOTMENTS BY CENTRE STATE-WISE (1957-58)

The following table shows State-wise distribution of income-tax, etc. (figures in lakhs of rupees):

	Income-tax	Union Excise duties	Additional Excise duties	Estate Duty	Tax on Railway Passenger Fares
Andhra Pradesh	6,25	2,77	2,84	18	81
Assam	1,88	1,02	1,02	4	25
Bihar	7,65	3,12	1,87	19	86
Bombay	12,29	3,50	10,84	41	1,49
Kerala	2,80	1,13	1,15	14	16
Madhya Pradesh	5,17	2,20	2,03	12	79
Madras	6,47	2,[illegible]	3,36	30	59
Mysore	3,96	1,92	1,34	11	41
Orissa	2,87	1,32	1,04	7	16
Punjab	3,26	1,35	2,16	9	74
Rajasthan	3,15	1,39	1,19	9	62
U.P.	12,59	4,70	6,79	29	1,72
W. Bengal	7,76	2,24	3,34	33	58
Jammu & Kashmir	87	52	50	2	—

TAX CHANGES

The following are the new tax proposals :

DIRECT TAXATION

Tax on Gifts : The first proposal is to introduce a tax on gifts which will fill a gap in the scheme of direct taxation and would not only make evasion or avoidance difficult but also spread the tax burden more equitably.

The transfer of properties through gifts to one's near relations or associates is one of the commonest forms of avoidance of not only the estate duty but also of Income Tax, Wealth Tax and even the Expenditure Tax. The only way of effectively checking this practice is to levy a tax on gifts. Such a tax is already being levied in other countries, for example U.S.A., Canada, Japan and Australia. The Taxation Enquiry Commission also had accepted the Gift Tax as theoretically an attractive proposition.

A tax is levied on gifts by whomsoever made, the only exceptions being charitable institutions, Government companies, corporations established by Central or State Acts and public companies, whose affairs are controlled by six persons or more. The tax is levied on the donor on the value of all gifts made by him during a year but for the purpose of determining the rate of duty, the gifts made during the four years preceding the year will be aggregated. Such aggregation will, of course, be made only in respect of gifts made after the date this tax comes into force.

Gifts up to a total value of Rs. 10,000 in any one year is exempted and if the value of gifts made during any year exceeds this sum, only the excess is subjected to tax.

This basic exemption of Rs. 10,000 has been reduced to Rs. 5,000 if gifts to any one individual donee during a year exceeds Rs. 3,000. In addition to this basic exemption, there are other exemptions, important among which are :—

(A) Gifts to Central and State Governments, local authorities and charitable institutions;

(B) Gifts to female dependents on the occasion of marriage up to Rs. 10,000 in each case;

(C) Gifts to one's wife up to a total limit of Rs. one lakh ;

(D) Gifts to dependents of policies of insurance up to Rs. 10,000 for each.

The rates of tax are the same as for the Estate Duty, the only difference being that the first slab of Rs. 50,000 is not exempted from the tax. The rates of tax range from four per cent on the first slab to 40 per cent on gifts over Rs. 50 lakhs. The administrative set up and the procedure for assessment, appeal and collection of tax are the same as for Income Tax, Wealth Tax and Expenditure Tax.

The main object of this tax is to plug a loophole in the other tax statutes. Its importance cannot, therefore, be adequately measured in terms of the amount of revenue it brings directly. There are no reliable data for making an estimate of the yield, and on a rough guess the yield from the Gifts Tax has been placed at Rs. three crores.

Estate Duty : The second proposal is to make certain amendments in the Estate Duty Act. The actual collections of Estate Duty have fallen short of even the modest expectation we had at the time of passing that measure. This is partly due to the practice of making large gifts "inter vivos" which will, hereafter be checked by the levy of the Gift Tax.

It is also partly due to the numerous concessions provided in the Act itself, and it is proposed to reduce some of them. The important changes are :

(*a*) The exemption limit has been reduced from Rs. 1,00,000 to Rs. 50,000.

(*b*) Only one-half of the probate duty or court fees paid on succession certificates is allowed as a deduction from Estate Duty instead of the full amount as at present.

(*c*) Gifts to other than those for charitable purposes made within a period of two years prior to death are now subjected to Estate Duty. This period has been increased to five years, as recommended by the Taxation Enquiry Commission. Gifts on which Gift Tax has been paid are not taken into account.

(*d*) The value of coparcenary interest in Hindu undivided families is taxed at the rate applicable to the value of the estate of the branch of the family concerned.

The effect of these changes will be to increase the revenue by Rs. 50 lakhs which will accrue wholly to the States.

The appellate procedure has been brought in line with the provisions in the Income Tax, Wealth Tax and Expenditure Tax Acts.

Income Tax : So far as Income Tax is concerned, no major change in the rate structure has been made. For the financial year 1958-59, the basic rates of tax, together with the special surcharges in operation for the current financial year, will continue. The only change is in regard to the excess dividend super-tax payable by Section 23A companies. At present, the excess dividend tax rates for all companies are 10 per cent, 20 per cent and 30 per cent on the slabs of dividends over 6 per cent, 10 per cent and 18 per cent, respectively, of capital for the financial year 1958-59. The excess dividend tax rates for Section 23A companies has been fixed only in two slabs, 10 per cent on the slab of dividends over 6 per cent of capital and 20 per cent on the slab over 10 per cent of capital. This change is desirable as under the Act these companies are required to distribute the whole or a large proportion of their profits to the shareholders. It is not possible to estimate the loss of revenue in this proposal, but it is likely to be very small.

A change has been made in the substantive Income-Tax Law in regard to "development rebate."

Hitherto, this rebate was allowed uniformly at 25 per cent of the cost of the new machinery or plant and was available for ships as well. While this rate of 25 per cent was adequate for new plant and machinery in general, some further concession was necessary for the shipping industry. The rate of development rebate for ships is raised to 40 per cent. Simultaneously, the conditions for the grant of development rebate has been tightened as some instances of abuse of this concession have come to notice.

In addition to these, the Finance Bill contains some amendments relating to Income-Tax Law, some of which are intended to check evasion while some others are only of a clarificatory nature. To mention the more important of them : The definition of 'technician' is made stricter to ensure that the exemption is not secured to a person who is not legitimately entitled to it. Power has been conferred on the Central Board of Revenue to make rules laying down the basis for valuing perquisites in kind, like rent-free quarters, free use of conveyance, etc., so that some uniformity is secured in the basis of assessment.

Wealth Tax : There is a change in regar to the exemption from tax of payments mad to employees for leave passages. Such exemptio is now granted only if the payments are mad under certain rules framed by the Government This leads to a large volume of administrativ work not commensurate with the results and these rules are proposed to be withdrawn.

In regard to the Wealth Tax, the only change proposed is to exempt a foreign citizen from payment of the tax on his foreign wealth, even though he may be resident or ordinarily resident in India.

This was the intention of the Select Committee when the provisions of the Bill were discussed by them but the intention has not been secured by the language of the provision as it now stands.

INDIRECT TAXATION

Union Excise Duties : In regard to Union excise duties the only major change is the increase in the rate of duty on cement from Rs. 20 per ton to Rs. 24 per ton. This increase will not, however, raise the issue price of cement as it is proposed simultaneously to withdraw the surcharge at present levied by the State Trading Corporation. The additional revenue of Rs. 2·24 crores will be utilised for road development.

Certain minor amendments, mainly of a clarificatory nature, are also being made. Two changes made immediately by notification are : Firstly, for powerlooms producing cotton textiles the concession of paying duty at compounded rates will no longer be available to establishments having more than 100 looms. Simultaneously, the compounded rates applicable to units having 25 to 100 powerlooms are being suitably enhanced in two stages. This would bring in an additional revenue of Rs. 83 lakhs. Secondly, the rate of duty on vegetable products is lowered for the first 3,000 tons cleared by each factory. This would give substantial relief to the smaller producers and will cost the Exchequer Rs. 24 lakhs per annum.

Customs Duties : Coming to customs duties, only a few minor adjustments and verbal changes are made in the tariff schedule to remove some anomalies or doubts. The only change of any significance is the introduction of the alternative *ad valorem* rate of duty in respect of expensive varieties of artificial silk yarn, like nylon, perlon, etc. So far as the other yarns, such as viscose, are concerned, the rate of duty is left unchanged. The financial effect of these changes will be negligible.

NET EFFECT

The net effect of the taxation proposals may now be summarised. The tax on gifts will bring in Rs. 3 crores, the changes in the Estate Duty Rs. 50 lakhs, the increased duty on cement Rs. 2·24 crores and the adjustments in the Excise Duty on cloth Rs. 83 lakhs, a total sum of Rs. 6·57 crores, of which Rs. 50 lakhs will accrue to the States.

The reduction in the Excise Duty on vegetable products will involve a loss of Rs. 24 lakhs leaving the net additional revenue at Rs. 5·83 crores.

LAND REVENUE

The principle underlying the land revenue system in the country has been from time immemorial on the basis that government is the supreme landlord and the revenue derived from land is by way of rent. The official term for the method of collection is "Settlement". These were of three types. The permanent *Zemindari* System was mainly found in the Bengal area, Bihar, the

U.P. and parts of Madras and covered roughly an area of 120 million acres equivalent to 19 per cent. of the total agricultural area of the subcontinent. In the second group were the temporarily settled Zamindars such as *Malguzari*, *Maharwari*, *Khoti*, *Narvadari*, *Bhagdari*, *Inami* and *Talugdari*. These were found mostly in Madhya Pradesh, the Punjab, parts of U.P., the Bengal area and Bombay covering about 30 per cent. of the area of the country. The remaining 51 per cent. or approximately 285 million acres were under the *Ryotwari* system covering parts of Bombay and most parts of Madras, Berar, Assam and the Punjab area.

Most Governments have abolished the *Zamindari* system. To Madras goes the credit of being the first State to put a measure of this kind on the statute book. The Madras Bill received the assent of the Governor-General early in April, 1949. The validity of the Zamindari Abolition Acts was contested in the various State High Courts and the Supreme Court so much so that the Constitution Act itself was amended to make such bills valid.

Land revenue was the mainstay of provincial finance till 1938-39 and still continues to be an important source of revenue.

Following the Planning Commission's recommendations, several State Governments introduced better charges in 1951 on land for which new facilities by way of irrigation were made available.

EXCISE

The excise revenue in the country can be classified into two divisions—one derived from the Central Excise Duties and belonging to the Central Government's finance and the other derived from the manufacture and sale of intoxicating liquors, hemp drugs, toddy and opium. The latter is a provincial revenue. The budget for 1956-57 estimated the revenue at Rs. 170·45 crores. These duties are at present levied on motor spirit, kerosene, sugar, matches, steel ingots, tyres, tobacco, vegetable product, betel-nut, coffee, tea, cotton cloth, cement, art silk fabrics, footwear, soap, coal cess, etc. In accordance with the recommendations of the Finance Commission, the States are given a share in the excise duty on matches, tobacco and vanaspati.

The Budget of the Government of India for 1944-45 brought in force important changes in the field of Central Excises. It raised the rates of duty on unmanufactured tobacco and on cigars and cheroots and included in the Central Excise Tariff betel-nuts, coffee and tea.

A further change in respect of tobacco was proposed in the following year. Accordingly, the highest class of flue-cured tobacco in the excise tariff was subdivided into three and subjected to a duty of Rs. 7-8, Rs. 5 or Rs. 3-8 per lb., according as it was intended for use in manufacturing cigarettes containing more than 60 per cent., more than 40 but not more than 60 per cent. or more than 20 but not more than 40 per cent. by weight of imported tobacco. In order to avoid double incidence, some of the provincial Governments reached an agreement with the Centre by which they withdrew the provincial excise duty on tobacco in lieu of a share in the proceeds from the Centre's tobacco excise. Tobacco excise has been responsible for nearly half the receipts under Central Excise Duties.

The provincial excise revenue in the country is derived from the manufacture and sale of intoxicating liquors, hemp drugs, toddy and opium. The excise revenue has been pushed into the background by the prohibition policy of the State Governments.

The following are the details of revenue from Union excise duties in lakhs of rupees:—

(In Lakhs of Rupees)

Basic Excise Duties.	1956-57 Accounts	1957-58 Budget	1957-58 Revised	1958-59 Budget
Motor Spirit	25,23	32,50	29,60	32,00
Kerosene	3,20	3,00	3,30	3,45
Sugar	20,88	37,70	37,62	42,00
Matches	10,05	15,41	14,30	15,33
Steel Ingots	64	5,65	5,93	6,66
Tyres and Tubes	6,15	5,70	6,30	6,30
Tobacco	38,43	40,98	42,46	42,64
Vegetable Products	4,35	3,50	4,00	4,20
Coffee	1,20	1,20	1,25	1,30
Tea	3,19	4,00	4,40	4,40
Cotton Cloth	51,86	72,00	61,49	58,56
Artificial Silk	1,03	80	80	80
Cement	2,55	8,50	9,96	11,36
Footwear	99	90	98	98
Soap	1,85	1,60	1,65	1,65
Woollen Fabrics	61	60	60	60
Electric Fans	32	28	40	45
Electric Bulbs	28	30	30	30
Electric Batteries	80	84	81	81
Paper	3,27	5,15	5,00	5,20
Paints and Varnishes	1,17	1,10	1,10	1,10
Vegetable non-essential oils	5,30	7,77	9,25	9,50
Refined Diesel Oils and Vapourising Oils	2,53	4,65	7,00	7,60
Industrial Fuel Oils—				
Diesel Oil / Furnace Oil	3,03	2,71	2,80	2,86
Rayon and Synthetic Fibres and Yarn	7	90	95	90
Motor Cars	5	80	32	32
Coal Cess	2,18	2,45	2,45	2,45
Cess on Copra	..	8	7	7
Cess on Oils and Oil-seeds	15	20	20	15
Miscellaneous	1,21	55	51	51
Total Gross Revenue	1,92,75	2,61,82	2,55,80	2,64,45
Deduct—Refunds and Drawbacks	—2,32	—2,25	—3,35	—4,00
Total-Net Revenue	1,90,43	2,59,57	2,52,45	2,60,45
Additional Excise Duties				
Sugar	..	..	3,55	12,18
Textiles	..	..	6,39	21,90
Tobacco	..	..	2,16	7,40
Total	..	..	12,10	41,48
Grand Total—Union Excise Duties	1,90,43	2,59,57	2,64,55	3,01,93

CUSTOMS

The import tariff is cast in the form of a commodity schedule with broad distinctions indicating the treatment to be accorded to various classes of articles. The general rate of import duty is now about 35 per cent. On certain non-essential items where it is felt that the consumer can well pay a higher rate or where there is sufficient indigenous production to meet the country's needs, higher rates of duty are imposed. Certain items subject to protective duties and certain other items are declared duty-free or are subjected to a low rate of duty, in the interest of the indigenous industry or the economy of the country. Some items which are subjected to the heaviest rates of duty ranging from 75 to 200 per cent are tobacco manufactures, wines and spirits, artificial silk goods, gold-plated articles, fabrics containing gold or silver thread, socks and stocking of silk or art-silk, boots and shoes, parasoles and sunshades, gold and silver thread manufactures, silver thread and wires, motor cars, clocks and watches, etc. In the case of protected items of which the more important are some chemicals, certain coal tar dyes, matches, silk and art silk fabrics, aluminium, cycles and certain items of machinery and parts, ball bearings, titanium dioxide, power and distribution transformers, the rates of duty are fixed at such amounts and for such periods as are found necessary having regard to the recommendations of the Tariff Commission. Grains and pulses and a number of raw materials for industry are on the free list, while specially low but varying rates of tax cover a large number of essential items like fuel oils, batching oils, lubricants, raw films, machinery, etc. Since 1954 the Government has been progressively following a policy of liberalising import controls and simultaneously raising the import duties.

Export duties cover a number of items of which tea is the most important. Duty on tea is levied on a slab system depending upon the price notified by the Government from time to time in the light of the market trends. The Government continue to keep under constant review the effect of such duties on the country's export trade and recently, in certain cases, duties have either been altered to improve the competitive position of the commodities concerned in world markets. At present export duties cover cotton, cotton waste, tea, manganese ore, some oils and oilseeds, decoiled groundnut meal and certain oilcakes.

Steps have been taken to meet the difficult balance of payments position. Drastic cuts have been made in the imports of consumer goods, and strict vigilance is being exercised in respect of the licensing of imports including imports of capital goods. Efforts are being made simultaneously to secure external assistance and deferred payment terms for projects in both the public and private sectors having high priority and likely to save foreign exchange.

As regards customs duties, only a few minor adjustments and verbal changes have been made

in the Tariff Schedule to remove some anomalies or doubts. The only change of any significance is the introduction of the alternative *ad valorem* rate of duty in respect of expensive varieties of artificial silk yarn, like nylon, perlon, etc.; so far as the other yarns such as viscose are concerned, the rate of duty is being left unchanged. The financial effect of these changes will be negligible.

The trend of revenue from customs is given below :—

Year	(Rs. in lakhs)
1950-51	157,15
1951-52	231,69
1952-53	173,75
1953-54	158,71
1954-55	184,87
1955-56	166,70
1956-57	173,23
1957-58-(Revised)	183,00
1958-59 (Budget)	170,00

INCOME-TAX

Income-tax is levied now not only on income as ordinarily understood but also on certain capital receipts which have been included in a special definition of "income." Tax at the rate fixed for the year of assessment is charged on the income of the "previous year." Both income-tax and super-tax are levied according to the slab system.

The more recent trend of collections is given below :—

1949-50 (Accounts) ..	Rs.	161·11 crores
1950-51 (Accounts) ..	,,	173·22 ,,
1951-52 (Accounts) ..	,,	187·60 ,,
1952-53 (Accounts) ..	,,	185·23 ,,
1953-54 (Accounts) ..	,,	164·38 ,,
1954-55 (Accounts) ..	,,	159·59 ,,
1955-56 (Accounts) ..	,,	168·40 ,,
1956-57 (Accounts) ..	,,	202·92 ,,
1957-58 (Revised) ..	,,	206·40 ,,
1958-59 (Budget) ..	,,	217·00 ,,

While the Corporation tax accrues in its entirety to the Centre, the net proceeds of income-tax, except the tax attributable to Central emoluments and Union territories and any Central surcharge, are divisible between the Centre and the States. Sixty per cent of the net proceeds of such income-tax is paid to the States.

States' share for the first seven months* and the last five months† of 1956-57 was distributable as follows :

Andhra 5·49, Assam 2·25, Bihar 9·75, Bombay 17·50, Hyderabad 4·50, Madhya Bharat 1·75, Madhya Pradesh 5·25, Madras 9·56, Mysore 2·45, Orissa 3·50, PEPSU 0·75, Punjab 3·25, Rajasthan 3·50, Saurashtra 1·00, Travancore-Cochin 2·50, Uttar Pradesh 15·75 and West Bengal 11·25.

For the last five months :

Andhra Pradesh 8·09; Assam 2·25; Bihar 9·40; Bombay 19·10; Madhya Pradesh 5·14; Madras 8·03; Mysore 5·99; Orissa 3·50; Punjab 4·00; Rajasthan 3·51; Kerala 3·64; Uttar Pradesh 15·75; West Bengal 11·60.

From 1957-58 onwards, the States' share of income-tax would be such as is prescribed by the President by Order in accordance with the recommendations of the Finance Commission. (See next article entitled 'Report of the Finance Commission, 1957').

The Income-Tax Investigation Commission submitted its report on the existing law of income-tax towards the end of 1948 and the same was published towards the end of 1949. A summary of the principal recommendations were given in a previous edition.

Substantial reductions in the levels of personal taxes, both earned and unearned, were proposed by the Finance Minister in the Finance Bill, introduced in the Lok Sabha on May 15, 1957.

The Bill specifies a basic schedule of taxes applicable to earned incomes in general. This is slab-for-slab lower than the existing schedule, both in respect of income-tax and super-tax.

If an individual has an unearned income, income-tax and super-tax will first be calculated in accordance with the basic schedule, and to this amount a separate unearned income surcharge will be added. This unearned income surcharge will be calculated at 20 per cent. of the tax on the unearned portion of the income, it being assumed for the calculation that this portion occupies the top brackets of the assessee's income.

No surcharge will be levied if the taxable income is below Rs. 7,500 in the case of an individual and Rs. 15,000 in the case of a Hindu undivided family.

GUIDE TO TAXES ON INCOME (1958-59)

The following table gives the rates of tax (income-tax, super-tax and surcharge included) in 1956-57 and the rates applicable to 1958-59 in percentages :

Slabs of income	1956-57	Earned	Unearned
0 - 1,000	nil	nil	nil
1,001-2,000			
(A) Married individuals and Hindu undivided families	nil	nil	nil
(B) Others	4·91	3·15	3·6
2,001-3,000			
(A) Married individuals and Hindu undivided families :	4·91	nil	nil
(B) Others	4·91	3·15	3·60
3,001-5,000	4·91	3·15	3·60
5,001-7,500	11·48	6·3	7·20
7,501-10,000	14·76	9·45	10·80
10,001-12,500	21·33	11·55	12·20
12,501-15,000	21·33	14·70	16·80
15,001-20,000	26·25	18·90	21·60
20,001-25,000	32·81	31·50	36·00
25,001-30,000	45·94	42·00	48·00
30,001-40,000	45·94	47·25	54·00
40,001-50,000	59·06	57·75	66·00
50,001-60,000	65·60	63·00	72·00
60,001-70,000	72·19	68·25	78·00
70,001-80,000	75·47	73·50	84·00
80,001-90,000	78·75	73·50	84·00
90,001-100,000	82·03	73·50	84·00
100,001-120,000	85·31	77·00	84·00
120,001-150,000	88·61	77·00	84·00
Over Rs. 1,50,000	91·87	77·00	84·00

COMPANY TAX

Classes of Companies	1956-57		Applicable to 1958-59	
	Income tax and Surcharge	Corporation tax	Income tax and Surcharge	Corporation tax
1. Companies which have made prescribed arrangements for the declaration and payment in India of dividends, and for the deduction of super tax from dividends paid to non-resident shareholders :				
(A) Companies in which the public are substantially interested with total income not exceeding Rs. 25,000/-				
(i) On dividend income derived from a subsidiary Indian company	26·25	11	31·5	10
(ii) On the balance of income	26·25	11	31·5	15
(B) Other Companies :—				
(i) On dividend income derived from a subsidiary Indian company	26·25	17	31·5	10
(ii) On the balance of income	26·25	17	31·5	20
2. Companies which have not made the prescribed arrangements referred to in (i) i.e. foreign companies :				
(i) On dividend income derived from a subsidiary Indian company	26·25	20	31·5	10
(ii) On the balance of income ..	26·25	36	31·5	30

* Pre-reorganization.

† Post-reorganization.

CORPORATION TAX

Rates of corporation tax for Indian companies on bonus shares or excessive dividend distributions.

	1956-57 rates	Applicable to 1958-59
On bonus shares	12½	30
On dividends distributed not in excess of 6 per cent of the paid-up capital	nil	nil
On dividends distributed between 6 and 10 per cent of paid-up capital	12½	10
On dividends distributed over 10 per cent of paid-up capital	25	20

ESTATE DUTY

The question of levying an estate duty had been before the Government of India since 1946 when a bill was first introduced. This as well as the one introduced in 1948 lapsed. In August 1952, a third bill was introduced with the object of imposing an estate duty on property passing or deemed to pass on the death of a person. The underlying idea is to rectify to a large extent unequal distribution of wealth and to assist the States towards financing their development schemes. The Bill was passed in Parliament in September 1953. The Act came into effect from October 15, 1953 and is applicable to the whole of India, except the State of Jammu and Kashmir.

The main features of the Act are that the levy of duty depends on the domicile of the deceased, the power to assess duty is vested in the Controller of Estate Duty, and the scale of duties is stipulated in the law itself. The Estate Duty proceeds go almost entirely to the States and do not affect the Central Budget. Pending the recommendations of the Finance Commission, a provisional distribution is being made on the basis of the States' share of income-tax. The Commission in their interim Report have also recommended the distribution of Estate Duty for 1957-58 on the same basis, pending re-adjustment in the light of their final recommendations. Like the Income-tax law, this legislation also provides for exemption limits and defines what items are eligible for exemption and to what extent.

The minimum exemption limit provided in the Act is Rs. 50,000 in respect of property which consists of an interest in the joint family property of a Hindu family governed by the Mitakshara, Marumakkattayam or Aliyasantana Law as well as in respect of all other property. The rates of duty are given below :—

Principal Value of Estate.	Rate of Duty.
In the case of Joint Hindu Family property governed by Mitakshara, etc., law :	
On the first Rs. 50,000	*Nil*
On the next Rs. 50,000	5%
On the next Rs. 50,000	7½%
On the next Rs. 50,000	10%
On the next Rs. 1 lakh	12½%
On the next Rs. 2 lakhs	15%
On the next Rs. 5 lakhs	20%
On the next Rs. 10 lakhs	25%
On the next Rs. 10 lakhs	30%
On the next Rs. 20 lakhs	35%
On the balance	40%
In the case of property of any other kind :	
On the first Rs. 50,000	*Nil*
On the next Rs. 50,000	7½%
On the next Rs. 50,000	10%
On the next Rs. 1 lakh	12½%
On the next Rs. 2 lakhs	15%
On the next Rs. 5 lakhs	20%
On the next Rs. 10 lakhs	25%
On the next Rs. 10 lakhs	30%
On the next Rs. 20 lakhs	35%
On the balance	40%
In the case of shares held by a deceased member in any such company referred to in sub-section (1) of Section 84.	
If the principal value of the shares does not exceed Rs. 5,000	*Nil*
If the principal value of the shares exceeds Rs. 5,000	7½%

GIFT TAX

The value of gifts made during a previous year (which is the same as for income-tax assessments) is the subject of charge; gifts are valued normally at the market value of the property as on the date of the gift. The taxable gifts made during five previous years immediately preceding the assessment year (excluding gifts made before the 1st day of April 1957) are aggregated and the rate applicable to the aggregated value is the rate at which tax is charged on the value of the gifts made during the previous year. The rates of tax are :

On the first Rs. 50,000—4 per cent, on the next Rs. 50,000—6 per cent on the next Rs. 50,000—8 per cent. on the next Rs. 50,000—10 per cent on the next Rs. 1,00,000—12 per cent on the next Rs. 2,00,000—15 per cent, on the next Rs. 5,00,000—20 per cent, on the next Rs. 10,00,000—25 per cent, on the next Rs. 10,00,000—30 per cent, on the next Rs. 20,00,000—35 per cent and on the balance—40 per cent.

SALES TAX

Sales tax is an alternative source of revenue consequent on the introduction of prohibition in the States. It is an important feature of the provincial revenues throughout the country. In West Bengal and Bihar the single-point sales tax has been favoured. Bombay switched over to the multi-point sales tax in 1953-54 but this has since been changed into a two-point sales tax.

(Receipts in lakhs of Rs.)

	1957-58 Budget	1954-55 Budget
Madras	12,35	9,50†
Bombay	24,89	16,61
Madhya Pradesh	4,33	1,95
Uttar Pradesh	9,60	5,25
Bihar	3,45	2,72
Assam	1,42	72
Orissa	1,68	1,30
Punjab	3,68	2,14
West Bengal	9,02	4,60

† Figures for undivided Madras State.

‡ Does not include Andhra's figure of 3,15 lakhs.

REPORT OF THE FINANCE COMMISSION, 1957

THE report of the Finance Commission was submitted in September, 1957 and placed on the table of the Lok Sabha on 14th November, 1957.

Its recommendations had been accepted by the Government and were to take effect as from 1st April, 1957.

The Chairman of the Finance Commission was Mr. K. Santhanam and the members were: Mr. Ujjal Singh, Mr. L. S. Misra, Mr. M. V. Rangachari, and Dr. B. N. Ganguli.

It was set up in June, 1956.

Below we give a summary of the report.

The Finance Commission which was set up in terms of Article 280 of the Constitution was the second such Commission to be appointed.

The Commission had to consider (1) the distribution between the Union and the States of the net proceeds of taxes which are to be or may be divided, and the allocation of States' net share among the States; (2) the principles that should govern the grants-in-aid of the revenues of the States by the Centre, and the amounts of grants under Article 273 and the substantive portion of Article 275 (1) and (3) the modification, if any, necessary in the rates of interest and the terms of repayment of the loans made to the various States by the Government of India.

The taxes, regarding the allocation of which they had to make recommendations, were income tax, Union excise duties, estate duty, tax on railway fares and, additional excise duties proposed to be levied on a few commodities in lieu of sales tax by the States.

The recommendations of the Commission provide for a devolution of about Rs. 140 crores (not including the proceeds of the tax on railway fares amounting to Rs. 15 crores in a full year) a year as against an average sum of Rs. 93 crores received by the States under the first Finance Commission's recommendations in the five years ending March 31, 1957.

An integrated scheme of devolution is proposed, taking into account the needs of the States with due regard to the ability of the Union with its responsibilities for defence and national development, to transfer resources to the States.

In the recommended scheme a balance is maintained between devolution by transfer of shares of taxes and distribution by fixed grants-in-aid.

The Table below summarises what each State may expect to receive under the recommendations taken together in each of the five years beginning on April 1, 1957. The figures shown against shares of taxes are only estimates and indicate the order of the sums to be received; the actuals will vary from year to year.

(Rs. in crores)

State	Shares of Taxes	Grant under Article 273*	Grant under substantive portion of Article 275(1)	Total	Tax on Railway fares
Andhra Pradesh ..	8·50	..	4·00	12·50	1·31
Assam	2·75	0·45	4·05	7·25	0·40
Bihar	10·00	0·43	3·80	14·23	1·39
Bombay	14·75	..	..	14·75	2·41
Kerala	3·75	..	1·75	5·50	0·27
Madhya Pradesh ..	7·00	..	3·00	10·00	1·23
Madras	8·25	..	..	8·25	0·96
Mysore	5·50	..	6·00	11·50	0·66
Orissa	4·00	0·09	3·35	7·44	0·26
Punjab	4·25	..	2·25	6·50	1·20
Rajasthan	4·25	..	2·50	6·75	1·00
Uttar Pradesh	16·25	..	..	16·25	2·78
West Bengal	9·50	0·91	3·85	14·26	0·94
Jammu and Kashmir ..	1·25	..	3·00	4·25	..
TOTAL	100·00	1·88*	37·55	139·43	14·81

* This is an average for five years of payments which will actually be made to the States in the three years ending March 31, 1960.

Grants-in-aid under Article 273 cease on the expiry of ten years from the commencement of the Constitution.

Note 1.—Assam will receive, in addition, a grant-in-aid of Rs. 40 lakhs under clause (*a*) of the second proviso to Article 275(1).

Note 2.—Under Section 74 of the States Reorganisation Act, the States of Bombay, Kerala, Madras and Mysore are entitled to receive during the three years ending 31-3-1960 the sums by which a prescribed percentage of their share of divisible Central Taxes may fall short of the average of the revenue gap grants guaranteed to the former Part B States of Saurashtra, Travancore-Cochin and Mysore now merged in them.

On the estimate of divisible Central Taxes adopted by the Commission, the sums due to Kerala and Madras will be marginal while Bombay and Mysore may receive sums of the order of Rs. 3½ crores and Rs. 1 crore respectively for all the three years.

It may be mentioned here that the Commission had submitted an *interim* Report in November 1956 to facilitate the transfer of resources from Centre to the States pending the final Report of the Commission.

The interim recommendations sought to maintain the existing position with the minimum of readjustments necessitated by the reorganisation of States and the financial integration of Jammu and Kashmir with India.

The Commission have stated that the decisions taken by the Government on the final Report were to be put into effect from the fiscal year 1957–58 while all payments made on the basis of their interim Report were to be readjusted against the final payments.

INCOME-TAX

The details of the recommendations are as follows:

Under Article 270 of the Constitution, the Commission were required to make recommendations in regard to (*a*) the percentage of net proceeds of income tax to be assigned to the States; (*b*) the distribution among them of the States' share; and (*c*) the percentage of the net proceeds which shall represent the proceeds attributable to Union Territories.

As regards the percentage of net proceeds in any financial year of taxes on income other than agricultural income to be assigned to the States, the Commission felt that an increase from 55 per cent to 60 per cent was justified, in view of the unanimous desire of the States.

The net proceeds attributable to Union territories were fixed at one per cent of the net proceeds of the income tax.

The Commission held the view that the actual distribution of the share assigned to the States should be on the basis of population, thus altogether eliminating the factor of collection. However, they felt that such elimination of the factor of collection has to be by stages and hence they have proposed that the distribution of States' share should be 10 per cent on the basis of collection and 90 per cent on the basis of population as compared to 20 per cent and 80 per cent recommended by the first Finance Commission.

Fixed percentage shares based on the 1951 census figures of population were prescribed as below:

Percentage Recommended

State	Interim	Final
Andhra Pradesh ..	8·01	8·12
Assam	2·23	2·44
Bihar	9·31	9·94
Bombay	18·91	15·97
Kerala	3·60	3·64
Madhya Pradesh ..	5·09	6·72
Madras	7·95	8·40
Mysore	5·93	5·14
Orissa	3·46	3·73
Punjab	3·96	4·24
Rajasthan	3·47	4·09
Uttar Pradesh	15·59	16·36
West Bengal	11·48	10·08
Jammu and Kashmir	1·01	1·13

UNION EXCISE DUTIES

Prior to April 1, 1952, no duty of excise was shared between the Union and the States. However, the first Finance Commission recommended that with effect from 1952–53, 40 per cent of the net proceeds of Union excise duties on tobacco (including manufactured tobacco), matches and vegetable products be distributed among the States on the basis of population.

The second Finance Commission have recommended that to these three duties which are at present shared, should be added the duties on sugar, tea, coffee, paper and vegetable non-essential oils and the share of the States should be reduced to 25 per cent. The reduction in the share now allocated to the States out of the duties on tobacco, vegetable products and matches will be more than made good by the widening of the range of divisible duties and each State will receive a larger sum from this source than at present.

The Commission have recommended that 90 per cent of the States' share of Union excise duties should be distributed on the basis of population, the balance being used for adjustments.

Percentage Recommended

State	Interim	Final
Andhra Pradesh ..	8·92	9·38
Assam	2·58	3·46
Bihar	11·04	10·57
Bombay	13·59	12·17
Kerala	3·86	3·84
Madhya Pradesh ..	6·17	7·46
Madras	8·54	7·56
Mysore	5·45	6·52
Orissa	4·17	4·46
Punjab	4·60	4·59
Rajasthan	4·34	4·71
Uttar Pradesh ..	18·00	15·94
West Bengal	7·49	7·50
Jammu and Kashmir	1·25	1·75

ADDITIONAL DUTIES

The Government of India, in consultation with the State Governments have decided that an additional duty of excise should be levied on mill made textiles, sugar and tobacco (including manufactured tobacco), in replacement of the sales taxes now levied by State Governments, the net proceeds being distributed among the States, subject to the present income derived by each of the States being assured to it.

The Finance Commission was requested to suggest principles of distribution of this proposed tax among the States and the amount to be assured to each State.

The Commission have suggested that one per cent of the net proceeds from these be assigned to Union territories and 1¼ per cent to Jammu and Kashmir.

The Commission have arrived at the share of individual States largely on the basis of consumption figures, using population as a correctional factor, as the data on consumption were found defective.

After deducting the shares of Union territories and Jammu and Kashmir from the proceeds of the duties, from the balance, according to the Commission, the following amounts are to be paid to the States to represent their "present income." Since the Commission were not sure whether to take all the commodities together or give separate figures for each they have made recommendations for the three commodities separately and for all of them together.

Amount Guaranteed to States

(Rupees in lakhs)

State	Mill made textiles	Sugar	Tobacco	The three combined
Andhra Pradesh	120	40	75	235
Assam	40	15	30	85
Bihar	80	30	20	130
Bombay	600	245	115	960
Kerala	38	20	37	95
Madhya Pradesh	83	40	32	155
Madras	168	60	57	285
Mysore	48	25	27	100
Orissa	50	20	15	85
Punjab	95	50	30	175
Rajasthan	50	25	15	90
Uttar Pradesh	400	112	63	575
West Bengal	204	36	40	280
TOTAL	1,976	718	556	3,250

The remainder is to be distributed in percentage ratios as given below :—

Percentage Recommended

State	Mill made textiles	Sugar	Tobacco	The three combined
Andhra Pradesh	7·38	6·65	10·47	7·81
Assam	2·72	2·55	2·98	2·73
Bihar	11·19	8·20	8·90	10·04
Bombay	16·46	20·17	17·41	17·52
Kerala	3·10	3·03	3·43	3·15
Madhya Pradesh	6·97	7·67	7·10	7·16
Madras	7·26	7·43	9·53	7·74
Mysore	4·98	5·13	5·58	5·13
Orissa	3·32	2·87	3·21	3·20
Punjab	5·56	7·21	4·36	5·71
Rajasthan	4·36	4·81	3·59	4·32
Uttar Pradesh	18·19	15·63	16·13	17·18
West Bengal	8·51	8·05	7·31	8·31

ESTATE DUTY

Under Article 269 of the Constitution, estate duty on property other than agricultural land is to be levied and collected by the Union, but the proceeds, excepting those attributable to the Union territories, are to be assigned to the States. Estate duty was first levied in India in 1953. Pending Parliamentary legislation, the net proceeds were being provisionally distributed so far in the same ratio as the States' share of the divisible pool of income-tax.

The Commission have suggested one per cent as the share attributable to Union territories; the balance is to be apportioned between immovable property and other property in the ratio of the gross value of all such properties brought into assessment in that year. The sum thus apportioned to immovable property is to be distributed among the States in proportion to the gross value of the immovable property located in each State; the remainder is to be allocated among the States according to population.

The sum apportioned to property other than immovable property is to be distributed among States as follows :

Percentage Recommended

State	Percentage
Andhra Pradesh	8·76
Assam	2·53
Bihar	10·86
Bombay	13·52
Kerala	3·79
Madhya Pradesh	7·30
Madras	8·40
Mysore	5·43
Orissa	4·10
Punjab	4·52
Rajasthan	4·47
Uttar Pradesh	17·71
West Bengal	7·37
Jammu and Kashmir	1·24

RAILWAY FARES

As regards the tax on railway fares, the Commission were of the opinion that the share of a State from the proceeds of Railway fare tax should be as nearly as possible on the basis of the net proceeds of actual passenger travel on railways within its limits. Since correct data of State-wise passenger travel were not available, the Commission have estimated these figures on certain assumptions and apportion the tax on this basis as follows :—

Percentage Recommended

State	Percentage
Andhra Pradesh	8·86
Assam	2·71
Bihar	9·39
Bombay	16·28
Kerala	1·81
Madhya Pradesh	8·31
Madras	6·46
Mysore	4·45
Orissa	1·78
Punjab	8·11
Rajasthan	7·77
Uttar Pradesh	18·76
West Bengal	6·81

The net proceeds of the tax to be thus distributed shall be after deducting ¼ per cent for proceeds attributable to Union territories.

GRANTS-IN-AID

The Commission have not made any change in the grants to the four jute growing States, *viz.*, West Bengal, Bihar, Assam and Orissa in lieu of a share of the export duty on jute under Article 273, excepting for an adjustment of the grants to Bihar and West Bengal to take account of the transfer of certain areas from Bihar to West Bengal.

The sums prescribed were :

(Rs. in lakhs)

State	Amount
Assam	75·00
Bihar	72·31
Orissa	15·00
West Bengal	152·69

These grants will automatically cease at the end of the financial year 1959–60. To prevent dislocation of the finances of these States when the grants cease, the Commission have made suitable provision in their scheme of devolution but they specify that this should not be

construed as giving support to the claim of these States for special compensation.

The Commission have tried to meet the requirements of the States by giving them shares of taxes but for most of them this devolution falls short of their total needs and the deficiency has been made good by grants-in-aid. Such grants recommended are much larger than in the past since the requirements of the States for development were not fully taken into account previously.

On the assumption that in the five years ending March 31, 1962, revenue expenditure on development of the States would be on the same scale as in the Second Plan and considering the special circumstances of each State, the Commission have recommended grants without any condition for them as follows:

(Rupees in crores)

State	1957–58	1958–59	1959–60	1960–61	1961–62	Total
Andhra Pradesh	4·00	4·00	4·00	4·00	4·00	20·00
Assam	3·75	3·75	3·75	4·50	4·50	20·25
Bihar	3·50	3·50	3·50	4·25	4·25	19·00
Kerala	1·75	1·75	1·75	1·75	1·75	8·75
Madhya Pradesh ..	3·00	3·00	3·00	3·00	3·00	15·00
Mysore	6·00	6·00	6·00	6·00	6·00	30·00
Orissa	3·25	3·25	3·25	3·50	3·50	16·75
Punjab	2·25	2·25	2·25	2·25	2·25	11·25
Rajasthan	2·50	2·50	2·50	2·50	2·50	12·50
West Bengal	3·25	3·25	3·25	4·75	4·75	19·25
Jammu and Kashmir ..	3·00	3·00	3·00	3·00	3·00	15·00
TOTAL	36·25	36·25	36·25	39·50	39·50	187·75

For Bombay, Madras and Uttar Pradesh the shares of revenue accruing to them under the scheme of devolution proposed would enable them to meet their current as well as Plan expenditure and hence, no grants-in-aid were considered necessary for these States.

Principles recommended for determining grants to States were:—

(i) The eligibility of a State to grants-in-aid and the amount of such aid should depend upon its fiscal need in a comprehensive sense. In a Union, in which the Centre and the States co-operate for planned development, grants-in-aid should subserve this end. Priorities and provisions in the plan itself should determine the fiscal needs for development for the period of the plan.

(ii) The gap between the ordinary revenue of a State and its normal inescapable expenditure should, as far as possible, be met by sharing of taxes. Grants-in-aid should be largely a residuary form of assistance given in the form of general and unconditional grants.

(iii) Grants for broad purposes may also be given. While they last, they should be grants-in-aid of revenues, but the States would be under an obligation to spend the whole amount in furtherance of the broad purposes indicated. Where these purposes are provided for in a comprehensive plan, there will be no scope for such grants.

UNION LOANS

In recent years there has been a phenomenal growth in the number and amount of loans given by the Government of India to the States; the outstanding amount of such loans increased from Rs. 43·97 crores on August 15, 1947 to Rs. 195·41 crores on March 31, 1951 and to about Rs. 900 crores on March 31, 1956.

The terms of repayment and the rates of interest vary widely among the loans. The rates of interest have varied from 1 to 5 per cent, some being free of interest, and have been generally determined with reference to the redemption yield of Central loans of corresponding maturity period except when special concessional rates have been given. The large number of loans given and the wide variations in the rates of interest and the terms of repayment have introduced an avoidable complication in the financial relations between the Centre and the States.

In respect of loans which are given interest-free, the Commission have recommended that no modifications need be made. But they feel that the policy of giving loans interest-free or at concessional rates of interest is open to objection since such a concession conveys a wrong impression regarding the interest burden which has to be met and also because such concessions are not subject to Parliamentary control as no funds are voted to cover them.

In the case of loans given for rehabilitation of displaced persons, they have recommended that with effect from April 1, 1957, the State Governments should be required to pay to the Centre only the sums realised by them from the displaced persons on account of principal and interest, including arrears outstanding on that date.

Regarding the remaining loans they are of the opinion that the reasonable rate to be charged to the States by the Union should be 3 per cent and this rate should apply to all loans, irrespective of the period of maturity. They have recommended that the outstanding balances of loans carrying interest at 3 per cent and above should be consolidated for each State at 3 per cent.

For purposes of repayment, they should be split up into two categories: (*a*) the loans due to be repaid within a period of twenty years from April 1, 1957 should be consolidated into one single loan repayable at the end of fifteen years, (*b*) the rest, i.e., those repayable after twenty years from that date, should be consolidated into another single loan repayable at the end of thirty years. They have suggested a similar consolidation of loans carrying interest at less than 3 per cent into two loans but carrying an average rate of interest of 2½ per cent.

It is expected that the suggested scheme of consolidation will result in a reduction in interest charges of about Rs. 5 crores per annum for all the States together.

The Commission have also suggested that though the above recommendations apply only to the loans given between August 15, 1947 and March 31, 1956, they may be adopted for future years also.

This will mean that each State will get only two loans a year (one medium-term and one long-term), at a rate of interest approximating to the net cost of all Union borrowings in that period. In that case, it is suggested, that during the course of a financial year no regular loans but only ways and means advances be given which may be converted into two regular loans as indicated above at the end of the year.

IMPLEMENTATION

The recommendations of the Commission have been accepted by the Government excepting those relating to debts due from the States to the Centre which are still under consideration (December, 1957).

The Commission's recommendations fall into three categories, namely (*i*) those to be implemented by an order of the President, (*ii*) those to be implemented by law of Parliament and (*iii*) those to be implemented by executive orders.

The recommendations under Articles 270, 273 and 275 (1) of the Constitution fall in the first category and the necessary orders will be submitted to the President for approval.

The recommendations relating to the distribution of certain Union duties of excise between the Union and the States, the distribution among the States under Article 269 (2) of the Constitution of Estate Duty on property other than agricultural land and the tax on railway fares and the levy and distribution of additional duties of excise in replacement of sales taxes on certain commodities fall in the second category.

The Union Duties of Excise (Distribution) Bill, 1957 and the Estate Duty and Tax on Railway Passenger Fares (Distribution) Bill, 1957, giving effect to the recommendations of the Finance Commission relating to the distribution of certain duties of excise between Union and the States and the distribution among the States of the Estate Duty on Property other than agricultural land and the tax on Railway Passenger Fares were introduced in the Lok Sabha on December 12, 1957 and have since been passed by both Houses of Parliament.

The Additional Duties of Excise (Goods of special importance) Bill 1957 to provide for the levy and collection of additional duties of excise on certain goods and for the distribution of a part of the net proceeds thereof among the States and to declare those goods to be of special importance in inter-State trade or commerce has also since been passed by both Houses of Parliament.

The recommendations regarding loans have to be implemented by executive order. As mentioned earlier, this subject is still under consideration of Government.

THE CURRENCY SYSTEM

THE rising trend in currency circulation, which has been a characteristic feature since 1953-54 was somewhat halted during 1956-57. Over the year, money supply with the public, excluding State Governments' deposits with the Reserve Bank, increased by Rs. 129 crores to Rs. 2,313 crores as against a rise of Rs. 264 crores in 1956-57.

The two tables give the details of the course of money supply with the public and the factors contributing to it.

(Rs. in crores)

	Year ended March 31		
	1954-55	1955-56	1956-57
Currency with the Public (*a*).			
1. Note Circulation (*b*)	1,236·44	1,424·23	1,483·20
2. Circulation of rupee coin (*c*)	115·01	123·45	118·30
3. Notes and coin with Treasuries (*d*) ..	2·83	1·14	5·31
4. Cash on hand of scheduled, non-scheduled (*e*) and co-operative (*f*) banks ..	36·85	41·45	39·75
5. Currency with the public (excluding small coin) (1+2—3—4)	1,311·77	1,505·09	1,556·50
6. Variation in currency with the public (*g*) ..	+ 82·34	+ 193·32	+ 51·41
Deposit Money.			
7. Demand liabilities (excluding inter-bank demand deposit) of scheduled, non-scheduled (*e*) and co-operative (*f*) banks.	599·16	667·21	744·74
8. Other Deposits with the Reserve Bank (*h*) excluding balance held on I.M.F. Account No. 1	9·71	12·01	11·65
9. Deposit money with the public (7+8) ..	608·87	679·22	756·39
10. Variation in Deposit money	— 44·31	+ 70·37	+ 77·16
11. Money supply with the public (excluding small coin) (5+9)	1,920·63	2,184·31	2,312·89
12. Variation in money Supply with the public (*g*) (6+10)	+ 126·65	+ 263·68	+ 128·57

NOTE: Figures have been revised to take into account the circulation of *Hali Sicca* currency. (*a*) Money supply with the public does not take account of the inward or outward movement of currency and excludes small coin. (*b*) Figures are net of the return of about Rs. 43 crores from Pakistan awaiting adjustment. (*c*) Figures relate to the Indian Union. (*d*) Figures on the last day of the year. (*e*) From April 1952 figures of non-scheduled banks incorporated in and confined to Part B States included. (*f*) Cover reporting co-operative banks only. (*g*) Figures from October 1951 are net of adjustments of India notes returned from Aden. (*h*) Deposits of other Governments with the Reserve Bank have been excluded from Money Supply with the public; in earlier editions these have been enclosed.

SEASONAL VARIATION IN MONEY SUPPLY WITH THE PUBLIC

(Rs. in crores)

	Currency with the public	Demand liabilities of all banks	Other Deposits with Reserve Bank	Money supply with the public
October 25,1952 to May 8, 1953	+ 103·1	— 18·2	— 0·2	+ 84·7
May 9, 1953 to September 25, 1953 ..	— 124·6	— 2·6	— 0·4	— 127·6
September 26, 1953 to May 7, 1954 ..	+ 155·0	+ 16·7	+ 5·8	+ 171·5
May 8, 1954 to September 24, 1954 ..	— 96·8	+ 26·0	— 6·6	— 77·4
September 25, 1954 to May 6, 1955 ..	+ 190·0	+ 31·8	+ 0·3	+ 222·1
May 7, 1955 to Oct. 28, 1955	— 32·1	+ 28·0	+ 0·9	— 3·2
Oct. 29, 1955 to May 11, 1956	+ 237·2	+ 26·5	— 0·1	+ 263·6
May 1956 to October 1956 Slack Season ..	— 95·7	— 7·8	— 1·7	— 105·1
November 1956 to April 1957 Busy Season	+ 149·5	+ 93·1	+ 1·7	+ 244·3

NOTE: Figures have been revised to take into account the circulation of Hali Sicca currency.

CIRCULATION OF NOTES: The rising trend in currency circulation noticed since 1953-54 became more marked in 1955-56. But whereas in the previous two years notes alone accounted for the currency expansion, in the year under review, rupee coins and small coin accounted for 5 per cent. of the expansion. Active notes rose during the year by Rs. 190 crores, as against Rs. 91 crores in 1954-55 and Rs. 53 crores in 1953-54. Total Notes in circulation at the end of 1955-56 amounted to Rs. 1,424 crores and at the end of 1956-57 Rs. 1,483 crores.

CIRCULATION OF INDIA NOTES BY DENOMINATIONS

(Rupees in lakhs)

	Year ended December			
	1953	1954	1955	1956
Rs. 2	24,85	26,52	28,66	28,72
% of Total	2·2	2·2	2·1	1·9
Rs. 5	144,72	150,57	159,36	161,23
% of Total	12·6	12·3	11·6	10·9
Rs. 10	484,41	511,50	562,89	604,66
% of Total	42·2	41·6	41·0	40·9
Rs. 100	494,21	502,02	550,05	616,58
% of Total	43·0	40·9	40·1	41·7
Rs. 1,000	..	32,06	56,27	52,24
% of Total	..	2·6	4.1	3·5
Rs. 5,000	..	5,04	9,85	9,92
% of Total	..	0·4	0,7	0·7
Rs. 10,000	..	1,01	5,81	5,73
% of Total	..	0·1	0·4	0·4
Notes in Circulation..	1,148,19	1,228,72	1,372,99	1,479,08

Reintroduction of High Denomination Notes: The Reserve Bank of India commenced issuing new notes of the denominations of Rs. 1,000, Rs. 5,000 and Rs. 10,000 with effect from April 1954. The new notes are completely different in design, water-mark and colour scheme from the old high denomination notes.

Changes in the Form of Notes: Reserve Bank of India notes of the denomination of Rs. 100, with the numbers printed in red (instead of in black) were first issued from the Bank's offices at Calcutta and Madras in August 1953. The Government of India one rupee notes printed in purple, instead of the earlier grey colour, were first issued from the Bank's Bombay office in November 1953.

Hyderabad State Currency: According to the Hyderabad Coinage and Paper Currency (Miscellaneous Provisions) Act, 1953, the Hyderabad currency (*Hali Sicca* currency) ceased to be legal tender with effect from April 1, 1955. But to enable the public exchange their holdings of Hyderabad currency for Indian currency, the Union Government had provided conversion facilities, first till March 31, 1956, and then extended them by a notification dated March 24, 1956, up to September 30, 1956 and thereafter up to the end of December 1956, after which the facilities were withdrawn. At the end of March 1956, the circulation of *Hali Sicca* currency amounted to about *Hali Sicca* Rs. 4·07 crores (or India Rs. 3·49 crores), as against *Hali Sicca* Rs. 48 crores (or India Rs. 41 crores) on January 26, 1950.

Replacement of French Indian currency by Indian currency: As from November 1, 1954, the provisions of the Indian Coinage Act, 1906, the Reserve Bank of India Act, 1934 and the Currency Ordinance of 1940 were extended to the French establishments in India, consequent on the merger of these establishments with the Indian Union. Although the French currency ceased to be legal tender on April 30, 1955, the facilities for its exchange into Indian currency were available up to October 15, 1955. The total value of Indian currency issued in exchange for French currency amounted to Rs. 37 lakhs.

Decimalisation of Coinage*: With a view to adopting the decimal system of coinage, a Bill to amend the Indian Coinage Act, 1906 was introduced in the Lok Sabha on May 7, 1955 and was passed on July 27, 1955. It came into force from April 1, 1957. As from that date, the rupee coin was divided into 100 equal units and the unit coin was designated as *Naya Paisa*. Thus 100 *naye paise* will make one rupee. The old coins will continue to be legal tender for about three years after the introduction of the new coins.

The details regarding the denominations, dimensions, designs and metal composition of the new series of coins were given by the Government of India in a notification issued on May 14,1956. The new series will have the following units: 1 naya paisa; 2 naye paise; 5 naye paise; 10 naye paise; 25 naye paise; 50 naye paise; and 100 naye paise.

CURRENCY CIRCULATION

During 1956-57, the total circulation of all forms of legal tender currency (notes, rupee coin and small coin) recorded an increase of about Rs. 54 crores against a rise of Rs. 201 crores in the preceding year.

The following table shows the circulation of currency:—

(Rs. in lakhs)

	At the end of		
	1954-55	1955-56	1956-57
Circulation—			
Notes ..	1,233,92	1,424·23	1,483·20
Rupee Coin..	112,98	123·45	118·30
Total ..	1,346,90	1,547·68	1,601·50

NOTE: Figures are exclusive of *Hali Sicca* currency.

* See also separate article which follows.

Rupee Coin.—Since June 7, 1947, when all standard silver rupee coin had ceased to be legal tender, the 'rupee coin' in circulation in India has comprised (1) the Government of India one rupee notes issued from July 1940, (2) the quaternary silver rupees (of one-half fineness) issued between December 1940 and June 1946, and (3) the nickel rupees issued from June 1947.

During 1956-57 rupee coin in circulation receded by Rs. 4·3 crores to Rs. 117·83 crores and was the net result of a fall of Rs. 11·5 crores in June-November and an increase of Rs. 7·3 crores in the remaining months. On April 4, 1956, the Reserve Bank received from the Government of India one rupee notes of the value of Rs. 5 crores, in terms of Section 36(2) of the Reserve Bank of India Act, against payment of legal tender value.

Small Coin.—The circulation of small coin recorded an increase of Rs. 45 lakhs in 1956-57 as compared with a rise of Rs. 1·5 crores in 1955-56. The following are the details:

MOVEMENTS IN CIRCULATION OF SMALL COIN DENOMINATION-WISE
ABSORPTION (+) OR RETURN (—)

(Rupees in 000)

	1953–54	1954–55	1955–56	1956–57
Half rupees *	— 1,16,18	— 56,39	+ 35,13	— 16,05
Four anna pieces **	— 80,12	— 30,60	+ 59,81	+ 20,99
Two anna pieces †	— 56,04	— 15,16	+ 11,61	— 9,66
One anna pieces	— 60,18	— 15,75	+ 23,74	+ 26,04
Half anna pieces ††	— 4,88	— 1,22	+ 6,58	+ 6,39
Single pice §	+ 95	+ 5,27	+ 9,69	+ 19,14
Half pice	— 10	— 13	— 1	— 84
Pie pieces	— 7	— 4	— 1	— 3
Total	— 3,16,62	— 1,14,02	+ 1,46,54	+ 45,08

* Since the inauguration of the Reserve Bank in 1935, silver half rupees have been included in statistics relating to small coin, including pure nickel half rupees introduced in May 1946.
** Including pure nickel four anna pieces introduced in May 1946. † Including nickel two anna pieces introduced in 1917-18. †† Nickel half anna pieces introduced in January 1942. § Including single pie pieces with a circular hole issued from February 1943.

EXCHANGE CONTROL

During 1955-56, the policy of gradual liberalisation of exchange restrictions, initiated in 1953-54, was continued: (1) On June 7, 1955, general permission was given for the transfer of Indian securities to persons resident in Nepal, though the export of such securities to Nepal was made subject to a licence from the Reserve Bank of India. (2) From June 15, 1955, authorised dealers were permitted to deal in foreign exchanges other than U.S. dollars, Canadian dollars, pound sterling and Pakistan rupee. (3) Owing to the changes in the U.K. Control, the transferable account area was further extended to include Turkey. (4) From August 22, 1955, the Italian lira was included in the list of specified currencies and became a permissible medium for payments between India and the Italian Monetary Area. (5) All operations on the non-resident accounts of persons and firms, including banks, resident in Portuguese territories in India, were made subject, with effect from October 25, 1955, to the prior approval of the Reserve Bank of India; and on November 10, 1955, a ban was imposed on the taking of Indian currency notes by travellers to Portuguese territories in India. (6) From November 25, 1955, travellers to Pakistan were permitted to take with them Pakistan currency notes up to Pakistan Rs. 100 per person per day. (7) In regard to invisible payments, the setting-in allowance was raised to Rs. 75,000 per family in the case of emigration to the dollar area and to Rs. 1·25 lakhs per family to any other non-sterling area country. The limit of jewellery which travellers could take was stepped up to Rs. 25,000 per person.

In the field of exchange control, during 1956-57, multilateral arbitrage facilities in certain European currencies were extended to Indian banks, while there was a tightening of restrictions. The more significant changes were:

From June 21, 1956, authorised dealers in foreign exchange were permitted to enter into multilateral foreign exchange arbitrage arrangements with authorised dealers in Belgium, Denmark, Western Germany, France, Italy, Netherlands, Norway, Sweden and Switzerland.

From August 24, 1956 the full (100 per cent.) proceeds of import bills in respect of goods shipped from Egypt to India were required to be credited to the 'B' Account, so that the entire proceeds of Egyptian exports to India could be utilised in future for financing Egyptian purchase in India, or for making other local payments.

Permission was granted in the previous year to authorised dealers to deal in foreign exchange other than U.S. dollars, Canadian dollars, pound sterling and Pakistan rupee, at rates to be decided by market conditions. As from September 3, 1956, this freedom was extended to the U.S. and Canadian dollars. As in the case of other currencies all spot transactions between the banks and their customers and between authorised dealers were to be effected at or between the banks and their customers, and between authorised dealers were to be effected at or between the official buying and selling rates of the Bank of England. Authorised dealers were also permitted to deal in forward contracts at market rates.

As part of the measures to halt the drain on foreign exchange reserves, it was decided to withdraw as from January 1, 1957 the basic allowance of foreign exchange for purpose of travel abroad for pleasure or personal convenience.

From January 2, 1957, Austrian shilling was included in the list of specified currencies and became a permissible medium of payment between the 'scheduled territories' and Austria.

The ban imposed in 1956 on the taking out of Indian currency notes by travellers to Portuguese territories in India was lifted on March 19, 1957. Travellers proceeding to Portuguese territories were permitted to take with them Indian currency notes/coins not exceeding Rs. 10/- per adult per visit and Rs. 5/- per child per visit.

Since the end of the financial year, further restrictions have been imposed on invisible payment, particularly those pertaining to travel in respect of business, education and health. Government also cancelled with effect from June 27, 1957 the facility of remittance to foreign countries through money order.

BALANCE OF PAYMENTS—CURRENT ACCOUNT

Region-wise Summary

(Rupees in crores)

	1954-55	1955-56	1956-57 (Preliminary)
Sterling Area (Including Pakistan):			
Imports, c.i.f.	357·4	357·2	458·5
Exports, f.o.b.	339·7	331·2	333·2
Trade Balance	— 17·7	— 26·0	—125·3
Official Donations (Net)	+ 0·8	+ 0·1	+ 2·1
Other Invisibles (Net)	+ 69·8	+ 70·5	+ 88·0
Current Account (Net)	+ 52·9	+ 44·6	— 35·2
Dollar Area:			
Imports c.i.f.	116·8	125·2	198·5
Exports f.o.b.	113·3	120·5	121·5
Trade Balance	— 3·5	— 4·7	— 77·0
Official Donations (Net)	+ 15·0	+ 41·9	+ 37·5
Other Invisibles (Net)	+ 3·4	+ 6·4	+ 8·1
Current Account (Net)	+ 14·9	+ 43·6	— 31·4
OEEC Countries:			
Imports, c.i.f.	135·0	54·2	263·9
Exports, f.o.b.	60·6	73·1	63·3
Trade Balance	— 74·4	— 81·1	—200·6
Official Donations (Net)	..	..	+ ·0·1
Other Invisibles (Net)	— 1·3	— 3·1	— 1·4
Current Account (Net)	— 75·7	— 84·2	—201·9
Rest of Non-Sterling Area:			
Imports, c.i.f.	74·6	114·0	155·6
Exports, f.o.b.	83·0	116·3	119·0
Trade Balance	+ 8·4	+ 2·3	— 36·6
Official Donations (Net)	..	..	+ 0·1
Other Invisibles (Net)	+ 5·5	+ 10·6	+ 12·5
Current Account (Net)	+ 13·9	+ 12·9	— 24·0

The trends in the balance of payments position for 1955-56 and 1956-57 are summarised in the following table:—

	(Crores of Rupees.) 1955–56	1956–57
Imports: c.i.f. Values	747·7	1,076·5
Exports: f.o.b. Values	642·2	637·0
Trade Balance	— 105·5	— 439·5
Official Donations and Invisibles (Net)	+ 126·2	+ 147·0
CURRENT ACCOUNT (NET).	+ 20·7	— 292·5
Errors & Omissions.	+ 2·8	— 4·6
CAPITAL ACCOUNT (NET).	+ 23·5	+ 297·1

STERLING TRANSACTIONS OF THE RESERVE BANK

During 1956-57 the Reserve Bank's sterling transactions (excluding Government deals) resulted in net sales of £144 million (Rs. 193 crores) as against net sales of £39 million (Rs. 52 crores) in 1955-56. The particulars are given below.

Year	Purchases		Sales		Net Purchases (+) Sales (—)	
	£ Thousands	Rs. Lakhs	£ Thousands	Rs. Lakhs	£ Thousands	Rs. Lakhs
1953-54	109,753	1,46,34	17,460	23,29	+ 92,293	+ 1,23,05
1954-55	100,159	1,33,55	29,797	38,43	+ 71,362	+ 95,12
1955-56	107,245	1,43,01	68,404	91,29	+ 38,841	+ 51,72
1956-57	69,500	92,65	213,803	285,32	—144,303	— 192,67

Note.—Figures exclude Government transactions but include deliveries against forward contracts.

GOLD RESERVES OF CENTRAL BANKS

(Million of fine ounces)

Average of months	United States	United Kingdom	Canada	France	Switzerland	South Africa	Belgium	Netherlands	Sweden	India
1950-51	668	87	16	15	43	5	18	7	2	7
1951-52	641	71	21	16	41	6	18	9	4	7
1952-53	666	52	25	16	40	5	20	12	6	7
1953-54	636	71	28	16	41	5	21	20	6	7
1954-55	625	82	30	16	43	6	22	23	7	7
End of										
1955	622	60	33	25	46	6	26	25	8	7
1956	630	61	32	25	48	6	26	24	8	7

STERLING AREA'S GOLD AND DOLLAR RESERVES

(Million $)

End of	Net Deficit/ Surplus	Financed By				Changes in Reserves	Level of Reserves
		U.S. and Canadian Credits	Purchase from I.M.F.	S. African Gold Loan	U.S. Aid		
1949	—1416	116	..	..	1132	— 168	1,688
1950	+ 862	45	..	..	705	+1612	3,300
1951	—1140	..	..	..	175	— 965	2,335
1952	— 487*	..	..	..	—1	— 489	1,846
1953	+ 672*	..	..	..	..	+ 672	2,518
1954	+ 244*	..	..	..	..	+ 244	2,762
1955	— 642	..	..	..	..	— 642	2,120
1956	+ 13	..	..	..	..	+ 13	2,133

* After taking into account payment of service charges in connection with U.S. and Canadian lines of credit, the U.S. lend-lease and the ERP Loan.

WORLD BANK (*See under Foreign-Aid*).

PRE-DECIMAL COINAGE*

The following table gives a description of the coins in circulation at the end of March 1957:

Denomination	Gross weight (Grains)	Composition (Proportion of Metals)
Quaternary Alloy Rupee	180	Silver 50 per cent. and the rest base metal.
,, ,, Half Rupee ..	90	,, ,, ,,
,, ,, Quarter Rupee ..	45	,, ,, ,,
Pure Nickel Rupee	180	Nickel 100 per cent.
,, ,, Half Rupee	90	,, ,,
,, ,, Quarter Rupee ..	45	,, ,,
Cupro-Nickel Four-anna	105	75 per cent. copper and 25 per cent. nickel.
,, ,, Two-anna	90	,, ,, ,,
,, ,, Two-anna (George V).	90	,, ,, ,,
,, ,, One-anna	60	,, ,, ,,
,, ,, Half-anna	45	,, ,, ,,
Nickel-Brass Two-anna	90	79 per cent. copper, 1 per cent. nickel and 20 per cent. zinc.
,, ,, One-anna	60	,, ,, ,,
,, ,, Half-anna	45	,, ,, ,,
Copper Single Pice	100	100 per cent. copper.
,, Half Pice	50	,, ,,
,, Pie Pieces	33·3	,, ,,
Bronze Single Pice	75	97 per cent. copper, 2½ per cent. zinc and ½ per cent. tin.
,, ,, ,, ...	30	,, ,, ,,
,, ,, ,, ...	60	,, ,, ,,
,, ,, ,, ...	45	,, ,, ,,
,, Half Pice	37·5	,, ,, ,,
,, Pie Pieces	25	,, ,, ,,

The details of whole rupee coins issued since 1835 are given below:

William IV Standard	..	16,39,78,572
Victoria Standard	..	352,13,80,138
Edward VII ,,	..	98,23,53,552
George V ,,	..	180,74,83,517
George VI ,,	..	98,02,178
George VI Quaternary	..	106,74,92,178
George VI Nickel	..	21,42,01,000
Asoka Pillar ,,	..	1,39,00,000
1951	..	49,28,000
1951-52	..	Nil
1952-53	..	Nil
1953-54	..	Nil
1954-55	..	Nil

* See also separate article on decimal coinage and also under article on currency.

DECIMAL COINAGE

DECIMAL coins were introduced in India with effect from 1st April 1957.

Current coins will continue to be legal tender for about three years after the introduction of the new coins.

During this period they will be gradually withdrawn from circulation.

The rupee coin is divided into 100 equal units and the unit designated Naya Paisa. Thus 100 naye paise make one rupee.

The new series have the following units: one naya paisa, two naye paise, five naye paise and ten naye paise.

Later twenty-five naye paise, fifty naye paise and the new rupee coins will be issued.

The new coins are issued to the public through the Reserve Bank, the State Bank offices, treasuries and sub-treasuries.

GOVERNMENT ACCOUNTS

Government accounting with effect from 1st April, 1957 has been in terms of rupees and naye paise.

The State Bank and joint stock and co-operative banks also switched over to decimal accounting from 1st April 1957.

All chalans in support of money tendered in payment of Government dues are, therefore, being expressed in new coinage. Similarly, all bills for withdrawals are expressed in terms of rupees and naye paise.

The forms of bills, chalans and other books of account used by Government Departments are revised to provide only two columns to show rupees and naye paise separately. Until, however, the new forms and bills are printed, the existing ones will be suitably adapted for use.

A sum of Rupees 25 and five naye paise is written as Rs. 25·05 (and not Rs. 25·5); Rupees 25 and 50 naye paise as Rs. 25·50 (not Rs. 25·5); and Rupees 55 and 83 naye paise is written as Rs. 55·83.

For entering an amount of Rupees 25 and five naye paise, in forms providing for separate columns for rupees and naye paise, 25 are entered in the Rs. column and 05 in the naye paise column.

Amounts expressed in annas and pies are converted into whole numbers of naye paise according to the conversion table before they are entered in the books. The abbreviated form to be used for naye paise/paisa is nP.

Rounding off is made only at the stage when payment or tender of money takes place. In agreements, enactments, etc., where rates are specified, the rounding off should be made only in respect of the total amount payable, or receivable in a single transaction, and the amounts specified in rupees, annas and pies in financial sanctions, rules, orders, notifications, contracts, deeds or other enactments are automatically construed as expressed in terms of equivalent value under the decimal system without any rounding off.

While payment of Government dues is accepted in whatever currency it is made, every endeavour is made to make payment of Government dues only in new coins.

In order to enable the public to understand rightly the relationship of each new coin to the rupee the number of such coins required to make one rupee is indicated on the coins themselves. Thus the coin representing one naya paisa has a legend, "rupae ka sauvan bhag" (hundredth part of a rupee), embodied on it.

Similarly, 2, 5, 10, 25 and 50 naye paise units indicate that they represent 1/50th, 1/20th, 1/10th, 1/4th and one-half parts respectively of the rupee.

The design and composition of the new currency units are as follows:

The obverse sides of all the new coins have the design of the lion capital of the Asoka pillar with the terms "Bharat" in Hindi and "India" in English inscribed on them.

The reverse sides of all the new coins indicate the year in which the coins are produced and their value in naye paise specified in international numerals.

The 100 naye paise, 50 naye paise and 25 naye paise are of pure nickel while 10, 5 and 2 naye paise coins are of cupro-nickel alloy (75 per cent copper and 25 per cent nickel). The one naya paisa coin is of bronze.

After the people have got accustomed to the use of the new coinage and sufficient quantities of new coins have been put into circulation, the existing coins which continue to be legal tender after April 1, 1957, will be withdrawn.

The process of withdrawal is expected to extend over a period of about three years and there is no need for anyone to get panicky about the status of the existing coins when the new coins are put into circulation.

Coins of the denominations of two annas and under are being withdrawn first, as decimal coins of ten naye paise and below are put in circulation in sufficient quantities at the initial stages.

According to the rate of exchange prescribed in the Indian Coinage (Amendment) Act 1955, there is no exact equivalent in naye paise in respect of coins of two annas and below and their change individually, or in combination with other coins, results in a small profit or loss in the aggregate to either of the parties exchanging the coins.

This element of profit or loss occurs so long as the existing coins continue to circulate, but it will diminish progressively as increasing quantities of new coins enter into circulation.

The public can, however, keep down to the minimum the element of profit or loss in exchange of coins by having their holdings of existing coins exchanged for new ones by tendering amounts in terms of four annas and multiples thereof, for which exact equivalents in terms of new coinage exist.

The treasuries have instructions to give new coins in exchange for existing coins only on this basis.

CONVERSION TABLE

The conversion table gives the exchange value in Naye Paise (rounded off in the manner prescribed in section 14 (2) of the Indian Coinage Act, 1955 as recently amended) for amount tendered in annas/pies coins. The exact Naya Paisa equivalent of the total amount to be converted is rounded off by ignoring fractions of ½ Naya Paisa and below, and treating more than ½ Naya Paisa as 1 Naya Paisa.

OLD COINS		NEW COINS	OLD COINS		NEW COINS
Annas	Pies	Naye Paise	Annas	Pies	Naye Paise
0	3	2	8	3	52
0	6	3	8	6	53
0	9	5	8	9	55
1 Anna		6	9 Annas		56
1	3	8	9	3	58
1	6	9	9	6	59
1	9	11	9	9	61
2 Annas		12	10 Annas		62
2	3	14	10	3	64
2	6	16	10	6	66
2	9	17	10	9	67
3 Annas		19	11 Annas		69
3	3	20	11	3	70
3	6	22	11	6	72
3	9	23	11	9	73
4 Annas		25	12 Annas		75
4	3	27	12	3	77
4	6	28	12	6	78
4	9	30	12	9	80
5 Annas		31	13 Annas		81
5	3	33	13	3	83
5	6	34	13	6	84
5	9	36	13	9	86
6 Annas		37	14 Annas		87
6	3	39	14	3	89
6	6	41	14	6	91
6	9	42	14	9	92
7 Annas		44	15 Annas		94
7	3	45	15	3	95
7	6	47	15	6	97
7	9	48	15	9	98
8 Annas		50	16 Annas		100

Rounding off as has been done in the conversion table is necessary only at the end of a transaction when any amount due in annas and pies is to be converted into Naye Paise.

You can make payment either in new coins or in old coins or by a combination of both according to the coins available with you.

The conversion table is, therefore, to be used only at the end of a transaction when payment has to be made or change has to be given.

BANKING

MODERN banking in India owes its origin to the British agency houses operating in Bombay and Calcutta in the eighteenth century. Then followed the Presidency banks in the latter half of the nineteenth century; as a result of their amalgamation, the Imperial Bank of India was brought into being in 1921 by a special Act. The next stage was marked by the establishment of the Reserve Bank of India on April 1, 1935. Fourteen years later on January 1, 1949, the Reserve Bank was nationalised. Its functions are now being broadened gradually: from the role of a "lender in the last resort" it has assumed the responsibility of being "the purveyor of credit" and is charged with the responsibility of developing the banking system on sound lines. On July 1, 1955, the State Bank of India came into being and the undertaking of the Imperial Bank of India was transferred to the new institution with the exception of the assets and liabilities of its foreign branches.

At the base of the banking system is the Reserve Bank with the State Bank as its agent. The edifice is made up of Indian joint stock banks other than the State Bank, foreign banks and co-operative banks.

The Banking Companies Act was enacted in 1949 with the object of improving the efficiency and the tone of the banking system. The main provisions relate to licensing of branches, requirements of minimum capital and reserves and maintenance of cash reserves. During 1952 the Banking Companies Rules were extended to more States and now apply to the entire country.

The policy of systematic inspections of banking companies irrespective of their size and standing, has been an aspect important of the Reserve Bank's supervisory activities. In pursuance of this, 211 banks were inspected during 1956, of which 27 were scheduled banks. Since March 1950, when inspections were commenced, 1,123 inspections have been carried out for various purposes.

The Reserve Bank of India (Amendment and Miscellaneous Provisions) Act, 1952, has enlarged the scope of financial accommodation by the Reserve Bank for productive purposes and enabled the Bank to reintroduce high denomination notes.

In pursuance of a press note issued on December 20, 1954, the Government of India nationalized the Imperial Bank as a first step towards the establishment of a State Bank of India by amalgamating the Imperial Bank of India with a number of other banks already associated with some State Governments. The branches would be spread over the whole country thus improving remittance and rural credit supplies. The State Bank came into being on July 1, 1955. Another development was the establishment of a Bankers Training College in Bombay.

TRENDS

In 1956, the deposits of scheduled banks increased by Rs. 86·31 crores to Rs. 1,081·11 Crores. Out of this deposit expansion, Indian scheduled banks accounted for Rs. 67·89 crores. In the context of the sustained rise in deposits, the velocity of deposit money was 45·7, which was more than the levels for 1954 and 1951 of 42·6 and 45·2, respectively.

The 'own' funds of the scheduled banks in the shape of capital and reserves increased by Rs. 57 lakhs. Though this was five times the increase that took place in 1954, it still represented a less than proportionate rise compared to deposits. There was also a higher level of bank credit over the year as a whole. It showed an expansion of Rs. 155 crores.

During the year 1956, banking business as represented by advances and deposits was at a higher level than in 1955. Bank advances rose to a record level, assisted largely by the accretion to deposits and borrowings from the Reserve Bank of India and to a limited extent by the switch from other earning assets. As a result, the banks' investment portfolio as well as cash showed some fall over the year. Since the rate at which advances increased outstripped the rate of growth of deposits, the liquidity position of banks remained taut throughout the year without being much influenced by seasonal factors. This meant a larger recourse on their part to borrowings from the Reserve Bank than in the preceding year. The scarcity of funds in the face of the accelerating demand for credit entailed greater competition amongst the banks to attract deposits which raised the cost of funds in the money market.

The prescription of higher margins and efforts at regulation of the aggregate level of advances against the specific commodities constituted the distinguishing features of the technique of selective credit control in 1956. The objective of the control was to restrain expansion of credit to certain sectors of the economy during certain periods without simultaneously affecting an increasing demand for productive credit. The indications were that this selective control policy was reasonably successful.

The scheduled banks had to rely heavily on the Reserve Bank to fill the gap between their resources and the main earning assets, *i.e.*, advances. Even though the banks had drawn upon their cash assets and unloaded investments to meet the credit demand, these steps proved inadequate. The total of outstanding borrowings under Section 17(4)(*a*) and 17(4)(*c*) by scheduled banks in India increased by Rs. 56·3 crores over the year 1956 in contrast to only Rs. 20·4 crores in 1955 and in no week of the year did they fall below Rs. 27·5 crores, The gross borrowings at Rs. 904 crores were more than twice as much as in 1955 at Rs. 425 crores.

An interesting feature as regards the Bank's lending lately has been that, while hitherto the Indian banks had been the main borrowers under the Bill Market Scheme, in 1955, exchange banks exhibited considerable interest in the scheme. It is a reflection of the belief that the Indian money market is acquiring a greater degree of autonomy. Here, it will be of interest to note that some changes were made in the Scheme. With effect from March 1, 1956, the rate chargeable on advances under the Scheme was raised from 3 per cent to 3½ per cent and the concession so far granted to banks whereby the Reserve Bank shared the cost of the stamp duty involved in converting demand bills into usance bills was also withdrawn.

CONSOLIDATED POSITION OF BANKS IN INDIA

(In lakhs of rupees)

	Year.	No. of Banks.	Paid-up Capital.	Reserves.	Deposits					Cash		Investments		Loans and Advances.	Bills Discounted and Purchased.	Net Profit.	No. of Offices.
					Fixed.	Savings.	Current.	Others.	Total.	In Hand.	At Banks.	Government Securities.	Others.				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Scheduled Banks ..	1954	88	32,66	26,69	299,15	156,18	467,18	73,19	995,70	38,80	100,73	346,63	51,72	498,83	87,59	7,17	2,765
	1955	445	40,96	31,40	355,32	185,20	480,72	120,62	1,141,86	48,61	97,64	407,45	59,27	571,15	133,38	8,91	4,000
	1956	423	40,63	31,60	371,56	208,53	487,47	148,26	1,221,82	49,75	96,46	389,39	61,92	680,72	182,13	10,62	4,067
Non-Scheduled Banks ..	1954	410	8,80	4,81	34,67	12,05	16,38	3,96	66,83	6,17	4,43	21,69	4,99	40,79	1,65	62	1,199
	1955	366	8,11	4,67	34,85	13,17	16,20	5,71	70,13	6,48	3,79	25,24	5,61	37,32	56,20	63	1,142
	1956	334	7,64	4,44	36,49	14,81	15,76	6,69	73,75	6,60	3,46	25,67	6,28	39,82	57,68	71	1,101
Scheduled and Non-Scheduled Banks	1954	498	41,66	31,50	333,82	168,23	483,33	77,15	1,062,53	44,97	105,16	368,32	56,71	539,62	89,24	7,79	3,964
	1955	89	32,85	26,73	320,47	172,03	464,82	114,91	1,071,73	42,13	93,85	382,21	53,66	533,83	131,29	8,28	2,858
	1956	89	32,99	27,16	341,07	193,72	471,71	141,57	1,148,07	43,15	93,00	363,72	55,64	640,90	179,41	9,92	2,966

The following table relates to other financial aspects of these joint-stock banks, including the State Bank (former Imperial Bank of India):

(In lakhs of rupees)

	1952	1953	1954	1955	1956
Per cent of Capital and Reserves to Deposits	9·57	9·11	8·25	7·64	6·98
Per cent of cash in hand and Banks to Deposits..	14·23	12·86	14·13	12·81	11·97
Per cent of Investments to Deposits	41·14	41·31	40·00	40·87	38·94
Per cent of Bank credit to Deposits	60·59	59·05	59·19	61·70	70·62
Number of offices	3,976	3,943	3,964	4,000	4,067
Number of offices outside India	105	106	107	106	100

RESERVE BANK

In pursuance of federal financial integration, the Reserve Bank entered in 1952 into agreements with three former 'B' States, Madhya Bharat, Travancore-Cochin and Mysore, whereby it became their sole banker.

In 1953, it concluded agreements with two more (all former States before reorganization) Part 'B' States, namely, Hyderabad and Saurashtra whereby it became ultimately the sole banker to these States as it already was to all the Part 'A' and Part 'C' States.

The Bank advanced to scheduled banks a gross amount of Rs. 904 crores in 1956 against Rs. 425 crores in 1955 and Rs. 336 crores in 1954. A total amount of Rs. 467 crores was advanced in 1956 by the Reserve Bank for general banking purposes at the Bank rate against Government securities as compared with Rs. 200 crores in 1955. Loans under the Bill market scheme at ½ per cent below the Bank rate aggregated Rs. 437 crores in 1956 against Rs. 225 crores in 1955.

The following table gives the position of the Reserve Bank over a period of years :—

ISSUE DEPARTMENT

(In lakhs of rupees)

Year.	Notes held in the Banking Department.	Notes in Circulation.	Total Notes Issued.	Gold Coin and Bullion.	Foreign Securities.	Rupee Coin.	Govt. of India Rupee Securities.	% of Gold and Foreign Securities to Note Issue.
30th June 1951	34,34	1,257,48	1,292,32	40,02	678,15	57,52	516,63	55·57
,, ,, 1952	34,40	1,129,48	1,163,88	40,02	583,15	76,08	464,63	53·54
,, ,, 1953	38,47	1,136,32	1,174,78	40,02	603,15	91,76	439,86	54·75
,, ,, 1954	41,08	1,172,03	1,213,12	40,02	653,15	98,73	421,22	57·14
,, ,, 1955	31,78	1,309,76	1,341,55	40,02	652,65	105,84	543,65	51·59
,, ,, 1956	28,27	1,474,67	1,502,94	40,02	646,55	107,69	708,68	51·63

BANKING DEPARTMENT

(In lakhs of rupees)

Year.	Paid-up Capital and Reserves.	Deposits.					Bills payable.	Other liabilities.	Total liabilities and assets.	Cash.	Bills purchased and discounted.	Balances held abroad.	Loans and Advances.		Investments.	Other Assets.
		Central Government.	Other Governments.	Banks.	Others.	Total.							To Governments.	To others.		
30th June 1952 ..	10,00	117,25	8,19	56,67	64,44	241,54	3,31	8,01	262,87	34,56	10,19	98,24	1,58	28,28	86,94	3,08
,, ,, 1953 ..	10,00	126,06	18,46	45,24	57,26	247,02	1,96	14,68	273,66	38,69	14,60	111,70	3,40	20,88	79,80	4,59
,, ,, 1954 ..	10,00	124,18	25,53	49,96	41,77	241,45	2,18	20,97	274,60	41,33	5,83	92,65	47	37,47	91,31	5,55
,, ,, 1955 ..	10,00	56,02	9,68	59,79	22,69	146,18	6,95	23,40	186,53	31,91	11,72	60,91	76	28,24	46,39	6,59
,, ,, 1956 ..	10,00	56,82	13,17	54,49	13,08	137,56	5,32	39,81	195,69	28,37	8,36	38,52	2,37	69,68	37,33	8,06

EXCHANGE BANKS

The banks carrying on exchange business in India are merely branch agencies of banks having their head offices in London, on the Continent, in the Far East or the U. S. A. Originally their business was confined almost exclusively to the financing of the external trade of India; but now, most of them, while continuing to play their main role, have also taken an active part in the financing of internal trade. Following the increase in the British bank rate to four per cent in March 1952, exchange banks found it more profitable to tap Indian deposits than to get funds from London. Over the year 1956 the deposits with these Banks amounted to Rs. 189·66 crores as against Rs. 196·50 crores in 1955.

The earlier progress of Exchange Banks was tabulated in the previous editions. The more recent trends are summed up below :—

Liabilities and Assets of Foreign Banks in India

(In lakhs of rupees)

Year	No. of Banks	Deposits					Cash		Bills Discounted and Purchased	Loans and Advances	Investments		No. of Offices	Net Profit
		Fixed	Savings	Current	Others	Total	In Hand	At Banks			Govt. Securities	Others		
1952 ..	17	56,20	10,73	97,28	12,31	176,52	2,57	14,28	19,31	131,03	43,57	1,04	67	1,86
1953 ..	17	52,71	11,60	91,64	9,90	165,84	2,25	12,34	20,44	110,74	45,98	1,03	69	1,39
1954 ..	17	60,02	12,64	92,66	13,17	178,49	2,22	13,83	25,75	124,97	46,40	1,84	67	1,25
1955 ..	17	64,72	14,06	110,15	7,57	196,50	3,22	14,58	31,88	136,09	46,66	3,52	68	1,69
1956 ..	17	60,74	15,37	108,41	5,14	189,66	N.A.	N.A.	40,68	161,22	39,83	41	68	1,61

N. A.—Not Available.

LIABILITIES AND ASSETS BY CLASS

(In lakhs of rupees)

Year	No. of Reporting Banks	Paid-up Capital	Reserves	Deposits					Cash		Bills Discounted and Purchased	Loans & Advances	Investments		Net Profit	No. of Offices*
				Fixed	Savings	Current	Others	Total	In Hand	At Banks			Government Securities	Others		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
State Bank of India																
1952	1	5,63	6,35	35,82	28,74	129,38	11,91	205,85	3,55	21,90	6,05	107,12	80,54	16,61	1,33	410 (12)
1953	1	5,63	6,35	34,88	27,97	131,98	12,14	206,97	3,69	15,95	14,28	92,03	80,95	13,19	1,27	424 (12)
1954	1	5,63	6,35	34,01	27,49	155,89	13,73	231,13	3,70	32,67	6,17	96,15	94,95	13,77	1,37	455 (11)
1955	1	5,63	6,35	33,69	27,92	149,26	14,90	225,77	3,42	25,96	16,80	90,15	104,96	12,02	1,36	484 (11)
1956	1	5,63	6,38	36,90	31,05	152,09	15,43	235,47	3,39	24,39	32,74	107,42	92,59	14,28	1,56	538 (8)
OTHER INDIAN SCHEDULED BANKS																
1952	75	28,08	20,20	151,35	104,39	216,12	37,66	509,52	33,42	50,00	35,41	235,88	195,23	31,65	4,09	2,171 (81)
1953	72	27,12	20,12	178,18	107,74	207,37	39,75	533,04	33,73	46,68	47,67	244,76	201,29	33,44	4,19	2,189 (83)
1954	71	27,03	20,04	205,12	116,05	218,36	46,29	586,08	32,88	54,23	55,67	277,74	205,29	36,11	4,55	2,244 (86)
1955	71	27,22	20,38	243,33	130,05	237,08	51,10	661,55	35,49	53,31	82,67	313,42	231,24	37,98	5,24	2,307 (88)
1956	71	27,36	20,78	246,75	147,30	222,72	108,59	725,36	36,95	53,59	106,03	372,26	231,86	38,49	6,70	2,361 (86)
NON-SCHEDULED BANKS—CLASS A																
1952	70	5,76	3,25	17,78	8,07	11,42	1,55	38,82	3,52	2,32	1,05	23,79	15,29	2,38	20	448 (9)
1953	67	5,56	3,29	20,58	8,02	11,18	1,38	41,16	3,59	2,53	1,08	24,53	15,17	2,90	31	443 (9)
1954	65	5,46	3,37	20,93	5,64	13,06	2,52	45,15	3,82	2,75	1,17	26,02	16,31	3,24	36	453 (9)
1955	62	5,19	3,33	20,80	9,74	13,44	4,46	48,44	4,17	2,25	1,49	23,44	19,47	3,76	37	463 (7)
1956	58	4,91	3,04	21,29	11,05	12,81	5,26	50,49	4,34	1,99	2,14	25,12	19,46	4,18	41	460 (6)
NON-SCHEDULED BANKS—CLASS B																
1952	194	3,00	1,15	12,25	3,31	3,15	1,52	20,23	2,25	1,24	58	15,01	4,78	1,08	28	636 (2)
1953	196	2,82	1,17	11,90	3,09	2,65	1,47	19,11	2,11	1,15	52	13,58	4,92	1,02	26	598 (2)
1954	191	2,66	1,22	11,90	3,03	2,58	1,12	18,63	1,96	1,44	45	12,27	4,99	1,48	22	555 (1)
1955	180	2,39	1,14	12,43	3,15	2,55	1,05	19,18	1,96	1,33	53	11,90	5,86	1,60	23	534 (1)
1956	170	2,25	1,20	13,54	3,49	2,50	1,24	20,77	1,97	1,28	53	12,75	5,78	1,85	25	515 (1)
NON-SCHEDULED BANKS—CLASS C																
1952	114	61	18	1,88	33	50	32	3,03	41	25	4	2,63	33	16	4	170 (1)
1953	114	58	19	1,64	36	50	23	2,79	36	23	4	2,34	36	20	5	154 (1)
1954	116	60	20	1,69	35	47	28	2,79	34	23	3	2,23	37	26	4	149 (1)
1955	98	48	19	1,52	24	38	14	2,28	29	20	7	1,75	38	24	3	116 (1)
1956	93	46	19	1,61	27	36	18	2,42	28	18	5	1,88	42	25	4	112 (1)
NON-SCHEDULED BANKS—CLASS D																
1952	60	12	3	40	7	17	4	68	9	4	1	55	4	7	—2	74 (1)
1953	54	11	3	28	6	8	6	48	8	2	—	42	3	3	—	66 (1)
1954	37	8	2	15	3	4	4	26	5	1	—	24	1	1	—	41 (1)
1955	25	5	1	10	4	3	6	23	6	1	—	20	1	1	—	28 (1)
1956	12	2	1	5	—	1	1	7	1	1	—	7	1	—	1	13 (1)

* No. of offices outside the Indian Union are shown in brackets. N.A.=Not available.

MONEY RATES IN INDIA

	1955	1956
Bank Rate*	3½	3½
State Bank (former Imperial Bank) Rates:		
Hundi Rate**	4½	4½-5
Advances Rate ..	4	4
Call Loan Rate—		
Rs. 5 lakhs and over	3½	3½
Below Rs. 5 lakhs ..	3½	3½
Bazaar Bill Rates †:		
Calcutta	10-12	10-12
Bombay	9½	9-10½
Call Money Rates:		
Calcutta	3½-2½	4½-3½
Bombay—		
Larger Banks ..	3-1½	3½-2½
Smaller Banks ..	3½-1½	3½-2½

* Bank rate was raised to 4 per cent on 16th May 1957. This is the standard rate at which the Reserve Bank is prepared to buy or rediscount bills of exchange or other commercial paper eligible for purchase under the Reserve Bank of India Act.

** The rate at which the State Bank discounts first class three months' commercial bills.

† Rates at which bills of small traders are discounted by shroffs. The quotations are unofficial.

Clearing Houses.—The Principal Clearing Houses in India are those of Calcutta, Bombay and Madras and of these the first two are by far the most important. In 1951-52 Clearing Houses were opened at Bareilly and Jaipur and are being managed by the State Bank of India. This brought the total number of Clearing Houses under the management of the State Bank to 35. In Bombay, a Metropolitan Clearing Association was formed and registered in October 1946 to arrange for clearing for non-scheduled banks as the Bombay Bankers' Clearing House decided to restrict its membership and submembership only to scheduled banks.

The total number of cheques cleared has progressively risen since 1950, the amount which has shown a declining trend in 1952 and 1953, has been higher in 1954, 1955 and 1956.

The figures from 1951 onwards are shown in the table given below :

CLEARING HOUSE STATISTICS

(In lakhs of rupees)

Year	Velocity of Circulation	Calcutta	Bombay	Madras	Kanpur	Delhi	Other Centres	Total
1951 ..	13·0	3,118,84	3,180,57	487,07	145,18	167,58	778,75	7,877,99
1952 ..	12·3	2,703,95	2,679,52	432,57	136,94	157,95	742,47	6,853,40
1953 ..	12·5	2,494,36	2,645,05	397,63	146,47	176,22	743,52	6,603,25
1954 ..	13·0	2,754,28	2,758,75	361,94	141,90	204,70	842,69	7,064,27
1955 ..	13·1	3,056,31	2,995,53	412,21	146,11	233,03	975,82	7,819,01
1956 ..	N.A.	3,079,79	3,285,22	496,24	161,94	197,95*	1,269,97	8,441,11

N.A. Not Available * New Delhi.

ORGANISATION

During 1956-57, the number of scheduled banks remained unchanged at 89 and the number of offices increased from 2,898 in the previous year to 3,011.

It was stated that a landmark in Indian banking was the inauguration of the State Bank of India. An important statutory function assigned to the State Bank is the promotion of banking development through the establishment of an effective machinery of branches spread over the whole country, the number of branches to be opened within a period of five years or such extended period as the Central Government might fix, being 400.

The State Bank opened 58 branches in 1956-57 and 68 branches during 1957-58 up to December 1957.

The Reserve Bank Act was amended in Oct. 1957 to reduce the statutory minimum currency reserve to Rs. 200 crores, of which not less than Rs. 115 crores should be held in gold coin and bullion and the balance in foreign securities.

Till then the Act prescribed a currency reserve of Rs. 115 crores of gold coin and bullion and Rs. 400 crores of foreign securities with a proviso permitting a temporary reduction of the latter to Rs. 300 crores.

To stimulate banking development, remittance facilities for co-operative and other banks were extended, according to the General Report of the Committee of Director of the All-India Rural Credit Survey. Until October 31, 1955, a scheduled or a State Co-operative bank could remit only once a week, an amount of Rs. 5,000 or a multiple thereof, from any place at which there was an agency of the Reserve Bank to any account which it maintained with the Bank, free of charge. But it was liberalised from November 1 onwards by permitting the remittance twice a week.

Under the Reserve Bank of India (Amendment) Act, 1955, the Bank set up, on February 3, 1956, the National Agricultural Credit (Long-Term Operations) Fund with an initial sum of Rs. 10 crores. An annual contribution of not less than Rs. 5 crores for the five years commencing from June 30, 1956, is to be made towards this Fund. This Fund will make loans and advances to State Governments for subscribing to the share capital of co-operative credit institutions and to central land mortgage banks. The first loans of Rs. 8 lakhs was made by the Fund to the Government of Madras.

Another development during 1955 was the Bank Award and the Industrial Disputes (Banking Companies) Dicision Act, 1955. It was in July 1955, the Bank Award Commission submitted its recommendations. The main recommendations were that (1) the Labour Appellate Tribunal's Award be restored with certain modifications in the case of all 'A' Class banks (Indian and foreign), all 'B' class banks, except the Bank of Bikaner and the United Bank of India, and certain 'C' class banks; and (2) the total exemption from the application of the Award to places with 30,000 or less population in the former Part B and Part C States (other than Delhi, Ajmer and Coorg) allowed in the Government's modified decision be altered and the exemption limited to such places in former Travancore-Cochin only and that too in respect of banks registered in that State, except the Travancore Bank for a period of two years from the date of announcement of Government's final decision on the Commission's Report. The Government accepted the recommendations and accordingly the Industrial Disputes (Banking Companies) Decision Act, 1955, was passed in September, enforcing the Award for a period of five years from April 1, 1954.

The year 1956 was significant not so much for the progress achieved by the banking system on the organisational side as for the heavy impact of the rising tempo of development on the operations of banks and the experience of a severe monetary stringency, which was in a sense the culmination of trends in the economy first discerned in 1953 when the pace of economic development began to gather momentum.

It has been proposed to set up a Refinance Corporation, the main object of which is to help augment the resources available with the banking system for the use of medium-sized industrial units (*i.e.*, units having resources upto Rs. 2½ crores) in the private sector. The Corporation's share capital is tentatively proposed to be made up of contributions from the Reserve Bank (Rs. 5 crores), the State Bank of India (Rs. 2½ crores), the Life Insurance Corporation of India (Rs. 2½ crores) and 14 other selected scheduled banks in India (Rs. 2½ crores). The allocation of share capital as between the 14 banks is in broad relation to the size of their deposits in India. The Government of India would be placing with the Corporation Rs. 26 crores from the counterpart funds arising out of the sale proceeds of the agricultural commodities supplied to this country in terms of the recently concluded Indo-U.S. Agreement. The Corporation will be allocating quotas to banks grouped into 4 categories with reference to the size of their deposits, from its total funds of Rs. 38·5 crores within which the banks may offer certain types of loans to the Corporation for obtaining refinance. Loans to be eligible for this purpose should have been made for periods between 3 and 7 years and to a medium-sized industry and for a medium-sized amount. Lending banks would assume the full credit risk on loans submitted to the Corporation and it is expected that the Corporation will adopt eligibility criteria which will be liberal. It is envisaged that the interest rate spread between the cost of discount with the Corporation and the prime lending rate of the banks might not be less than 1½ per cent. The scheme will thus provide an opportunity to selected banks for extending formal term lending facilities to industries and providing liquidity to the eligible paper offered by banks upto the extent of quotas which would be allotted to them.

STOCK EXCHANGE

THE earliest reference to stock broking in India dates back to the end of the 18th century when transactions in Government securities and the shares of the East India Company used to take place in Calcutta under a *neem* tree. Similar references are also available about business in shares in Bombay before 1840. The boom following the American Civil war gave a great impetus to this business.

The Native Share and Stock Brokers' Association of Bombay was formally constituted by an indenture dated December 3, 1887 and was recognised by the Government of Bombay for forward trading in shares under the Bombay Securities Contracts Control Act, 1925. Since then several attempts were made to start rival stock markets in Bombay, the latest one being the Indian Stock Exchange started in 1938.

The Government of India has so far (up to 17th December 1957) recognised five stock exchanges, namely, The Stock Exchange, Bombay, The Ahmedabad Share and Stock Brokers' Association, Ahmedabad, The Calcutta Stock Exchange Association Ltd., Calcutta, The Madras Stock Exchange Ltd., Madras and The Delhi Stock Exchange Association Ltd., New Delhi. The general principles regarding grant of recognition to a stock exchange as laid down in Section 4(1) of the Securities Contracts (Regulation) Act, 1956, has been followed. The Act does not envisage amalgamation, as such, of stock exchanges either before or after recognition is granted under section 4 thereof. Nevertheless, to avoid undue hardship to members of the exchanges which have not been recognised, the Government has prescribed certain terms and conditions on which active members of the unrecognised exchanges can seek admission to the recognised exchange.

The Government of India has given recognition to only one stock exchange in Bombay, that is, to the Native Share and Stock Brokers' Association (now known as Stock Exchange, Bombay) under the Securities Contracts (Regulation) Act. The recognition has taken effect from 31st August 1957. Recognition was not given to the Indian Stock Exchange Ltd.

The members of the Indian Stock Exchange Ltd., were, however, entitled to apply for membership of the recognised Bombay Stock Exchange provided they fulfilled or complied with the specified terms and conditions They were required to apply for membership before 15th October 1957; it was open to the Board of the recognised Stock Exchange to extend this period in *bona fide* cases and to consider the applications received after that date. Government further decided that section 13 of the Securities Contracts (Regulation) Act, 1956, should apply to the Greater Bombay area in the State of Bombay with effect from 15th October 1957. The effect of the application of section 13 to the Greater Bombay area is that every contract in this area which is entered into after 15th October 1957, otherwise than between members of the recognised Stock Exchange or through or with such member, will be illegal.

Calcutta Association.—The Calcutta Stock Exchange Association was founded at No. 2, New China Bazar Road (now known as 2, Royal Exchange Place), Calcutta, with 150 founder members in 1908. Fifteen years later, it was registered as a limited liability concern. The Association is controlled and managed by a Committee and has a membership of 232 brokers.

The only registered institution in south India of brokers dealing in shares and securities is the Madras Stock Exchange Association, Ltd., registered in 1937.

During the boom period several stock markets were started at other industrial centres. These include Delhi and Kanpur.

The Ahmedabad Stock Exchange is also a registered body and recognised by the Government of Bombay under the Bombay Securities Contract Control Act.

There are also organised stock markets in Hyderabad and Indore.

SECURITIES ACT

The Securities Contracts (Regulation) Act, 1956, is the first All-India legislation seeking to control transactions on securities and to regulate stock exchange practices. Prior to this Act, there was no legislation for the purpose except in the old State of Bombay.

The Bombay Securities Contracts Control Act, 1925, was not, however, particularly effective because of two main shortcomings: (1) The Act made transactions outside a recognised stock exchange merely void but not illegal. (2) While the Act purported to control only forward business, it did not make a clear distinction between ready and forward transactions. To remedy these and other defects, the former Bombay Government enacted in 1947, the Bombay Forward Contracts Control Act; but this Act was not applied to securities presumably because Central legislation of this subject has been in contemplation.

But the outbreak of World War II came in the way of immediate legislation and it was only after the end of hostilities effective steps were taken in this direction, which resulted in the Securities Contracts (Regulation) Bill, introduced in the Lok Sabha on December 24, 1954. It was largely based on the recommendations of the Gorwala Committee appointed in June 1951. The Bill was referred to a Joint Committee of the Houses of Parliament towards the end of 1955. It submitted its report to Parliament on February 29, 1956. The Bill, as revised by the Joint Committee, was passed by the Lok Sabha, with some amendments, on July 16 and by the Rajya Sabha on August 6. It received the assent of the President on September 4, 1956.

Main Provisions

Broadly speaking, the Act applies to transactions other than spot delivery contracts. But power has been taken in the Act to regulate spot delivery contracts also, if the Government regards it as desirable in the interest of trade or in the public interest.

As regards contracts other than those for spot delivery, the regulation takes the form of either controlling the activities of stock exchanges in those areas or States where stock exchanges operate, or through a system of licensing of persons who deal in stocks and shares. In those areas where the stock exchanges operate and to which Section 13 of the Act will be applied, every contract which is entered into otherwise than between members of a recognised stock exchange in such State or area or through or with such members is illegal.

The Act permits only those stock exchanges to function which are recognised by the Central Government. For this purpose, each stock exchange is required to make an application in the prescribed manner to the Central Government, who will grant recognition if the Government is satisfied in regard to certain conditions. Every recognised stock exchange is required to furnish to the Central Government such periodical returns relating to its affairs as may be prescribed.

Subject to the previous approval of the Central Government, any recognised stock exchange may make bye-laws for the regulation and control of contracts. But the Government has the power to make or amend these bye-laws.

Important provisions relating to the listing of securities on a stock exchange are also contained in the Act. In regard to the licensing of dealers and brokers in securities, there are no detailed provisions.

So also no direct provisions are contained in the Act to restrict the prevalence of black transfers, but there is a provision to discourage black transfers indirectly.

MARKET TRENDS

Throughout the war period, the stock market was fed on a veritable boom caused by cheap money and inflation. The index of Government securities moved up from 107·6 in August 1939 to 120·4 in 1946-47 and that of fixed yield industrial securities from 137·7 to 197·8 on the basis of 1927-28 quotations equal to 100. In the same period, the index of variable yield industrial securities advanced from 98·5 to 268·6. In the following four years the economic uncertainty, post-partition riots and the general thinning of investment demand had an adverse effect on the stock markets and the capital values registered a marked depreciation. Thereafter a feeble recovery was noticeable but the volume of business continued to be at a low ebb and even the Korean War in mid-1951 did not stimulate speculative excesses in industrial shares.

The table below based on the data collected by the Reserve Bank broadly indicates the trend in regard to paid-up capital of variable yield industrial shares quoted on the stock exchanges of Bombay, Calcutta and Madras and their market value in the post-war years 1948-51 :—

(Rupees in lakhs)

—	October 1948	31-3-1949	31-3-1950	31-3-1951
No. of Companies	779	833	829	827
Paid-up Capital	20,596	22,714	23,015	23,808
Market Value	40,563	37,933	35,400	43,367

(*See also table on next page*).

During 1951-52 the Stock Exchange turned downward following the evaporation of inflationary pressures and the debacle reached its nadir in March 1952 when the crash on the market, preceded by a heavy slump in commodities, resulted in the temporary closing down of the market.

The behaviour of the stock market during the financial year 1952-53 fitted the customary pattern of disinflation. With the general rise in interest rates, ideas of equity yields were revised in an upward direction and buyers turned more exacting in their demands for safety and liquidity of capital.

The equities market ruled buoyant during most of the years 1953-54 and 1954-55 in contrast to the weakness evinced during the previous year. The annual average index of variable dividend securities rose by about 20 per cent between 1953-54 and 1954-55. The Reserve Bank index for industrials rose from 102·6 in March 1954 to 120·9 in September, and after declining to 113·7 in December, moved up to 115·4 in March 1955. On November 29, it touched the highest of the year at 131·9, but declined to 113·6 on January 1, 1956.

For the share market, however, 1955-56 was a memorable year. Buoyancy on a wide scale prevailed all through the year, and the index for industrials touched the highest at 131·9 on November 26. But the boom ended with 1955, for January 1956 witnessed a heavy landslide in prices, in fact wiping out all the gains which the market made in 1955. The downward trend continued till the end of May. The slump was mainly due to the fact that the technical position was vulnerable. This was precipitated by the controversy over the States reorganisation and the violence that accompanied it, by the Ordinance nationalising life insurance, by the fears of further heavy taxation in the next budget including a ceiling on income and by the stock exchange legislation before Lok Sabha. It is also reflected, in part, the markets' reaction to the enactment in April 1955 of the Constitution (Fourth Amendment) Bill, which made the issue of compensation for nationalisation non-justiciable.

The upswing in prices, which followed the short-lived reaction of January-February 1956, was carried somewhat further upto the end of August, the Reserve Bank's all-India index for variable dividend securities recording a modest rise from 124·6 at the end of March 1956 to 128·6 by 1st September—a level which was only slightly lower than the peak of 131·9 attained at the end of November 1955. The market's reaction to the Government's revised industrial policy, announced early in April 1956, was apparently not unfavourable. Sentiment was also favourably influenced by the expanded size of the Second Plan as compared with the First Plan. The firmness was also sustained by the prevailing optimism regarding the trend of company earnings and dividends and prospects of bonus issues and the new import policy for the half year ended December 1956, announced at the end of June, which provided for a further liberalisation of import of machinery and industrial raw materials. Textiles and steel shares were in the forefront of the advance; while the former group was aided, among other things, by rising domestic consumption, the latter group was favourably influenced by the prospect (since materialised) of an early grant of a $75 million loan to the Tata Iron and Steel Company by the World Bank.

For the year as a whole, the market recorded a fall of 9·2 per cent, with the Reserve Bank's all-India index of variable dividend industrial securities (base: 1940–50 = 100) falling from 122·4 for March 1956 to 111·1 for March 1957. This decline contrasted with the successive net increases of 6·1 per cent, 12·5 per cent and 9·4 per cent recorded in the preceding three years. Region-wise, the Calcutta share market recorded the largest decline of 4·8 per cent. The Madras market, however, recorded a small net rise of 0·4 per cent. These regional divergences arose mainly from the differences in the industrial groups traded at these centres.

In the gilt-edged market, the firm tendency which generally prevailed during 1955–56 was carried further upto about mid-June, mainly on sustained investment demand from non-bank institutional investors. On the other hand, scheduled banks, which were under severe pressure for funds, reduced their gilt-edged portfolio between March and June to the tune of Rs. 12 crores. The Reserve Bank's average index for Government of India securities (base: 1949–50 = 100) moved up from 90·7 in March to 91·1 in June.

For the year as a whole (1956–57), barring a few short dated loans which showed increases of 6 nP to 18 nP, most of the remaining issues recorded declines which were particularly marked in the long and undated issues. The 3 per cent Conversion Loan of 1946, which had declined by Rs. 3·81 in 1955–56, declined further by Rs. 2·50 to Rs. 2·56, and in the dated section the 3 per cent 1970–75 loan registered the maximum decline, of Rs. 1·88 which wiped out particularly the rise of Rs. 2·31 recorded in the previous year. In the case of State loans, the declines over the year ranged upto Rs. 1·63 in the case of the M.P. Loan 1967. Over the year, yields on Central Government securities hardened by about ¼ per cent. For instance, the 3 per cent 1970–75 Loan fetched an yield (to later redemption date) of 3·98 per cent at the year end, as against 3·75 per cent a year before. The yield (flat) of the 3 per cent Conversion Loan of 1946 also rose from 3·91 to 4·04 per cent. In the case of State loans also the rise in yields was about ¼ per cent. Thus the Andhra Loan 1968 fetched 4·24 per cent at the end of March 1957, as against 4·05 per cent at the time of its issue in September 1956.

From December 1946, the Reserve Bank of India started constructing indices of security prices. These indices (all-India) reveal the following trend :—

Average of Weeks	Government & Semi-Government Securities	Industrial Securities		Banks	Insurance	Investment Trusts	Electricity Tramways	Shipping and other Transport	Railways	Plantations	Cotton, Woollen and Silk Mills	Jute Mills	Coal	Mining and Oil	Iron and Steel	General Engineering	Sugar	Breweries	Chemicals	Paper	Cement
		Fixed Dividend	Variable Dividend																		
Base: 1938=100)																					
1949–50	101·2	101·9	115·4	121·6	123·0	172·8	84·2	99·1	90·6	123·7	154·8	84·0	107·8	61·1	134·5	154·2	116·1	104·9	157·0	99·4	120·4
1950–51	100·0	101·0	124·2	122·8	123·5	163·1	89·1	94·5	91·7	152·9	157·5	93·3	120·9	71·8	159·6	176·3	101·1	101·9	173·3	114·3	135·8
1951–52	95·8	97·2	127·8	116·1	112·1	149·2	90·2	98·6	87·5	177·5	169·4	99·5	125·7	76·9	163·4	172·0	97·1	84·1	176·2	127·7	143·8
1952–53	91·7	90·8	107·3	103·2	99·5	139·4	82·7	85·5	74·7	126·8	135·1	78·3	91·3	63·4	131·0	140·1	83·8	59·5	134·9	114·3	140·7
Base: 1949–1950 = 100)																					
1952–53	90·1	87·3	94·0	85·0	98·0	75·0	115·0	88·0	82·0	89·0	94·0	91·0	84·0	120·0	97·0	101·0	85·0	—	94·0	151·0	118·0
1953–54	90·4	87·3	95·6	86·0	97·0	75·0	116·0	94·0	82·0	92·0	96·0	82·0	78·0	132·0	107·0	113·0	85·0	—	99·0	159·0	116·0
1954–55	90·5	88·4	112·9	87·0	108·0	90·0	123·0	108·0	88·0	156·0	107·0	93·0	82·0	186·0	140·0	156·0	101·0	—	132·0	211·0	141·0
1955–56 .. .	90·9	87·3	121·6	88·2	103·1	93·4	122·5	106·4	89·2	184·6	117·6	95·3	81·3	235·0	154·1	188·9	104·7	—	144·1	255·7	164·4
1956–57	90·5	82·9	121·2	93·7	87·2	89·9	112·4	117·8	83·5	170·4	133·7	70·2	78·1	232·7	146·6	187·7	105·0	—	144·0	266·1	175·7

CAPITAL MARKET

Until the beginning of the Second World War the capital market had made a slow but steady progress; but its pace quickly accelerated during the War period when the monetary inflation and the rising trend of industrial profits served as a first class stimulant to its growth which was spectacular. The post-war period has, however, served mainly towards consolidating the early gains. A broad idea of the expansion of the market can be had from the fact that between 1938-39 and 1946-47, the interest-bearing obligations of the Government of India increased by Rs. 1,176 crores, while consent for the issue of capital was granted to the tune of Rs. 640½ crores from May 17, 1943 to March 31, 1947.

CAPITAL ISSUES

The previous year's brisk activity in the new issue market continued during 1955. The total amount of issues sanctioned by the Controller of Capital Issues increased from Rs. 111 crores in 1954 to Rs. 125 crores in 1955, the highest since 1948. There was also a larger rise in the total amount asked for in respect of applications decided, from Rs. 117 crores to Rs. 151 crores. Of this, industrial issues sanctioned were Rs. 98 crores while non-industrial issues obtained only Rs. 28 crores. Industry-wise, the largest amounts were sanctioned in respect of water transport (Rs. 19 crores), rayon manufacture (Rs. 13 crores) and petroleum refineries (Rs. 12 crores), followed by electricity (Rs. 9 crores) and cotton spinning and weaving mills and cement (Rs. 8 crores each). State-wise, Bombay* accounted for Rs. 57 crores and West Bengal Rs. 31 crores.

Of the amounts sanctioned, those for initial issues declined from Rs. 58 crores in 1954 to 47 crores in 1955; but those for further issues rose from Rs. 53 crores to Rs. 78 crores. On the other hand, the amount sanctioned for debentures declined from Rs. 20 crores to Rs. 17 crores, and that for bonus issues from Rs. 10 crores to Rs. 6 crores. One noteworthy feature of 1955 was the shift from ordinary shares and debentures to preference shares and miscellaneous issues. Ordinary shares declined from Rs. 77 crores in 1954 to Rs. 57 crores in 1955 and debentures from Rs. 20 crores to Rs. 17 crores, while preference shares rose from Rs. 6 crores to Rs. 24 crores and miscellaneous issues from Rs. 6 crores to Rs. 27 crores.

Foreign participation was in evidence in respect of 123 companies for Rs. 22·5 crores as against 108 companies for Rs. 29 crores. Out of this, 20 initial issues accounted for Rs. 7 crores, 43 further new issues for Rs. 14·4 crores and 60 bonus issues for Rs. 1 crore. The share of residents in the U.K. was Rs. 7 crores and in the U.S. Rs. 5 crores.

The new issues market had yet another active year in 1956–57, with a not insignificant rise in volume. There also appears to have been a shift from debentures to preference and ordinary shares, judging from big issues. The important new issues made during 1956 included the ordinary shares of the Tata Iron and Steel Co. for Rs. 9·64 crores (issued at a premium of Rs. 3·86 crores) and of Associated Cement Companies for Rs. 6·36 crores (offered at a premium of Rs. 1·27 crores) and the 6 per cent (tax-free) cumulative preference shares, redeemable after 30th June 1963 and convertible into ordinary shares after 5 but before 10 years, issued by Hindustan Motors for Rs. 5 crores. The other large issues of Rs. 1 crore and above were the 5 per cent (taxable) debentures, 1960–65 issued by the Tata Locomotive and Engineering Co. for Rs. 1·50 crore, the ordinary shares for Rs. 1 crore and the 6 per cent (tax-free) cumulative preference shares, 1966–71 for Rs. 50 lakhs issued by Saurashtra Cement and Chemical Industries, the ordinary shares of Voltas for Rs. 1·05 crore and the 5½ per cent (tax-free) cumulative second preference shares, 1967 issued by Kesoram Cotton Mills for Rs. 1 crore.

Data regarding actual capital raised from year to year are not available. However, figures of capital subscribed and paid-up against the consents granted during the seven years 1950 to 1956 are available in respect of companies which have reported to the Controller of Capital Issues. The data of subscribed and paid-up capital give an encouraging picture. During the seven-year period 1950–56, new issues amounting to Rs. 632 crores were sanctioned, of which Rs. 481 crores were in respect of ordinary and preference shares issued for cash, Rs. 67 crores for bonus issues and Rs. 85 crores for debentures. Of these, data regarding capital raised are available only in respect of companies which were sanctioned Rs. 366 crores. As against Rs. 253 crores sanctioned for share capital against cash subscriptions, the amount subscribed and paid-up in respect of these companies was Rs. 206 crores and Rs. 170 crores, respectively, as at the end of 1956. As regards debentures, Rs. 49 crores were subscribed and paid-up, as against Rs. 56 crores sanctioned.

A significant development during 1955–56 was the enactment in February 1956 of a bill to extend indefinitely the Capital Issues (Continuance of Control) Act, 1947.

Control of Capital Issues

(Rupees in Crores)

YEAR	APPLICATIONS*		CONSENTS									
			Total		Initial		Further Others		Further Debenture		Further Bonus	
	No. of Companies	Amount	No. of Companies	Amount	No. of Companies	Amount	No. of Companies	Amount	No. of Companies	Amount	No. of Companies	Amount
1950	320	84·93	263	74·75	47	13·69	98	41·59	25	10·93	93	8·54
1951	410	68·32	343	59·56	46	21·60	153	23·27	16	3·92	128	10·77
1952	326	152·33	254	39·79	23	12·69	121	17·57	9	1·75	101	7·77
1953	272	89·79	232	81·39	31	18·34	97	34·42	20	13·92	84	14·72
1954	267	116·98	220	110·57	74	57·94	49	16·49	24	20·29	55	9·88
1955	374	151·42	289	125·39	76	46·90	80	27·48	23	17 33	85	6·47
1956	362	254·49	297	230·15	69	80·29	113	76·67	12	11·40	72	8·50

* Figures relate only to applications disposed of during the period and not to applications actually received during the period.

COMPANY LAW

In 1951 the Government of India appointed an expert committee, with Mr. C. H. Bhabha as Chairman, to suggest an overhaul of the Company Law. But trafficking in managing rights and cornering of shares in the open market with a view to acquiring control over the management of well-established and reputable companies for anti-social purposes had reached such proportions that Government decided to promulgate an Ordinance on July 21, 1951. On September 14, the Indian Companies Act was amended.

The Companies Bill, based largely on the recommendations of the Company Law Committee was introduced in Parliament on September 2, 1953 and was approved by Parliament on November 22, 1955. The Act came into operation on April 1, 1956.

The main features of the Act are:

(1) Equity shares with differential rights regarding voting, dividend, participation in capital on dissolution, are prohibited.

(2) It puts restrictions on inter-company loans and investments.

(3) There is a ceiling on overall managerial remuneration.

(4) Most decisions of the management and even of the Shareholders of a Company require the approval of the Government before they are put into effect.

(5) The appointment of a managing agent or an associate as a selling or buying agent outside India requires approval by a special resolution.

INDUSTRIAL FINANCE CORPORATION†

Under the Industrial Finance Corporation Act, a Corporation was established on July 1, 1948 to provide medium and long-term finance to public limited companies and co-operative societies registered in India, including the acceding States, and engaged in the manufacture or processing of goods or in mining or in the generation or distribution of electricity or any other form of power. Individuals, partnership firms or private limited companies are thus excluded from the purview of the Corporation's operations. With the setting up of a number of State Financial Corporations, it was agreed that applicants for loans upto Rs. 10 lakhs or 10 per cent of the paid-up capital of the State Financial Corporation of the State in which they are situated, if that was lower than Rs. 10 lakhs, should be advised to apply not to the Industrial Finance Corporation but to the State Financial Corporation concerned. The authorised share capital is Rs. 10 crores, divided into 20,000 shares of Rs. 5,000 each, the paid-up capital being Rs. 5 crores in respect of 10,000 shares issued. To this issue, the Central Government and the Reserve Bank of India subscribed Rupees one crore each, the scheduled banks and financial institutions like insurance companies and investment trusts, Rs. 1½ crores each, and co-operative banks Rs. ½ crore. The paid-up value of the share capital and dividends on it at the minimum rate of 2½ per cent. per annum are guaranteed by the Government. The Board of Directors consists of thirteen members, of whom four are nominated by the Central Government and two by the Reserve Bank of India, and seven are representatives of scheduled banks, insurance companies, investment trusts and other financial institutions.

* Pre-reorganization.

† For possible later particulars see under Corporations under 'Late Particulars.'

The Corporation is authorised to borrow up to ten times the amount of its paid-up capital and reserve fund. When the Reserve Fund equals the authorised capital of Rs. 10 crores, the borrowing capacity of the Corporation will be Rs. 200 crores. The Corporation may also accept deposits for periods of not less than five years, but the total deposits accepted may not exceed Rs. 10 crores. It is empowered to provide financial assistance in the following ways:

(*i*) grant loans or subscribe to debentures of industrial concerns repayable within a period of 25 years secured by sufficient pledge, hypothecation or mortgage of tangible assets; (*ii*) underwrite the issue of stocks, shares and debentures; (*iii*) guarantee loans floated in the market repayable within a period not exceeding 25 years; (*iv*) lend to units engaged in "processing of goods"; (*v*) provide credit particularly to new industrial concerns which are not in a position to offer adequate securities but deserve encouragement from the point of view of national economy; and (*vi*) guarantee deferred payments by industrial concerns for equipment imported from abroad.

The Corporation is prohibited from subscribing directly to the shares or stocks of companies and is primarily a lender and not a partner in industry. Its policy is to finance the acquisition of fixed assets and thereby supplement rather than compete with the activities of commercial banks.

The Industrial Finance Corporation Act, 1948 and the State Financial Corporations Act, 1951 were amended by the Industrial and State Financial Corporations (Amendment) Act, 1955, which came into force on September 18, 1955. The amending Act provided, among other things, for a 'Central Committee' instead of an Executive Committee of the Board of Directors, and the appointment of a stipendiary Chairman to be assisted by a General Manager in place of the honorary Chairman and a paid whole-time Managing Director; for the grant of right to the Corporation to borrow from the Central Government, and to lease any property pledged or mortgaged to the Corporation; and for the removal, with the permission of the Central Government, of the seven-year limit in respect of the period up to which the Corporation may hold any stocks, shares, bonds or debentures in fulfilment of its underwriting liabilities. It also enabled industrial concerns, formed with the object of engaging in the manufacture or processing of goods, to become eligible for financial assistance even before they start production.

In September 1948 the Corporation started functioning with Mr. Shri Ram as Chairman and Mr. Ram Nath as Managing Director. In August 1949 the Corporation decided to augment its resources by issuing 3½ per cent. bonds repayable in 1964. The Act was amended with effect from December 29, 1952 in order to enable the Central Government to guarantee loans in foreign currencies and in certain other respects, *e.g.*, shipping companies are now eligible for loan from the Corporation.

Up to the end of June 1957 the Corporation sanctioned over Rs. 55·11 crores by way of loans. Amount sanctioned in 1956–57 alone aggregated Rs. 11·91 crores.

The break-up of the loans sanctioned by the Corporation from June 30, 1949 to June 30, 1957 is as follows (Rs. in lakhs):

Food Manufacturing (except Beverage) 1,631·00; Textiles 844·25; Artificial Fibres 110·00; Wood and Cork (except Furniture) 30·00; Paper and Paper Products 421·50; Rubber Products 15·50; Basic Industrial Chemicals including Fertilizers 751·00; Vegetables and Animal Oil and Fats 11·00; Miscellaneous Chemical Products 77·25; Glass and Glass Products 127·50; Pottery, China and Earthenware 64·25; Cement 377·00; Basic Metal Industries —Iron and Steel 23·00; Non-Ferrous Metals 117·00; Metal Products except Machinery and Transport Equipment 193·50; Machinery (except Electrical Machinery) 142·50; Electrical Machinery, Apparatus, Appliances & Supplies 170·70; Rail-Road Equipment 50·00; Motor Vehicles and Ancillaries 148·00; Bicycles 80·50; Manufacturing Industries 43·30; Electric Light and Power 82·75.

During the year the rate of interest charged by the Corporation on its loans and advances remained unchanged at 6½ per cent., as also the rebate at ¼ per cent. on prompt payments. With effect from 23rd April 1957, the lending rate was raised to 7 per cent.

Net profit for year ending June 30, 1957, Rs. 12,25,000.

The Central Committee of the Board of Directors of the Corporation consists of the Chairman of the Board (who shall be the Chairman of the Committee), two Directors elected by the nominated Directors and two Directors elected by the elected Directors. The present composition of the Central Committee is: K. R. K. Menon (Chairman); S. C. Roy and *vacant* (elected by the elected Directors), S. P. Virmani and L. K. Jha (elected by the nominated Directors).

The present Board of Directors consists of: K. R. K. Menon (Chairman), V. P. Varde, S. V. Ramamurti, G. D. Ambekar, S. P. Virmani, L. S. Vaidyanathan, S. C. Roy, M. Ct. Muthiah, S. K. Basu, R. M. Deshmukh, B. Venkatappiah, M. R. Bhide and L. K. Jha.

General Manager, H. V. Venkatasubbiah, *Secretary*, Dalip Singh.

STATE FINANCIAL CORPORATIONS

An Act to provide for the establishment of State Financial Corporations was passed in October 1951. The Act enables the State Governments to establish a Financial Corporation for the State under a name to be specified by notification; and the State Government concerned, the Reserve Bank, scheduled banks, insurance companies, investment trusts, co-operative banks and other financial institutions will be entitled to subscribe to the share capital. Parties other than these can also be shareholders; but their aggregate holding will not exceed one fourth of the total capital. The shares allocated will not be transferable except to the State Government, the Reserve Bank or any other recognised financial institution.

The shares of the Corporation will be a trustee security under the Indian Trusts Act and an approved security under the Insurance and Banking Acts. The shares shall be guaranteed by the State Government in regard to the repayment of principal and the payment of annual dividend at such minimum rate as the State Government may, with the approval of the Central Government, fix by notification. The Corporation may issue bonds and debentures for increasing its working capital and accept deposits of not less than five years' maturity.

The management of the Corporation will vest in a Board of Directors composed of three nominated by the State Government, one by the Central Board of the Reserve Bank, one by the Industrial Finance Corporation of India, one each by scheduled banks, co-operative banks and other financial institutions and one to represent other shareholders. The Managing Director will be an ex-officio member of the Board. The first Board will be constituted by nominating the representatives of the various interests by the State Government.

The Corporation may transact the following business:—(*a*) the guaranteeing of loans raised by industrial concerns in the public market for not more than 20 years; (*b*) the underwriting of the issue of stocks, shares, bonds or debentures by industrial concerns; (*c*) the granting of loans or subscribing to debentures of industrial concerns repayable within 20 years; and (*d*) other business arising or ancillary to the above. The limit of accommodation to any industrial concern will be up to a maximum of one-tenth of the Corporation's share capital subject to a maximum of Rs. 10 lakhs.

Up to the end of March 1957, 11 States had established State Financial Corporations—Punjab, Bombay, West Bengal, Kerala, U.P., Rajasthan, Assam, Bihar, Madhya Pradesh, Andhra and Orissa. Each Corporation has an authorised capital of Rs. 2 crores and issued capital of Rs. one crore, excepting U.P. which has an authorised capital of Rs. 3 crores and issued capital of Rs. 50 lakhs and Bihar an issued capital of Rs. 50 lakhs but the distribution of the Capital as between the State Government, Reserve Bank, financial institutions and others varies from one State to the other.

For State Financial Corporations see under each State.

JOINT STOCK COMPANIES

ACCORDING to the data published by the Controller of Capital Issues, the total amount asked for in respect of applications decided during 1956 rose sharply from Rs. 151 crores in 1955 to Rs. 254 crores.

There was a larger rise in the total amount of issues sanctioned, from Rs. 125 crores to Rs. 230 crores, the highest since 1948. Consequently, the percentage of the amount sanctioned to the amount asked for increased from 83 to 90.

Government companies accounted for Rs. 59 crores, or 26 per cent of the total amount sanctioned in 1956.

As in previous years, industrial issues, which were sanctioned Rs. 193 crores during 1956, continued to predominate over non-industrial issues, which were sanctioned Rs. 38 crores during the year.

The amount sanctioned for initial issues (*i.e.* issues of new companies) rose from Rs. 47 crores in 1955 to Rs. 80 crores in 1956 and that for further issues (*i.e.* issues of existing companies) from Rs. 78 crores to Rs. 150 crores.

As regards foreign participation the amount sanctioned for issue to non-residents rose from Rs. 23 crores in 1955 to Rs. 49 crores in 1956.

The share of residents in the U.S.A. rose from Rs. 5·2 crores to Rs. 35·9 crores, and that of residents in the U.K. from Rs. 6·9 crores to Rs. 7·2 crores.

Out of the total amount sanctioned, initial issues accounted for Rs. 3·7 crores, further new issues (including loans) for Rs. 43·4 crores and bonus issues for Rs. 1·9 crores.

Some facts and figures relating to joint stock companies are given in the following tables :—

Consents for Issue of Capital

(Rupees in crores)

Year	No. of consents	Total of Issues		
		Industrial (Rs.)	Non-Industrial (Rs.)	Total (Rs.)
1952	254	32·7	7 1	39·8
1953	232	71 4	10 0	81·4
1954	220	93 9	16 7	110·6
1955	289	97·5	27·9	125·4
1956	297	192 6	37·6	230 2

Consents granted to Non-residents

(Rs. in crores)

Year	No. of consents	Amount allowed for issue to non-residents (Rs.)	Share of U.K. (Rs.)	Share of U.S.A. (Rs.)
1952 ..	64	7·7	2·8	4·7
1953 .	101	17·5	10·3	0·1
1954 ..	108	28·8	25·7	0·9
1955 ..	123	22·5	6·9	5·2
1956 ..	160	49·0	7·2	35·9

Industrial Distribution of Companies

(Capital in crores of rupees)

Industrial Groups	1954-55* No. of Companies	1954-55* Paid-up Capital
Banking and Loan ..	1,908	74 8
Insurance	332	12 0
Cotton Mills	652	1,15 0
Jute Mills	108	30·9
Mills for Wool, Silk, Hemp, etc. ..	168	12·1
Paper Mills	64	11·7
Rice and Flour Mills ..	221	4·7
Tea	567	26 9
Coffee .. .	27	1·3
Coal	481	22 6
Breweries .. .	42	1·9
Sugar	213	29·6
Printing, Publishing and Stationery .	1,747	14·0
Chemicals and Allied Trades .. .	1,697	49·7
Iron, Steel and Shipbuilding	734	44·5
Engineering	1,171	27·7
Public Service Companies	410	49
Clay, Stone, Cement, etc.	354	31 8
Tobacco (Cigars, etc.) .	91	10 3
Soap, candles, etc. ..	105	3·6
Match	56	3·5
Oil Mills	363	11·8
Rubber	67	4·1
Manganese .. .	14	0·2
Petroleum	22	2 8
Estate, Land and Building	949	20·3
Hotel, Theatres, etc. ..	1,678	12·9

* Provisional figures.

State-wise Distribution of Companies

(Capital in crores of rupees)

State*	1954-55† No. of Companies	1954-55† Paid-up Capital
Assam	375	4·6
Bengal	12,196	3,18·5
Bihar	516	27·0
Orissa	185	6·1
Bombay	5,083	3,22 6
Madhya Pradesh	706	8·0
Madras	2,868	69·0
Punjab	1,105	14·6
Uttar Pradesh	1,765	35·9
Mysore	505	28·4
Travancore-Cochin	1,024	28·5
Travancore	..	..
Cochin	..	..
Delhi	1,499	36·7

* Pre-reorganization † Provisional figures.

Distribution of Companies (Public and Private)

(Capital in crores of rupees)

Year	All Companies No.	All Companies Paid-up Capital	Public Companies No.	Public Companies Paid-up Capital	Private Companies No.	Private Companies Paid-up Capital
1952-53	29,312	8,97·6	12,055	6,28·8	17,257	2,68·8
1953-54*	29,528	9,44·9	10,248	6,31·3	19,280	3,13·6
1954-55*	29,779	9,83·1	10,059	6,56·0	19,720	3,27·1
December 1955* ..	29,948	10,13·3	9,976	6,81·1	19,972	3,32·2

* Provisional figures.

BULLION

PRECIOUS metals have always held a great place in the Indian economy. Even though gold and silver standard currencies are no more in the world, both the metals determine Government's policies. The price policies in respect of these two metals are governed by American attitude because the U.S.A. is the most important consumer. The U. S. official price of gold at $ 35 per five ounces has been accepted as the official price by all member countries of the International Monetary Fund.

SILVER

The following table gives details about the trend of silver production from 1953 to 1956:—

(In millions of ounces)

Countries	1953	1954	1955	1956
United States of America	37·7	35·6	36·5	37·5
Mexico	49·9	39·9	48·0	44·0
Canada	28·3	31·1	27·9	27·5
Peru	19·7	20·4	23·0	23·0
Bolivia	6·1	5·0	5·9	7·0
Other South and Central American Countries	9·4	7·7	6·1	6·0
Total Western Hemisphere	149·1	139·7	147·4	145·0
Outside the Western Hemisphere ..	72·1	73·3	74·1	85·0
World Production	221·2	213·0	221·5	230·0
India	0·015	0·161	0·132	0·105

Following the expiry of the Green Act on December 31, 1945, a Silver Bill was enacted on July 31, 1946 authorising the Treasury to sell or lease for manufacturing use any silver, not pledged as monetary backing for silver certificates, at not less than 90½ cents per fine ounce and also to purchase all domestic silver mined after that day, if offered within one year after being mined, at a net price of 90½ cents. In December 1953, it was officially announced that the U.K. Government stocks of silver would not, in future, be held available to supply the essential needs of industry and that permission would be granted for purchases of silver to be made in the cheapest market, including the dollar area, to satisfy essential trade needs.

The recent trend of silver consumption (partial data) is given in the following table:—

(In millions of ounces)

	1953	1954	1955	1956
ARTS AND INDUSTRIES				
United States	105·0	85 0	100·0	100·0
Germany	17·5	24·2	31·5	40·8
Great Britain	11·5	12·2	14·0	13·0
Canada	4 4	3·9	4·4	4·5
Japan	5·6	5·8	6·2	8·0
France	14·5	15 0	11·0	12·0
Other Countries	14 7	11·3	12 0	26·0
Total	168·3	157·4	179·1	204·3
COINAGE				
United States	42·8	23·2	8·2	31·1
Saudi Arabia	—	—	17·2	—
Germany	3·3	0·3	0·1	2·3
Mexico	18·6	nominal	2·3	4·9
Canada	3·9	0·9	0·5	2·8
Belgium	2·3	1·5	15·0	15 0
China	—	—	—	—
Other Countries	20·0	23·7	—	—
Total Coinage	90·8	78 1	43·3	56·1
Total Consumption	259·1	235·5	222·4	260·4

Note : The consumption estimates are by Handy and Harman in their review of the Silver Market of 1956.

In 1956, stability again characterised the silver market. Silver laws in the United States governing the purchase and sale of silver by the Treasury Department provided the main reason for the narrow range of price fluctuations. The Treasury buying price of 90½ C for domestic production kept the market from going very much below this level and its selling price to United States consumers limited price increases during periods of peak demand.

Price changes in the New York market for the most part were small and resulted from relatively minor variations in the balance between demand and supplies. The Treasury buying price for domestic silver of 90½ C provided the point of balance. At any price below this level, supplies were reduced by the full amount of United States production; on the other hand when domestic production was needed, consumers had to pay more to bring such silver into the New York market, the exact price being determined by the shipping costs from the most distant delivery point drawn upon. Since the Treasury buying price of 90½ C applies equally whether the silver is delivered to the Philadelphia, Denver or San Francisco Mints, consumers in the East are obliged to pay full shipping costs in order to divert the production of middle-western and far western refineries to the New York market. Prices in the London market during 1956, as in previous years, tended to follow the New York quotation. However, fluctuations were more frequent and somewhat wider than in New York. The low for the year of 76½*d* per troy ounce, equivalent to about 89½ C, was established on February 1st, and the high for the year of 81½*d*, equivalent to about 94½C, was recorded on November 20th.

Consumption of silver in India in 1956 increased very sharply to about 17,000,000 ounces from the 3,000,000 to 4,000,000 ounce rate of the last few years. Most of the silver came from the importation of about 16,500,000 ounces in the form of Tibetan coins, which the Indian Government permitted in order to facilitate Indo-Tibetan trade. The ready demand for this unusual amount of silver may be attributed to the current agricultural prosperity in India, and also in part to the increased purchasing power of the industrial workers.

The following table gives the average silver quotations in New York and London from 1949 to 1956:

	New York Average	London Spot
	Cents	Pence
1949	71·93	49·24
1950	74·17	64·77
1951	89·37	77·86
1952	84·94	74·36
1953	85·19	73·94
1954	85·25	73·48
1955	89·10	77·51
1956	90·83	79·13

GOLD

Gold has played a key role in shaping the life and history of the world. Between 1493 and 1600, world's production of gold was placed at 24·2 million ounces. It steadily rose to 38 million ounces during the 50 years ended 1850. Since then, however, the production has risen rather spectacularly. The annual average output mounted from 3·5 million ounces in 1850 to 19·6 million ounces in 1929 and then to 35·2 million ounces in 1936, reaching the peak figure of 41 million ounces in 1940. The greatest part of this enormous increase came since the U. S. Administration raised its price of gold from $ 20·67 per ounce to $ 35 an ounce which made the U. S. A. a sort of magnet strongly attracting the world's entire gold production.

While the international demand for hoarding was reduced in 1954 supplies were augmented by larger South African output and by sizable Russian gold sales. In consequence the free market prices of gold moved close to the world parity of $35 per fine ounce. The re-opening of the London market in November 1954 had also a stabilizing influence on prices.

But in 1955, free market prices fell to levels lower than the official parity of $35 per ounce. It is true that there was marked rise in private hoarding demand, at over nine million oz., mainly due to the resurgence of inflation. But it was counterbalanced by a sizable increase in supplies and large Russian sales of gold. During the year, the world production was estimated at 27·3 million oz. as against 25·9 million oz. in 1954. Moreover, there was a shortage of dollars in the case of countries whose central banks had hitherto been regular buyers of gold. Price variations, however, were narrow in 1955.

During the year 1956, the price movements in gold were narrow despite the Suez Canal crisis. The range of price fluctuations for gold (delivery London as quoted against U.S. dollars in Europe) at about 23 cents was larger as compared with 11 cents per ounce in 1955. This may be compared to the range of $12 in 1949 and $6 in 1951. The increasing use made by Central Banks of the international gold market as a medium for arbitrage operations and the Bank of England's national gold market as a medium for arbitrage operations and the Bank of England's preparedness to sell newly-mined South African gold together exerted a general stabilising influence on world gold markets. World gold production (excluding the U.S.S.R.) recorded a further rise during 1956 of about 3½ per cent from 27·1 million to 28·1 million fine ounces, while sales of gold by U.S.S.R. (about 4·3 million ounces) were the largest in any year since the war. These increases in world gold supplies, however, had no perceptible effect on market prices. The turnover in gold in world markets is estimated to be at least 25 per cent higher during 1956 than in the previous year, a part of the increase being attributed to the increased hoarding demand stimulated by the Middle East crisis. The year also witnessed the establishment of free gold markets in Belgium, Canada, West Germany and Greece.

World Gold Consumption

(In millions of fine ounces).

	1951	1952	1953
Estimated net Consumption in Industrial Arts* ..	12·8	9·6	6·4
Estimated net private absorption by India, China, Hong Kong, other Far East Countries and the Middle East	6·0	6·0	5·5
Estimated resulting non-monetary absorption ..	18·8	15·6	11·9
Gold Production ..	25·0	26·6	26·5
Balance available for money ..	7·1	11·0	14·6
Resulting World Stock of Monetary Gold at end-year ..	1,132·0	1,143·0	1,157·6

* Includes a quantity of gold hoarded in various parts of the world in processed or semi-processed form, of which 4 millions in 1952 and about 2 to 3 millions in 1953 are estimated to have been used for hoarding in various parts of the western world.

World Gold Production

(In thousands of fine ounces)

Countries	1951	1952	1953	1954	1955	1956*
I. Commonwealth ..	18,605	19,108	18,904	20,623*	21,925*	22,060
(a) Australia ..	896	980	1,075	1,118	—	—
(b) Canada	4,393	4,472	4,069	4,366	4,542	4,380
(c) Gold Coast ..	699	691	731	787	687	638
(d) Indian Union ..	226	253	223	239	211	209
(e) New Zealand ..	75	59	39	42	27	25
(f) Southern Rhodesia	487	497	501	536	525	535
(g) Union of South Africa	11,516	11,819	11,941	13,237	14,601	15,890
(h) Others	313	337	325	298	283	255
II. Latin American Countries						
(a) Brazil	171	160	147	153	145	160
(b) Chile	174	176	131	125	123	85
(c) Colombia ..	431	422	437	377	381	440
(d) Mexico	394	459	483	396	379	350
(e) Peru	158	135	140	147	163	150
III. United States of America	1,895	1,927	1,970	1,859	1,877	1,860
IV. All Countries†	23,930	24,583	24,464	25,850*	27,124*	28,100
Commonwealth percentage ..	77·7	77·7	77·3	79·8	80·8	81·7
Union of South Africa percentage	48·1	48·1	48·8	51·2	53·8	56·6

* Provisional figures. † Excluding U.S.S.R.

Production, Imports and Exports

The output of gold in India which had suffered a setback during 1953, owing mainly to the closure of the Oorgaum gold mine in Mysore rose slightly from 223,376 ounces valued at Rs. 5·07 crores in 1953 to 239,168 ounces valued at Rs. 5·62 crores, but was still below the 1952 level of 253,264 ounces. But the output in 1956 was the lowest with 209,000 oz valued at about Rs. 4 crores. The decline has been ascribed to the closure of operations owing to labour troubles and to the low grade of the ore crushed.

Imports and exports of gold continued to be negligible in view of the continuance of the restrictions under the Foreign Exchange Regulation Act, 1947, and Imports and Exports (Control) Act, 1947. The inflow of contraband gold into India was on a smaller scale after 1947 as compared with the previous years. Among the factors which contributed to this result were the vigilant action taken by the Union Government to check smuggling and the political developments, towards the close of the year, in the French and Portuguese possessions in India, which were the main centres of the contraband trade in bullion.

A major step taken to check smuggling still further was the Sea Customs (Amendments) Bill of September 1954. In November 1954 the French possessions were transferred to India with the result that the ban on the import and export of gold was extended to that area too.

In 1955-56, the anti-smuggling drive of the authorities seems to have been more effective. The political developments in Goa also discouraged smuggling activity. On April 18, the Lok Sabha passed the Sea Customs Amendment Act, which provided, *inter alia*, for the shifting of the burden of proof that the goods are not smuggled, to the persons from whom the goods are seized.

Assaying and Refining of Gold and Silver

Some relevant statistical data are given below:—

(Thousands of tolas)

Year	Melting and Assaying		Refining	
	Gold	Silver	Gold	Silver
1951-52	60	64,19	27,43	44,46
1952-53	28	62,55	24,11	28,92
1953-54	80	73,07	17,21	13,41
1954-55	75	73,67	13,39	8,19
1955-56	20	45,38	10,42	17
1956-57	11	144,18	10,77	12

The following table gives details of imports and exports of gold and silver:—

Yearly Average	Imports		Exports		Net Imports (+) Net Exports (—)	
	Ounces in thousands	Rs. in lakhs	Ounces in thousands	Rs. in lakhs	Ounces in thousands	Rs. in lakhs
GOLD						
1951-52	40	1,16	—	—	+ 40	+ 1,15
1952-53	1	2	—	—	+ 1	+ 2
1953-54	1	2	—	—	+ 1	+ 2
1954-55	3	7	1	2	+ 2	+ 4
1955-56	4	10	—	1	+ 3	+ 9
1956-57	6	16	-	1	+ 5	+ 15
SILVER						
1951-52	1,67	9	—	—	+ 1,67	+ 9
1952-53	1,28	5	—	—	+ 1,28	+ 5
1953-54	1,42	6	1	—	+ 1,41	+ 6
1954-55	—	—	—	—	—	—
1955-56	9	—	5	—	— 4	—
1956-57	11	—	—	—	+ 11	—

INDIAN MARKET

Virtually isolated from world markets with the continuing ban on imports and exports of gold and silver, bullion prices in India during 1955-56 were mainly influenced by domestic factors. Futures trading in bullion under the auspices of the Bombay Bullion Association, the only recognised association for forward trading in gold and silver in Bombay State under the Bombay Forward Contracts Control Act, 1947, was much less smooth in 1955-56 than in the preceding three years. It may be noted here that the forward market was closed during the period July 12 to 21 and early August to October 23, 1955.

Consequently, certain changes were made in the by-laws of the Association, with the permission of the State Government. The

emergency by-laws were amended reducing the number of votes required for declaration of "a state of emergency." Besides, three new by-laws were added: (1) 30A provides that, under no circumstances, a non-member shall enjoy, directly or indirectly, any rights, privileges or facilities more than those available to a member; (2) 72A and (3) 88A provide that, during the last seven days of a contract period, no fresh business will be permitted in the current contract except transactions of only squaring-up nature. By-law 141 was also amended providing that the prices realised in an auction should not exceed the highest closing level touched during the currency of the contract, and, if the available metal falls short of the outstanding transactions, the Board shall suspend the auctions for 48 hours and make a full report to the Government regarding the conditions in the market and Government may extend the period of auction for such period or periods as it deems necessary.

During the year, the Forward Markets Commission took the first step towards bringing under their purview the futures trading in bullion. On February 16, 1956, the Commission issued a press note stating that they were examining the utility of forward trading in bullion. It also invited, at the same time, applications from Bullion Associations for the purpose of recognition under Sections 5 and 6 of the Forward Contracts (Regulation) Act, 1952.

The Government of India announced on April 22, 1957 its decision to return to the U.S.A. India's share amounting to approximately 172 million ounces, of the 226 million ounces of silver obtained by the Government of undivided India during the war years 1943-45.

The domestic gold output declined further during 1956 (figures are provisional) to 209,251 ounces (valued at Rs. 5·67 crores), as against 210,884 ounces (valued at Rs. 5·30 crores) in 1955. A major development during the year was the nationalisation, by the Mysore Government, of all the gold mining undertakings (Acquisition) Act, 1956. Indian silver production, which is relatively quite insignificant, also recorded a decline during the year; the output during 1956 amounted to 104,646 ozs. (valued at Rs. 3·76 lakhs), as against 131,713 ozs. (valued at Rs. 5·68 lakhs) during 1955. While the domestic ouput of both gold and silver declined, supplies of bullion to the market were augmented by continued arrivals of contraband gold, although, for sometime during the year, smuggling activity appeared to be at a low ebb, in view of the Suez Canal crisis. In silver, the supply position was helped considerably by arrivals of Tibetan silver coins practically throughout the year under review. These developments, particularly the influx of Tibetan coins, had the effect of moderating the earlier bull pressure on the market.

The range of fluctuations in bullion prices was smaller than last year; in gold it was about Rs. 11 and in silver about Rs. 19, as compared with Rs. 18 and Rs. 29, respectively, in the preceding year. The year's trading also revealed small net changes in prices for the year as a whole, though there were the usual seasonal movements; while gold showed only a fractional decline from the previous year's closing level of Rs. 105·87, silver showed a net fall of Rs. 1·44 at Rs. 179·87; these contrasted sharply with the large net increases of Rs. 13·44 in gold and Rs. 15·62 in silver recorded during 1955-56.

During the year, automatic margins based on price variations were payable in two settlements in gold, one of which was on account of an increase in price. In silver, margins under this bye-law were imposed in three settlements, two of which were because of price declines. Margins, which become payable when carryover charges exceed specified limits, came into operation twice in the case of gold and only once in the case of silver. Special clearings, designed to ensure prompt payment of differences when fluctuations become excessive came into force in three settlements during the year, all in silver.

The volume of futures business during the year aggregated 52·9 million tolas in gold and 2·3 million bars in silver. These figures compare with a turnover of 48 million tolas in gold and 1·4 million bars in silver for the nine months of 1955-56 during which period forward trading was permitted on the exchange.

The following statement gives the highest and lowest spot prices of gold and silver in Bombay with import duties from 1949-50 to 1956-57 :—

Year.	Gold (per fine tola). Highest.	Lowest.	Average.	Import Duty.	Silver (per 100 tolas gross). Highest.	Lowest.	Average.	Import Duty.
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
1949-50	119 10 0	107 2 0	114 14 11	12 8 0	192 12 0	158 14 0	174 11 10	9 6 0
1950-51	120 2 0	104 12 0	113 7 4		198 12 0	173 14 0	185 14 3	
1951-52	118 10 0	79 8 0	109 1 11		207 4 0	142 0 0	188 4 3	
1952-53	95 14 0	77 5 0	88 0 1		174 12 0	141 12 0	159 8 4	
1953-54	93 6 0	79 8 0	86 1 6	13 2 0	167 14 0	148 14 0	157 4 10	9 13 6
1954-55	95 6 0	83 0 0	89 2 4		173 14 9	147 15 0	159 3 9	
1955-56	107 1 0	89 6 6	95 13 8		183 13 0	154 12 0	168 11 6	
1956-57	109.62 nP.	98·94 nP.	103·17 nP.	13·12 nP.	187.37 nP.	168·69 nP.	175·63 nP.	9.84 nP.

NATIONAL INCOME

THE National income of India at 1948-49 prices was Rs. 10,420 crores in 1955-56 and Rs. 10,280 crores in 1954-55 as compared to Rs. 10,030 crores in 1953-54 according to the fourth issue of the annual paper on national income released by the Central Statistical Organisation. The per capita income at 1948-49 prices, according to the report, correspondingly rose from Rs. 268·7 in 1953-54 to Rs. 271·9 in 1954-55 and Rs. 272·1 in 1955-56. The estimates for 1954-55 included in this paper are based on the detailed method of estimation followed for the earlier years and show an upward revision over the preliminary estimates published in 1956. The estimates for 1955-56 are based on partial material and are subject to revision.

The table below indicates the trend of national income (or net national output) at 1948-49 prices since 1948-49 :

Year	Net National Output at 1948-49 prices (Rs. crores)	Per capita net output at 1948-49 prices (Rs.)
1948-49	8,650	246·9
1949-50	8,820	248·6
1950-51	8,850	246·3
1951-52	9,100	250·1
1952-53	9,460	256 6
1953-54	10,030	268·7
1954-55	10,280	271 9
1955-56 .. .. (Preliminary)	10,420	272 1

According to the paper, during the First Five-Year Plan period (1951-52 to 1955-56) the national income in real terms increased by 17·7 per cent as against the original plan target of 11 per cent. The corresponding rise in the per capita income was 10·5 per cent.

The absence of any pronounced rise in 1955-56 over 1954-55, was mainly due to the fall in agricultural production revealed by the latest available crop figures. The total contribution to national income at the 1948-49 prices by 'agriculture' showed a decline of Rs. 50 crores in 1955-56 over 1954-55, as compared to a rise of similar magnitude in 1954-55 over 1953-54. There was no appreciable change in the yearly increase in the over-all contribution by other sectors.

Expressed at current prices, the national income, says the paper, stood at Rs. 9,650 crores in 1955-56, and Rs. 9,620 crores in 1954-55, or Rs. 830 crores and Rs. 860 crores lower than the 1953-54 level. The per capita income at current prices correspondingly declined from Rs. 280·7 in 1953-54 to Rs. 254·4 in 1954-55, and Rs. 252·0 in 1955·56. The fall in the national income at current prices in 1955-56 and 1954-55 was entirely due to price changes, the national income in real terms having shown a rise in both the years. The level of agricultural prices, in particular, was considerably lower in 1955-56 and 1954-55, compared to 1953-54 and this also accounted for the sharp decline in the income at current prices originating in the agricultural sector.

As the estimates are presented in the paper in terms of rupees abja (100 crores) corrected upto one decimal place, changes smaller than rupees five crores are ignored. Though there was some progress during 1955-56 in small sectors like 'mining', 'organised banking and insurance', etc., it was not large enough to be disclosed by the figures presented in this paper.

The rise of Rs. 140 crores to Rs. 10,420 crores in the aggregate national income (at 1948-49 prices) of India during 1955-56 was accounted for by all the sectors, except agriculture, animal husbandry and ancillary activities, as is shown below.

(In crores of Rs.)

	1954-55	1955-56
Agriculture, animal husbandry and ancillary activities	5,030	4,980
Mining, manufacturing and small enterprises	1,700	1,750
Commerce, transport and communications	1,910	1,970
Other Services	1,640	1,729

According to the report of the National Income Committee, February 1954, agriculture, animal husbandry, and ancillary activities contributed 51·3 per cent of the national income in 1950-51. Commerce, transport and communications accounted for 17·7 per cent. Commodity production taken roughly as the total value contributed by agriculture, mining, manufacturing and hand-trades amounted to Rs. 64·2 abja (abja = Rs. 100 crores) or 67·4 per cent of the total national income.

The following tables give a broad picture of the distribution of national income:

NATIONAL INCOME BY INDUSTRIAL ORIGIN AT CURRENT PRICES

(In Rs. Abja*)

Item	1955-56 (Preliminary)	1954-55	1953-54	1952-53	1951-52	1950-51
Agriculture.						
Agriculture, animal husbandry and ancillary activities ..	41 0	42 3	52 0	47·1	49·1	47·8
Forestry	0 7	0 7	0·6	0·6	0·7	0·7
Fishery	0·5	0·5	0·5	0 4	0·4	0·4
Total of Agriculture ..	42 2	43·5	53·1	48·1	50·2	48·9
Mining, Manufacturing and Hand-trades :						
Mining	1·0	1·0	1·0	0·9	0·9	0·7
Factory establishments	8 1	7·5	6·9	6·4	6·4	5·5
Small enterprises	9·6	9·6	9·8	9·7	9·5	9·1
Total of Mining, etc. ..	18·7	18 1	17·7	17·0	16·8	15·3
Commerce, Transport and Communications :						
Communications	0·4	0·4	0 4	0·4	0·4	0·4
Railways	2·4	2·2	2·0	2·0	2·1	1·8
Organised banking and insurance	0 8	0 8	0·8	0·7	0·8	0·7
Other commerce and transport ..	14·9	14 7	14·8	14·7	14·6	14·0
Total of Commerce, etc. ..	18 5	18·1	18·0	17·8	17·9	16·9
Other Services :						
Professions and liberal arts ..	5 6	5·4	5·3	5·2	5·0	4·7
Government Services (Administration)	5·6	5·2	4·9	4·6	4·5	4·3
Domestic Service	1·4	1 4	1·4	1·3	1·4	1·3
House Property	4·5	4·5	4·4	4·3	4·1	4·1
Total of Other Services..	17·1	16·5	16·0	15·4	15·0	14·4
Net domestic product at factory cost	96·5	96·2	104·8	98·3	99·9	95·5
Net earned income from abroad..	0·0	0·0	0·0	—0·1	—0·2	—0·2
Net National Output at factory cost=NATIONAL INCOME..	96·5	96·2	104·8	98·2	99·7	95·3

* Abja = Rs. 100 crores.

ESTIMATE OF NET OUTPUT PER ENGAGED PERSON : 1948-49

	Net Output (Rs. Abja)	No. of Persons Engaged (Lakhs)	Net Output per Engaged Person (Rs. in 000)
Agriculture	48·9	10,36	0·5
Mining and Factory Establishments	6·2	37	1·7
Small Enterprises	9·1	1,15	0·8
Total of Mining, Manufacturing and Hand-trades	15·3	1,53	1·0
Railways and Communications	2·2	14	1·6
Banking, Insurance and other Commerce and Transport	14·7	97	1·5
Total of Commerce, Transport and Communications	16·9	1,11	1·5
Professions and Liberal Arts	4·7	64	0·7
Government Services (Administration)	4·3	39	1·1
Domestic Service	1·3	29	0·4
House Property	4·1	....	....
Total of other Services	10·3	1,33	0·8
NET DOMESTIC PRODUCT AT FACTORY COST	95·5	14.32	0·67

SHARE OF GOVERNMENT IN DOMESTIC PRODUCT AND EXPENDITURE IN THE INDIAN UNION.

Items.	1952-53		1951-52		1950-51		1949-50		1948-49	
	Rs. (Abja)	Per cent	Rs. (Abja)	Per cent	Rs. (Abja)	Per cent	Rs. (Abja)	Per cent	Rs. (Abja)	Per cent
Net output of Government Enterprises	3·1	3·1	3·2	3·2	2·9	3·0	2·7	3·0	2·4	2·8
Net output of Government Administration	4·6	4·7	4·5	4·5	4·3	4·6	4·1	4·5	4·0	4·6
Net output of the private sector	91·0	92·2	92·4	92·3	88·3	92·4	83·5	92·5	80·3	92·6
Net Domestic Product	98·7	100·0	100·1	100·0	95·5	100·0	90·3	100·0	86·7	100·0
Government Current Expenditure on Commodities and Services	6·0	5·8	5·8	5·5	5·6	5·6	5·4	5·7	6·4	7·1
Government administrative capital expenditure	1·2	1·2	1·1	1·0	1·0	1·0	1·2	1·3	1·0	1·1
Government enterprises capital expenditure	1·8	1·7	1·9	1·8	1·6	1·6	1·5	1·6	1·1	1·2
Net National Expenditure at market price	103·8	100·0	105·8	100·0	100·3	100·0	94·6	100·0	90·6	100·0
Government Draft on Private Income :—										
Direct Taxes	2·5	2·5	2·4	3·4	2·3	2·4	2·2	2·4	2·4	2·8
Indirect Taxes	4·6	4·6	5·3	5·3	4·3	4·5	3·9	4·3	3·6	4·1
Miscellaneous Fees, etc.	1·0	1·0	1·0	1·0	1·1	1·1	1·0	1·1	0·9	1·0
Private Income	99·4	100·0	100·3	100·0	95·7	100·0	90·5	100·0	87·0	100·0
Gross Capital Formation on Government account	3·0	..	3·0	..	2·7	..	2·7	..	2·1	..

PRICE MOVEMENTS

THE continuance of the rising trend of commodity prices, which has been in evidence since early June 1955, was one of the less satisfactory features of Indian economic scene in 1956-57, according to the Reserve Bank of India *Report on Currency and Finance* for the year 1956-57. Over the year, the general index of wholesale prices (base : year ended August 1939 = 100) rose by nearly 8 per cent, on top of the rise of about 12 per cent in 1955-56. The annual average of weekly indices for the year at 414 was 15 per cent higher than that for 1955-56, in contrast to the fall of about 5 per cent in the preceding year.

The current advance in the general level of wholesale prices is the third phase of the rise since 1950, but the recent uptrend has lasted much longer than the preceding upward movements. Further, unlike the Korean boom phase of 1950-51 when the food index had shown comparatively little change, during the current phase, this group has shown a sharp rise. On the other hand, whereas the manufactures group also had recorded a significant increase during 1950-51, in the current uptrend, it has shown a comparatively small rise.

Broadly, whereas the 1950-51 rise was 'imported', the 1955-57 rise appears to be primarily of domestic origin, reflecting mainly the excess of demand over supply, arising from high levels of investment activity in the public and private sectors. The general index at the end of March 1957 was still about 9 per cent below the Korean peak level. Since the close of the year, there has been some further rise ; the index for the week ended June 1, 1957 (439·6) was, however, still below the Korean peak level (462 on April 14, 1951).

As in the previous year, the rise occurred mainly in three groups, namely, 'food articles', 'industrial raw materials' and 'semi-manufactures', the extent of the rise being, however, only about half of that in the preceding year. During 1956-57, the 'manufactures' and 'miscellaneous' groups also recorded rises of 2·7 per cent and 14 7 per cent, respectively, which was in contrast to the declines of 0 5 per cent and 9·5 per cent in 1955-56. The direction of movement of the prices of sub-groups as well as of individual commodities was generally uniform, but the magnitude of variations varied considerably, as in the past, due to the operation of special factors.

The stimulus for the price rise came, by and large, from the steadily accelerating tempo of the investment programme from year to year, superimposed upon some decline in agricultural output from the record levels for food production and total agricultural output reached in 1953-54 and 1954-55, respectively. The volume of voluntary savings has been insufficient in relation to demand with the result that deficit financing in the public sector and reliance on bank credit in the private sector have been rising. In the result, there has been a growing pressure of demand on the economy which has been reflected in a rise in prices. The pressure of demand was, however, softened through a substantial increase in imports. The pressure of demand was particularly high in the case of foodgrains and industrial raw materials, which groups, as already mentioned, recorded substantial increase in prices.

The following table gives the price trend from 1948-49 to 1956-57 :

Average of Weeks	Food Articles	Industrial Raw Materials	Semi-manufactured Articles	Manufactured Articles	Miscellaneous Articles	General Index
1948-49	382 9	444·8	327·3	346·1	525·2	376·2
1949-50	391·3	471·7	331·6	347·2	570·7	385·4
1950-51	416·4	523·1	348·9	354·2	707·4	409·7
1951-52	398 6	501·9	374·4	401·5	721·6	434·6
1952-53	357·8	436·9	343·8	371·2	614·1	380·6
1953-54	384·4	467·7	359·2	367·4	686 6	397·5
1954-55	339·8	436·2	350.3	377·4	612·4	377·5
1955-56	313·2	419·7	338·2	372·9	546·4	360 4
1956 57	388 5	501 9	402·3	384·6	559 3	414 6

INDEX NUMBERS OF WHOLESALE PRICES (1957) REVISED SERIES.

Base : 1952-53 = 100

	All Commodities	Food articles	Liquor and tobacco	Fuel, power, light and lubricants	Industrial raw materials	Manufactures	Intermediate products	Finished products
January	107 2	103 2	88 0	107·2	120 3	108 4	113 0	107 7
February	106 9	104 1	87·1	107 2	117·6	107·4	110 9	106·9
March	105 5	102 3	87 2	106 2	117·2	106·2	108 9	105·8
April	106 5	104 3	88 0	107·0	116 7	106·2	108 3	105·8
May	109 0	107 0	90·6	109·5	120·4	107·5	109 3	107·3
June	110 6	109 3	92 3	111·7	121 2	108·5	109 0	108·4

REVIEW OF PRICES 1939-51

The outbreak of the Second World War in September 1939 introduced a new chapter in the history of Indian commodity prices. After an initial rise, the prices received a sharp setback following the loss of export markets ; but the entry of Japan into the war made heavy calls on India's resources from the Allies and the resultant rise in note circulation aggravated inflationary pressures and the pace of the rise. The index number of wholesale prices, with the week ended August 19, 1939 equal to 100, rose to 125·6 in 1939-40, but receded in the following year by 10·8 to 114·8. Then it advanced by 19 per cent to 137·0 in 1941-42, again by 25 per cent to 171·0 in 1942-43 and recorded the highest rise of 38 per cent in any one year during 1943-44 when it touched 236·4.

During 1944-45 the price index advanced by only 7·8 to 244·2 and reached 244·9 in the following year.

It was during 1946-47 that the policy of decontrol sent up the general price index by about 11 per cent to 275·4 and further to 307·0 in 1947-48.

Price trends during 1948-49 fell into two distinct phases—a continued rise from April to July and a comparative stability during the rest of the year, with signs of a downward trend in the last quarter of the year.

The latter phase was associated with the reimposition of controls, and a net contraction of Rs. 18 crores in money supply during the last eight months of the year. The general index number, with the year ended August 1939 as the base, shot up from 347·9 to 389·6 by July and then tapered off to 370·2, the average for the year being 376·2 revealing a rise of 22 per cent over the year.

With the opening of the financial year of 1949, the prices began to advance upward till the Economic Adviser's general index, which stood at 370·2 in March 1949, touched 389·8 in September 1949 which exceeded the post-decontrol peak level reached in July 1948 and climbed to 393·3 in October 1949. The jump resulted in part from a sharp rise in the prices of certain export goods, in particular, tea, black pepper, oils and oil-seeds.

Following the devaluation of the rupee, the Government of India adopted an eight-point anti-inflationary programme including a voluntary cut in the prices of manufactured goods and brought down the price index from 393·3 in October to 381·3 in December 1949. These efforts, however, proved temporary and practically the whole of the improvement of the preceding two months was lost by the close of March 1950, the general index moving up to 392·4 in March. The average for the year worked out at 385·4 as against 376·2 in 1948-49.

The uptrend in the general price level noticed during the closing quarter of 1949-50 gathered further momentum in the following year, particularly in the latter half.

The continuation of the gradual rise in prices since devaluation was accelerated with the outbreak of the Korean war and prices reached a peak at 438.6 in March 1951 recording a rise of 11.8 per cent over the year as against a rise of 6.0 per cent in 1949-50. The rise was, however, less marked than that in the U.K. and the U.S. where the increase was as much as 27.4 per cent and 20.3 per cent respectively.

To meet the situation, the Finance Minister enunciated in August 1950 an eight-point programme outlining the major objectives of Government's economic and financial policy, which envisaged measures to hold the price line and to ensure, through increased production, economies and larger supplies, that the inflationary pressures did not get out of hand. Steps were taken to relax import controls and prevent hoarding of foodgrains through an amendment of the Essential Supplies (Temporary Powers) Act, 1946. The Centre also assumed powers to legislate for one year from August 15, 1950 in respect of trade and commerce and production, supply and distribution of goods and these were extended later by another year.

This was followed by the promulgation of the Supply and Price of Goods Ordinance. As an anti-inflation measure and in view of the wide disparity between the internal and external prices, fresh export duties on certain commodities were levied or the rates of existing duties were raised as in the case of hessian, sacking, raw cotton, cotton waste and raw wool.

These measures had in part a steadying effect on the general trend of prices, the months of October and November registering a decline.

Thereafter the prices resumed an upward trend which became pronounced following the Chinese intervention in the Korean war and touched a high level at 438.6 in March 1951. The prolongation of the Korean war, rising import prices, heavy export commitments and higher prices granted by Government in a number of controlled commodities like sugar, sugarcane, gur, foodgrains, cotton textiles and rubber, contributed to the uptrend in prices; it also embodied the result of the decontrol of prices of raw jute and jute manufactures on March 9, 1951.

In December 1950 Government increased the prices of sugarcane and sugar from Rs. 1-10 and Rs. 28-8 per maund respectively fixed earlier in October at the preceding season's level to Rs. 1-12 and Rs. 29-12. Gur prices were raised further and the pool price of imported food was raised in January because of a rise in overseas prices and freight charges.

The rise in import prices of raw cotton and the grant of an increase of Rs. 150 per candy for indigenous cotton for the 1950-51 cotton season was announced on June 16, 1950 but its effect by way of higher prices for cotton manufactures was noted only in the closing stages of the year under review.

During the first quarter of 1951, the prices of coarse, medium, fine and superfine cloth were raised by anything between 6 per cent in the case of superfine and 17½ per cent in the case of coarse varieties. The voluntary cut of four per cent in yarn prices was restored on March 5. An interim increase in the price of raw rubber from Rs. 90-8 to Rs. 122-8 per 100 lb. was granted with effect from March 7, 1951.

1951-56

The fight against inflation in the financial year 1951-52 was greatly assisted by three factors. The first was the budget which aimed at a substantial revenue surplus and sought to finance the railway development by raising passenger fares. Later, the surplus estimated at Rs. 26.1 crores in the budget was revised upward to Rs. 92·61 crores. This substantial transfer of purchasing power from the hands of the public to the exchequer helped to hold inflation in check. Secondly, the sale proceeds of the wheat obtained from the American loan also had the same effect of reducing the money supply in the hands of the public.

Another important step was taken in the middle of November 1951 by the raising of the Bank Rate from three per cent at which it stood from November 1935 to 3½ per cent. The third factor was of an international character. Following the economic difficulties caused by the burden of the re-armament drive, country after country led by the United Kingdom imposed import restrictions, while the United States had to prune defence expenditure because of the danger of inflation.

As a result of the above factors, the general price index steadily sagged from 457.5, the all time peak level touched in April 1951, to 433.1 in the last month of 1951. Though overseas food prices ruled remarkably firm, the Indian food prices dropped by 2½ per cent and those of industrial raw materials dropped by more than 12 per cent. By the time the new year opened, exports proved difficult owing to buyers' resistance, while the monetary squeeze had rendered hoarding difficult despite credit expansion. Conditions deteriorated in February when the crop movement was in full swing and the general price index fell further to 415.9 thereby wiping out the advance of the past 13 months.

In July 1954, the Union Government decided to support prices of foodgrains if they fell below certain levels, and were uneconomic for growers. In pursuance of this policy, Uttar Pradesh, Punjab, and Rajasthan decided to purchase wheat in case prices fell below Rs. 10 per maund.

In December 1954, the Union Government decided to purchase from cultivators jowar and maize at Rs. 5-8 per maund and bajra at Rs. 6 per maund.

In Madras, the Government constituted an *ad hoc* committee to watch the prices of rice, bajra and other commodities and to take prompt measures to stabilize them when necessary.

Export incentives were also given by the grant of additional export quotas for a number of agricultural and industrial products, and export duties in commodities such as cotton, oils, oilseeds, pepper and rice were either reduced or abolished.

Within the overall declining trend during 1954-55, price movements showed three broad phases. In the first phase from mid-April to the end of June, prices fell by 6 per cent to 378·4. The second phase from July to September was one of relative steadiness; the index moved narrowly and rose by 1·6 per cent to 384·3. In the last phase, covering the second part of the year, the downward trend was resumed, and the index fell sharply by 9·1 per cent to 349·3.

The progressive policy of decontrol was carried a stage further. In July 1954 controls in respect of rice were lifted and in March 1955, restrictions on zonal movement of wheat were removed. The control over movement of cotton was removed in July 1954 while on distribution was lifted in February 1955. Although price control was retained, the "floor" for 1954-55 was reduced by Rs. 55 to Rs. 495 per candy. Issue prices of imported wheat and rice were reduced but in the case of raw rubber, the minimum price was raised by Rs. 12 to Rs. 150 per 100 lbs.

As regards sugar, the Government announced in November 1954 that there would not be any statutory control on the price or distribution of sugar, but that 25 per cent of the sugar output would continue to be at the disposal of Government. The minimum price of sugar-cane was left unchanged at Rs. 1-7 per maund, but a formula for linking the price of sugarcane to the price of sugar was applied to the 1953-54 crop.

In view of the marked change in the price trend in 1955-56, Government's price policy was switched on towards a policy of arresting the upward trend. In January-February 1956, Government imposed a ban on exports of food grains, namely, jawar, maize, pulses, including gram and gram flour, rice and wheat products. Further, stocks of wheat and rice with the Government were released for sale in the open market and fair price shops for food grains were opened in various centres. In April 1956 it was decided to import during 1956 one million tons each of wheat and rice. Accordingly negotiations were conducted with the Government of Burma for the import of 2 million tons of rice over a period of five years commencing from June 1, 1956. It was also decided that the Government would participate in the new International Wheat Agreement tenable for three years from August 1, 1956.

Credit policy has also been geared towards the same objective. In April 1956, the Reserve Bank asked for more detailed and frequent data from banks regarding their advances, with a view to taking suitable action if credit was being extended for speculative purposes. Again on May 17, 1956, the Bank issued a directive to banks asking them to refrain from excessive lending against commodities and in particular against paddy and rice; the margin maintained by banks in respect of advances against rice and paddy was to be uniformly raised. Banks were also asked to endeavour to achieve a reduction in their aggregate advances against paddy and rice to a level which would not be more than 25 per cent. above that of the corresponding week of the previous year.

In regard to oils and oilseeds, the Government's chief measure was the stepping up of export duties. In April 1956, the export duty on castor oil was raised from Rs. 125 to Rs. 175 per ton and fresh export duties were imposed on linseed oil at Rs. 250 per ton and on kardiseed oil and nigerseed oil at Rs. 200 per ton.

In order to check the sharp rise in cotton prices, Government had to intervene in the Bombay futures market. Forward trading was suspended for two weeks from December 24, 1955, to January 7, 1956 and again from January 25, after squaring up compulsorily all transactions at Rs. 700 per candy for February contract and Rs. 686-8 for May contract.

1956-57

During the year 1956-57, the Government's efforts were directed towards both increasing supplies of goods and restraining excess demand. Increase in supplies, especially of foodgrains, was effected, in the short run, mainly through arranging for larger imports of foodgrains and distributing these through a net-work of fair price shops all over the country. An agreement was entered into with the United States Government for the purchase of surplus commodities, namely, wheat, rice and cotton; arrangements were also made with the Government of Burma for rice imports. The quantity of foodgrains imported in 1956 was nearly 14 lakh tons, as compared to 7 lakh tons in 1955. The Government also imposed a ban since early 1956 on exports of foodgrains. For the distribution of foodgrains, about 20,000 fair price shops have been opened in many parts of the country.

The policy of dividing the country into zones for the purpose of regulating movements in wheat has also been put into operation. The Government announced, on June 13, 1957, the creation of three wheat zones, namely, (1) the Punjab, Himachal Pradesh and Delhi, (2) U.P. and (3) Rajasthan, M.P. and Bombay (excluding the City of Bombay). The effect of this zonal arrangement is free and unrestricted movement of wheat and wheat products within a zone, but exports from and import into the zone are not permissible, except under a permit issued by the State Government concerned. A separate zone has been created for the rice-consuming areas of South India—Andhra Pradesh, Madras, Mysore and Kerala.

In some cases, cotton and oilseeds, for example, the excessive price rise was sought to be checked by the intervention of the Forward Markets Commission. With effect from February 11, 1957, the East India Cotton Association, in exercise of powers taken by them with the approval of the Forward Markets Commission, imposed more stringent margins on futures contracts. The margins were made applicable at lower levels, namely, Rs. 700 per candy (of 784 lbs.) for Jarilla, instead of Rs. 770 as before, and at Rs. 850 for Vijay, in place of Rs. 920, the rate of deposits at these levels being Rs. 25 per bale of 392 lbs. On April 17, 1957, due to the steep rise in cotton price, the Forward Markets Commission intervened and suspended trading. Though trading was resumed on the next day, the then existing rates of margins were doubled and new ceilings for Jarilla May and Vijay June

were fixed at Rs. 754 and Rs. 878 per candy, respectively. On April 24, 1957, the Forward Markets Commission raised further the rates of margin deposits in respect of Jarilla May to a flat rate of Rs. 200 per bale, as compared to a maximum of Rs. 100 per bale. On May 20, 1957, the margin deposit on Vijay June was also enhanced to Rs. 200 per bale with effect from June 1, 1957, if the price of that contract ruled above Rs. 824 per candy. In the case of groundnut and castorseeds, in January 1957, a stiffer margin of Rs. 15 per candy on the net outstanding position of forward purchases was levied if the ruling price was above Rs. 165 per candy. Till then the margin had varied from Re. 1 to Rs. 4 for different slabs, the first 7,500 candies being exempted. In some cases, in order to improve the domestic supply situation exports have been restricted and imports liberalised, e.g. lowering of raw cotton export quota and raising of export duty on Bengal deshi cotton.

At the same time, considerable attention has been devoted to securing an abatement of the pressure of excess demand in the economy, through fiscal and monetary policies. During the last one year various tax measures have been undertaken and these will help the containment of demand, both consumption and investment. Action was also taken on the monetary front through selective credit controls as well as raising of the interest rate structure.

The uptrend in cost of living (working class) which was noticed from June 1955 continued further during the greater part of 1957, following the rise in commodity prices. The all-India consumer price index number of working classes (Base : 1949 = 100), which had risen from 92 in May 1955 to 100 in March 1956, moved up further to 110 in November 1956. By January, it declined to 107 at which level it remained during the remaining two months of the year. Over the year, it recorded a net rise of 7 per cent which was somewhat higher than that during the preceding year. The annual average of 107 for the year was 11 per cent higher than the average for 1955-56. The rise was principally due to the rise in the prices of foodgrains. The consumer price indices recorded increases at all important centres, but the magnitude of rise varied considerably. Thus, while the rise was marked at Sholapur, Ahmedabad, Bangalore, Kanpur and Delhi (over 10 per cent), in Calcutta and Madras (city), the rise was relatively moderate (7-8 per cent), and it was rather small in Bombay City (about 2 per cent).

INDUSTRIAL STRUCTURE AND POLICY

INDUSTRIAL production in India has been maintaining an upward trend in many directions since independence in August 1947.

The index of industrial production, with 1951 as the base, advanced from 103·6 in 1952 to 105·6 in 1953, 105·6 in 1954, 112·9 in 1955 and 132·7 in 1956.

An elaborate census of Indian manufactures covering 29 groups of industries has been in progress since 1949; of these the producer gas industry no longer exists. There was no factory in this industry in 1952. The industries covered by the census are wheat flour, rice milling, biscuit making, fruit and vegetable processing, sugar and gur, distilleries and breweries, starch, oil-seed crushing and extraction and processing of vegetable oils and manufacture of edible hydrogenated oils; paints and varnishes, soap, tanning, cement, glassware, ceramics, plywood, paper and paperboard, matches, cotton textiles, woollen textiles, jute textiles, chemicals, drugs and pharmaceuticals, non-ferrous metals, iron and steel, bicycles, sewing machines, producer gas plants, electric pumps, electric fans and general and electrical engineering.

The latest available report covers these industries for 1953. The following picture has emerged :—

	1952	1953
No. of Factories	7,155	7,104
Fixed Capital (Rs. crores) .	300·94	324·92
No. of employees (million).	1·618	1·628
Wages and Salaries (Rs. crores)	200·75	205·21
Materials Consumed (Rs. crores)	868·94	788·52
Value of Products (Rs. crores) .. .. ..1,183·97		1,122·78
Value added by manufacture (Rs. crores) .	315·03	334·25

INDUSTRIAL POLICY RESOLUTION

The Government of India's industrial policy resolution was presented to the Lok Sabha on 30th April, 1956.

The following is a summary of the text:

Eight years have passed since the first declaration on industrial policy.* These eight years have witnessed many important changes and developments in India. The Constitution of India has been enacted, guaranteeing certain fundamental rights and enunciating directive principles of State policy. Planning has proceeded on an organised basis, and the first Five-Year Plan has recently been completed. Parliament has accepted the socialist pattern of society as the objective of social and economic policy.

These important developments necessitate a fresh statement of industrial policy, more particularly as the Second Five-Year Plan will soon be placed before the country. This policy must be governed by the principles laid down in the Constitution, the objective of socialism, and the experience gained during these years.

THREE CATEGORIES

These basic and general principles were given a more precise direction when Parliament accepted in December, 1954, the socialist pattern of society as the objective of social and economic policy. Industrial policy, as other policies, must, therefore, be governed by these principles and directions.

In order to realise this objective, it is essential to accelerate the rate of economic growth and to speed up industrialisation and, in particular, to develop heavy industries and machine making industries, to expand the public sector, and to build up a large and growing co-operative sector.

Equally, it is urgent, to reduce disparities in income and wealth which exist today, to prevent private monopolies and the concentration of economic power in different fields in the hands of small numbers of individuals. Accordingly, the State will progressively assume a predominant and direct responsibility for setting up new industrial undertakings and for developing transport facilities.

It will also undertake State trading on an increasing scale. At the same time, as an agency for planned national development, in the context of the country's expanding economy, the private sector will have the opportunity to develop and expand. The principle of co-operation should be applied wherever possible and a steadily increasing proportion of the activities of the private sector developed along co-operative lines.

The adoption of the socialist pattern of society as the national objective, as well as the need for planned and rapid development, require that all industries of basic and strategic importance, or in the nature of public utility services, should be in the public sector. Other industries which are essential and require investment on a scale which only the State, in the present circumstances, could provide, have also to be in the public sector. The State has, therefore, to assume direct responsibility for the future development of industries over a wider area.

After considering all aspects of the problem, in consultation with the Planning Commission, the Government of India have decided to classify industries into three categories having regard to the part which the State should play in each of them. It should also be remembered that it is always open to the State to undertake any type of industrial production.

In the first category will be industries, the future development of which will be the exclusive responsibility of the State. The second category will consist of industries, which will be progressively State-owned and in which the State will, therefore, generally take the initiative in establishing new undertakings, but in which private enterprise will also be expected to supplement the efforts of the State. The third category will include all the remaining industries, and their future development will, in general, be left to the initiative and enterprise of the private sector.

Industries in the first category have been listed in Schedule A of this resolution. All new units in these industries, save where their establishment in the private sector has already been approved, will be set up only by the State. This does not preclude the expansion of the existing privately owned units, or the possibility of the State securing the co-operation of private enterprise in the establishment of new units when the national interests so require.

Railways and air transport, arms and ammunition and atomic energy will, however, be developed as Central Government monopolies. Whenever co-operation with private enterprise is necessary, the State will ensure, either through majority participation in the capital, or otherwise, that it has the requisite powers to guide the policy and control the operations of the undertakings.

Industries in the second category will be those listed in Schedule B. With a view to accelerating their future development, the State will increasingly establish new undertakings in these industries. At the same time private enterprise will also have the opportunity to develop in this field, either on its own or with State participation.

All the remaining industries will fall in the third category and it is expected that their development will be undertaken ordinarily through the initiative and enterprise of the private sector, though it will be open to the State to start any industry even in this category. It will be the policy of the State to facilitate and encourage the development of these industries in the private sector, in accordance with the programme formulated in successive Five-Year Plans, by ensuring the development of transport, power and other services, and by appropriate fiscal and other measures.

The State will continue to foster institutions to provide financial aid to these industries, and special assistance will be given to enterprises organised on co-operative lines for industrial and agricultural purposes. In suitable cases, the State may also grant financial assistance to the private sector. Such assistance, especially when the amount involved is substantial, will preferably be in the form of participation in equity capital, though it may also be in part in the form of debenture capital.

Industrial undertakings in the private sector have necessarily to fit into a framework of the social and economic policy of the State and will be subject to control and regulation in terms of the Industries (Development and Regulation) Act and other relevant legislation. The Government of India, however, recognise that it would, in general, be desirable to allow such undertakings to develop with as much freedom as possible, consistent with the targets and objectives of the national plan. When there exist in the same industry both privately and publicly owned units, it would continue to be the policy of the State to give fair and non-discriminatory treatment to both of them.

In appropriate cases, privately owned units may be permitted to produce an item falling within Schedule A for meeting their own requirements or as by-products. There will be ordinarily no bar to small privately owned units undertaking production, such as the making of launches and other light-craft, generation of power for local needs and small scale mining. Further, heavy industries in the public sector may obtain some of their requirements of lighter components from the private sector, while the private sector in turn would rely for many of its needs on the public sector. The same principle would apply with even greater force to the relationship between large-scale and small-scale industries.

COTTAGE INDUSTRIES

In relation to some of the problems that need urgent solutions, these offer some distinct advantages. They provide immediately large-scale employment; they offer a method of ensuring a more equitable distribution of the national income and they facilitate an effective mobilisation of resources of capital and skill which might otherwise remain unutilised. Some of the problems that unplanned urbanisation tends to create will be avoided by the establishment of small centres of industrial production all over the country.

The State has been following a policy of supporting cottage and village and small scale industries by restricting the volume of production in the large-scale sector, by differential taxation, or by direct subsidies. While such measures will continue to be taken, whenever necessary, the aim of State policy will be to ensure that the decentralised sector acquires sufficient vitality to be self-supporting and its development is integrated with that of large-scale industry.

* See next page for the declaration.

The State will, therefore, concentrate on measures designed to improve the competitive strength of the small-scale producer. For this it is essential that the technique of production should be constantly improved and modernised, the pace of transformation being regulated so as to avoid, as far as possible, technological unemployment.

Lack of technical and financial assistance, of suitable working accommodation and inadequacy of facilities for repair and maintenance are among the serious handicaps of small-scale producers. A start has been made with the establishment of industrial estates and rural community workshops to make good these deficiencies. The extension of rural electrification and the availability of power at prices which the workers can afford will also be of considerable help.

Many of the activities relating to small-scale production will be greatly helped by the organisation of industrial co-operatives. Such co-operatives should be encouraged in every way and the State should give constant attention to the development of cottage and village and small-scale industries.

REGIONAL DEVELOPMENT

In order that industrialisation may benefit the economy of the country as a whole, it is important that disparities in levels of development between different regions should be progressively reduced. The lack of industries in different parts of the country is very often determined by factors such as availability of the necessary mineral and other natural resources. A concentration of industries in certain areas has been due to the ready availability of power, water supply and transport facilities which have been developed there. It is one of the aims of national planning to ensure that these facilities are steadily made available to areas which are at present lagging behind industrially or where there is greater need for providing opportunities for employment, provided the location, is otherwise suitable.

This programme of industrial development will make large demands on the country's resources of technical and managerial personnel. To meet these rapidly growing needs for the expansion of the public sector and for the development of village and small-scale industries, proper managerial and technical cadres in the public services are being established.

Steps are also being taken to meet shortages at supervisory levels, to organise apprenticeship schemes of training on a large-scale both in public and in private enterprises, and to extend training facilities in business management in universities and other institutions.

The living and working conditions of workers should be improved and their standard of efficiency raised. The maintenance of industrial peace is one of the prime requisites of industrial progress. In a socialist democracy labour is a partner in the common task of development and should participate in it with enthusiasm.

Some laws governing industrial relations have been enacted and a broad common approach has developed. With the growing recognition of the obligations of both management and labour there should be joint consultation and workers and technicians should, wherever possible, be associated progressively in management. Enterprises in the public sector have to set an example in this respect.

With the growing participation of the State in industry and trade, the manner in which these activities should be conducted and managed assumes considerable importance. Speedy decisions and a willingness to assume responsibility are essential if these enterprises are to succeed. For this, wherever possible, there should be decentralisation of authority and their management should be along business lines. It is to be expected that public enterprises will augment the revenues of the State and provide resources for further development in fresh fields. But such enterprises may sometimes incur losses. Public enterprises have to be judged by their total results and in their working they should have the largest possible measure of freedom.

The industrial policy resolution of 1948 dealt with a number of other subjects which have since been covered by suitable legislation or by authoritative statements of policy. The division of responsibility between the Central Government and the State Governments in regard to industries has been set out in the Industries (Development and Regulation) Act. The Prime Minister, in his statement in Parliament on April 6, 1949, has enunciated the policy of the State in regard to foreign capital. It is, therefore, not necessary to deal with these subjects in this resolution.

SCHEDULE A

The future development of the following industries will be the exclusive responsibility of the State :

1. Arms and ammunition and allied items of defence equipment.
2. Atomic energy.
3. Iron and steel.
4. Heavy castings and forgings of iron and steel.
5. Heavy plant and machinery required for iron and steel production, for mining, for machine tool manufacture and for such other basic industries as may be specified by the Central Government.
6. Heavy electrical plant including large hydraulic and steam turbines.
7. Coal and lignite.
8. Mineral oils.
9. Mining of iron ore, manganese ore, chrome ore, gypsum, sulphur, gold and diamond.
10. Mining and processing of copper, lead, zinc, tin, molybdenum and wolfram.
11. Minerals specified in the schedule to the Atomic Energy (Control of Production and Use) Order, 1953.
12. Aircraft.
13. Air transport.
14. Railway transport.
15. Shipbuilding.
16. Telephones and telephone cables, telegraph and wireless apparatus (excluding radio receiving sets).
17. Generation and distribution of electricity.

SCHEDULE B

The following industries will be progressively State-owned. The State will generally take the initiative in establishing new undertakings but private enterprise will not be excluded.

1. All other minerals except "minor minerals" as defined in section 3 of the Minerals Concession Rules, 1949.
2. Aluminium and other non-ferrous metals not included in Schedule "A".
3. Machine tools.
4. Ferro alloys and tool steels.
5. Basic and intermediate products required by chemical industries such as the manufacture of drugs, dyestuffs and plastics.
6. Antibiotics and other essential drugs.
7. Fertilizers.
8. Synthetic rubber.
9. Carbonisation of coal.
10. Chemical pulp.
11. Road transport.
12. Sea transport.

ORIGINAL RESOLUTION

The original declaration of industrial policy was made on April 6, 1948 by the Government of India and is given below for purposes of record. This has been superseded by the one given at the top of this article.

(1) The manufacture of arms and ammunition, the production and control of atomic energy, and the ownership and management of railway transport should be the exclusive monopoly of the Central Government.

(2) The State will be responsible for the establishment of new undertakings in the field of coal, iron and steel, aircraft manufacture, shipbuilding, manufacture of telephone, telegraph and wireless apparatus excluding radio receiving sets and mineral oils. Existing undertakings will be allowed to develop for a period of ten years and Government will give all assistance for such development. At the end of the period their position will be reviewed.

(3) Control by the State over the generation and distribution of electric power will continue.

(4) Rest of the industries will normally be open to private enterprise with varying degrees of control over location.

(5) The Central Government would investigate the extent to, and the manner in which cottage and small scale industries could be co-ordinated and integrated with large scale industries.

This policy was re-affirmed in the course of a debate in December 1954, though Government had set a new goal for the country—the establishment of a socialistic pattern of society.

INDUSTRIES DEVELOPMENT & REGULATION ACT

Towards the end of 1951 Parliament passed the Industries (Development and Regulation) Bill. The Act applies to 37 industries listed in the First Schedule to the Act.

The most important provision is the establishment of Development Councils which will deal with the problem of productivity and service to the community.

At the top will be the Central Advisory Council for Industries which will advise Government on rules, directions to industrial undertakings and taking over the management of industrial concerns.

The Act provides for the registration of existing industrial undertakings and licensing of new ones.

It also empowers Government to investigate into the causes of any possible fall in the production of any concern or any deterioration in the quality of the product, and to take action.

The Act contains provisions for direct control by the Central Government in certain cases.

In the middle of 1952 a Central Advisory Council of Industries was established, consisting of 27 representatives of industry, labour, consumers and primary producers pertaining to the scheduled industries.

Upto November 1, 1952, which was the last date prescribed for registration under the Act, 3,562 undertakings had applied for registration. Of these 2,209 were found to be eligible for registration.

A Licensing Committee has also been set up consisting of representatives of the Ministries of Commerce and Industry, Finance, Railways, Production and of the Planning Commission to examine application for licences. Between October 1953 and November 1954, 502 applications for licences were received. Licences were granted in 422 cases, refused in 54, and 26 cases were referred back to the parties.

During 1955, the Licensing Committee examined 756 applications for licences and granted licences in 563 cases, rejecting 119 cases. Of the remaining applications, a few were withdrawn and the rest were deferred for consideration at a later date. Out of the schemes approved, 164 were for the establishment of new undertakings; 319 for effecting substantial expansion and for manufacture of new articles; five for change of location of factories and 75 for carrying on the business of existing undertakings.

There was only one case up to 1953 August in which Government ordered an investigation into the circumstances of an undertaking.

The scope of the Act was enlarged in 1953.

The Government, by a notification issued in the Gazette of India Extraordinary, dated March 1, 1957, brought the Industries (Development and Regulation) Amendment Act, 1956, into force with immediate effect.

The following are among the new industries* listed in this Act: Ferro-alloys and special steels, lignite, television sets, teleprinters, amplifying and public address equipment, electrical furnaces, X-ray equipment, abrasives and grinding wheels, commercial, office and household equipment, refrigerators, medical and surgical appliances, plastics moulding industries, industrial instruments, fine chemicals including photographic chemicals, synthetic resins and plastics, paints, varnishes and enamels, man-made fibres including regenerated cellulose rayon, nylon and the like, explosives including gunpowder and safety fuses, insecticides, fungicides, woodicides, textile accessories and auxiliaries, textile processing, photographic raw films and printing paper, pulp-wood pulp, mechanical, technical including dissolving pulp, fermentation industries, food processing industries, organic fertilisers, hardboard and chipboard, asbestos cement, insulating boards, gypsum boards, wall boards, matches, cigarettes, fire fighting equipment and appliances including fire engines, and sizing materials including starch.

All undertakings pertaining to these industries, employing 50 or more workers with the aid of power, or 100 or more workers without the aid of power, would now fall within the purview of the Industries (Development and Regulation) Act, 1951, as amended.

DEVELOPMENT COUNCILS

In addition to the Development Councils for Heavy Chemicals (Acids and Fertilizers), Internal Combustion Engines and Power-driven Pumps and Sugar, which were set up earlier, Development Councils for Light Electrical and Heavy Electrical Industries, Pharmaceuticals and Drugs, Heavy Chemicals (Alkalies), Woollen Textiles and Art Silk Textiles were set up during 1955. In 1956, two more Development Councils were formed, one for Machine Tools and one for Bicycles. Altogether there were 12 Councils at the end of 1956.

Besides, a number of Panels or Expert Committees for inquiring into and studying the development of a number of important industries were set up. The following is the list of the Panels and Committees thus set up: Agricultural Tractors; Aluminium; Earth Moving and Allied Equipment; Electronics and Wireless Equipment; Paper and Pulp; X-Ray Equipment; Surgical Appliances; Power Alcohol; and Sago.

STATE AID TO INDUSTRIES

For the development of more important industries for which sufficient capital is not likely to be forthcoming from private resources, Government has been giving financial assistance to the promoters of the schemes by granting loans on special terms or by participating in equity capital. The industries to which such assistance is being rendered include the manufacture of explosives for civilian purposes, intermediates for certain types of dyestuffs and textile machinery, besides steel production.

With regard to foreign assistance, each case is considered on its merits subject to the provisions in the Industrial Policy Statement. Generally permission is not granted for investment of foreign capital in purely commercial or trading concerns unless technical know-how is an essential aspect of the trading activities. During 1956, efforts were made to secure technical help for the development of our industries under the International Technical Assistance Schemes such as Point Four Programme, Colombo Plan, etc.

In order to assist exports, Export Promotion Councils for various industries are also being set up. Two such Councils were formed in 1954—Cotton Textiles Export Promotion Council; and Silk and Rayon Textiles Export Promotion Council; three in 1955—the Plastics, Engineering and Cashew and Pepper Promotion Councils; and three in 1956—Mica, Tobacco and Leather Export Promotion Councils.

REGULATED INDUSTRIES

The Industries (Development and Regulation) Bill which received the assent of the President on Oct. 31, 1951 came into force on May 8, 1952. The Act was amended in 1956 with a view to covering a larger number of industries. The amended Act covers any industry engaged in the manufacture or production of any of the articles mentioned under each of the following headings or sub-headings, namely:—

1. METALLURGICAL INDUSTRIES: *Ferrous:* Iron and steel (metal); Ferro-alloys; Iron and Steel castings and forgings; Iron and Steel structurals; Iron and Steel pipes; Special steels; Other products of iron and steel. *Non-ferrous:* Non-ferrous metals and alloys; Semi-manufactures and manufactures.

2. FUELS: Coal, lignite, coke and their derivatives; Mineral oil (crude oil), motor and aviation spirit, diesel oil, kerosene oil, fuel oil, diverse hydrocarbon oils and their blends including synthetic fuels, lubricating oils and the like; Fuel gases—(coal gas, natural gas and the like).

3. BOILERS AND STEAM GENERATING PLANTS.

4. PRIME MOVERS (OTHER THAN ELECTRICAL GENERATORS): Steam engines and turbines; Internal combustion engines.

5. ELECTRICAL EQUIPMENT: Equipment for generation, transmission and distribution of electricity including transformers; Electrical motors; Electrical fans; Electrical lamps; Electrical furnaces; Electrical cables and wires; X-ray equipment; Electronic equipment; Household appliances such as electric irons, heaters and the like; Storage batteries; Dry cells.

6. TELECOMMUNICATIONS: Telephones; Telegraph equipment; Wireless communication apparatus; Radio receivers, including amplifying and public address equipment; Television sets; Teleprinters.

7. TRANSPORTATION: Aircraft; Ships and other vessels drawn by power; Railway locomotives; Railway rolling stock; Automobiles (motor cars, buses, trucks, motor cycles, scooters and the like); Bicycles; Others, such as fork lift trucks and the like.

8. INDUSTRIAL MACHINERY: *Major items of specialised equipment used in specific industries:* Textile machinery (such as spinning frames, carding machines, powerlooms and the like) including textile accessories; Jute machinery; Rayon machinery; Sugar machinery; Tea machinery; Mining machinery; Metallurgical machinery; Cement machinery; Chemical machinery; Pharmaceuticals machinery; Paper machinery.

General items of machinery used in several industries, such as the equipment required for various 'unit processes': Size reduction equipment—crushers, ball mills and the like; Conveying equipment—bucket elevators, skip hoists, cranes, derricks and the like; Size separation units—screens, classifiers and the like; Mixers and reactors—kneading mills, turbo mixers and the like; Filtration equipment—filter presses, rotary filters and the like; Centrifugal machines; Evaporators; Distillation equipment; Crystallisers; Driers; Power driven pumps—reciprocating, centrifugal and the like; Air and gas compressors and vacuum pipes (excluding electrical furnaces); Refrigeration plants for industrial use; Fire fighting equipment and appliances including Fire engines.

Other items of Industrial Machinery: Ball, roller and tapered bearings; Speed reduction units; Grinding wheels and abrasives.

9. MACHINE TOOLS.

10. AGRICULTURAL MACHINERY: Tractors, harvestors and the like; Agricultural implements.

11. EARTH-MOVING MACHINERY: Bulldozers, dumpers, scrapers, loaders, shovels, drag lines, bucket wheel excavators, road rollers and the like.

12. MISCELLANEOUS MECHANICAL AND ENGINEERING INDUSTRIES: Plastic moulded goods; Hand tools, small tools and the like; Razor blades.

13. COMMERCIAL, OFFICE AND HOUSEHOLD EQUIPMENT: Typewriters; Calculating machines; Air conditioners and refrigerators; Vacuum cleaners; Sewing and knitting machines; Hurricane lanterns.

14. MEDICAL AND SURGICAL APPLIANCES: Surgical instruments—sterilisers, incubators and the like.

15. INDUSTRIAL INSTRUMENTS: Water meters, steam meters, electricity meters and the like; Indicating, recording and regulating devices for pressure, temperature, rate of flow, weights, levels and the like; Weighing machines.

16. SCIENTIFIC INSTRUMENTS.

17. MATHEMATICAL, SURVEYING AND DRAWING INSTRUMENTS.

18. FERTILISERS: Inorganic, Organic and Mixed.

19. CHEMICALS (OTHER THAN FERTILISERS): Inorganic heavy chemicals; Organic heavy chemicals; Fine chemicals including photographic chemicals; Synthetic resins and plastics; Paints, varnishes and enamels; Synthetic rubbers; Man-made fibres including regenerated cellulose-rayon, nylon and the like; Coke oven by-products; Coal tar distillation products like napthalene, anthracene and the like; Explosives including gun powder and safety fuses; Insecticides, fungicides, weedicides and the like; Textile auxiliaries; Sizing materials including starch; Miscellaneous chemicals.

20. PHOTOGRAPHIC RAW FILM AND PAPER: Cinema film; Photographic amateur film; Photographic printing paper.

21. DYE-STUFFS.

22. DRUGS AND PHARMACEUTICALS.

23. TEXTILES (INCLUDING THOSE DYED, PRINTED OR OTHERWISE PROCESSED): made wholly or in part of cotton, including cotton yarn, hosiery and rope; made wholly or in part of jute, including jute, twine and rope; made wholly or in part of wool, including wool tops, woollen yarn, hosiery, carpets and druggets; made wholly or in part of silk including silk yarn and hosiery; made wholly or in part of synthetic, artificial (man-made) fibres, including yarn and hosiery of such fibres.

24. PAPER AND PULP INCLUDING PAPER PRODUCTS: Paper—writing, printing and wrapping; Newsprint; Paper board and straw board; Paper for packaging (corrugated paper, kraft paper, paper bags, paper containers and the like); Pulp—wood pulp, mechanical, chemical, including dissolving pulp.

25. SUGAR.

26. FERMENTATION INDUSTRIES: Alcohol; Other products of fermentation industries.

27. FOOD PROCESSING INDUSTRIES: Canned fruits and fruit products; Milk foods; Malted foods; Flour; Other processed foods.

28. VEGETABLE OILS AND VANASPATHI: Vegetable oils, including solvent extracted oils; Vanaspathi.

29. SOAPS, COSMETICS AND TOILET PREPARATIONS: Soaps; Glycerine; Cosmetics; Perfumery; Toilet preparations.

30. RUBBER GOODS: Tyres and tubes; Surgical and medicinal products including prophylactics; Footwear; Other rubber goods.

31. LEATHER, LEATHER GOODS AND PICKERS.

32. GLUE AND GELATIN.

33. GLASS: Hollow ware; Sheet and plate glass; Optical glass; Glass wool; Laboratory ware; Miscellaneous ware.

* For the full detailed list see below.

34. CERAMICS: Fire bricks; Refractories; Furnace lining bricks—acidic, basic and neutral; China ware and pottery; Sanitary ware; Insulators; Tiles.

35. CEMENT AND GYPSUM PRODUCTS: Portland cement; Asbestos cement; Insulating boards; Gypsum boards, wall boards and the like.

36. TIMBER PRODUCTS: Plywood; Hardboard, including fibre-board, chip-board and the like; Matches; Miscellaneous (furniture components, bobbins, shuttles and the like).

37. DEFENCE INDUSTRIES: Arms and ammunition.

38. MISCELLANEOUS INDUSTRIES: Cigarettes.

Explanation 1.—The articles specified under each of the headings Nos. 3, 4, 5, 6, 7, 8, 10, 11 and 18 shall include their component parts and accessories.

Explanation 2.—The articles specified under each of the headings Nos. 18, 19, 21 and 22 shall include the intermediates required for their manufacture.

FIVE-YEAR PLANS

The First Five-Year Plan provided for completion of the various industrial projects already under implementation by the Central Government or by the State Governments.

In addition, the Central Government has had a special responsibility for establishing certain defence industries.

The progress of industry during the First Five-Year Plan appears satisfactory, as much spadework has been done with regard to many projects, though the targets have not been achieved by the end of the Plan. As against Rs. 101 crores proposed to be spent in the public sector on industrial projects, the actual outlay was only Rs. 57 crores, while the total gross investment in fixed capital in the private sector during the Plan period was about Rs. 340 crores as against Rs. 468 envisaged. But the first plan was regarded essentially as a period of preparation for large-scale industrial development in the country.

In the context of industrialisation, there are two important problems—the industrial policy and industrial priorities. With regard to the first, the Government made a fresh statement of policy on April 30, 1956.† Within the framework of this policy, the following priorities are listed: (*a*) increased production of iron and steel and of heavy chemicals, including nitrogenous fertilizers and development of the heavy engineering and machine building industries; (*b*) expansion of capacity in respect of other developmental commodities and producer goods; (*c*) modernisation and re-equipment of important national industries which have already come into existence; (*d*) fuller utilisation of existing installed capacity; and (*e*) expansion of capacity for consumer goods.

In conformity with this order of priorities, the Second Five-Year Plan envisages the construction of three steel plants of one million tons ingot capacity each in the public sector and the provision of facilities in one of these for the production of 350,000 tons of foundry grade pig iron. Provision has also been made for the expansion of steel production by the Mysore Iron and Steel Works to 100,000 tons by 1960-61.

Other schemes include manufacture of electrical equipment; expansion of Hindustan Machine Tools; manufacture of industrial machinery and machine tools; expansion of the Government Electric Factory, Bangalore; development of the South Arcot Lignite Project at Neyveli; establishment of two more fertilizer factories in the Punjab and at Rourkela; expansion of Hindustan Shipyard and the Chittaranjan Locomotive Factory; expansion of the existing D.D.T. and antibiotic factories and establishment in Kerala of a second D. D. T. plant; establishment of a security paper mill.

Industrial projects of State Governments include (1) expansion of Mysore Iron and Steel Works, Government Porcelain Factory, Mysore Implements Factory, Govt. Electric Factory, Govt. Soap Factory, and Central Industrial Workshop in Mysore State; (2) Expansion of U.P. Govt. Cement Factory and Precision Instrument Factory; (3) Bihar Superphosphate Factory, expansion of Spun Silk Mill and Porcelain Factory; (4) Expansion of Praga Tools Factory and Govt. Tannery in Hyderabad; (5) Expansion of Travancore Rubber Works, China Clay Scheme, Travancore Minerals and Hard Sand Bricks Factory; (6) Expansion of Sri Venkateswara Board Mills, Andhra Paper Mills and Andhra Ceramic Factory; (7) Cotton Spinning Mill, Distillery, Solvent Extraction Plant, Gwalior Leather and Tannery Factory, and expansion of Gwalior Potteries by the Madhya Pradesh Government; (8) the Textile Mill, Spun Silk Mill and Sugar Mill of Assam; (9) Silk Spinning Plant and expansion of Govt. Woollen Factory, Drug Factory and Silk Weaving Plant in Kashmir; (10) Sandalwood Oil Factory, timber seasoning kiln and creosoting plant in Coorg; (11) a Sugar Mill and a Spinning Mill in Pondicherry.

New investment on the industrial projects of the Central Government (excluding the provision for the National Industrial Development Corporation of Rs. 55 crores) is expected to be about Rs. 502 crores during the Second Plan period and of the States about Rs. 32 crores. The programme of overall development under the private sector and the NIDC will cost about Rs. 720 crores, comprising Rs. 570 crores of new investments and Rs. 150 crores on replacements and modernisation.

† Given at the beginning of the article.

NEW METRIC SYSTEM OF WEIGHTS AND MEASURES

THE Government of India have now decided to adopt the metric system as the sole system of weights and measures in India, thus bringing about uniformity throughout the country. It is to come into usage by stages within ten years of the passing of the Act at the end of 1956—the Standards of Weights and Measures Act.

But the present (Jan. 1958) official view seems to be that this time-table could not be regarded as rigid and that in fact for another twenty, thirty, forty years the present weights and measures might continue to be used.

The change-over might not start on April 1, 1958 as planned.*

The Coinage Act of 1906 was amended to provide for the introduction of a decimal system of subsidiary coinage.

The new system of coinage came into use with the financial year 1957-58.

Further information about coinage is given in the section on Decimal Coinage.

The decision to adopt the metric system was not made in a hurry. It was preceded by nearly a century of study and discussion.

Even in the 19th Century the question of standardizing weights and measures in India received much attention from successive Governments, Central and Provincial. The work of a Committee appointed by the Government of India in 1867-68 is worthy of special mention. Though it recommended the adoption of the British system of weights and measures there was a strong note of dissent by Col. Richard Strachey, himself an engineer and administrator, which led the Government to decide in favour of the metric system. The Indian Weights and Measures Act of 1870 was passed which defined the kilogram as the standard of weight and equated the seer with kilogram and the seer capacity measure with litre. This Act however did not receive the sanction of the Secretary of State who raised some objections. A modified Act which met the Secretary of State's objections —Act XXXI of 1871—also remained a dead letter. Thereafter, the metric system went out of favour. The Measures of Length Act was passed in 1889 fixing the Imperial Yard and its subdivisions as the primary units of length. This Act is still current.

In 1914, another Committee, after an extensive survey of the diversity of weights and measures in the country, recommended that a uniform system should be adopted throughout India. As regards the system itself, two members recommended a combination of the British and Indian systems, while the third member presented a strong note of dissent, advocating the adoption of the metric system. No legislative action was taken following this report, and it was only in 1939 that the Indian Standards of Weights Act (Act IX) of 1939 was passed repealing the Act of 1871. This Act prescribed the weights in terms of the tola-seer-maund series and the grain-pound-ton series. The enforcement of the Act was in the discretion of the States; some of them therefore passed the necessary Acts incorporating the provisions of the Central Act. These States included Assam, Bihar, Bombay, Madras, Orissa, Punjab and Uttar Pradesh from the former Part A States, Hyderabad, Madhya Bharat, Mysore, Rajasthan and Travancore-Cochin from the former Part B States, and Bhopal and Coorg from the former Part C States. Actual enforcement does not appear to have been particularly effective except in Bombay State. For, the local weights and measures still continue to be used in most of the States, with variations from village to village and market to market, causing a lot of confusion in the day to day trade of the country.

Since 1939, opinion in favour of the metric system has been steadily growing. The Manufacturing Subcommittee of the National Planning Committee of 1940 and the Indian Science Congress of 1946, the latter under the presidentship of Mr. Nehru favoured the adoption of the metric system.

In 1946 a Decimal Coinage Bill was introduced by Government in the Central Legislature but the political conditions then prevailing made it impossible to proceed with it.

To investigate the question of weights and measures thoroughly and to make specific recommendations to the Government, the Indian Standards Institution (ISI) appointed a Special Committee in May 1948 with the concurrence of the Government of India. This Special Committee consulted all the various industrial, commercial and trade interests as well as Government departments and others affected by the problem, and finally recommended that the best solution was the metric system of weights and measures the introduction of which could be spread over a period of 11 to 15 years, preceded by the adoption of decimal coinage.

It recommended that the reform should be carried out in three stages, a preparatory stage of three to five years in which no extensive changes would be made but large-scale propaganda would be undertaken; a change-over stage of about five years in which the change-over would be effected in the agencies under the control of Central and State administrations and in public life; and a final stage of three to five years when the whole country would come under the metric system entirely, and after which no other system would be regarded as legal.

The report gave rise to much public discussion, and the pros and the cons were thoroughly argued. Those in favour of the metric system have urged that now that India is embarking upon a heavy programme of industrial development, the country has to choose between the two major international systems of weights and measures. The metric system is more widely prevalent and used in scientific and technical research all over the world. It is simpler and has therefore advantages in mass education. The decimal system was invented in India.

In order to make a proper assessment of the whole problem the Planning Commission decided on the 30th August, 1954 that Mr. Pitambar Pant (Private Secretary to Chairman, Planning Commission) should prepare a memorandum.

Further investigations were, therefore, undertaken by Mr. Pant in consultation with the Indian Standards Institution, the Ministry of Commerce and Industry and other Ministries of the Government of India to ascertain opinion in business and industry and the extra cost that the adoption of the metric system might entail in the public and private sectors. The Ministry of Commerce and Industry also sent round circulars to a large number of industrial units to obtain the views of organized industry. The general conclusion reached on the basis of the replies was that the metric system could be adopted without much difficulty provided the transition was spread over a period of 10 to 15 years. As regards the cost of conversion, it was estimated that this would be of the order of one crore of rupees per year over a transition period of 10 years.

After considering Mr. Pant's Report, the Planning Commission came to the conclusion that the metric system should be accepted in principle and necessary steps taken to introduce it throughout the country. For this purpose, it recommended the setting up of a Central Metric Committee to consider: the form in which legislation should be introduced, the phasing of the actual change-over, and education and propaganda.

After the Planning Commission's decision was endorsed by the Cabinet, it was put before Parliament for discussion on an unofficial resolution about the subject. The decision of the Government of India was widely supported and the resolution was accepted.

A Standing Metric Committee, recommended by the Planning Commission, was soon appointed by the Government of India under the Chairmanship of the Union Minister for Commerce, Mr. N. Kanungo. This Committee was entrusted with the task of looking into Central legislation, working out a phased programme of changeover, determining the form of States' organizations and other connected matters.

The first phase of the work of this Committee, namely, enactment of Central legislation having been completed, the Committee is now engaged on the task of preparing a co-ordinated plan of changeover for the Central and State Governments Departments, the public and private sectors of industry, etc.

The Standards of Weights and Measures Act 1956 was passed in December 1956 by the Union Parliament and the metric system was to be introduced in selected sectors of industry and trade with effect from 1st April 1958.

The Act defines the metre and kilogram as the primary standards of length and mass on the basis of international proto-type.

It also standardizes the unit of time as 'second' and capacity as 'litre'.

It recognizes centigrade scale of temperature as standard and a number of other primary and secondary units of practical importance.

The Act incorporates the latest definitions of standard units as internationally accepted and reflects the trend which all legislations of this type follow.

The major task confronting the Standing Metric Committee now is that of getting uniform legislation adopted by the fourteen States and to see to the establishment in each of these States of a strong Inspectorate of Weights and Measures. With this end in view, a Conference of State representatives was held in July 1957. This Conference agreed upon a uniform model bill, among other things, to be enacted in each State. The Conference also discussed items like Standards of Weights and Measures Rules, 1957, Notification of Secondary Units under Section 12 of the Weights and Measures Act, 1956, a general programme for the first stage of transition, organization for enforcement of weights and measures in States, training of personnel, manufacture and supply of metric weights and measures, etc. An Inter-State Committee of heads of Weights and Measures Departments was formed to ensure uniformity of approach with regard to the introduction of the metric system in all the States.

The Central Government Departments which have direct contact with the public, such as the Railways and Posts and Telegraphs, were to be the first to change-over to metric system, and already detailed plans have been worked out in this connection. Revision of various laws, notifications, conversion of maps, land records, etc. in the light of the new system offer many problems and are now being tackled by the Central Ministries and the State Governments. Aspects of education at all levels are also receiving attention simultaneously.

To carry along the private and public sectors of industry, conferences of individual groups of industries, beginning with engineering and textiles, are being organized under the auspices of the Standing Metric Committee from time to time.

A new journal *Metric Measures* has also come into being for purposes of education.

The total costs of the change-over would run into tens of crores. About 7,000 tons of pig iron would be needed for the new weights alone.

In this changeover the Indian Standards Institution has an important role to play. It has to furnish all basic standards required for various phases of changeover in every branch of industry and trade. The ISI has, therefore, worked out a 10-year plan of conversion during which all available Indian Standards will be converted into metric units. It has already published Conversion Factors and Conversion Tables covering all kinds of quantities that are

* In fact it did not. The Madras Government decided to introduce it in four districts—Madras, Chingleput, South and North Arcot—in October 1958.

of importance to the commercial and economic life of India. The Indian Standard on Commercial Metric Weights has been published, while standards on commercial metric capacity measures, commercial length measures, etc. are to be issued shortly. An Indian Standard Guide for Inter-Conversion of Values from One System of Units to Another has also been issued. Another special guide has been prepared to deal with inch-millimeter dimensions in engineering practices.

A more detailed and comprehensive task of preparing new standards and codes of practices including certain design codes and handbooks on the basis of the new system of weights and measures is also in hand (Oct. 1957).

A model Bill to give effect to the new system in the States has been approved.

Standards of Weight

The following table reproduced from the First Schedule of the Standards of Weights and Measures Act, 1956 gives the recognised rate of conversion for some of the units of weights and measures in the existing system into the metric system.

1 grain	= 0·000064799	kilogram.
1 ounce	= 0·0283495	,,
1 pound	= 0·4535924	kilogram.
1 cwt.	= 50·802	,,
1 ton	= 1016·05	,,
1 tola	= 0·0116638	,,
1 seer	= 0·93310	,,
1 maund	= 37·3242	,,

Standards of Length and Capacity

1 inch	= 0·0254	metre	(exact).
1 foot	= 0·3048	,,	,,
1 yard	= 0·9144	,,	,,
1 mile	= 1,609·344	,,	,,
1 imperial gallon	= 4·54596	litres.	

IMPORT AND EXPORT TRADE

Rs. lakhs

	1956 April-Dec.	1957 Jan.-March	1957 Jan.-June
Total (sea and air) foreign trade	1,032,82	..	..
Imports*	597,55	235,61	497,71
Exports	430,18	163,74	311,61
Re-exports	5,09	1,06	2,11
Total Exports	435,27	..	..
Excess of exports over imports	—162,28	..	..
Imports across Land frontier	14,61·5	..	..
Exports across land frontier	4,49·2		
Re-exports across land frontier	0·64	..	..

* Excludes certain stores on Government account.

FOREIGN TRADE BY CALENDAR YEAR

Below we give the composition of the country's foreign trade by calendar year:

(Rs. Crores)

	1956	1955	January to June	
			1957	1956
Exports	588·04	602·21	311·61	282·14
Re-exports	7·56	5 46	2·11	5·31
Total exports	595·60	607·67	313·72	287·45
Imports	813·27	673 06	497·71	393·77
Overall balance of trade (*Minus*)	217·67	65·39	183·99	106·32
Exports—				
Tea	142·84	113·62	49·36	55·30
Jute yarns and manufactures	113·48	123 57	29·00	51·75
Cotton yarns and manufactures	62·30	63·81	37·71	31·08
Metallic ores and scrap iron or steel for re-manufacture	30·09	23·72	26·59	9·47
Cotton, raw and waste	25·09	34·69	14·46	17·56
Oils—vegetable, mineral and animal	24·50	42·14	9·86	17·78
Fruits and vegetables	18 06	14·09	8·58	9·25
Tobacco	13·31	13·35	9·01	5·15
Mica	8 75	8·06	4·53	4·37
Wool, raw and waste	10·64	8·10	6·45	5·51
Gums, resins and lac	11·19	13 85	4·73	5·30
Spices	9·23	10 59	5·11	5·35
Hides and skins, raw	6·07	6·73	3·88	3·48
Woollen yarns and manufactures	4·35	4·32	2·38	2·14
Imports—				
Machinery of all kinds	150·11	110·03	80·58	72·06
Metals, iron and steel and manufactures thereof	122·42	52·18	79·52	56·56
Oils—vegetable, mineral and animal	82·46	82·39	52·78	30·98
Cotton, raw and waste	53 62	53 50	31·79	33·41
Chemicals, drugs and medicines	41·96	34·79	31·49	21·32
Cutlery, hardware, etc.	27·07	22·87	5·63	13·25
Electrical goods and apparatus	20·14	14·20	27·39	9·9[illegible]
Paper, pasteboard, etc.	15·98	15·31	6·62	8·49
Vehicles	67·10	53·04	34·74	30·99
Fruits and vegetables	15·08	13·00	10·82	8·72
Spices	14·77	11·75	1·45	3·49
Dyes and colours	16·52	18·26	8·21	8·61
Wool, raw and waste	9·87	8·89	6·63	5·41
Cotton yarns and manufactures	5·79	3·43	3·12	2·97

Trade from 1953-57

The following table shows the values in Rs. lakhs of the total import and export trade of India from 1952-53 to 1956-57. The total, includes trade across the land frontiers too:

	Imports	Exports	Balance
1952–53	664,04	577,66	—86,38
1953–54	580,67	530,62	—50,05
1954–55	633,05	588,24	—44,81†
1955–56	649,64	591,23	—58,41
1956–57	842,53	601,36	—241,17

† Excludes adverse balance of Rs. 8 lakhs on trade in gold and silver.

The following table shows the values in Rs. lakhs of the import and export trade of India across the land frontiers only from 1952-53 to 1956:

	Imports	Exports	Balance
1952–53	25,16	18,84	— 6,32
1953–54	22,93	7,46	—15,47
1954–55	23,39	5,73	—17,66
1955–56	29,35	6,14	—23,21
1956 (Apr. to Dec.)	14,62	4,49	—10,13

General Indices of Exports and Imports (1952-53 = 100)

	1953-54	1954-55	1955-56
Quantity Index:			
Exports	99	102	115
Imports	95	105	114
Price Index:			
Exports	94	100	93
Imports	93	91	94

India is essentially an agricultural country with farming regarded by the people as a tradition rather than as business. During the past 30 years the tendency has been, towards rapid industrialisation. This change has been noticeable in the matter of foreign trade especially in the post-partition period. In 1920-21 finished goods represented 84 per cent of imports, while exports of raw materials accounted for 45 per cent of the total shipments. In the quinquennium ended 1929-30 imports of raw materials hardly represented 9·3 per cent of the total, while exports of raw materials were as high as 49·5 per cent of the shipments. By 1950-51 the share of raw materials under imports rose to 35·1 per cent while that under exports dropped to 20·8 per cent. The emphasis on higher industrial production during the intervening period was responsible for reducing the import of manufactured goods from 72·6 per cent of the total imports in the five years ended 1929-30 to 45·7 per cent in 1950-51, while the share of finished goods in the export trade rose from 26·6 per cent to 55 per cent.

FOREIGN TRADE BY COUNTRY

(Rupees)

Countries	1954 April--1955 March		1955 April—1956 March		1956 (April to December)	
	Imports	Exports	Imports	Exports	Imports	Exports
COMMONWEALTH COUNTRIES						
Europe						
U.K.	153,35,86,316	188,07,58,368	172,69,17,190	164,37,56,403	155,00,34,766	135,58,95,246
Channel Islands	284	7,151	..	16,823	..	28,323
Gibraltar	1,558	1,67,907	12,921	1,52,673	3,649	1,68,900
Malta & Gozo	30,422	6,70,188	40	7,42,263	24	5,61,820
Asia						
Cyprus	4,74,097	55,84,869	11,92,475	62,02,725	6,25,601	32,69,724
Aden (including protectorate)	1,42,76,899	6,80,85,231	2,06,81,303	6,25,98,008	1,02,58,525	4,50,42,513
Bahrein Islands	20,26,53,274	2,18,13,310	8,16,41,081	2,19,88,599	5,24,48,950	1,73,50,544
Kuwait	3,38,998	3,63,03,587	3,54,937	3,45,52,895	5,68,63,135	2,41,71,048
Qatar and Trucial Oman	84,389	1,11,54,867	73,63,785	1,35,47,718	4,27,254	1,09,38,253
Pakistan						
Western	50,35,036	2,94,66,711	57,13,846	2,17,67,352	21,47,320	1,93,81,870
Eastern	12,74,884	1,93,97,456	41,08,213	62,80,703	2,28,366	46,39,937
Maldives	1,06,028	1,03,038	2,38,815	1,89,246	78,434	4,90,953
Ceylon	7,50,75,812	18,56,21,986	9,41,50,242	20,26,70,003	6,58,62,203	13,40,02,163
Singapore	15,55,75,503	7,03,75,216	13,83,90,239	7,91,20,869	11,67,21,567	5,07,59,506
Federation of Malaya	5,82,99,379	3,83,88,767	4,47,59,172	4,36,71,176	6,70,98,781	2,86,25,553
British Borneo	4,96,254	10,88,586	2,62,572	10,63,349	11,15,866	3,88,737
Hongkong	1,47,91,859	3,36,40,412	1,65,57,229	6,12,07,586	1,12,63,149	1,99,65,120
Africa						
Gold Coast	..	85,34,337	8	1,08,55,789	3,025	1,17,36,293
Nigeria	1,08,28,488	8,40,14,032	47,71,990	8,17,81,948	2,335	5,68,44,188
Gambia	..	22,11,960	..	14,90,741	..	15,55,519
Sierra Leone	..	67,71,133	..	65,66,571	..	56,92,017
St. Helena and Ascension	N.A.	N.A.	N.A.	3,776	..	4,339
S.-W. Africa	..	4,38,350	4,90,827	..	28,668	..
Union of S. Africa	27,981	46,849	55,744	82,043	15,698	54,120
Bechuana land—Protectorate	..	1,525	..	4,102	..	980
Swaziland	11,07,121	3,65,072	26,55,594	1,59,162	11,61,376	2,35,430
Rhodesia, Northern	49,75,828	61,57,532	5,18,762	62,37,385	2,13,28,289	32,90,059
Rhodesia, Southern	57,72,561	2,16,22,295	49,89,120	1,60,52,890	74,53,271	1,09,04,308
Zanzibar and Pemba	1,75,51,044	39,83,270	2,25,10,874	59,82,699	1,71,13,434	24,63,321
Kenya	18,39,02,502	6,78,36,925	21,85,00,209	6,03,19,742	15,73,80,611	4,62,44,834
Uganda	7,17,798	82,52,843	27,54,974	1,06,04,732	46,82,823	44,19,634
Tanganyika	2,46,45,815	4,46,00,482	2,26,53,057	3,68,12,158	2,64,99,734	2,51,66,221
Nyasaland	..	70,83,752	252	78,67,814	360	43,48,277
Somaliland Protectorate	26,184	5,22,392	62,949	12,60,490	46,629	4,68,536
Mauritius and Dependencies	..	1,47,57,832	422	2,63,79,682	3,459	86,94,313
Seychelles	64,31,783	8,33,915	67,38,004	8,39,433	36,28,637	4,50,888
America						
Canada	10,15,75,514	17,43,16,780	6,84,13,679	14,01,25,011	5,59,37,954	11,65,65,504
Bermuda	2,160	21,495	95,342	41,968	3,091	33,267
Bahamas	..	52,725	4,63,122	48,723	1,801	38,916
Jamaica and Dependencies	34,462	59,82,113	1,47,517	63,41,123	59,581	27,59,890
Leeward Islands	..	8,22,276	..	9,25,306	..	7,15,251
Windward Islands	..	8,27,815	..	6,90,324	..	4,24,085
Barbados	..	20,07,187	..	20,06,840	..	13,39,031
Trinidad and Tobago	1,58,23,999	47,14,140	48,38,816	40,06,334	29,614	24,92,480
British Honduras	..	4,29,619	..	3,52,957	..	2,23,114
Falkland Islands	..	98,098	..	58,386	..	6,484
British Guiana	6	64,85,578	28,367	62,44,907	..	36,57,494
Oceania						
Australia	19,75,57,696	24,53,20,971	13,46,87,593	24,80,87,259	8,99,91,208	16,74,49,563
Territory of Papua	..	6,20,411	..	4,38,674	..	2,55,938
New Guinea	..	7,97,598	..	10,85,605	9	11,20,219
Western Samoa	..	2,04,221	..	1,63,750	..	70,273
New Zealand	1,89,28,929	4,53,78,106	2,47,66,375	4,58,11,426	1,64,12,868	3,67,77,498
Fiji Islands	7,221	85,09,311	132	67,10,206	46	51,41,931
Other Islands in the Pacific	..	53,338	4,78,380	2,16,795	..	2,48,239
TOTAL	268,25,58,464	324,76,42,779	278,97,70,920	299,24,04,565	233,78,62,111	223,80,72,164
FOREIGN COUNTRIES						
Europe						
U.S.S.R.	1,81,44,343	2,11,67,942	6,20,71,224	3,25,70,255	10,79,60,429	10,93,70,154
Finland	2,15,00,076	17,68,612	2,70,82,417	33,81,646	1,98,67,912	30,39,682
Sweden	6,06,26,673	1,59,51,854	7,85,77,530	1,53,94,517	8,75,20,240	1,16,32,814
Norway	2,67,18,181	59,72,817	3,11,37,987	1,11,87,055	2,34,40,607	33,31,943
Iceland	2,215	1,01,069	8	4,04,324	..	3,20,359
Irish Republic	59,164	7,66,87,199	39,643	5,82,28,294	20	3,10,86,482
Poland	4,23,65,928	46,47,423	43,14,784	32,60,298	2,11,38,141	87,27,787
Denmark	2,10,95,964	1,29,56,533	4,17,68,590	2,03,79,740	3,13,40,666	1,43,24,415

Countries	1954 April—1955 March		1955 April—1956 March		1956 (April to December)	
	Imports	Exports	Imports	Exports	Imports	Exports
FOREIGN COUNTRIES–(*Contd.*)						
Germany (Western)	40,68,07,058	15,11,09,177	60,27,83,138	14,75,66,056	64,62,35,636	10,56,16,427
,, (Eastern)	23,36,445	3,58,483	37,34,650	2,04,669	20,31,599	26,36,504
Netherlands	13,64,40,064	13,77,01,936	14,12,65,564	15,17,04,778	10,79,17,215	7,95,15,742
Belgium	10,63,52,968	6,40,42,789	12,08,10,095	8,81,46,993	18,95,27,961	4,98,33,627
Luxemburg	7,91,612	1,28,677	35,53,365	6,283	1,64,08,062	6,087
France	16,34,76,464	5,28,83,644	15,53,93,886	7,02,50,464	15,08,86,595	4,68,48,951
Spain	1,04,18,360	20,83,246	53,02,332	46,29,205	61,56,265	25,19,067
Portugal	35,71,236	37,48,953	43,29,959	20,47,844	27,47,691	17,26,807
Switzerland	10,16,74,504	92,95,284	12,06,70,413	89,71,978	12,57,79,310	62,77,030
Italy	20,52,43,500	6,51,69,918	16,49,54,079	9,54,01,229	21,83,34,889	4,74,05,767
Austria	2,12,97,117	33,41,794	2,58,84,531	40,07,322	3,70,68,354	19,27,601
Hungary	10,44,720	2,49,393	41,19,614	8,06,874	57,87,697	10,32,610
Czechoslovakia	1,25,26,502	1,58,40,487	2,88,52,004	1,33,43,129	5,17,02,949	2,08,91,633
Yugoslavia	16,18,807	2,09,756	28,87,205	24,35,841	1,72,01,605	15,67,555
Bulgaria	81,079	79,170	3,49,545	2,05,420	22,23,821	4,77,619
Rumania	28,45,597	4,26,130	31,81,667	1,29,564	19,04,398	8,37,950
Greece	9,67,360	28,31,963	10,53,120	29,74,978	5,76,791	23,36,301
Turkey	84,153	1,48,57,587	42,737	2,45,27,377	7,55,547	1,84,46,277
Asia						
Syria	3,57,094	2,12,82,022	11,50,452	1,08,00,624	1,06,157	58,77,799
Lebanon	12,81,057	51,83,275	23,56,774	26,05,600	23,63,931	21,92,986
Israel	38,767	16,110	78,760	17,402	74,415	51,669
Jordan	5,80,500	32,44,909	8,55,523	30,38,517	22,54,082	19,39,043
Muscat and Oman	54,95,033	66,81,350	70,21,590	64,24,374	35,46,373	27,27,348
Saudi Arabia	16,81,49,332	3,05,10,555	15,16,28,963	6,02,94,410	12,70,23,791	3,56,52,205
Yemen	..	2,37,996	..	1,84,020	4,585	2,78,081
Iraq	1,83,53,399	2,75,96,288	2,26,82,730	2,13,20,391	1,50,68,817	1,46,66,431
Iran	4,20,29,183	6,08,84,932	14,43,64,716	5,16,19,266	24,45,45,599	3,34,47,186
Afghanistan	82,33,287	2,04,15,556	1,18,85,932	1,51,42,742	48,16,580	80,80,320
Burma	57,32,24,478	16,05,77,885	9,55,72,261	12,38,69,849	3,87,23,534	7,12,45,202
Indonesia	80,90,680	5,44,39,438	1,45,85,750	11,60,01,570	1,88,23,791	5,69,91,917
Netherlands New Guinea	..	1,818	346	..	..	21,052
Thailand	74,61,639	2,19,51,757	47,96,271	3,17,24,784	35,07,184	1,32,16,370
Viet Nam	N.A.	N.A.	6,181	40,76,078	12,448	22,19,212
Laos	N.A.	N.A.	5,000	33,005	554	1,49,085
Cambodia	N.A.	N.A.	575	56,72,323	6,229	30,71,019
Philippines	17,46,230	97,96,520	21,99,793	1,83,71,156	19,42,718	76,62,256
Japan	20,57,48,131	16,09,67,509	33,37,19,745	30,14,89,956	34,21,07,734	20,38,51,844
Korea	..	1,12,31,367	3	43,052	17,966	58,742
Formosa	1,75,48,721	3,18,047	12,438	13,49,139	32,148	28,238
China	2,03,16,580	2,96,43,474	4,37,66,594	6,53,50,374	5,94,54,457	2,72,37,063
AFRICA						
Sudan†	N.A.	N.A.	N.A.	N.A.	8,42,79,158	6,79,72,368
Egypt	19,69,18,795	8,09,12,709	23,09,92,615	9,46,45,019	4,91,59,606	8,49,33,106
Tripoli (Libya)	2,745	39,55,394	..	40,91,156	..	35,29,203
Tunis	4,06,547	30,02,192	9,66,486	14,20,177	..	9,06,795
Algeria	26,112	2,31,703	39,103	2,44,623	1,343	1,10,675
Morocco, Spanish	7,291	1,13,502	..	4,02,152	25	24,572
,, French	16,85,728	94,93,330	12,20,896	61,37,125	2,66,250	26,82,237
Tangier	..	4,80,214	46,866	15,26,813	43,714	2,03,676
Canary Islands	16,52,515	19,899	..	..	..	..
Spanish West Africa	..	..	..	9	..	..
French West Africa	..	70,03,519	..	70,63,612	..	70,29,811
Liberia	312	2,59,740	13,195	4,84,954	..	6,18,949
French Equatorial Africa	..	2,71,134	..	4,42,615	..	6,59,186
Belgian Congo	2,34,67,866	27,42,089	1,41,12,035	19,13,863	86,01,091	11,61,066
Angola	..	50,66,687	2,20,875	48,47,397	..	15,22,087
Portuguese Guinea	..	11,028	..	98,414	..	1,11,510
Cape Verde Islands	..	32,359	..	56,285	..	50,926
Sao Thome et Principe	..	4,311	..	15,571	..	1,047
Mozambique	4,44,23,520	74,26,139	4,50,24,228	75,36,368	2,20,92,047	54,94,588
Madagascar and Kerguelon	2,134	11,32,198	3,50,693	30,85,237	26,20,817	18,42,699
Reunion	..	4,02,312	..	1,62,821	..	4,46,486
Somalia	..	3,94,550	..	9,09,789	..	6,22,366
French Somaliland	1,060	4,58,590	..	14,47,456	58,003	5,91,561
Ethiopia	1,12,089	3,29,16,034	3,75,780	3,76,20,052	3,08,294	2,46,68,461
AMERICA						
U.S.A.	82,22,29,377	88,02,80,573	89,30,25,190	85,25,98,114	70,58,01,703	64,36,39,260
Cuba	6,74,12,060	4,79,34,571	67,31,550	4,48,69,789	27	4,76,57,200
Haiti	..	18,35,738	..	40,68,220	..	4,90,184
Dominican Republic	18,65,145	28,54,924	..	55,81,741	..	33,60,632
Porto Rico	..	1,13,89,972	..	55,38,598	29	25,92,401
French W.-Indies	..	3,32,633	..	6,59,856	..	2,01,929
Virgin Islands of the U.S.	..	23,129	..	24,839	..	1,54,140

† Treated as a foreign country from April, 1956. N.A.—Not Available.

Countries	1954 April—1955 March		1955 April—1956 March		1956 (April to December)	
	Imports	Exports	Imports	Exports	Imports	Exports
FOREIGN COUNTRIES—(*Contd.*)						
AMERICA—*Contd.*						
Netherlands Antilles	86,32,947	1,83,889	30,16,285	1,44,275	51,81,296	1,97,507
Mexico	9,90,639	10,86,804	12,41,700	17,88,089	23,53,206	10,69,660
Guatemala	..	4,31,422	..	2,72,606	..	1,50,080
Honduras (not British)	..	2,12,357	..	3,66,662	..	6,49,159
Salvador	..	2,51,620	..	1,71,305	..	43,267
Nicaragua	..	16,12,516	..	24,84,199	..	13,80,584
Costa Rica	..	3,40,429	..	13,54,642	..	8,61,990
Colombia	3,382	76,726	4,109	71,284	2,77,691	1,76,473
Republic of Panama	1,55,927	4,02,815	4,74,937	8,56,288	63,428	8,55,544
Panama Canal Zone	200	20,720	980	5,141	..	10,223
Venezuela	81,45,078	10,46,649	30,49,597	9,62,750	43,98,023	6,95,192
Surinam	..	6,87,540	..	8,82,165	..	7,77,562
Brazil	2,02,923	12,16,770	69,36,703	8,85,116	1,87,884	16,14,548
Paraguay	1,343	5,55,730	11,518	17,84,058	..	17,85,116
Uruguay	..	1,49,63,547	9	1,53,70,883	26,911	1,51,02,930
Argentine Republic	6,81,971	12,50,83,222	6,17,658	11,09,29,232	3,00,745	5,28,71,912
Chile	1,13,15,571	1,50,00,769	1,94,95,508	95,27,440	51,84,910	51,51,913
Peru	63,49,024	1,16,52,866	40,49,265	1,46,67,067	69,85,996	1,27,00,750
Ecuador	..	8,10,206	..	11,12,049	..	6,98,574
Bolivia	13,20,714	2,64,759	8,68,785	5,16,266	4,50,093	10,53,619
OCEANIA						
Hawaii	9,361	11,03,290	95,620	2,43,772	861	1,00,541
Guam	..	87,559	..	57,054	..	48,062
Other Islands in the Pacific	31,61,417	3,03,957	20,94,907	1,14,193	..	36,132
TOTAL	364,79,34,360	257,97,54,953	370,66,29,661	285,46,86,388	363,75,91,801	206,37,67,398
GRAND TOTAL	633,04,92,824	582,73,97,732	649,64,00,581	584,70,90,953	597,54,53,912	430,18,39,562

EXPORTS (January to March 1957).

The following table shows the exports to some countries for the period January to March 1957.

Countries	Rs. 000
Canada	3,97,99
U.S.A.	25,22,36
Total (Dollar area)	30,44,42
U.K.	45,47,09
W. Pakistan	94,75
E. Pakistan	61,78
Ceylon	4,42,53
Australia	6,51,80
New Zealand	1,20,80
Burma	4,13,78
Total (Sterling area)	83,41,63
Norway	13,36
Denmark	43,17
W. Germany	4,07,75
Netherlands	2,50,36
Belgium	1,76,65
France	3,29,73
Switzerland	45,28
Italy	2,16,10
Total (O.E.E C. Countries)	16,17,12
U.S.S.R.	4,39,62
Czechoslovakia	1,03,82
Yugoslavia	10,15
Iran	1,19,73
Afghanistan	33,79
Japan	8,94,18
China	13,89
Egypt	2,90,05
Argentina	1,10,61
Total (Other Countries)	33,62,51
Grand Total	163,65,67

IMPORTS (January to March 1957).

The following table shows the imports from some countries for the period January to March 1957.

Countries	Rs. 000
Canada	4,11,78
U.S.A.	34,67,82
Total (Dollar area)	39,04,30
U.K.	57,91,89
W. Pakistan	56,25
E. Pakistan	2,80,99
Ceylon	1,31,91
Australia	3,71,94
New Zealand	79,97
Burma	5,52,40
Total (Sterling areas)	88,76,68
Norway	1,01,50
Denmark	89,23
W. Germany	25,37,91
Netherlands	3,12,74
Belgium	5,58,04
France	6,32,21
Switzerland	3,73,62
Italy	4,48,05
Total (O.E.E.C.)	55,15,85
U.S.S.R.	6,11,02
Czechoslovakia	2,09,80
Yugoslavia	28,09
Iran	6,53,41
Afghanistan	1,31,49
Japan	13,68,16
China	1,58,02
Egypt	3,40,49
Argentina	2,42
Total (Other areas)	45,04,08
Grand Total	228,00,86

IMPORTS BY CUSTOMS ZONES†

The following table shows the value in Rupees of the imports for April to December 1956 by customs zones:

Merchandise:

	Rs.
West Bengal	190,76,91,942
Madras	80,15,63,856
Travancore-Cochin	16,68,31,773
Bombay	298,31,60,817
Saurashtra, Okha and Kutch	10,44,74,788
Delhi air-ports	1,17,30,736
Total of merchandise	597,54,53,912
Treasure (gold, gold coin):	
West Bengal	1,79,788
Madras	2,10,216
Travancore-Cochin	2,719
Bombay	15,93,41,737
Saurashtra, Okha, Kutch	880
Delhi air-ports	36,19,060
Total treasure	16,33,54,400
Total of imports	613,88,08,312

Total imports by customs zones for the period January to March 1957:

	Rs. lakhs
Calcutta	79,99
Madras	31,04
Cochin	11,05
Bombay	98,31
Baroda	4,84
Delhi	2,50
Shillong	28
Patna	0·2
Total	228,00·2

EXPORTS BY CUSTOMS ZONES†

The following table shows the value in Rupees of the exports of merchandise by customs zones April to December 1956:

	Indian	Indian and foreign
West Bengal	223,49,84,604	225,10,93,729
Madras	61,65,00,931	61,80,77,637
Travancore-Cochin	42,00,94,204	42,01,10,104
Bombay	98,02,49,415	101,32,10,138
Saurashtra, Okha, Kutch	3,23,03,553	3,23,17,553
Delhi air-ports	1,77,06,855	1,78,93,684
Total	430,18,39,562	435,27,33,145

Total exports by customs zones for the period January to March 1957:

	Rs. lakhs
Calcutta	79,61
Madras	21,82
Cochin	13,83
Bombay	45,83
Baroda	1,27
Delhi	98
Shillong	3
Patna	27
Total	163,66

The following table shows the value in Rupees of the export of treasure April to December 1956:

West Bengal	21,70,916
Madras	16,58,000
Travancore-Cochin	....
Bombay	2,94,07,580
Saurashtra, Okha and Kutch	....
Delhi air-ports	21,28,946
Total treasure	3,53,65,442
Total of exports	438,80,98,587

In the period January to March 1957, the export and re-export of gold were nil, and the imports worth Rs. 6 lakhs.

† Pre-reorganization States.

FOREIGN TRADE BY LAND

(Rupees in lakhs)

Country	April 1954–March 1955			April 1955–March 1956			April–December 1956		
	Imports	Exports	Balance	Imports	Exports	Balance	Imports	Exports	Balance
Pakistan	18,75	4,86	— 13,89	26,13	5,50	—20,63	12,15	3,99	— 8.16
Afghanistan	4,60	84	— 3,76	3,19	63	—2,56	2,41	50	— 1,90
Iran	..	—	—	....	....	....	5	—	— 5
Burma	4	3	— 1	2	1	—1	1	0·38	— 0·62
Total	23,39	5,73	— 27,66	29,35	6,14	—23,20	14,62	4,49·38	—10,12.62

IMPORT AND EXPORT CONTROL

(see also under 'Finance')

Import trade control was first instituted in May 1940 for conserving the limited tonnage and the hard currency. In the post-war period, currency difficulties, the prospects of release of sterling balances and the Government's view on inflation were the guiding principles. In July 1950 following the recommendations of the Import Control Inquiry Committee, the Government decided that from the beginning of 1951 (*i*) commercial imports should be annually around Rs. 400 crores, (*ii*) the O.G.L. should cover basic raw materials in short supply and exclude commodities sufficiently available in the country at a reasonable price, (*iii*) the actual licensing should be decentralised and the period should be half-year, and that (*iv*) the order of priorities for imports should be (*a*) raw materials and spares for industries essential for the life of the community, (*b*) other raw materials and capital goods, (*c*) other essential goods and (*d*) non-essential goods.

In the second half of 1953 the policy underwent slight changes. The salient features were: (1) liberalisation of imports of machinery not indigenously manufactured, industrial raw materials such as art silk yarn and cotton yarn above 80s, and consumer goods like spices, fruits, breakfast foods, etc. and (2) simplification of the licensing procedure. Other measures included the introduction of free licensing for cotton stapling 1 1/16" and above from the soft currency countries and the extension to 1953-end of the validity of import licences already issued for U.S. cotton.

The emphasis of the policy shifted from reduced quotas to higher tariff values with a view to regulating imports to meet the more important needs. In pursuance of this objective, import duties were reduced on sugar from Rs. 14-14 to Rs. 7 per cwt., on copra from non-preferred sources from 25 per cent to 15 per cent *ad valorem* and from other sources from 15 per cent to 5 per cent *ad valorem*.

In pre-war years the Government's policy was to encourage exports. Immediately after the war, export control was relaxed, but the aggravation of inflationary pressures rendered its tightening in 1949. Following the devaluation of the rupee, export duties were put up on commodities for which India was at an advantage. Simultaneously, quality control was gradually introduced and a network of Trade Commissioners' offices was set up. Following the end of the Korean war boom and the fall in demand, the Government was obliged to reduce the export duties gradually. The process started early in 1952 and continued till the end of 1954.

The export policy for 1955 and 1956 was also liberal as there was a desire to safeguard the balance of payments position by encouraging exports, adopting a number of constructive measures. The Government continued to broaden the scope of bilateral trade pacts with a number of European countries. With Pakistan also, the trade pact was ratified.

Another constructive measure was the continued encouragement provided by Government for the establishment of Export Promotion Councils for providing stimulus to a number of individual commodities. Export Promotion Councils were set up for cotton textiles, silk and rayon textiles, and plastics in 1954 and for engineering products, pepper, cashew nuts, tobacco and shellac in 1955–56.

Trade delegations to promote India's exports, were sent to China, Africa and Middle East countries. The Government also lent its support to the Indian Industries Fair at New Delhi.

Important changes in 1955-56: (1) Export duty was reduced or abolished for a number of items like raw cotton, sesamum oil, jute manufactures, black pepper and coffee. (2) A number of commodities such as cotton textiles, groundnut oil cakes, cotton seed oil and chrome ore were placed on the free licensing list. (3) Additional quotas were granted for raw wool, certain varieties of short staple cotton, groundnut oil, groundnuts and tea.

IMPORT POLICY

The liberal import policy introduced from 1953 was continued in 1955 also. The important features of the policy for January-June 1955 were liberalisation in respect of several items, greater accommodation for small importers and wider scope for newcomers. Traders' demand to extend the basic period was met to a large extent. Monopoly imports in respect of raw silk, caustic soda, soda ash, etc., were, however, continued. The Government was anxious to maintain the policy of progressive and controlled liberalisation.

The policy during 1955–56 continued to be one of progressive but controlled liberalisation. Thus, in July–December 1955 import quotas of a few commodities like antimony ingots, drills and reamers, house service metres, textile preservaties, etc. were increased. At the same time, discrimination against dollar imports was relaxed in the case of 55 items and permission was granted to utilise a portion of the soft currency licences for imports from the dollar area. With a view to conserving foreign exchange resources, import quotas were reduced for items such as hack-saw blades, certain varieties of iron and steel chains, torch bulbs, certain chemicals, polishes and polishing compositions, etc. Eighteen new items were thrown open to actual

users, which included white metal, fabricated iron and steel road rollers, etc. The basic period was extended to include 1953–54 for 92 items. In January–June 1956, quotas were enhanced in the case of small tools like milling and gear-cutters, reamers, twist drills and carbide tipped drills while quotas for items such as buttons, pruning knives, textile preservatives, etc. reduced. The basic period for 135 items was extended to include 1954–55. Dollar imports were permitted in respect of milk foods, electrodes, diesel engines above 30 H.P., etc.

During the second half of 1956, import of ball-bearings, small tools and garage tools was further liberalised while increased quotas were provided for certain raw materials. The basic period was extended to 1954-55 for 168 items and to 1955-56 for another 58 items and provision in respect of certain items was made for newcomers to become established importers. Quotas were reduced for 73 items and 31 items were removed from the Liberal Licensing List.

A rapid depletion of foreign exchange reserves, brought about largely by heavy imports of machinery and iron and steel, made it necessary to adopt a more restrictive import policy for the first half of 1957. Quotas were cut down for 509 items which included a number of consumer goods, machinery and raw materials. The system of liberal licensing was withdrawn, so also the facilities provided to importers under the Export Promotion Scheme such as grant of special licences to exporters to replace the import content of their products, and concessions granted to holders of soft currency licence for utilisation, upto specified limits, of their licences for imports from hard currency countries were liberalised considerably.

A policy for the import of capital goods under deferred payment arrangements was also formulated in March 1957.

Export Promotion Councils were set up for two more industries, *viz.*, mica and leather and leather goods. Other measures to encourage exports included (1) extension of free licensing to all varieties of cotton piece-goods up to June 30, 1957, (2) abolition of export duty on coarse cloth and linseed oil, (3) modification, with effect from February 1, 1957, of the procedure for obtaining refund of excise duty on exports and (4) announcement of an export quota of one lakh tons for sugar. However, export of commodities in short supply or commodities considered to be essential for indigenous industries continued to be restricted.

An important development during the year was the establishment of the State Trading Corporation, a fully State-owned enterprise. Broadly speaking, this Corporation is intended to supplement and not to supplant existing commercial channels. The Corporation's business transactions, including contracts entered into with foreign countries, since its inception amounted to over Rs. 38 crores.

Another important step was the decision to set up a State-owned Export Risks Insurance Corporation to cover certain risks including those beyond the control of the exporter or the buyer abroad.

Towards the end of the year, the Government also set up an Export Promotion Committee to examine the problems relating to exports and suggest measures for licensing the export earnings of the country.

During the year, eleven existing trade agreements were renewed while seven new agreements were signed with Poland, Bulgaria, Pakistan, Burma, Viet Nam, Eastern Germany and Chile (See Trade Agreements in this article).

TRADE AGREEMENTS

India has trade agreements or trade arrangements with 25 countries in Asia, Africa, Europe and other parts of the world.

The countries are Afghanistan, Austria, Bulgaria, Burma, Ceylon, Chile, China, Czechoslovakia, Egypt, Finland, East and West Germany, Hungary, Indonesia, Iraq, Italy, Norway, Pakistan, Poland, Rumania, Sweden, the Soviet Union, North Vietnam and Yugoslavia and Japan.

Below we give the latest available position about the trade agreements which India has entered into with some countries. The information given within brackets relates to the dates on which the agreements were signed and the duration of the agreements respectively.

Austria.—(9th December 1952); (1st July 1952 to 30th June 1958). *Imports :* Woollen piecegoods, cotton threads, newsprint, rubber threads (permissible types), chemicals chiefly bichromates and chromic acid, admissible types of textile, agricultural and wood-working machinery and electrical apparatus, etc. *Exports :* Castor oil, coir, coir yarn, fibres for brushes and brooms, handicraft, manufactures of ivory, brass, horn and brocade, iron and manganese ores, linseed oil, mica, myrobalans, shellac, spices, kapok, cashewnuts, wallnuts, raw wool, pig bristles, cotton seed oil for industrial purposes, etc. and tanned leather, etc.

Bulgaria.—18th April 1956 (up to the end of 1959): *Imports :* Fruits and vegetables, chemicals, drugs and medicines, electrical instruments, machinery and equipment, diesel engines of 0-3 H.P. or above 30 H.P., films exposed, etc. *Exports :* Tea, spices, lac, essential oils, castor oil, raw wool, raw cotton, drugs and medicines, electric ware and cables, electric lamps, light, engineering goods including sewing machines and plastic goods.

Burma.—(5th September 1951); 4th Sept. 1961—(extension under consideration). *Imports :* Rice, dyeing and tanning substances, stick lac, gram and pulses, lead, teakwood, hardware and cutlery, hides and skins—raw, tobacco, machineries, tea, vehicles, wood and timber, metals and ores, handicrafts, cottage industry products, precious stones. *Exports :* Groundnut oil, fish, coal, cotton piecegoods, coir manufactures, cotton yarns, drugs and medicines, surgical instruments, books printed and printed matter, coffee, tea, spices, light engineering goods, cotton manufactures, jute manufactures.

On July 14, 1956 another agreement was signed. India would export to Burma cotton textiles worth about Rs. 185 lakhs, against payment by Burma in U.S. surplus cotton.

Ceylon.—(15th July 1953); (1st September 1953 to August 31, 1957).* *Imports :* Import of 2,500 candies Jaffna tobacco per annum would be permitted through Alleppey, at special rate of duty. *Exports :* Bidis and handloom towels.

Chile.—(16th October 1956); (up to 31st December 1959). *Imports :* Pulses, barley, fish and dried fruits, sulphur, Chilian nitrate, copper, lead, iron and steel, etc. *Exports:* Tea, cashew kernels, jams, spices, vegetable oils, drugs and medicines, mica, shellac, hides and skins tanned, cotton, woollen, silk and art silk, textiles, jute goods, films exposed, etc.

China.—(14th October 1954); (14th October 1954 to 31st Dec. 1958). *Imports :* Gypsum, graphite, orpiment, silk and silk piecegoods, hides and skins, wool raw, wool yarn and manufactures, paper and stationery, chemicals, oils, drugs and medicines, rice, soya beans, honey. *Exports :* spices (including chillies and pepper), tobacco unmanufactured, manganese ore, vegetable oils, essential oils, cotton raw, wool raw, sandalwood, hides and skins, mica, shellac, jute manufactures, cotton textiles, machinery and machine tools, mathematical and surgical instruments, light engineering goods, films exposed.

Czechoslovakia.—(30th Sept. 1957 to 31st Dec. 1960). *Imports :* Various types of machinery (such as complete industrial plants, welding machines and transformers, cigarette producing and textile machinery, industrial leather and rubber belting, industrial sewing machines, refrigerators, equipment for thermal and hydroelectric power stations and mining, machine tools, iron & steel wire netting, diesel locomotives, agricultural tractors and parts, newsprint, etc. *Exports :* Tea, spices, tobacco, cashewnut, vegetable oil, cotton raw and cotton waste, shellac, mica, manganese ore, crushed bones, raw wool, Indian handicrafts, cotton, rayon and woollen textile, cotton and rayon knitted goods, plastic goods, sports goods, carpets, coir products, hides and skins tanned etc.

Egypt.—(8th July 1953); (Effective from the date of signature and will remain in force till it is modified or terminated by either party on giving 3 months' notice). *Imports :* Raw cotton, cotton yarn, gypsum, rock phosphates, flax, dry dates, goat skins raw, essential oils, perfumes and essence of geranium, etc. *Exports :* Unmanufactured tobacco, jute goods, coal, oils and oilseeds, cotton and woollen piecegoods, iron and steel manufactures, certain types of machinery, Indian handicrafts, Indian films, etc.

Finland.—(12th January 1951); (1st January 1951 to 31st December 1957). *Imports :* Sawn and planed timber of coniferous, spices, newsprint, paper and paper products wallboards of wood fibre (soft and hard), tea chests, etc. *Exports :* Cashewnut, tobacco, spices, jute goods, tea, shellac, cotton waste, linseed oil, coir yarn and manufactures, mica, cotton, silk, rayon, textiles.

Germany, East.—(8th October 1956); (8th October 1956 to 7th October 1959). Electric, diesel and steam locomotives, machinery of various kinds (e.g. mining machinery, earth drillers, bakery and confectionery machinery, machinery for cigarette, oil, textile, chemical and pharmaceutical industries), electric furnaces and electric motors, wall tiles, fertilisers, raw film etc. *Exports :* Tea, coffee, tobacco, and tobacco manufactures, pepper, spices, fruit dried, essential oils, mica, hides and skins, cotton piece goods, jute yarn and manufactures.

Germany, West.—(31st March 1955); (1st April 1955 till terminated by either party giving three months' notice). According to this agreement, the two governments would facilitate trade between the two countries in all commodities permitted by the regulations in force from time to time. In regard to certain commodities, however, the imports of which into the Federal Republic of Germany are subject to quantitative restrictions, quotas have been provided for under the agreement as revised from time to time.

The commodities for which such quotas (some effective until September 30, 1957 and some until March 31, 1958) include : twine, ropes, cordage

* A new agreement was signed on Jan. 13, 1957. This would be valid till Aug. 31, 1961.

and cables of jute and false jute, finished cotton fabrics and furnishings and towellings, silk, art silk and woollen fabrics, cotton blankets, knitted carpets of textiles other than silk and wool, fine animal hair, carpets of jute and similar fabrics other than knitted, tanned and finished leather from hides and calf skins, finished leather from sheep and goat skins, pineapple juice, tropical fruits, roasted and salted groundnuts, cashew nuts, almonds and mixtures.

Hungary.—(17th June 1954); (17th June 1954 to 31st December 1959*). *Imports:* Hydro-turbines, electric motors, complete factory plants for canning industry, machinery for cable, metals, leather, textile and printing industries, transformers, electrometers, electric welding apparatus, machine tools, chemicals, pharmaceuticals, laboratory equipment, instruments for rubber goods, vegetable seeds, etc. *Exports:* Tea, coffee, jute goods, tobacco, spices, cashew-kernel, shellac, linseed oil, essential oils, iron ore, manganese ore, raw goat and sheep skins, coir and coir manufactures, cotton waste, silk rayon and woollen textiles, leather goods, toilet and washing soaps, sports goods and plastic manufactures, light engineering goods, handicrafts, mica, paints, lacquers, tapioca, etc.

Indonesia.—(30th January 1953); (30th Jan. 1953 to 30th June 1958). *Imports:* Copra, coconut oil, palm oils, essential oils, spices and betel-nuts, timber, tin, rubber, raw hides and skins, canes and rattans, gums and resin, sisal fibre, tobacco wrappers, palm kernels, fresh and dried fruits, tanning material, etc. *Exports:* Jute goods, tobacco, woollen piecegoods, cotton piecegoods, handloom goods, cotton yarn, vegetable oils, coal, cement, soap, paints & varnishes, pharmaceutical products, chemicals & chemical preparations, lac (including shellac), rubber tyre and tubes, machinery, motor bicycle, batteries and dry cells, machine tools, gums and resins, sisal fibre, tobacco wrappers, electrical equipment, sports goods, household utensils, sewing machines, fans, hardware, tea-chests, shellac, porcelain ware, paper and paper board, sugar cane crushers.

Iraq.—(6th May 1953); (6th May 1953 to 31st December 1957). *Imports:* Horses, mules, dates, barley, millets, pulses, rice, wheat and other foodgrains including beans, etc., galnuts, hides and skins (light weight). *Exports:* Fruits fresh including mangoes and bananas, fruits preserved and tinned, and fruit juice, spices, tea, wood and timber, plywood, coir and coir manufactures, cotton manufactures, cotton piecegoods, raw cotton, jute manufactures, leather manufactures, tiles, cottage industry products, handloom products, chemicals, drugs, medicines, electrical goods.

Italy.—(29th July 1954); (29th July 1954 to 31st December 1958). *Imports:* Dairy products, dried fruits, cotton yarn, cotton fabrics, wool raw, hand knitting wool, raw silk, artificial silk, vehicles and parts thereof, stationery, drugs and medicines, certain types of machinery, railway rolling stock, railway and tramway axles, wheels, etc., dyeing, bleaching and mercerising machinery and parts, bakeries, confectioneries, etc., book binding, air-conditioning, textile machinery, films exposed, etc, *Exports:* Tea, tobacco, spices, jute goods, cigarette and cigars, coal, lac and shellac, hides and skins, essential oils, oilseeds, cotton raw, wool raw, coir yarn and coir manufactures, certain types of wood and timber, etc.

Norway.—(24th June 1955); (1st January 1955 to 31st December 1956). *Imports:* Mechanical and chemical pulp, fatty alcohols, newsprint, galvanised and black steel pipes, hydraulic brake fluids, testing machines, welding equipment, marine type diesel engines, machine tools, medicinal and industrial cod liver oil, fishing vessels (permissible types), vitamin concentrates, wood-working machinery. *Exports:* Tobacco, jute goods, tea, shellac, coir products, hydrogenated oils, mica, iron and manganese ore, woollen carpets, tanned hides and skins, cotton textiles, light engineering goods and plastic manufactures, coffee, linseed and castor oils.

Pakistan.—(22nd January, 1957); (1st February, 1957 to 31st January 1960). *Imports:* Raw jute, hides and skins, fish, poultry and egg, betel-nuts, spices, honey, cinema films, machine tools, bicycles and spare parts, surgical instruments and sports goods. *Exports:* Chemicals, drugs and medicines, mill board and straw-board, machinery and mill work, workshop equipment, electrical instruments, sugar, tea for blending, coffee, betel leaves, bidis and hooka tobacco and bidi leaves.

Poland.—(3rd April 1956); (1st April 1956 to 31st Dec. 1959). *Imports:* Textiles, mining and drilling machinery, iron and steel structures including bridges and towers, complete plant and equipment for sugar factories, alcohol distilleries, etc., railway locomotives, wagons and carriages, industrial materials (like carbon black active, bone glue and lactic casein), cement, etc. *Exports.* Iron ore, manganese ore, mica, shellac, myrobalan, tea, coffee, spices, hides and skins, cotton textiles, raw cotton, raw wool, wool waste, jute goods, plastic goods, hardware, boots and shoes, soap and toilet products, jams, chutnies, pickles, fruit squashes and sauces, cashew shell oil, handicrafts, cottage industry products.

Roumania.—(23rd March 1954); (23rd March 1954 to 30th June 1958). *Imports:* Food grains (wheat and rye), petroleum products, chemicals, timber, wooden products, cement, machine tools for metal, textile machinery, mustard, certain types of electric goods, handicrafts and cottage industry products, wood-working machinery, railway products. *Exports:* Iron ore, tea, coffee raw, spices, including pepper, vegetable oils (linseed, castor, etc.), essential oils, shellac, mica, hides and skins, raw cotton, wool waste, wool raw, jute yarn and jute manufactures, chemicals, fish oils, myrobalans and extracts, etc.

Sweden.—(31st May 1955); (1st January 1955 to 31st December 1957). *Imports:* Condensed milk, cement, wood, tar, hides and skins raw, waste paper, rayon silk, glassware, newsprint, iron and steel, hinges, bolts and nuts, cutlery, diesel engines and spare parts, printing presses, certain types of machinery, motor cycles, staple fibre, ferro alloys, stainless steel, etc. *Exports:* Cotton textiles, silk fabrics, rayon fabrics, jute goods, shawls, sarees, coir and coir products, cotton waste, certain types of oils, hydrogenated oil, spices including pepper, chillies, ginger, turmeric, cardamoms, pickles, chutneys, condiments, tea, coffee, tobacco, shellac, manganese ore and magnesite, cashew kernels, raw cotton, etc.

U.S.S.R.—(2nd December 1953); (2nd December 1958). *Imports:* Foodgrains (wheat and barley), dyestuffs, chemicals, iron, and steel manufactures, paper of different kinds including newsprint, printed matters including books and periodicals, agricultural tractors, crude petroleum, machine tools, aluminium, rough emeralds, woollen fabrics, machinery (boring and mining, road building equipment, heavy electrical plant and equipment), zinc, ammonium sulphate. *Exports:* Raw wool, tobacco unmanufactured, spices, black pepper, cardamoms and others, shellac, goat skins tanned, hides and skins tanned, Indian handicrafts and cottage industry products, cinematographic films (exposed), jute manufactures, mica, fruit and vegetables, vegetable oils, cashew nuts, hydrogenated oil, foot-wear, raw coffee, tea, coir products, dyeing and tanning substances, woollen carpets, woollen hosiery fabrics.

Viet-Nam.—(22nd September 1956); (up to 31st Dec. 1959). *Import:* Rice, maize, timber, wood, oil, saffron, cement, limestone, handicrafts, etc. *Exports:* Engineering goods (*e.g.* diesel engines, pumps, sewing machines), kerosene stoves, confectionery, tea, coffee, spices, hydrogenated oil, cotton and jute textiles, electrical fittings, scientific instruments of all types, etc.

Yugoslavia.—(March 31, 1956): (1st April 1956 to 31st December 1959). *Imports:* Dyeing and tanning substances, iron and steel products, rolling stock, wagons, rails, metal products, steam boilers, diesel and steam locomotives, tractors, electrical apparatus, etc. *Exports:* Iron ore, manganese ore, mica, shellac, tea, coffee, tobacco, spices, cotton textiles, raw cotton, raw wool, jute goods, handicrafts and cottage industry products, etc.

Afghanistan: According to the exchange of letters on June 14, 1957 between the Governments of India and Afghanistan, imports of dry and fresh fruits and asafoetida from Afghanistan into India would be facilitated within a prescribed ceiling. The list of commodities for export from India include green and black tea, spices, sugar, bidi and tobacco manufactures, cotton textiles, jute goods, woollen and art silk manufactures, leather and leather goods including foot-wear, films, machinery, building materials, chemicals, rubber goods, bicycles, motor cycles, paper and stationery, aluminium goods, iron and steel products, etc.

EXPORT PROMOTION MEASURES

There is an Export Risks Insurance Corporation as well as the Export Promotion Directorate to help exporters in their task.

The Export Risks Insurance Corporation has made a good start and during the brief period of its existence has received 86 proposals covering an export of almost Rs. 23 crores.

In June 1957 a Directorate of Export Promotion was created in the Ministry of Commerce and Industry simultaneously with the constitution of the Foreign Trade Board. The Directorate co-ordinates export promotion activities and maintains close liaison with the various Export Promotion Councils. Specific targets of commodity-wise exports have been drawn up by this Directorate and steps are being taken to help the trade to reach the planned targets.

Various incentives have been provided for exporters in the form of draw-back of import duties, rebates of excise duty, replenishment quota of raw materials used in articles meant for export etc., with a view to bringing down the cost of production of these items and enabling the exporter to offer them at competitive prices in the markets abroad. Quality control schemes, both on compulsory and voluntary basis, have also been instituted.

With the assistance of the Railway Board and the Ministry of Transport, arrangements have been made to move goods meant for export on a priority basis both by land and in a few cases by sea. A system of registration of exporters has been instituted by which registered exporters are eligible for certain special benefit and issue of licences on a priority basis.

*The original agreement which ended in Dec. 1957 was extended by another two years. It was arranged that payment would be made in rupees.

Note: A trade agreement was signed with Japan on Feb. 4, 1958. This would be valid for two years, and will continue in force thereafter subject to three months notice.

EXPORTS AND IMPORTS

JANUARY 1 TO JUNE 30, 1957

Below we give the value of exports and imports of specific articles for the half year January 1 to June 30, 1957.

Only such articles have been chosen as have a value of more than Rs. 5,00,000. The quantity was not available at the time this article was prepared.

We have had to give the particulars for April 1 to December 31, 1956 and for January 1 to June 31, 1957 separately because, the whole basis of classification of items has changed from 1st January 1957.*

EXPORTS

Article	Value
	Rs.
Sheep and lambs	5,66,121
Meat extracts and preparations of meat *NES* including natural sausage casings	22,80,829
Eggs	11,48,527
Fish, salted, dried or smoked, but not further prepared	1,27,20,237
Crustacea and molluscs fresh, chilled, frozen, salted, dried or simply cooked	1,05,19,309
Melons, pineapples, figs, berries, olives	12,82,197
Edible nuts including fresh coconuts other than nuts chiefly used for the extracting of oil	7,00,66,500
Dried fruits including artificially dehydrated	12,42,478
Beans, peas, lentils and other legumes, pulses dry including split dry pulses used as animal food.	18,18,772
Vegetables chiefly for human food *NES* including sweet potatoes and vegetables frozen or in temporary preservative	84,07,680
Vegetables preserved or prepared except dehydrated in airtight containers including soups and vegetable juices	13,32,247
Flour and flakes of potatoes, fruits and vegetables including sago, tapioca and all other starches prepared for use as food	7,15,561
Beet sugar and cane sugar refined	6,90,18,979
Molasses inedible	7,15,949
Other sugars and syrups *NES*, *e.g.* lactose, maltose, glucose, maple sugar and maple syrup, invert sugars, levulose, artificial honey caramel.	34,93,255
Coffee not roasted	4,51,87,117
Tea	49,35,87,014
Pepper and pimento whether unground, ground or otherwise prepared	2,40,06,169
Spices except pepper and pimento whether unground, ground or otherwise prepared	2,70,61,323
Oilseed-cake and meal and other vegetable oil residues	55,97,980
Tobacco unmanufactured including tobacco and tobacco stems	8,35,97,908
Tobacco manufactured for human consumption, smoking, chewing and snuff	60,50,795
Sheepskins and lambskins except astrakhan caracul Persian lamb broadtail undressed	7,59,710
Goatskins and kidskins undressed	3,63,64,950
Hides and skins undressed *NES*	9,59,986
Oilseeds, oilnuts and oil kernel *NES*	5,91,206
Sawlogs and veneer logs nonconifer hardwood	85,40,628
Unreelable cocoons and cocoon wastes, frisons silk thread waste and silk noils	12,09,264
Sheep's and lambs' wool greasy or back washed	6,25,38,881
Sheep's and lambs' wool scoured whether or not bleached or dyed	9,23,723
Horse hair and other coarse hair	61,86,211
Wool or fine hair carded or combed including tops	9,40,918
Raw cotton other than linters	11,56,17,184
Cotton mill waste, devilled cotton waste and cotton shoddy not further manufactured	2,89,14,460
Jute including jute cuttings and waste	9,07,091
Hemp and hemp tow and waste and channabis sativa and crotalaria juncea	1,20,49,071
Vegetable textile fibres *NES* and waste of such fibres	57,79,222
Synthetic fibres in staple lengths suitable for spinning and waste	5,05,484
Waste materials from textile fabrics including rags	53,66,885
Natural fertilizers of animal or vegetable origin not chemically treated	18,79,293
Salt including salt put up for retail sale	44,79,821
Mica uncut or unmanufactured in sheets or blocks, films and splittings, scrap mica unground or ground	4,53,33,172
Minerals crude including ice *NES*	95,45,965
Iron ore and concentrates except pyrites not roasted	6,08,98,421
Iron and steel scrap	1,84,47,316
Zinc ore and concentrates	20,42,182
Manganese ore and concentrates	16,60,78,151
Chromium ore and concentrates	19,31,583
Base metal ores and concentrates *NES*	1,52,06,172
Non-ferrous metal scrap	11,39,844
Bones, Ivory horns, hoops, claws and similar products	17,91,18,698
Materials of animal origin *NES* intestine, stomach, bristles, hair, bird skins, feathers, sponges, fish-eggs, not for food ; dead animals, etc.	79,18,930
Plants and parts of plants for use in dyeing and tanning, whether ground or not	84,73,280
Natural gums, resins, balsam and lacs	4,72,63,623
Vegetable materials for plaiting, *e.g.* for baskets and plaited rugs including bamboo	9,83,195
Plants, seeds, flowers and parts of plants *NES* mainly for use in medicine or perfumery	95,51,893
Vegetable saps, juices and extracts *NES* except dyeing and tanning extracts and vegetable materials including pectin and kapok	1,13,35,615
Coal anthracite bituminous sub-bituminous lignite	2,45,87,752
Coke of coal and of lignite	25,16,104
Motor spirit, gasoline and other light oils for similar uses including gasoline blending agents	1,11,20,212
Gas oil, diesel oil and other fuel oils	21,98,255
Mineral jelly and waxes including petrolatum	1,01,83,390
Linseed oil, crude, refined or purified	1,12,64,461
Cottonseed oil, crude, refined or purified	85,21,718
Castor oil, crude, refined or purified	4,45,63,287
Oils from seeds, nuts and kernels *NES*	45,42,208
Oils oxidised, blown or boiled	18,08,158
Hydrogenated oils and fats	56,73,416
Waxes of animal or vegetable origin	8,88,162
Glycerine	18,48,169
Tanning extracts except synthetic tanning materials	10,82,362
Medicinal and pharmaceutical products *NES*	34,44,298
Essential vegetable oils	1,13,90,061
Perfumery cosmetics dentifrices and other toilet preparations except soaps	10,24,151
Starches, starchy substances, dextrins, gluten and gluten flour inedibles	10,28,943
Leather	11,24,96,682
Plywood including wood faced with veneer sheets	12,42,936
Cigarette paper	33,92,825
Cotton yarn and thread grey unbleached	74,56,863
Cotton yarn and thread bleached, dyed, coloured or mercerized	33,84,531
Yarn of textile fibres mixed with metal	7,03,425
Yarn of textile fibres *NES* including paper yarn	3,17,06,067
Cotton fabrics grey unbleached	18,29,47,200
Cotton fabrics other than grey bleached, dyed, mercerized, printed or otherwise finished	18,33,91,903
Silk fabrics	7,15,295
Fabrics of jute	28,98,52,142
Fabrics of synthetic fibres and spun glass	25,89,980
Fabrics of textile fibres mixed with metal	5,38,449
Knitted fabrics, piece-goods of all textile fibres	17,50,565
Tulle lace and lace fabrics of all fibres including net and netting	8,72,569
Ribbons other than of silk and of synthetic fibres, trimmings, tapes and bindings of all fibres except elastic	43,12,018
Cordage, cables, ropes, twines and manufactures thereof, fishing nets, rope makers wares	58,49,486
Bags and sacks for packing, new or used	24,57,55,705
Blankets, travelling rugs and coverlets of all materials	96,25,195
Tarpaulins, tents, awnings, sails and other made-up canvas goods	20,32,609
Bed linen, table linen, toilet linen and kitchen linen	1,39,56,067
Carpets, carpeting floor-rugs, mats, matting and tapestries of wool and fine hair excluding artware	1,99,45,936

* See note on p.191.

EXPORTS—*Contd.*

Article	Value
	Rs.
Carpets, carpeting floor-rugs, mats, matting and tapestries of textile fibres other than wool and fine hair	90,30,572
Carpets, carpeting floor-rugs, mats, mattings of vegetable plaiting materials including coconut matting *NES*	1,41,59,654
Cement	21,86,261
Bricks, tiles, pipes and other products of brick-earth or of ordinary baked clay	23,83,964
Manufactures of mica, built up mica, products and articles made from sheet mica and built up mica	55,36,245
Silver unworked and partly worked	9,63,33,610
Precious and semi-precious stones including synthetic cut but not set	16,84,813
Jewellery of gold, silver and platinum group metals and goldsmiths and silversmiths ware including set gems except watchcase other than artware	87,31,513
Household utensils of iron and steel enamelled or not	16,05,698
Household utensils of aluminium	6,00,003
Household utensils of base metals except iron, steel and aluminium	13,03,443
Table and kitchen knives, forks and spoons of base metals including plated	5,69,143
Hardware of metal locks, padlocks, safety bolts, keys, fittings for doors, etc.	10,80,295
Metal containers for transport and storage including empty tin cans	7,43,116
Manufactures of metals *NES*	8,96,685
Internal combustion diesel and semi-diesel engines other than aircraft engines	5,25,230
Printing and book-binding machinery including printing plates etc. except photographic apparatus	2,07,767
Textile machinery and accessories including bobbins, spools and similar articles	6,63,076
Machinery and appliances other than electrical *NES*	23,83,067
Electric batteries accumulators	7,45,239
Radio apparatus for telegraphy, telephony, television and radar including broadcasting transmission and reception equipment, etc.	5,37,815
Portable electrical tools and appliances including domestic appliances	8,83,987
Bodies, chassis, frames and other parts for road, motor vehicles, except parts for motor cycles and side-cars	5,68,671
Parts of aircraft heavier than air not including rubber tyres, engines and electric parts	18,14,396
Lighting fixtures of all materials, gaslight and electric light, fixtures and fittings and parts thereof, lamps and lanterns	5,00,909
Furniture and fixtures of wood excluding artware	12,12,590
Metal furniture and fixtures including metal office cabinets	5,72,225
Travel goods, trunk, suit cases travelling bags, dressing cases, shopping bags, haversacks, packs and similar articles of all materials	20,94,979
Hand bags, wallets, purses, pocket-books and similar articles of all materials	10,08,619
Outerware knit or made of knitted fabrics	13,46,600
Outerware other than knitted	17,89,447
Clothing *NES* handkerchiefs, arm-bands, ties, scarves, shawls, collar corsets, suspenders and similar articles	19,22,585
Slippers and house footwear of all materials except rubber	14,83,092
Footwear wholly or mainly of leather not including slippers and house footwear	1,07,52,277
Footwear wholly or chiefly of textile materials not including slippers and house footwear	22,24,098
Cinematographic films exposed whether developed or not	49,58,799
Phonograph gramophone records	7,39,832
Books and pamphlets printed	29,69,749
Newspapers and periodicals	5,57,202
Printed matter on paper or cardboard *NES*	34,32,060
Candles, tapers and articles of inflammable materials *NES*, *e.g.* Solidified alcohol, sulphured wicks	14,54,403
Works of art and articles for collections	64,24,622
Postal packages not classified according to kind	12,70,591
Live animals not for food *NES*	46,95,414
Transactions, personal effects of travellers and immigrants samples and articles temporarily imported or exported and other special cases	1,53,61,955
Total value of exports	311,61,25,676

IMPORTS

The period covered below is from January 1 to June 30, 1957.

Only such items have been chosen as the value of whose imports is more than Rs. 5,00,000.

Article	Value
	Rs.
Poultry	7,90,854
Milk and cream including butter-milk, skim-milk and whey evaporated or condensed in liquid or semi-solid form	57,46,782
Milk and cream including butter-milk, skim-milk and whey, dry in solid form such as blocks and powder	3,00,75,780
Butter, fresh whether salted or not including melted	12,21,721
Cheese and curd	12,22,690
Eggs in the shell	43,19,863
Dairy products *NES* ice-cream, ice-cream powder, malted milk compounds and mixtures dehydrated products, etc.	1,37,40,557
Fish—fresh, chilled or frozen	1,14,20,345
Fish—salted, dried or smoked, but not further prepared	7,89,179
Fish, fish products and fish preparations in air-tight containers including crustacea and molluscs	7,10,897
Wheat and spelt including meslin unmilled	3,22,15,146
Rice not in the husk including polished and broken rice	5,60,04,498
Maize corn unmilled	1,05,49,459
Cereals flaked, pearled or prepared in a manner not elsewhere specified, prepared breakfast food	15,88,067
Bakery products—breads, biscuits, cakes, etc.	5,73,174
Apples	20,93,485
Other fresh fruits *NES* namely melons, pine-apples, figs, berries, olives	41,07,783
Edible nuts, including fresh coconuts other than nuts chiefly used for extracting of oils	7,97,26,541
Dried fruits including artificially dehydrated	1,95,08,984
Vegetables chiefly for human food *NES* including sweet potatoes and vegetables frozen or in temporary preservative	8,13,708
Beet sugar and cane sugar refined	76,33,915
Other sugars and syrups *NES e.g.* lactose, maltose, glucose, maple sugar and maple syrup, invert sugars, levulose, artificial honey caramel	9,83,484
Cocoa beans	5,18,276
Tea	14,08,441
Pepper and pimento whether unground, ground or otherwise prepared	9,43,398
Spices except pepper and pimento whether unground, ground or otherwise prepared	1,35,98,038
Food preparations *NES*	36,40,028
Wine including grape must	5,27,413
Beer including ale, stout porter and other fermented cereal beverages	15,78,219
Distilled alcoholic beverages	38,64,928
Tobacco unmanufactured including scrap tobacco and tobacco stems	68,71,275
Cigarettes	7,79,483
Hides of cattle including buffalo and hides of horses, mules and asses undressed	44,48,482
Sheep-skins and lamb-skins except astrakhan caracul Persian lamb broadtail undressed	19,46,789
Goatskins and kidskins undressed	10,68,050
Copra	6,09,84,602
Natural rubber and similar natural gums	1,39,20,579
Synthetic rubber and rubber substitutes	43,29,881
Reclaimed rubber	9,07,425
Sawlogs and veneer logs conifer soft wood	5,55,790
Sawlogs and veneer logs non-conifer hard wood	42,63,243
Lumber sawn, planed, grooved, tongued, etc. non-conifer	77,12,841
Paper waste and old paper	44,52,756
Mechanical wood pulp	26,24,116
Chemical wood pump sulphite	98,86,867
Chemical wood pulp other than sulphite	66,59,689
Raw silk not thrown in hanks or in skeins	43,92,366
Sheep's and lambs' wool greasy or back washed	71,23,124
Sheep's and lambs' wool scoured whether or not bleached or dyed	39,17,291
Wool or fine hair carded or combed including tops	5,32,34,120
Waste of wool and of other animal hair	17,59,824
Raw cotton other than linters	31,73,05,678
Jute including jute cuttings and waste	2,90,48,580
Flax and flax tow and waste	5,72,334
Sisal and other fibres of the agave family	18,18,127
Manila fibre and musa textiles and Manila tow and waste	8,85,912

IMPORTS—*Contd.*

Article	Value
	Rs.
Vegetable textile fibres *NES* and waste of such fibres	19,31,710
Synthetic fibres in staple lengths suitable for spinning, and waste	1,58,98,220
Natural sodium nitrate	24,27,326
Natural phosphates ground or unground	95,53,875
Natural asphalt	11,06,863
Clay including chamotte and dinas earths	9,67,905
Sulphur	1,64,30,945
Natural abrasives including industrial diamonds	15,15,233
Building and monumental dimension stone not worked	6,67,952
Asbestos—crude, washed, or ground	1,64,51,456
Feldspar, fluorspar, cryolite and chiolite	14,40,262
Minerals—crude including ice	9,27,531
Iron and steel scrap	42,16,188
Manganese ore and concentrates	5,28,341
Non-ferrous metal scrap	1,09,84,474
Bones, ivory, horns, hoops, claws and similar products	27,38,831
Plants and parts of plants for use in dyeing and tanning whether ground or not	29,78,320
Natural gums, resins, balsam and lacs	78,26,203
Vegetable materials for plaiting, *e.g.* for baskets and plated rugs including bamboo	6,85,775
Vegetable saps, juices and extracts *NES* except dyeing and tanning extracts, and vegetable materials including pectin algae and kapok *NES*	6,45,242
Petroleum crude and partly refined for further refining including natural gasoline	12,20,10,996
Motor spirit gasoline and other light oils for similar uses including gasoline blending agents	2,44,22,895
Lamp oil and white spirit kerosine illuminating oil	10,00,12,254
Gas oil, diesel oil and other fuel oils	18,08,25,517
Lubricating oils and greases including mixtures with animal and vegetable lubricants	5,79,12,690
Mineral jelly and waxes including petroleum	18,78,706
Pitch resin petroleum asphalt coke of petroleum and other byproducts of coal lignite petroleum and oil shale *NES* not chemicals	93,08,990
Animal oil, fats and greases excluding lard	34,98,931
Palm oil, crude refined or purified	1,05,98,283
Coconut copra oil	1,69,24,976
Tung oil, crude refined or purified	5,44,369
Inorganic acids and anhydrides, *e.g.* nitric, sulphuric, hydrochloric acids	18,44,441
Copper sulphate	17,24,835
Sodium hydroxide or caustic soda	2,40,51,537
„ carbonate or soda ash	1,23,64,922
Inorganic compounds and chemical elements *NES*	4,70,87,115
Aliphatic and other organic acids and anhydrides namely acetic acid	59,67,973
Alcohols *NES*	50,29,782
Organic compounds *NES* including complex function alcohols and acids	5,24,36,166
Coal-tar dyestuffs and natural indigo including artificial colour lakes	6,08,32,724
Dyeing extracts vegetable and animal except indigo	8,07,542
Tanning extracts except synthetic tanning materials	35,83,958
Colouring materials including distempers other than of coaltar origin	74,07,260
Prepared paints, enamels, lacquers, varnishes, artists colours, seccatives, paint driers and mastics	12,82,076
Vitamins and vitamin preparations	1,41,82,143
Bacteriological products sera vaccines	9,91,079
Penicillin streptomycin, tyrocidine and other antibiotics	2,27,51,053
Opium alkaloids, cocaine, caffein, quinine and other alkaloids, salts and their derivatives	16,46,697
Medicinal and pharmaceutical products *NES*	4,20,84,742
Essential vegetable oils	38,55,488
Synthetic perfume and flavour materials and concentrates and enfleurage greases and mixtures of alcohol and essential oils	34,87,076
Perfumery, cosmetics, dentifrices and other toilet preparations except soaps	50,50,307
Soaps and cleansing preparations	5,85,020
Wax, polish, paste, powder and similar preparations for polish and preserving leather, wood, metal, glass or other materials	8,05,886
Nitrogenous fertilizers and nitrogenous fertilizer materials other than natural *NES*	67,89,658
Phosphatic fertilizers and materials other than natural including superphosphate and basic dephosphorization slag	9,10,133
Potassic fertilizers and potassic fertilizer materials except crude potash salts	50,56,839
Propellent powder prepared explosive and hunting or sporting ammunitions	99,93,194
Fuses, primers and detonators	40,63,226
Pyrotechnical articles	5,13,958
Synthetic plastic materials in blocks, sheets, rods, tubes, powder and other primary forms	3,07,87,316
Insecticides, fungicides, disinfectants including sheep and cattle dressing and similar preparations	18,17,220
Casein albumen gelatine glue and dressings	23,31,208
Chemical materials and products *NES*	1,04,22,931
Leather	6,21,308
Machine leather belting and other articles of leather for machinery	43,28,585
Rubber fabricated materials, *e.g.* pastes, plates, sheets, rods, threads, tubes of rubber	9,12,767
Rubber tyres and tubes for vehicles and aircraft	1,37,70,526
Hygienic medical and surgical articles of rubber not including tubes	5,00,767
Manufactures of soft and hard rubber *NES*	17,37,427
Fibreboards not paperboards	19,92,227
Manufactures of wood *NES*	9,52,089
Agglomerated cork materials	8,67,266
Articles made of natural or agglomerated cork *NES*	20,99,083
Newsprint papers	2,48,52,056
Printing and writing papers in rolls and sheets othher than newsprint	1,44,48,878
Common packing and wrapping paper	1,32,40,818
Paperboard, cardboard including corrugated cardboard but not including building board	33,96,138
Paper and paperboard coated impregnated, vulcanized, etc. other than bituminized or asphalted	47,63,932
Paper and paperboard *NES*	22,63,481
Articles of pulp of paper and of paperboard *NES* including cigarette paper cut to size for cigarettes	22,34,973
Thrown silk and other silk-yarn and thread including schappe and bourette	5,62,697
Yarn of wool and hair	40,89,934
Cotton yarn and thread grey unbleached not mercerized	1,07,71,615
Cotton yarn and thread bleached, dyed, coloured or mercerized	63,80,890
Yarn and thread of synthetic fibres and spun glass	8,08,02,525
Cotton fabrics other than grey bleached, dyed, mercerized, printed or otherwise finished	1,39,13,683
Silk fabrics	9,00,080
Woollen and worsted fabrics including fabrics of fine hair	62,14,078
Fabrics of synthetic fibres and spurn glass	56,39,790
Tulle lace and lace fabrics of all fibres including net and netting	9,64,162
Felt and felt articles except hats and hoods for hats, hat bodies	11,28,323
Rubberized and other impregnated fabrics and felts except linoleums	19,11,235
Cordage, cables, ropes, twines and manufactures thereof : fishing nets, ropemakers-wares	6,70,219
Special products of textile materials and of related materials *NES*	22,04,543
Blankets, travelling rugs and coverlets of all materials	7,34,067
Made up articles of textile	5,44,860
Cement	1,35,48,237
Building materials of asbestos, cement and of unfired non-metallic minerals *NES*	31,53,440
Refractory bricks and other refractory construction materials	1,46,81,390
Grinding and polishing wheels and stone	11,10,447
Abrasive clothes and paper and similar articles	8,94,781
Manufactures of asbestos not including building materials	37,16,258
Carbon and graphite products except crucibles including lighting carbons, electrode carbon, brushes and brush stock and battery carbons	42,16,769
Refractory products other than refractory construction materials, *e.g.* retorts, crucibles, muffles nozzles, plugs, etc.	15,50,677
Glass in the mass including broken and powdered glass and glass rods and tubings	10,16,387

IMPORTS—*Contd.*

Article	Value
	Rs.
Sheet window glass unworked	18,28,535
Rolled, obscured or wired reinforced glass not otherwise worked	10,06,088
Laminated and other safety glass	5,02,734
Sheet and plate glass, tinned, silvered or coated with platinum not further worked	11,73,747
Articles made of glass *NES*	29,25,997
Precious and semi-precious stones including synthetic uncut	20,63,465
Natural and cultured pearls unworked	29,17,881
" " " worked but not set	6,01,329
Jewellery of gold, silver and platinum group metals and gold and silversmiths ware including set gems except watchcase other than artware	6,12,300
Pig iron and sponge iron including iron and steel powder	88,89,020
Ferro alloys	5,07,819
Ingots, blooms, slabs, billets, sheets, bars and tin plate bars and equivalent primary forms	9,11,85,405
Joists, girders, angles, shapes, sections, bars and concrete re-inforcements rounds including tube rounds and squares	25,80,06,287
Universals plates and sheets uncoated	16,17,63,149
Hoop and strip including tube strip and steel strip for springs coated or not	1,61,79,822
Plates and sheets coated	12,21,92,624
Railway track construction accessories to rails	2,25,39,472
Wire rods wire coated or not	3,79,54,687
Steel tubes and fittings welded or drawn	3,62,21,227
Pipes and fittings cast whether grey iron or malleable iron	1,24,88,457
Castings and forgings unworked *NES*	90,82,905
Copper and alloys not refined and refined unwrought	8,08,63,875
Copper and alloys of copper, worked bars, rods, plates, sheets, wire, pipes, tubes, castings and forgings	1,46,22,781
Nickel and nickel alloys unwrought	15,80,368
Nickel and nickel alloys, worked bars, rods, plates, sheets, wire, pipes, tubes, castings and forgings	18,53,883
Aluminium and aluminium alloys unwrought	67,67,601
Aluminium and aluminium alloys, worked bars, rods, plates, sheets, wire, pipes, tubes, castings and forgings	3,10,02,497
Lead and lead alloys unwrought	1,10,53,715
Lead and lead alloys, worked bars, rods, plates, sheets, wire, pipes, tubes, castings and forgings	7,04,604
Zinc and zinc alloys unwrought	2,86,30,317
Zinc and zinc alloys worked, bars, rods, plates, wire, tubes, castings and forgings	23,42,511
Tin and tin alloys including tin solder unwrought	2,40,99,793
Tin and tin alloys, worked bars, rods, sheets, wire, pipes, tubes, castings and forgings	50,56,622
Non-ferrous base metals employed in metallurgy and their alloys *NES* unwrought	6,75,559
Non-ferrous base metals employed in metallurgy and their alloys *NES* worked bars, rods, etc.	21,70,717
Fire-arms of war including tanks and self-propelled guns except revolvers and pistols, but including continuous fire pistols	74,36,393
Fire-arms other than fire-arms of war; but including revolvers and pistols, side-arms	12,68,785
Finished structural parts made of iron or steel including assembled structures	1,93,70,234
Wire, cables, ropes, plaited bands, slings and similar articles of iron and steel uninsulated	84,38,617
Wire, cables, ropes, plaited bands, slings and similar articles of non-ferrous base metals uninsulated	1 24,08,517
Wire, netting wire, fencing wire, grills wire, mesh and expanded metal of iron and steel including barbed wire and wire cloth	28,73,000
Nails, bolts, nuts, washers, rivets, screws and similar articles of all base-metals	1,46,56,674
Needles and pins of all base-metals, *e.g.* hair-pins, crochet hooks, and knitting needles	15,30,302
Hand tools including sets of hand-tools for machines and hand implements including agricultural	2,38,98,671
Cutlery *NES*	38,79,626
Hardware of hotel locks, padlocks, safety bolts, keys, fittings for doors, etc.	44,18,077
Metal containers for transport and storage including empty tin cans	59,68,013
Stoves, furnaces, not for central heating, grates and ranges made of metal, not electric	20,43,606
Manufactures of metals *NES*	1,49,11,924
Steam generating boilers	3,68,05,053
Boiler house plant including economisers, superheaters, condensers, soot removers, gas recovers and related items	79,83,000
Steam engines including steam tractors and steam engines with self-contained boiler known as locomobile and turbines	77,95,643
Aircraft engines including jet propulsion engines	1,27,74,798
Internal combustion diesel and semi-diesel engines other than aircraft engines	5,41,45,556
Engines *NES*, *e.g.* wind engines, hot air engines, waterwheels and water turbines, gas turbines	6,81,585
Agricultural machinery and appliances for preparing and cultivating the soil	12,61,991
Agricultural machinery and appliances *NES*	5,26,671
Tractors other than steam	2,77,03,313
Typewriters	63,85,966
Accounting, book-keeping, calculating and other office machines including cash registers and dictaphones	80,09,174
Machine tools for working metals, *e.g.* boring, drilling, milling, planning, grinding and gear cutting machinery	4,99,43,994
Metal working machinery other than machine tools, *e.g.* rolling mills, forging wire, drawing, bending, etc. machinery and foundry equipment	3,37,20,801
Pumps for liquids	1,69,02,647
Industrial trucks known as industrial tractors for use in factories, railroad, stations, docks, etc. for internal transport	94,86,909
Conveying, hoisting, excavating, road construction and mining machinery, *e.g.* crane hoist stacks, well-drilling machinery and road rollers	10,96,53,377
Wood-working machinery	34,74,502
Pneumatic tools operated by hand or otherwise	28,82,588
Paper mill and pulp mill machinery and machinery for paper manufactures	1,85,50,619
Printing and book-binding machinery including printing plates, etc. except photographic apparatus	1,03,29,785
Textile machinery and accessories including bobbins, spools and similar articles	14,41,99,241
Sewing machine—industrial and household	55,31,296
Air-conditioning and refrigerating equipment excluding mechanical refrigerators	1,54,18,420
Machinery and appliances other than electrical *NES*	19,85,73,603
Ball needle or roller bearings and parts	1,62,83,099
Machine parts and accessories except electrical not assignable to a particular class of machinery	86,26,896
Electric generators and alternators, motors and converters, transformers and switch gear	11,58,76,595
Electric batteries and accumulators	27,45,911
Bulbs, arc lamps and tubes for electric lighting complete	46,66,115
Radio apparatus for telegraphy, telephony, television and radar including broadcasting transmission and reception equipment, etc.	1,42,41,339
Apparatus other than radio for telegraphy and telephony	35,62,523
Electrothermic apparatus including domestic appliances	1,32,54,806
Electric appliances for motor vehicles, aircraft, ships, cycles and explosion motors	87,36,017
Apparatus for measuring and controlling electric energy, electric signalling and safety apparatus and electric bells	1,32,19,131
Electric apparatus for medical purposes and radiological apparatus excluding tools and instruments actuated by electric motors	23,46,295
Portable electric tools and appliances including domestic appliances	43,23,731
Insulated cables and wire for electricity	5,42,26,576
Electrical machinery apparatus and appliances *NES* and parts or accessories not assignable to a particular class or electric machinery	3,67,13,403
Railway locomotives, steam and tenders if shipped separately	7,84,27,424
Railway locomotives, internal combustion and all other except steam and electric	33,78,280
Railway and tramway passenger cars, coaches without power equipment including all cars, coaches of passenger service	12,11,441
Railway and tramway freight and maintenance cars without power equipment	1,79,51,067

IMPORTS—*Contd.*

Article	Value
	Rs.
Parts of railway rolling stock except electric parts, internal combustion engines and parts not assignable to specific classes	3,70,32,660
Passenger road motor vehicles complete other than buses or motor-cycles	2,35,08,827
Motor-cycles complete, including all types of motorized cycles and side-cars complete	60,56,878
Buses, trucks, lorries and road motor vehicles complete *NES*	6,69,69,607
Chassis with engines mounted on vehicles	1,39,70,922
Bodies, chassis frames and other parts for road motor vehicles except parts for motor cycles and side-cars	7,92,18,393
Motor-cycles and side-car parts not including rubber tyres, engines and electric parts	39,27,010
Bicycles and other cycles not motorized	73,09,852
Parts of bicycles and other cycles not motorized not including tyres and electric parts	1,04,33,952
Road vehicles including trailers *NES* and parts not including rubber tyres	11,83,718
Aircraft heavier than air complete whether assembled or not	5,78,758
Parts of aircraft heavier than air not including rubber tyres, engines and electric parts	1,06,28,357
Ships and boats of gross tonnage exceeding 250 not including combat vessels	5,63,257
Central heating apparatus, furnaces for central heating boilers, radiators, conduits and parts	18,34,979
Sinks, washbasin, bidets, baths and other sanitary and plumbing fixtures and fittings of ceramic and other material except metal	19,51,186
Sinks, washbasin, bidets, baths and other sanitary and plumbing fixtures and fittings of metal whether enamelled or not	8,37,766
Lighting fixtures of all materials, gas light and electric light fixtures and fittings and parts thereof, lamps and lanterns	89,79,686
Optical instruments and appliances and parts thereof except photographic and cinematographic including electron microscopes	40,11,477
Photographic and cinematographic apparatus and appliances	91,39,405
Surgical, medical, dental instruments and appliances except electrical, but including those merely activated by electrical motor	26,49,617
Measuring, controlling and scientific instruments *NES*	1,57,73,112
Films other than cinematographic plates and paper for photography	89,53,968
Cinematographic films, exposed whether developed or not	20,55,783
Watches, watchmovements, cases and other parts of watches including marine chronometers and instrument panel clocks	1,86,65,238
Clocks, clockmovements	30,19,841
Phonographs, gramophones, including record players	22,91,242
Musical instruments *NES*	7,58,966
Books and pamphlets printed	51,77,566
Printed matter on paper or cardboard *NES*	17,83,005
Umbrellas, parasols, walking sticks and similar articles	25,26,126
Buttons and studs of all materials except of precious metals and precious stones	13,05,587
Mechanical electric gas or other types refrigerators self-contained	22,97,318
Articles made of plastic *NES*	11,51,138
Brooms and brushes of all materials	9,45,770
Sports goods not including arms and ammunitions	5,30,876
Toys and games including baby carriages, playing cards other than artware	12,97,977
Fountain pens, propelling pencils, penholders and pencil holders of all materials	12,59,160
Office supplies not paper *NES*	39,71,488
Works of art and articles for collections	7,82,331
Manufactured articles *NES*	56,91,014
Postal packages not classified according to kind	1,37,47,586
Horses, asses and mules	7,08,749
Special transactions, personal effects of travellers and immigrants, samples and articles temporarily imported or exported and other special cases	1,61,63,354
Total value of imports	497,70,65,618

Note : NES : Not elsewhere specified.

LIST OF IMPORTED COMMODITIES 1st April to 31st December 1956.

Below we give a list of commodities imported into India with the exact quantity and value for the period 1st April to 31st December 1956.

To maintain a sense of continuity we should cover the twelve-month period 1st April 1956 to 31st March 1957. But it is not possible to cover this period in a single table because the classification of commodities from January 1957 has been changed, and the matching of the old and new trade classifications is not possible in all cases. Also, these statistics are now compiled on a calendar year basis and not on a fiscal year basis as previously.

We are therefore constrained to break up the figures into two sets of tables. The first set covers the period 1st January to 31st June 1957 and gives figures for only a few major categories. See pages 186-190.

	Quantity	Value
		Rs.
Animals :		
Horses IV A	119 nos.	8,01,430
Other kinds (IVB)	38,064 ,,	1,50,307
Apparel	—	15,87,929
Gold and Silver thread	—	2,23,061
Hats, caps, bonnets & hatters ware	—	2,09,680
Second hand clothing	—	14,60,001
Arms & Ammunition :		
Shot-gun cartridges (filled)	3,634,980 nos.	8,72,950
Rifle & other cartridges (filled)	7,006,725 ,,	9,93,418
Explosives	—	1,37,06,200
Fire-arms	19,151 nos.	27,68,357
Parts of fire-arms	—	4,033
Gun-powder	103,740 lbs.	1,56,560
Other sorts	—	4,91,883
Total of Arms, Ammunition, etc.	—	1,90,04,491
Asbestos (raw)	2,51,669 cwts.	1,55,80,678
Asbestos (manufactures)	—	79,74,907
Belting for machinery	—	70,37,527
Bobbins	—	9,14,065
Books and printed matter	27,181 cwts.	93,97,264
Boots and Shoes	14,173 pairs	49,005
Bristles and Fibre	300 cwts.	2,62,754
Brushes and Brooms	139,700 dozs.	9,23,199
Building Material :		
Asphalt	99,983 tons	2,24,88,706
Fire-bricks	1,251,038 nos.	40,90,668
Cement (Portland)	74,123 tons	85,71,654
Cement (other kinds)	3,844 ,,	16,10,557
Tiles	2,372,032 nos.	5,41,303
Other kinds	119,946 cwts.	30,94,283
Total building materials value	—	4,04,50,258
Buttons	412,690 gross	11,68,881
Canes and Rattans	13,373 cwts	10,33,366
Chemicals (excluding Manures, Medicines)		
Acetic acid	26,898 cwts.	24,87,244
Carbolic acid	9,356 ,,	9,30,631
Citric acid	5,926 ,,	8,40,048
Formic acid	3,934 ,,	2,33,222
Nitric acid	15 ,,	5,730
Oxalic	2,910 ,,	2,15,663
Sulphuric acid	7 ,,	1,054
Tartaric	3,908 ,,	5,64,062
Other sorts	45,821 ,,	60,02,411
Total for all acids	98,835 ,,	1,12,80,965
Aluminous sulphate	4,871 ,,	66,186
Ammonia and Salts thereof :		
Anhydrous ammonia	1,288 ,,	2,18,070
Carbonate and bi-carbonate of ammonia	23,837 ,,	8,28,038
Muriate of ammonia	10,985 ,,	5,43,874
Others	4,782 ,,	3,09,324
Arsenic and its oxides	5,313 ,,	1,96,100
Bleaching materials — calcium hypochlorate, chloride of lime	55,833 ,,	20,05,997
Other sorts	4,486 ,,	5,98,963
Calcium carbide	83,130 ,,	24,01,877
Calcium carbonate	27,705 ,,	6,59,893
,, chloride	1,926 ,,	35,610
Others	6,234 ,,	5,37,438
Copper sulphate	18,502 ,,	9,06,326
Disinfectants (other than Naphthalene)	7,351 ,,	13,89,086
Naphthalene	5,133 ,,	7,79,930
Glucose	3,358,307 lbs.	13,21,297
Lead compounds (other than acetate & litharge)	10,692 cwts.	22,10,396
Magnesium compounds (other than chloride and sulphate)	19,544 ,,	7,59,521
Phosphorus, all kinds	4,442 ,,	10,45,659
Potassium chlorate	14,329 ,,	7,50,809
Potassium compounds (other than bichromate, chlorate, cyanide, saltpetre)	54,336 ,,	29,61,851
Sodium bicarbonate	88,947 ,,	20,39,425
Borax	64,644 ,,	18,76,206
Sodium carbonate	1,435,678 ,,	1,59,71,559
Sodium cyanide	4,970 ,,	4,38,586
Caustic soda	1,514,274 ,,	4,34,10,219
Sodium hydrosulphate	70,557 ,,	83,85,051
Sodium sulphide	20,317 ,,	7,52,853
Others	46,919 cwts.	32,65,062
Sulphur	1,289,551 ,,	1,70,10,056
Zinc compounds (other than chloride)	956 ,,	2,41,720
Other sorts of chemicals	—	6,20,11,995
Total of chemicals	—	18,74,48,620
China clay	153,533 cwts.	12,70,323
Clocks and Watches :		
Clocks and Time-pieces	817,832 nos.	65,15,483
Watches	853,093 ,,	2,34,93,911
Parts of clocks and watches	—	7,85,259
Total of Clocks and Watches	—	3,07,93,653
Coke	982 tons	2,77,997
Coral	10,269 lbs.	4,20,389
Cordage and rope	1,416 cwts.	1,95,577
Cork manufactures	15,672 ,,	28,68,788
Cutlery :		
Safety razors	55,706 doz.	7,65,265
Razor blades	364,309 gross	30,48,409
Others	14,514 doz.	3,16,934
Cutlery of other kinds	—	12,82,941
Total of Cutlery	—	54,21,741
Drugs and Medicines		
Chloromycetin	—	18,49,458
Streptomycin and its preparations	—	86,05,757
Other antibiotic products	—	88,25,632
Asafœtida	4,408 cwts.	8,23,975
Camphor	2,053,067 lbs.	36,12,433
Cod liver oil	92,123 ,,	1,06,378
Glandular products	—	1,40,681
Liver extracts	—	2,28,539
Paludrine	—	4,57,826
Penicillin and its products	—	1,38,62,215
Proprietary & Patent Medicines.	—	2,74,50,192
Quinine salts	5,610 lbs.	1,46,321
Saccharine	37,056 ,,	4,50,646
Sulpha drugs	—	90,03,562
Vitamins and vitamin preparations	—	1,73,27,090
Other sorts of drugs and medicines	—	2,76,87,051
Total of drugs and medicines	—	12,06,60,616
Dyeing and Tanning Substances		
Tanning barks	104,164 cwts.	29,56,840
Dyeing and tanning (Cutch and gambier)	17,116 ,,	21,31,683
Alizarine—dry	40,005 lbs.	1,87,483
Alizarine—moist	126,323 ,,	3,60,475
Congo red	53,293 ,,	1,78,555
Naphthols (dyes)	1,123,714 ,,	74,12,216
Bases	1,515,492 ,,	86,34,383
Indigo	357,240 ,,	20,31,417
Carbozole blue (vats)	30,547 ,,	3,95,712
Paste (vats)	371,286 ,,	40,65,307
Powder (vats)	1,060.014 ,,	3,79,78,851
Sulphur (black)	512,887 ,,	12,93,253
Metanil, yellow	45,226 ,,	1,03,118
Rhodamines (carthamines)	15,494 ,,	1,78,262
Aniline Salts	240,360 ,,	2,24,624
Others	2,767,013 ,,	3,01,37,283
Saffron	11,388 ,,	15,96,091
Wattle extracts	116,019 cwts.	58,76,562
Other sorts (including lac-dye)	70,280 ,,	18,93,389
Total of dyes and tanning substances	—	10,76,38,820
Earthenware and porcelain :		
Sanitary-ware	—	26,59,677
Other kinds	—	8,60,155
Porcelain (other than electrical)	—	5,35,143
Total of Earthenware and Porcelain	—	40,53,975
Electroplated ware	—	1,46,933
Fireworks	135,802 lbs.	3,08,931
Fish :		
Fish, dry, unsalted	16,033 cwts.	2,82,152
Fish, salted	9,944 ,,	2,14,950
Fish, wet, salted	5,087 ,,	2,38,719
Other sorts of fish	3,242 ,,	2,45,678
Total of fish	34,308 ,,	9,82,537
Fodder, bran and pollards	9,670 ,,	1,24,232

Fruits and Vegetables

	Quantity.	Value.
		Rs.
Coconuts	5,52,266 nos.	47,687
Other fresh fruit	—	30,96,452
Total of fresh fruit and vegetables	—	31,48,159
Almonds	5,802 tons	1,37,75,986
Cashewnuts	21,509 ,,	1,88,03,101
Currants and raisins	2,254 ,,	34,70,088
Dates	41,687 ,,	1,62,91,118
Other sorts of dried, preserved fruits	1,550 ,,	42,78,788
Total of all fruits and vegetables	—	5,97,67,240
Furniture and cabinetware	—	5,89,323
Gelatine	4,431 cwts.	7,72,823

Glass and Glassware

Beads and false pearls	2,113 cwts.	14,70,074
Bottles and phials	33,940 gross.	5,71,215
Funnels, globes, glass parts of lamps	—	2,36,903
Scientific glassware	—	6,48,965
Sheet glass	8,578,534 sq. ft.	36,36,202
Plate glass	665,478 ,,	17,93,013
Tableware	—	3,97,433
Thermoflask in which the inside container is of glass	184,824 nos.	7,92,162
Other glass and glassware	—	34,07,017
Total of glass and glassware	—	1,30,12,984
Glue	2,261 cwts.	2,45,509

Grain, Pulse, Flour

Pulses	11,253 tons	43,61,258
Rice not in husk	11,675 ,,	70,79,909
Wheat	1,250 ,,	3,52,185
Wheat flour	64 ,,	51,983
Other sorts	3,889 ,,	12,29,098
Total of grain, pulse and flour	28,170 ,,	1,30,82,453
Graphite crucibles	7,933 cwts.	8,59,525
Gums and resins :		
Arabic	78,364 cwts.	51,71,238
Benjamin	3,124 ,,	8,06,984
Dammer (resins)	34,225 ,,	12,73,264
Other sorts	25,820 ,,	37,01,399
Total	141,605 ,,	1,09,58,833
Hair and manufacture of hair	—	62,325

Hardware (excluding Cutlery, Electroplated Ware)

Agricultural implements	—	47,12,177
Builders' hardware	—	9,39,192
Other sorts	—	16,02,525
Enamelled ironware	—	4,00,383
Hinges	72,508 gross.	10,76,874
Grub hose (other than mamooties)	—	2,67,44,907
Lamps, metal, oil pressure	10,936 nos.	1,83,567
Lamps, metal, other kinds	1,00,620 ,,	5,73,463
Parts of lamps, other than glass	—	9,07,391
Stoves	50,558 ,,	6,55,021
Parts of Stoves	—	6,68,931
Zip fasteners	—	3,62,485
Other sorts (of hardware)	—	2,02,15,667
Total of hardware (excluding cutlery and electroplated ware)	—	5,90,62,156
Hides and skins, raw	37,826 cwts.	43,31,285
Hops	534 ,,	1,16,581

Instruments, Apparatus, Appliances

	Quantity.	Value.
		Rs.
Electrical fans and parts	—	19,63,786
Bare copper conductors	11,997 cwts.	29,62,319
Plain aluminium conductors and A. C. S. R.	32,013 ,,	52,81,705
Rubber insulated cables	42,973,073 ft.	1,00,82,673
Rubber insulated cables, wires and flexibles not elsewhere specified	24,963,766 ,,	42,36,019
Plastic insulated cables, wires and flexibles	15,282,458 ,,	11,46,360
Paper insulated cables	19,717,937 ,,	2,64,44,386
Telephone cables	221,048 ,,	83,018
Resistance wires	45,541 lbs.	2,77,372
Winding wires	1,433,732 ,,	36,38,371
Cables and wires not otherwise specified	—	1,77,17,131
Total of Electric wires and cables	—	7,18,69,354
Telegraph and telephone instruments and apparatus	—	61,87,893
Electric lamps and parts	507,321 nos.	1,83,338
Electric bulbs for torches	18,450,214 ,,	14,16,162
Fluorescent lamps	239,765 ,,	5,61,230
Electric lamps, other sorts	6,383,769 ,,	27,23,962
Parts and accessories of lamps	—	2,84,538
Flashlights or torches and parts thereof	4,219,740 ,,	37,73,092
Batteries for flashlights and others	—	47,52,960
Carbons, electric	—	39,88,970
Accumulators with parts	—	62,07,959
Condensers, electric	—	8,04,503
Electric bell apparatus	—	1,11,579
Electric lighting accessories and fittings (including Switches)	—	49,13,574
Electrical instruments—Meters	—	1,23,58,103
Other electrical meters (including telegraphic and telephonic)	—	33,19,903
Electro-medical apparatus	—	43,49,971
Switchboards, (other than telegraph and telephone)	—	47,078
Electric porcelain ware	—	3,40,651
Electrical goods and apparatus not enumerated	—	2,39,23,803
Total of Electrical, etc.	—	15,41,82,674
Musical instruments	—	24,23,743
Optical and ophthalmic	—	46,95,059
Photographic-Cinema :		
Projecting apparatus, and parts	—	40,74,210
Sound recording apparatus, parts and accessories	—	11,41,126
Cinematograph raw films	193,525,345 ft.	1,45,28,324
Cinematograph exposed films	11,585,271 ,,	30,20,407
All others	—	2,20,12,824
Total of photographic films	—	4,47,76,891
Scientific instruments	—	68,07,604
Surgical instruments	—	71,85,953
Wireless apparatus		
Receivers	4,243 nos.	11,87,033
Valves	1,201,233 ,,	25,44,279
Component parts & others	—	1,43,04,934
Total of wireless apparatus	—	1,80,36,246
Other kinds of instruments	—	2,47,47,992
Total of instruments, apparatus	—	26,28,56,162
Ivory (manufactured & unmanufactured)	—	33,15,077
Jewellery	—	7,28,787
Lac stick and seed, etc.	25,412 cwts.	26,07,544
Leather	—	28,96,666

Liquors

Ale and beer in bottle	593,276 gals.	32,68,921
Stout and Porter	10,432 ,,	77,204
Total of ale, beer and porter	603,708 ,,	33,46,125
Cider and other fermented liquors	11,914 ,,	87,714
Brandy	37,265 ,,	15,66,925
Gin	9,655 ,,	2,31,067
Liqueurs	3,064 ,,	1,15,501
Whisky	144,181 ,,	48,04,401
Drugs, medicines, etc. containing spirit	134,139 ,,	75,54,647
Spirit (perfumed, denatured & others)	362,509 ,,	1,54,67,457
Wines	30,963 ,,	9,04,745
Total of liquors	1,009,094 ,,	1,96,06,041

Machinery And Millwork

	Quantity.	Value. Rs.
Prime-movers (other than electrical) :		
Locomotives (including those for railways) :		
Oil engines	61 no.	28,45,188
Parts of oil engines	—	14,88,889
Steam engines	108 ,,	60,34,171
Parts of steam engines	—	80,75,421
Railway locomotive engines, tenders, and parts	—	97,98,270
Others	—	45,78,150
Other than Locomotive :		
Parts of gas engines	—	41,779
Oil engines for marine purposes	183 ,,	15,05,823
Others oil Engines	927 ,,	82,50,135
Total of oil engines	1,110 ,,	97,55,958
Parts of oil engines	—	1,76,71,469
Steam engines	3 ,,	76,998
Parts of steam engines	—	5,45,988
Others	—	18,44,539
Total of prime-movers	—	6,27,36,770
Electrical machinery :		
Control and switchgear	—	6,55,33,159
Generators, alternators & dynamos	—	2,86,70,727
Motors	—	1,43,82,305
Transformers	—	1,46,97,865
Turbo-generating sets	—	83,63,288
Others	—	5,48,66,919
Total of electrical machinery	—	18,65,14,263
Machinery (other than prime-movers or electrical) :		
Aerated water-making machinery	—	2,16,694
Agricultural tractors and parts	—	5,09,11,243
Ploughs and parts	—	7,66,495
Other sorts	—	17,06,445
Air compressors	—	1,15,75,193
Boilers	—	3,92,20,741
Boot and shoe manufacturing machinery	—	6,78,120
Earthmoving and shifting machinery	—	2,83,04,816
Excavating machinery	—	17,69,569
Leather tanning and curing machinery	—	2,67,299
Metal working machinery including machine tools	—	5,88,10,589
Mining machinery (Coal and others)	—	1,80,65,325
Oil crushing and refining machinery	—	2,75,40,614
Paper and paperboard mill machinery	—	1,87,87,497
Pumping machinery	—	2,10,12,351
Refrigerating machinery	—	1,18,18,099
Rice and flour mill machinery	—	28,64,127
Saw-mill and wood-working machinery	—	19,64,291
Sewing machines	24,285 nos.	41,16,270
Knitting machines	781 ,,	10,13,948
Parts of sewing and knitting machines	—	23,53,757
Total of sewing and knitting machines and parts thereof	—	74,83,975
Sugar manufacturing and refining machinery	—	8,05,44,735
Tea machinery	—	84,15,411
Cotton textile machinery :		
(a) Bleaching and dyeing	—	12,98,787
(b) Printing	—	19,56,384
(c) Spinning	—	6,49,58,435
(d) Weaving	—	80,16,449
(e) Other sorts	—	3,14,70,975
Total of cotton machinery	—	10,77,01,030
Jute Machinery	—	4,18,74,658
Shuttles (excluding those for sewing machines)	—	9,87,570
Staple fibre machinery	—	47,12,184
Wool machinery	—	19,84,216
Other sorts	—	4,27,02,410
Total of Textile machinery	—	19,99,13,018
Typewriters	22,964 nos.	80,71,367
Parts of typewriters and accessories	—	9,17,276
Ball bearings	—	48,56,567
Steel balls	—	6,89,579
Other sorts of machinery	—	23,34,38,825
Total of all machinery and millwork	—	113,95,79,314

Manures (excluding oil-cakes)

	Quantity.	Value. Rs.
Nitrate of soda	16 tons.	2,340
Ammonium sulphate	71,096 ,,	2,21,75,990
Urea and others	2,591 ,,	13,41,437
Potassic Muriate of potash and others	14,290 ,,	43,49,502
Phosphatic	40,603 ,,	1,843
Total of manures	128,599 ,,	3,22,26,885

Matches

Safety matches	21 gross of boxes	564
Other sorts	451 ,, ,,	9,044
Total	472 ,, ,,	9,608

Metals and Ores

Aluminium (unwrought)	32,735 cwts.	46,48,934
Aluminium (wrought)	19,093 ,,	21,25,161
Aluminium (sheets)	11,084 ,,	23,71,817
Aluminium (tubes)	887 ,,	3,29,886
Aluminium (other manufactures)	1,52,246 ,,	2,97,72,375
Total of aluminium	216,045 ,,	3,92,48,173
Brass, bronze and similar alloys :		
Unwrought	4,871 ,,	6,41,516
Rods	8,540 ,,	16,63,416
Sheets	508 ,,	1,61,540
Tubes	4,535 ,,	12,96,460
Wires	1,389 ,,	3,06,582
Screws	401 ,,	1,73,306
Other sorts	49,107 ,,	97,50,142
Total of Brass, etc.	69,351 ,,	1,40,52,962
Copper :		
Old copper for remanufacture	8,651 ,,	17,52,249
Unwrought	499,715 ,,	11,65,14,538
Wrought	11,437 ,,	39,40,983
Total (excluding ore)	519,803 ,,	12,22,07,770
Ferro alloys	530 tons.	9,80,585
German silver	16,173 cwts.	32,00,364
Iron ore	584 tons.	1,25,588
Pig Iron	47,420 ,,	1,61,30,401
Iron manufactures	48,529 ,,	1,70,45,809
Steel :		
Angle and tee	92,556 tons.	6,09,32,052
Spring	97 ,,	1,21,354
Bars (other than cast steel)	319,970 ,,	22,11,64,926
Cast steel	2,937 ,,	58,87,203
Ingots, blooms, billets etc.	95,886 ,,	5,46,29,153
Total of steel	511,446 ,,	34,27,34,688
Iron or steel :		
Anchors and cables	444 ,,	6,96,490
Beams, channels, etc.	119,092 ,,	7,16,66,894
Bolts and nuts	2,123 ,,	41,42,895
Fencing materials	2,877 ,,	27,02,903
Hoops and strips	14,814 ,,	1,55,75,141
Nails, rivets and washers	6,168 ,,	87,45,801
Old for remanufacture	13,866 ,,	71,11,184
Pipes and fittings	32,719 ,,	2,09,66,859
Rails, chairs and fish plates	82,502 ,,	5,03,41,913
Screws	606 ,,	13,47,913
Sheets and plates galvanised	82,796 ,,	8,09,43,693
Tin plates	37,793 ,,	3,35,28,381
Sheets and plates not galvanised	212,063 ,,	13,64,97,419
Total of sheets and plates	332,653 ,,	30,80,22,493
Sleepers and keys for railway	13,731 ,,	80,97,649
Tubes, pipes and fittings	38,587 ,,	5,04,68,267
Wire nails	6,184 ,,	42,31,497
Wire ropes (black & galvanised)	4,478 ,,	32,60,519
Wire other than fencing	48,396 ,,	4,87,17,693
Other manufacture of iron or steel	21,507 ,,	2,59,20,068
Total of iron and steel	740,736 ,,	68,14,50,201

Metals and Ores—(*Contd.*)

—	Quantity.	Value
		Rs.
Lead (unwrought) ore	467 tons	2,38,023
Lead (pig)	249,738 cwts.	2,08,05,901
Lead (other sorts)	8,229 ,,	6,59,290
Lead (wrought)	7,524 ,,	5,78,678
Total of lead (excluding ore)	265,487 ,,	2,20,43,869
Mercury or quicksilver	172,944 lbs.	25,94,844
Nickel	5,858 cwts.	18,33,520
Solder	10 ,,	6,428
Tin (unwrought)	59,379 ,,	3,08,05,587
Tin (wrought)	33 ,,	5,528
Total of tin	59,412 ,,	3,08,11,115
Zinc or Spelter:		
Zinc or spelter (unwrought)	561,266 ,,	3,86,69,209
Zinc (wrought)	27,741 ,,	59,93,348
Zinc (other sorts)	8,707 ,,	8,67,465
Total of zinc or spelter	597,714 ,,	4,55,30,022
Metals (unenumerated)	12,081 ,,	56,85,677
Ores (unenumerated)	8,825 tons.	35,91,974
Total of metals	1,389,464 ,,	127,94,35,145
Total of ores	9,876 ,,	39,55,585
Mica (blocks and splittings)	109 cwts.	83,265

Oils

Animal oils, fish or whale (hardened)	1,381 cwts.	1,03,376
Animal oil, fish or whale (others)	17,520 gals.	1,54,917
Essential, Synthetic	29,819 ,,	32,51,887
Natural oils	49,549 ,,	52,37,442
Total of essential oils	79,368 ,,	84,89,329
Mineral oils — Petroleum crude or partly refined including natural Gasoline	772,579,479 ,,	23,03,40,479
Petroleum refined (kerosine)	219,536,223 ,,	17,54,85,162
Fuel oils	66,092,767 ,,	4,55,24,667
Total of lubricating oils	40,536,597 ,,	6,92,96,375
Motor spirit	28,571,599 ,,	3,97,50,921
Total of petroleum, etc.	28,571,613 ,,	3,97,52,146
Paints, solutions (dangerous)	2,975	40,805
White oil	13,080 ,,	51,243
Mineral oil (other kinds)	14,527,487 ,,	2,14,32,097
Total of mineral oils	1,142,460,221 ,,	58,19,52,974
Mineral grease including petroleum jelly	7,125,056 lbs.	45,19,731
Vegetable oils (non-essential):		
Coconut oils	3,585,396 gals.	2,07,56,865
Other sorts of oil (including linseed)	3,325,808 ,,	1,72,88,247
Total of oils	—	63,32,65,439
Oilcloth and floor cloth	48,084 sq. yds.	93,453
Packing, engine and boiler of all kinds excluding asbestos	—	5,61,178

Paints and Painters' Materials

Barytes	572 cwts.	13,176
Blue pigments	27,121 ,,	19,16,646
Red-lead	8,956 ,,	3,26,862
White lead	86 ,,	9,253
Lithophone	6,012 ,,	2,08,559
Zinc, white	71 ,,	7,979
Other sorts, white dry	21,978 ,,	7,22,698
Coloured dry	130,832 ,,	1,11,25,509
White moist	196 ,,	25,774
Coloured moist	2,889 ,,	8,39,014
Total of paints and colours	196,713 ,,	1,51,95,470
Paints & Painters' materials	—	46,77,460
Total of paints and painters' materials	—	1,98,72,930

Paper and Pasteboard

—	Quantity.	Value.
		Rs.
Paper:		
Packing and wrapping paper	296,781 cwts.	2,61,68,096
Printing Paper	1,111,616 ,,	5,47,10,811
Writing paper and envelopes	79,638 ,,	72,85,445
Blotting paper	1,629 ,,	2,22,346
Old newspapers in bales and bags	372,780 ,,	60,90,888
Other kinds	68,882 ,,	80,50,281
Paper manufactures	7,605 ,,	12,93,451
Total of paper	1,938,931 ,,	10,38,21,318
Pasteboard, millboard and cardboard of all kinds	67,319 ,,	40,70,512
Total of paper and pasteboard	2,006,250 ,,	10,78,91,830
Paper making materials:		
Pulp of wood	353,628 ,,	1,83,66,519
Rags and other materials	12,278 ,,	1,01,246
Paraffin wax	28 tons.	35,657
Perfumery (not being perfumed spirit)	—	9,67,868
Pitch and tar	6,024 cwts.	1,77,010
Plants living including bulbs and seeds for sewing	—	29,58,426

Plastics

Plastic material	—	3,54,90,024
Polishes and compositions	—	17,43,825
Precious stones and pearls (unset):		
Diamonds	—	27,84,711
Others	—	7,98,280
Pearls (real and culture)	—	50,61,137
Total	—	86,44,128

Printing and Lithographing Machinery and Materials

Printing and lithographing presses	—	1,11,24,947
Printing type	249 cwts.	4,43,537
Printers' and Lithographers' ink	—	6,34,670
Other materials	—	66,32,988
Total of Printing		1,88,36,142
Prints, engravings and pictures		2,48,859

Provisions and Oilmen's Stores

Bacon and hams	981 cwts.	3,12,971
Biscuits and cakes	1,865 ,,	5,04,004
Butter (including canned)	11,233 ,,	37,70,981
Canned and bottled provisions:		
Canned or bottled fruit	3,037 ,,	2,80,403
Tinned or canned fish	5,010 ,,	7,33,097
Vegetable products	108 ,,	12,453
Others	24,285 ,,	30,05,263
Total of canned and bottled	32,440 ,,	40,31,216
Cheese (including canned)	9,031 ,,	20,58,200
Cocoa and chocolate	797 ,,	1,72,880
Confectionery	854 ,,	2,80,964
Farinaceous and patent foods:		
Farinaceous food in bulk	55,607 ,,	57,49,848
Milk foods	52,933 ,,	1,44,28,931
Other sorts	28,667 ,,	74,66,538
Total of farinaceous and patent foods	137,207 ,,	2,76,45,317

Provisions and Oilman's Stores—(*Contd.*)

—	Quantity	Value
		Rs.
Ghee	32,746 cwts.	1,16,48,781
Isinglass	100 „	75,955
Jams and jellies	2,999 „	3,58,335
Milk (evaporated or condensed) whole including milk cream	70,947 „	72,30,505
Milk (evaporated or condensed) skimmed or separated	6,768 „	4,32,067
Milk (dried or powder) whole	30,603 „	40,64,493
Milk (dried or powder) skimmed	549,442 „	3,91,82,545
Total of milk, condensed and preserved	657,760 „	5,09,09,610
Pickles, chutnies, sauces and condiments	1,716 „	2,81,894
Vinegar (excluding bottled)	153 gals.	2,371
Other sorts of provisions	69,173 cwts.	70,70,205
Total of provisions and oilman's stores	—	10,90,75,600
Rubber raw	21,661,198 lbs.	2,75,72,228
Rubber (pneumatic) motor covers	71,828 nos.	1,33,45,492
Rubber (pneumatic) motor tubes	19,446 „	3,52,030
Pneumatic motor cycle covers	2,116 „	2,17,909
„ „ „ tubes	1,448 „	12,501
„ cycle covers	739,604 „	35,04,554
„ „ tubes	213,249 „	4,15,819
Rubber solid tyres for motor vehicles	4,596 „	6,49,744
Other rubber manufactures (except apparel, boots and shoes)	—	16,27,824
Total of rubber manufactures	—	2,01,25,873
Salt	13 tons	5,200

Seeds

Oilseeds (essential)	602 tons	36,962
Oilseeds (non-essential) copra	69,191 „	6,54,96,644
Other sorts (non-essential)	650 „	45,280
Total of non-essential seeds	69,841 „	6,55,39,924
Other than oilseeds and seeds for sowing	1,244 „	14,98,777
Total of seeds	71,687 „	6,70,75,663
Shells and cowries	11,282 cwts.	3,06,157
Smokers' requisites (excluding tobacco)	—	6,09,234
Soap	4,791 „	4,61,727

Spices

Betel nuts	645,996 cwts.	4,56,91,939
Cassia	81,572 „	36,40,692
Cloves	55,627 „	1,30,17,356
Ginger	38 „	4,567
Nutmegs	4,190 „	12,79,720
Pepper	5,527 „	6,48,210
Other sorts	9,018 „	10,74,388
Total of spices	835,268 „	6,53,56,872
Starch, dextrine and farina	8,531 cwts.	2,08,119

Stationery

Pencils:		
Black lead	567,061 dos.	6,51,659
Coloured	130,666 „	1,49,205
Copying	229,967 „	2,91,280
Total of pencils	927,724 „	10,92,144
Fountain Pens	44,263 nos.	4,54,797
Fountain pen parts (excluding nibs)	—	2,90,375
Total of fountain pens	—	7,45,172

Stationery—(*Contd.*)

—	Quantity	Value
		Rs.
Ink other than printers' or lithographers':		
Fountain pen ink	—	75,598
Others	—	1,03,642
Total of ink	—	1,79,240
Other sorts of stationery	—	49,13,270
Total of stationery excluding paper	—	69,29,326
Stone and marble	2,247 tons	7,53,076
Sugar	4,267 tons.	21,15,335
Tallow and stearine	83,538 cwts.	48,49,335
Other animal fats and grease	1,020 „	74,446
Total tallow and stearine	84,764 „	49,40,151
Tea	325,448 lbs.	6,95,178
Total of Tea-chests of wood	182,548 nos.	6,63,721
Telephone material for construction (other than electrical)	—	50,840

Textiles

Cotton raw	72,525 tons.	35,25,45,406
Cotton twist and yarn:		
Grey unbleached above no. 50	2,509,928 lbs.	1,66,59,509
Grey unbleached nos. 1 to 20	74,352 „	4,08,142
Two-folds (doubles)—nos. 51 to 80	148,176 „	11,23,825
Two-folds (doubles)—above no. 80	71,478 „	5,69,681
Total of two-folds (doubles)	219,649 „	16,93,506
Total of grey	2,803,929 „	1,89,61,157
Mercerised—two-folds (doubles nos. 51 to 80)	211,795 „	15,70,448
Two-folds (above 80)	77,900 „	6,66,972
Total of two-folds (doubles)	289,695 „	22,37,420
Total of mercerised	289,695 „	22,37,420
Total of twist and yarn	3,093,624 „	2,11,98,577
Cotton Manufactures:		
Blankets	37,062 „	25,559
Canvas	4,461 yds.	22,732
Handkerchiefs	36,073 nos.	15,407
Hosiery	—	67,911
Mosquito netting in the piece	553,458 yds.	7,34,999
Other laces & nets	846,527 „	11,81,849
Piece-goods:		
Plain Grey unbleached	5,087 „	5,323
Bordered grey unbleached	816 „	1,431
Total grey unbleached	5,903 „	6,754
White bleached	3,581,744 „	59,06,922
Printed goods	1,332,444 „	29,31,349
Total dyed goods	2,174,633 „	49,59,927
Woven coloured goods	949,533 „	28,06,350
Total coloured printed or dyed	8,006,620 „	1,02,98,126
Total of piece-goods	8,594,267 „	1,63,11,783
Goods of cotton mixed with other materials	6,395 „	22,196
Rope	4,140 lbs.	4,512
Thread, sewing or darning	90,676 „	12,03,610
Thread, others		
Total of thread	125,306 „	19,21,010

Textiles—(*Contd.*)

—	Quantity	Value
		Rs.
Other sorts of cotton manufactures	—	12,40,760
Total of cotton manufactures (including twist and yarn)	—	4,27,49,151
Total of cotton raw and manufactures	—	39,53,02,637
Fents (of cotton not exceeding 4 yds. in length)	132,537 lbs.	3,23,568
Fents (of Silk, artificial Silk, Silk mixture or artificial Silk mixture, not exceeding 2½ yds. in length)	55,296 ,,	1,04,748
Fents (of other materials, not exceeding 4 yds in length)	6,127 ,,	12,520
Total of fents etc.	193,960 ,,	4,40,836
Flax:		
Raw	2,215,812 ,,	11,70,250
Manufactures:		
Canvas	66,624 yds.	2,21,814
Piecegoods	1,113 ,,	5,183
Thread, sewing	21,955 lbs.	1,75,618
Other sorts	60,606 ,,	3,55,559
Total of manufactures	—	7,63,264
Total of flax, raw and manufactures	—	19,33,514
Ribbons	274,659 yds.	33,341
Total haberdashery and millinery	—	3,09,054
Hemp raw	75,970 cwts.	1,03,87,891
Hemp raw and manufactures (excluding cordage)	—	6,483
Total of hemp	—	1,03,94,374
Jute raw	184 tons.	1,21,351
Jute manufactures (including twist and yarn)	—	42,763
Total of jute, raw and manufactures	—	1,64,114
Silk:		
Silk raw	109,546 lbs.	18,84,838
Silk Yarn	38,082 ,,	5,51,967
Silk piece-goods:		
Crepes and georgettes	43,016 yds.	89,118
Satin and tafettas	2,272 ,,	16,196
Others (other than crepes, georgettes, fuji satins and tafettas)	48,245 ,,	1,08,763
Total of silk piece-goods	93,671 ,,	2,09,423
Goods of Silk mixed with other materials	110,149 ,,	3,10,370
Total of silk raw and manufactures	—	29,66,159
Artificial Silk Yarn:		
Viscose continuous filament yarn	36,288,216 lbs.	10,24,65,862
Acetate ,, ,,	2,185,662 ,,	54,65,833
Other sorts	9,149,860 ,,	2,94,85,079
Total of artificial silk yarn	47,632,739 ,,	13,74,36,774
Artificial silkyarn mixed with other textiles or Staple fibre (excluding silk)	44,812 lbs.	1,36,320
Hosiery—artificial silk Socks and stockings	59,471 ,,	3,23,847
Artificial silk piece-goods	5,555,130 yds.	1,01,93,746
Goods of artificial silk mixed with other materials	253,247 ,,	6,95,078
Other sorts	—	61,590
Total of artificial silk	—	14,86,47,455
Wool raw	2,946,330 lbs.	80,73,615
Wool tops	12,033,056 ,,	7,01,29,183
Wool, yarn and knitting:		
Worsted yarn for weaving	1,256,597 ,,	19,96,869
Knitting wool	278,205 ,,	30,55,489
Other sorts	3,296,728 ,,	52,69,027
Total yarn and knitting wool	4,833,530 ,,	1,03,21,385

Textiles—(*Contd.*)

—	Quantity	Value
		Rs.
Wool manufactures:		
Blankets and rugs but excluding floor rugs)	950,710 lbs.	23,87,921
Carpets and floor rugs	8,660 ,,	1,04,955
Hosiery, woollen knitted apparel	39,491 ,,	4,31,928
Hosiery, other sorts	101,493 ,,	2,84,169
Total of hosiery	131,984 ,,	7,16,097
Woollen and worsted piecegoods	385,055 ,,	51,40,794
Woollen shoddy cloth	303,230 ,,	9,75,666
Total Woollen piece-goods	688,285 ,,	61,16,460
Goods of wool mixed with other materials	187,713 ,,	9,93,323
Roller cloth, clearer cloth, sizing flannel	93,124 ,,	9,55,287
Shawls and lohis	5,742 nos.	37,424
Other sorts (other than those mentioned above and ruffle cloth, shawl cloth)	388,360 lbs.	10,03,027
Total woollen manufactures	—	2,25,85,879
Total of wool and woollens	—	10,07,88,627
Staple fibre and yarn	34,618,269 lbs.	4,29,03,847
Yarn made of staple fibre	3,018,814 ,,	26,09,303
Yarn made of staple fibre mixed with other textile fibres	1,253,964 ,,	14,73,944
Total of staple fibre and yarn	38,891,047 ,,	4,69,87,094
Other textiles (not mentioned above) manufactured	—	12,85,109
Total textile raw materials	—	48,73,25,932
Total yarns and textile fabrics	—	22,20,93,023
Tobacco unmanufactured	2,031,248 lbs.	64,91,697
Tobacco manufactured:		
Cigars	8,659 ,,	1,44,214
Cigarettes	106,534 ,,	11,98,168
Tobacco for pipes and cigarettes	4,717 ,,	55,403
Other sorts	5,831 ,,	60,745
Total of tobacco	2,156,989 ,,	79,50,227
Toilet requisites	—	46,64,919
Toys and sports and games requisites:		
Toys	—	8,05,245
Playing cards	—	6,93,221
Other sorts	—	11,30,233
Total of toys and sports and games requisites	—	26,28,699
Umbrellas	6,999 nos.	21,803
Umbrella fittings	—	15,37,911
Total of umbrellas	—	15,59,714

Vehicles

Vehicles (excluding locomotives, etc. for railways):		
Carriages and carts not mechanically propelled	74 nos.	4,18,864
Parts of carriages and carts (excluding rubber tyres)	—	1,97,837
Perambulators and children's go-carts	215 nos.	22,685
Parts of perambulators and children's go-carts	—	1,137
Total of above items	—	6,40,523

Vehicles—(*Contd.*)

—	Quantity	Value
		Rs.
Cycles	115,463 no.	1,20,12,814
Parts of cycles and accessories	—	1,89,87,565
Total of cycles and parts	—	3,10,00,379
Aircraft	1 no.	60,000
Parts of aircraft	—	2,88,71,039
Carriages and parts for railways	—	1,81,00,430
Wagons and parts for railways	—	7,59,51,560
Total of carriages, wagons, parts thereof for railways	—	9,40,51,990
Motor Cars including taxi-cabs :		
Imported complete (including rubber tyres, tubes and batteries)	523 no.	40,99,101
Imported in complete-knocked-down or semi-knocked-down condition	6,710 ,,	3,27,85,776
Total of motor cars	7,233 ,,	3,68,84,877
Motor cycles (including scooters)	3,870 ,,	38,39,900
Motor omnibus, motor vans and motor lorries :		
Imported with bodies	498 ,,	40,32,357
Chassis	5,506 ,,	5,24,15,887
Total of motor omnibuses etc.	6,004 ,,	5,64,48,244
Other sorts of mechanically propelled vehicles	—	1,89,57,141
Parts of mechanically propelled vehicles and accessories other than aircraft (excluding rubber tyres)	—	24,30,47,805
Total of mechanically propelled vehicles	—	48,21,60,996
Vessels—Combat (including landing craft)	3 no.	6,56,528
Other ships (including launches and boats)	4 no.	21,02,679
Parts of vessels	—	15,91,439
Total of vessels	—	43,50,646
Total of vehicles	—	51,81,52,544
Wax of all kinds other than paraffin and candles	6,198 cwts.	8,05,094

Wood and Timber

Deal and pine wood	2,076 cubic tons.	10,88,810
Teakwood	15,978 cubic tons.	1,16,57,928
Logs and timber for match-making	32 cubic tons.	2,800
Other kinds of wood and timber	—	78,44,460
Plywood and other laminated wood (other than veneers for match-boxes and plywood for tea chests)	17 tons.	29,192
Manufactures of wood (other than furniture, cabinetware, laminated wood)	—	28,29,775
Total of wood and timber	—	2,34,52,965
Postal articles not specified	—	3,30,98,110
Articles imported as baggage not otherwise specified	—	14,10,249
All other articles of merchandise (unmanufactured)	—	23,99,004
All other articles of merchandise (manufactured)	—	3,22,21,108
Total value of imports	—	507,54,23,912

COMMODITIES EXPORTED

1st April to 31st Dec. 1956

Below are given the exact quantity and value of the commodities exported during the period 1st April to 31st Dec. 1956. Generally speaking those commodities the export value of which is less than one lakh are omitted.

See longer note under list of Imported Commodities on page 191.

—	Quantity	Value
		Rs.
Animal :		49,684
Cattle	22 nos.	68,79,286
Monkey	149,097 ,,	11,91,253
Sheep and goats	20,536 ,,	
Other kinds (excluding cattle, sheep, horses, monkeys and goats)	342,577 ,,	7,26,806
Total animals	512,232 ,,	88,47,032
Apparel (excluding hosiery, boots, shoes)	—	61,17,501
Arms, ammunition and military stores	—	328
Art, works of	—	63,11,354
Asbestos, raw	1,338 cwts.	2,87,192
Asbestos, manufactures	—	4,26,823
Total of asbestos	—	7,14,014
Belting for machinery	—	35,055
Bidi leaves	47,025 cwts.	28,17,767
Bones crushed and bone grists	53,016 tons.	1,71,70,907
Books, including maps, charts	27,198 cwts.	40,55,807
Boots and shoes :		
All leather	1,411,921 pairs.	89,47,626
All rubber	196,362 ,,	4,41,886
Rubber soled with canvas uppers	1,205,904 ,,	25,16,011
Rubber soled with leather uppers	61,938 ,,	5,07,432
Others	188,820 ,,	5,67,460
Total of boots and shoes	3,064,945 ,,	1,29,80,415
Bristles	3,264 cwts.	73,39,608
Brushes and brooms	28,902 dozs.	1,65,756
Building and engineering material other than iron, steel or wood :		
Bricks	293,438 nos.	1,71,907
Cement	3,320 tons.	2,98,797
Chalk and lime	4,226 cwts.	42,870
Magnesite	513,761 cwts.	46,07,932
Tiles	13,355,673 nos.	19,36,625
Other kinds (excluding those mentioned above	7,355 cwts.	2,05,574
Total of building and engineering material	—	72,63,705
Buttons	7,204 gross.	42,732
Candles of all kinds	16,187 lbs.	11,483
Canes, rattans and bamboos	3,206 cwts.	1,87,990
Chemicals and chemical preparations :		
Glycerine	29,478 ,,	23,68,442
Magnesium chloride	16,175 ,,	15,935
Potassium compounds	1,983 ,,	1,41,221
Soda compound other than borax	521 ,,	33,656
Other sorts of chemicals	—	15,37,545
Total of chemicals and chemical compounds	—	42,09,826
Coal	742,194 tons.	2,33,61,866
Coke	19,513 ,,	11,46,939
Total of coal and coke	761,707 ,,	2,45,08,805
Coffee	137,852 cwts.	5,05,49,821
Coir, unmanufactured	450 tons.	4,29,226
Coir yarn	928,089 cwts.	4,92,53,552
Coir mats and mattings	205,326 ,,	1,61,43,574
Coir matting rugs	72,413 ,,	66,58,265
Coir other sorts	333 ,,	28,327
Total of coir manufactured	1,206,160 ,,	7,20,83,718
Cordage and rope of vegetable fibre (other than jute and cotton)	50,608 cwts.	31,19,678
Cutlery	—	4,08,336
Drugs and medicines :		
Asafoetida	742 cwts.	1,76,950
Kuth	2,991 ,,	5,08,864
Strychnia	10,514 ,,	1,51,961
Proprietary and patent medicines	—	5,56,509
Psyllium husks	18,207 ,,	29,63,630
Senna	39,121 ,,	11,50,645
Other sort of drugs and medicines	—	95,06,104
Total of drugs and medicines	—	1,50,14,668

Commodities Exported—(Contd.)

—	Quantity	Value
		Rs.
Dyeing and tanning substances :		
Cutch and gambier	7,944 cwts.	6,66,346
Indigo	81 ,,	5,600
Myrobalans	445,128 ,,	53,86,661
Myrobalans extracts	51,156 ,,	15,00,073
Other sorts including lac-dye	13,035 ,,	3,67,771
Total of dyeing and tanning	517,359 ,,	84,27,124
Earthenware and porcelain	—	2,58,022
Electroplated ware	—	93,704
Feathers	2,315 lbs.	13,296
Fibre for brushes and brooms	5,941 tons.	67,10,303
Fish		
Fish, dry and unsalted	181,867 cwts.	1,80,29,803
Fish, dry and salted	160,423 ,,	1,75,83,687
Fishmaws and sharkfins	3,362 ,,	9,89,741
Fish, wet and salted	1,950 ,,	3,69,563
Total of fish	347,602 ,,	3,69,72,794
Fodder Bran and pollards (excluding oilcakes)	1,931 tons.	3,40,879
Fruits and Vegetables		
Fresh fruits—Coconut and others	—	13,84,996
Fresh vegetables—Betel leaves	4,694 cwts.	90,785
Fresh vegetables—Garlic	6,506 ,,	2,80,014
Onions	584,009 ,,	83,55,255
Other fresh vegetables	—	6,97,449
Total of fresh fruit and vegetables	—	1,08,08,499
Cashew kernels	500,503 ,,	11,87,06,528
Tamarind	73,479 ,,	16,89,274
Walnuts	58,955 ,,	67,74,069
Other dried fruits and vegetables	8,814 ,,	18,04,599
Total of dried fruits and vegetables	636,751 ,,	12,89,74,470
Total of fruits and vegetables	—	13,97,82,969
Furniture and cabinetware	—	20,73,706
Glass and glassware	—	13,87,990
Glue	22 s.	4,338
Grain, Pulse and Flour		
Beans	35 tons.	17,541
Dals other than gram dals	2,703 ,,	15,99,072
Gram and gram products	3,143 ,,	15,95,046
Masur (Lentils)	844 ,,	5,19,754
Other sorts	492 ,,	2,34,069
Total of Pulses	7,217 ,,	39,66,082
Rice	12,251 ,,	69,20,697
Wheat flour	40 ,,	13,032
Other sorts of grain and flour	7 ,,	3,100
Total of grain, pulse and flour	19,515 ,,	1,08,02,911
Gums and resins (Karaya)	53,735 cwts.	68,91,458
Olibanum or frankincense	772 ,,	40,707
Rosin	37,002 ,,	16,24,549
Other sorts :	1,04,262 ,,	33,78,403
Total of gums and resins	1,95,878 ,,	1,19,44,526
Hair :		
Goat hair	5,837,137 lbs.	65,31,846
Other kinds of hair	1,141,139 ,,	15,21,049
Manufactures of hair	—	4,90,167
Total of hair	—	85,43,062
Hardware excluding cutlery and electro-plated ware	—	30,47,366
Hides and Skins		
Raw skins :		
Goat skins	141,682 cwts.	3,30,44,006
Pelts of baby kids	34 ,,	10,166
Pelts of baby lambs	65 ,,	1,15,721
Reptile skins	7,324 ,,	23,62,156
Sheep skins	2,615 ,,	4,14,042
Other skins	2,755 ,,	3,27,380
Total of skins raw	154,475 ,,	4,12,83,471

Hides and Skins—(Contd.)

—	Quantity	Value
		Rs.
Cuttings of hides and skins	23,066 cwts.	3,23,710
Total of hides and skins (raw)	177,542 ,,	4,16,07,417
Hoofs, horns, tips and pieces of horn	27,034 ,,	10,23,953
Instruments, apparatus, appliances and parts :		
Electrical	—	30,32,184
Musical	—	14,21,969
Photographic	—	86,55,005
Surgical	—	19,51,651
Other kinds	—	1,30,183
Total of instruments	—	1,51,90,992
Ivory, unmanufactured	5,126 lbs.	1,11,281
Ivory, manufactured	—	50,106
Total of ivory	—	1,61,387
Jewellery	—	81,12,613
Imitation jewellery	—	1,74,084
Kapok	39,138 cwts.	44,37,928
Lac		
Lac, button	12,161 cwts.	23,57,590
Lac, seed	105,151 ,,	1,71,31,600
Lac, shell	266,808 ,,	5,12,96,952
Lac, stick	14 ,,	1,980
Other kinds	36,327 ,,	35,80,907
Total of lac	420,461 ,,	7,43,69,029
Lacquered ware	—	13,697
Leather		
Hides, tanned or dressed :		
Buffalo hides	8,272 cwts.	17,14,492
Cow hides	168,576 ,,	4,68,74,848
Calf skins	31,168 ,,	1,06,99,016
Other hides	291 ,,	1,77,021
Total of hides, tanned or dressed	208,307 ,,	5,94,65,377
Skins, tanned or dressed :		
Goat skins	72,516 ,,	5,35,82,467
Reptile skins	295 ,,	3,82,828
Sheep skins	47,349 ,,	4,32,33,896
Other skins	420 ,,	1,15,604
Total of skins, tanned or dressed	120,580 ,,	9,73,14,795
Total of hides and skins, tanned or dressed	328,887 ,,	15,67,80,172
Leather unwrought	15,167 ,,	11,45,453
Leather manufactures (excluding boots and shoes) :		
Leather belting	7 ,,	3,470
Bags, trunks, travelling requisites	—	5,09,197
Saddlery and harness	—	94,708
Other sorts	—	6,05,668
Total of leather and manufactures	—	15,91,668
Liquors	177,774 gals.	4,13,160
Machinery and millwork	—	38,80,745
Manures :		
Bones	21 tons.	44,909
Fish manures	470 ,,	2,27,240
Guano	99 ,,	40,790
Horn meal	2,191 ,,	10,12,171
Other kinds	5,893 ,,	17,09,384
Total of manures	8,674 ,,	30,34,494
Mats and mattings (except coir and rubber)	212,815 sq. yds.	2,19,062

Metals, Ores, Minerals

—	Quantity	Value
		Rs.
Bauxite and other aluminium ore	3,487 tons	2,61,131
Aluminium wrought	5,211 cwts.	15,42,570
Barytes	6,582 tons.	7,13,522
Brass, bronze and similar alloys	9,465 cwts.	22,50,690
Chromite (chrome iron ore)	39,866 tons.	41,27,176
Copper	1,044 cwts.	1,71,110
Ilmenite	153,396 tons	1,07,66,582
Iron ore	1,262,974 ,,	6,63,94,742
Pig iron	200 ,,	56,961
Manufactures (angle, bolt, rod)	42 ,,	92,390
Manufactures (bars, channels)	10 ,,	36,519
Total of iron	252 ,,	1,85,870
Steel bars	17 ,,	21,958
Iron or steel :		
Anchors and cables	28 ,,	24,857
Hoops and strips	1 ,,	803
Nails, screws, rivets, washers	95 ,,	1,53,696
Old, for remanufacture	120,092 ,,	2,77,31,760
Pipes and fittings, cast	197 ,,	1,33,777
Sheets and plates	20 ,,	21,570
Other manufactures of iron or steel	543 ,,	3,39,920
Total of iron or steel	120,976 ,,	2,84,06,383
Kyanite ore	19,634 ,,	58,04,647
Lead	8 cwts.	980
Manganese ore	481,336 tons.	8,47,18,713
Ferruginous manganese ore	32,808 ,,	21,00,710
Sillimanite	3,264 ,,	9,64,728
Steatite	5,586 ,,	10,36,921
Tin	9,470 cwts.	1,62,041
Zinc or spelter, all sorts	97,498 ,,	23,74,704
Metals unenumerated	32,799 ,,	21,95,937
Ores and minerals unenumerated	27 tons.	2,163
Total of metals	129,020 ,,	3,73,13,143
Total of ores and minerals	2,008,860 ,,	17,68,91,035
Total of metals, ores and minerals	2,137,880 ,,	21,42,04,178
Mica :		
Blocks	38,391 cwts.	3,61,83,228
Splittings	97,151 ,,	2,86,69,044
Ground, scrap or waste	153,149 ,,	8,32,104
Total of mica	288,691 ,,	6,56,84,976

Oils

Essential :		
Lemon grass oil	1,672,573 lbs.	1,11,92,183
Palmarosa oil	100,550 ,,	21,86,151
Sandalwood oil	147,529 ,,	70,80,707
Other sorts of essential oil	42,687 ,,	3,06,329
Total of essential oils	1,963,339 ,,	2,07,65,370
Petroleum, dangerous, flashing below 76 F., including petrol, benzine and benzol	5,100,111 gals.	28,98,767
Other kinds	7,768,111 ,,	24,18,854
Total of mineral oils	12,868,222 ,,	53,17,621
Vegetable, non-essentials :		
Cashew shell	1,109,549 ,,	38,06,503
Castor	8,364,463 ,,	5,28,58,613
Chalmugra	3,915 ,,	35,489
Groundnut	191,418 ,,	12,01,866
Linseed	6,830,382 ,,	4,71,59,262
Mustard or rape	22,799 ,,	1,93,482
Salad	12,108 ,,	84,536
Sesamum (til or jinjili)	84,622 ,,	5,81,000
Other sorts	2,638,236 ,,	1,78,56,460
Total vegetable, non-essentials	19,257,522 ,,	12,37,77,211
Total of oils	32,341,624 ,,	14,98,60,239
Oil cakes	40,991 tons.	1,22,65,358
Oil cloth and floorcloth	98,626 sq. yds.	2,87,786
Opium	4,074 cwts.	1,25,30,911

Oils—(*Contd.*)

—	Quantity	Value
		Rs.
Paints and painters' materials :		
Graphite	—	50
Other sorts of paints and colours	22,007 cwts.	3,88,031
Turpentine	8,038 ,,	3,61,863
Other sorts of painters' materials	—	18,98,263
Total of paints and painters' materials	—	26,48,207
Paper and pasteboard :		
Printing paper	265 ,,	21,334
Other kinds of paper (including paper manufactures)	37,525 ,,	67,93,655
Pasteboard, millboard, cardboard	52 ,,	7,039
Total of paper and pasteboard	37,842 ,,	68,22,028
Paper making materials	142,081 ,,	40,45,293
Paraffin wax	21,897 tons.	1,47,89,001
Perfumery	—	30,01,588
Pitch, tar and dammar	800 cwts.	11,339
Plants (including bulbs, seeds)	—	1,21,995
Plastic goods, not elsewhere classified	—	4,90,111
Precious stones and pearls unset	—	29,35,620
Printing and lithographic machinery and materials	—	5,82,374
Prints, engravings and pictures	—	43,871
Provisions and oilman's stores :		
Animal casings	3,734 cwts.	35,19,928
Beef and mutton	1,440 ,,	2,16,952
Biscuits and cakes	66 ,,	14,866
Confectionery	436 ,,	72,719
Curry powder	13,008 ,,	16,05,929
Hydrogenated vegetable oil (edible)	179,273 ,,	1,64,00,484
Pickles, chutnies and condiments	19,859 ,,	17,62,157
Other sorts	310,591 ,,	1,01,34,925
Total provisions and oilman's stores	528,443 ,,	3,37,28,296

Rubber

Rubber raw	31,568 lbs.	65,720
Rubber manufactures :		
Pneumatic cycle and motor cycle tyres	10,201 nos.	38,656
Pneumatic motor tyres	10,535 ,,	12,70,222
Total pneumatic tyres	20,736 ,,	13,08,878
Pneumatic cycle and motor cycle tubes	1,155 ,,	2,737
Pneumatic motor tubes	9,073 ,,	1,20,377
Total pneumatic tubes	10,228 ,,	1,23,214
Solid rubber tyres	133 ,,	1,44,040
Other rubber manufactures (except apparel, boots, shoes, toys)	—	7,17,660
Total of rubber manufactures	—	22,93,792
Total of rubber (raw and manufactured)	—	23,59,512
Salt	207,770 tons.	28,96,226

Seeds

Oilseeds (essential) :		
Ajama	81 tons.	55,785
Ajwan	134 ,,	1,21,638
Aniseed	16 ,,	14,914
Coriander	1,685 ,,	13,65,990
Cummin (other than black)	287 ,,	5,32,032
Cummin (black)	1 ,,	9,193
Fennel	1,279 ,,	11,41,967
Fenugreek	1,147 ,,	7,35,959
Sawa or dil	244 ,,	1,41,403
Other sorts of essential oilseeds	27 ,,	81,913
Total of essential oilseeds	4,921 ,,	41,90,794

Seeds—(Contd.)	Quantity	Value
—		Rs.
Oilseeds (non-essential)		
Castor	—	—
Groundnuts	166 tons.	1,88,274
Linseed	2 ,,	1,690
Mustard	—	—
Niger	454 ,,	2,56,947
Poppy	13 ,,	18,373
Sesamum (til or jinjili)	—	—
Other sorts of non-essential oilseeds	31 ,,	41,093
Other than oilseeds and seeds for sowing	1,962 ,,	16,13,022
Total of seeds	7,549 ,,	63,10,193
Shells and cowries	—	6,72,867
Smokers' requisites	—	12,512
Soap, toilet	3,075 cwts.	4,31,820
Soap, other kinds	351 ,,	30,931
Total of soap	3,426 ,,	4,62,751
Specimens illustrative of natural science	—	2,96,069
Spices		
Betelnuts	3,285 cwts.	7,76,059
Cardamoms	15,740 ,,	1,63,85,263
Chillies	10,840 ,,	10,54,017
Ginger	84,141 ,,	91,97,699
Pepper	148,331 ,,	1,96,14,305
Turmeric	189,407 ,,	95,63,321
Other sorts of spices	1,018 ,,	68,133
Total of spices	452,762 ,,	5,66,61,797
Stationary (excluding paper)	—	22,23,322
Sticks and whips	—	96,762
Stone and marble	1,401 tons.	5,91,107
Sugar :		
Gur	1,380 ,,	7,94,006
Molasses	194 ,,	32,521
Palmyra and cane jaggery	12,253 ,,	60,48,471
Sugar candy	60 ,,	57,442
Total of sugar	13,887 ,,	69,32,440
Tea	383,834,102 lbs.	1,08,81,85,183
Tea, green	26,426 ,,	68,494
Total of tea	383,860,528 ,,	1,08,19,53,677
Tea waste for manufacture of caffeine	1,467,800 ,,	2,64,471
Textiles		
Cotton, raw	29,724 tons.	7,62,35,642
Cotton, waste	736,522 cwts.	5,40,94,317
Twist and yarn :		
Grey, singles and two-folds (doubles)	6,304,257 lbs.	1,30,90,714
White bleached (Nos. 1–40)	281,624 ,,	8,48,613
Above No. 40 (including two-folds)	59,410 ,,	2,98,082
Coloured singles and two-folds	263,283 ,,	6,92,381
Unspecified descriptions	7,418 ,,	33,192
Total of twist and yarn	6,915,992 ,,	1,49,62,982
Cotton manufactures :		
Blankets wholly or mainly of cotton	2,186,594 nos.	56,73,176
Canvas	2,328,229 yds.	36,25,020
Carpets, rugs, durries	15,740 cwts.	30,55,142
Handkerchiefs and shawls in the piece	58,969 nos.	1,16,539
Hosiery	—	33,24,984
Piecegoods, handloom :		
Lungis	28,971,430 yds.	4,49,05,680
Saris	6,730,009 ,,	74,59,837
Other sorts	6,642,966 ,,	79,88,676
Total of handloom	42,344,405 ,,	6,13,54,193

Textiles—(Contd.)	Quantity	Value
—		Rs.
Piecegoods, millmade, grey unbleached :		
Chadars and dhoties	837,930 yds.	6,44,347
Drills and jeans	21,584,873 ,,	1,73,10,337
Shirtings	20,058,674 ,,	95,17,190
Other sorts	246,903,503 ,,	15,87,42,305
Total grey unbleached	289,384,980 ,,	18,62,14,179
Piecegoods, millmade, white bleached :		
Chadars and dhoties	4,111,323 ,,	37,33,972
Drills and jeans	7,124,771 ,,	55,14,839
Shirtings	39,095,253 ,,	2,67,74,177
Other sorts	47,715,295 ,,	3,71,42,372
Total white bleached	98,046,642 ,,	7,31,65,360
Coloured, printed or dyed :		
Lungis and saris	1,915,705 ,,	19,51,880
Drills and jeans	26,067,545 ,,	2,61,28,844
Other sorts of coloured or printed or dyed	98,710,293 ,,	7,82,34,712
Total of printed, dyed	127,293,543 ,,	10,63,15,436
Total of millmade piecegoods	514,725,165 ,,	36,56,94,975
Total of cotton piecegoods (handloom and millmade)	557,069,570 ,,	42,70,49,168
Thread, sewing	330,156 lbs.	14,43,802
Towels in the piece	306,518 yds.	2,82,090
Other sorts of cotton manufacture	1,932,279 lbs.	25,78,039
Total of cotton manufactures (including twist and yarn)	—	46,21,10,942
Total of cotton raw and manufactures	—	59,24,40,901
Flax—Raw	48,781 lbs.	18,900
Flax, manufactures (including twist and yarn)	—	7,36,799
Total of flax raw and manufactures	—	7,55,699
Haberdashery and millinery (made up of cotton goods, quilts, etc.)	—	2,49,34,440
Haberdashery, other sorts	—	39,40,665
Total of haberdashery and millinery	—	2,88,75,105
Hemp, raw	318,979 cwts.	1,23,79,892
Hemp, manufactures (excluding cordage)	—	5,89,119
Total of hemp, raw and manufactures	—	1,29,69,011
Jute :		
Twist and yarn	4,140,886 lbs.	30,06,741
Manufactures :		
Bagging for raw cotton	632,752 cwts.	2,45,20,074
Canvas	646,510 yds.	5,81,745
Carpets	6,806 cwts.	9,20,925
Sacking gunny bags	310,797 tons.	34,53,68,867
Hessian gunny bags	33,933 ,,	5,33,16,698
Total of gunny bags	344,730 ,,	39,86,85,565
Sacking gunny cloth	6,118 ,,	81,55,171
Hessian gunny cloth	289,636 ,,	43,92,40,361
Total of gunny cloth	295,754 ,,	44,73,95,532
Rope and twine	101,726 cwts.	56,30,552
Webbings	60,948 ,,	67,06,895
Other kinds of jute manufacture	28,334 ,,	29,08,914
Total of jute manufactures (including twist and yarn)	684,161 tons.	89,03,56,943
Total of jute (raw and manufactures)	684,162 ,,	89,03,57,518
Silk, waste and cocoons	1,114,210 lbs.	48,15,537
Silk manufactures :		
Silk goods mixed with other materials	74,317 yds.	2,25,802
Silk piecegoods	163,083 ,,	19,18,325
Other manufactures	12,345 lbs.	3,64,790
Total of silk manufactures	—	25,08,917
Total of silk, raw and manufactures	—	73,24,454

Textiles—(*Concld.*)

—	Quantity	Value
		Rs.
Artificial silk piecegoods ..	2,572,041 yds.	48,70,491
Wool, raw	23,282,678 lbs.	7,27,24,707
Wool, manufactures :		
Carpets and rugs	7,232,685 ,,	3,05,53,631
Piecegoods	36,495 yds.	4,95,967
Shawls	18,030 nos.	3,95,243
Other woollen manufactures ..	429,785 lbs.	15,13,830
Total of woollen manufactures ..	—	3,29,58,671
Total of wool and woollens ..	—	10,56,83,378
Other textiles, raw	8,380 cwts.	4,58,716
Other textiles, manufactured ..	—	6,04,150
Total of textiles, raw materials ..	—	22,07,28,286
Total of yarns and textile fabrics ..	—	142,36,11,137
Tobacco, unmanufactured ..	82,122,357 lbs.	10,83,92,497
Tobacco, manufactured :		
Bidis	2,234,305 ,,	82,54,810
Cigars	5,497 ,,	26,606
Cigarettes	3,658 ,,	25,788
Other sorts of manufacture ..	971,434 ,,	11,59,138
Total of tobacco, manufactured ..	3,214,894 ,,	94,66,342
Total of tobacco, unmanufactured and manufactured	85,337,221 ,,	11,78,58,839
Toilet requisites not elsewhere specified	—	16,44,756
Toys and requisites for games and sports (other than firearms) ..	—	12,64,307
Umbrellas (including parasols and sunshades)	142,434 nos.	5,67,122

Textiles—(*Concld.*)

—	Quantity	Value
Vehicles :		
Carriages and carts	13 nos.	1,650
Ships, launches, boats ..	526 ,,	67,871
Other sorts of vehicles ..	—	35,24,154
Total of vehicles	—	35,93,765
Wax of all kinds, other than paraffin wax (excluding candles) ..	2,557 cwts.	6,67,646
Wood and Timber		
Hardwood (other than teak) ..	1,871 cubic tons	33,50,395
Plywood & other laminated wood	90 ,,	2,80,668
Sandalwood	785 ,,	31,38,490
Teakwood	1,296 cubic tons.	10,93,225
Other kinds of wood and timber	—	50,54,401
Total wood and timber	—	1,29,17,179
Manufacture of wood, other than furniture and cabinetware ..	—	5,90,437
Total of wood, timber and manufactures	—	1,35,07,616
Postal articles	—	2,64,83,706
All other articles of merchandise :		
Unmanufactured	—	31,45,488
Manufactured	—	1,14,37,255
Total value of exports	—	430,18,39,562

ALCOHOL INDUSTRY

ALCOHOL has three uses. It can be used as a drink. That is the use for which it is best known. Second, it can be used for industrial purposes, for instance in the manufacture of a number of chemicals. Third, it can be used as a motor fuel, for the production of mechanical power, when we call it power alcohol.

Potable Alcohol.—Three types of potable alcohol are produced in the country, beer, toddy, arrack and certain varieties of 'foreign liquors.' A great number of old pot, and coffey stills have always been in use but the major part of potable liquor is made in proper distilleries. There are also 24 big distilleries producing industrial and potable alcohol.

INDUSTRIAL ALCOHOL

Industrial alcohol is a very valuable material in the manufacture of chemicals like acetone, acetic acid, ether, chloroform, ethyl acetate, etc. It is also necessary as a solvent in the manufacture of fine chemicals, medical preparations, toilets, etc. Since the last war its importance if at all has increased. It is now essential in the manufacture of ammunition and of artificial rubber.

In 1950-51 there were as many as 19 power alcohol distilleries capable of producing over 2·9 million gallons of industrial alcohol. In addition, there were 24 distilleries producing potable and industrial alcohol. The capacity of these units for industrial alcohol is estimated at 9 3 million gallons. At present the capacity for industrial alcohol is estimated at 12·83 million gallons per annum (43 producing units). The trend of production has been as follows:

Year.	Rectified spirit (000 gals.).	Denatured spirit (000 gals).
1948 .. .	2,389	1,401
1949 .. .	1,950	1,095
1950 . .	3,435	1,477
1951 .. .	5,019	1,967
1952 .. .	4,668	2,178
1953	4,376	2,493
1954 .. .	4,630·8	2,835.6
1955 . .	5,156·4	2,989·2
1956 .	3,999 6	3,193.3

The undivided Government of India's Panel on Fine Chemicals, Drugs and Pharmaceuticals estimated that the medical requirements of the sub-continent were a million gallons annually and industrial requirements 10 millions, a target which they said ought to be reached in 15 years time.

To make this possible, it is argued, the first essential is to abolish the present excise duty on industrial alcohol and the second is to have a uniform policy for the country as a whole. Industrial alcohol should not cost more than a few annas a gallon. As it is it costs the distiller about eight annas to make it. When the producer's and middleman's profit is added the price will increase to a point where it becomes uneconomic to use it.

Consumption of industrial alcohol is estimated to have gone up from 3·4 million gallons in 1950 to 5·2 million gallons by 1955. In addition about 0·6 million gallons of alcohol are at present used in the manufacture of acetate rayon and are met from the production of power alcohol grade spirits.

POWER ALCOHOL

The importance of the power alcohol industry lies in its supplying a product which can replace an equivalent quantity of imported petrol. The rapid development of the sugar industry since 1931 has rendered large quantities of molasses available for its production.

Consumption of power alcohol in 1955-56 was estimated to be only about 10 million gallons as against 18 million gallons envisaged because of difficulties in providing facilities for mixed petrol with alcohol and of comparatively high cost of production of alcohol in certain areas.

The installed capacity and actual production in thousand bulk gallons are given below:

Year.	Capacity	Production
1946	6,258	2,397
1947	6,258	2,736
1948	6,258	3,776
1949	8,862	4,230
1950	9,328	4,498
1951	9,908	5,809
1952	10,920	7,742
1953	13,020	8,120
1954	13,020	8,007·6
1955	13,812	10,432·8
1956	14,352	10,243·2

According to the Census of Manufacturing Industries, 1953, the fixed capital investment in the 47 distilleries and breweries (including power alcohol manufacturers) in the country was of the order of Rs 2,47 lakhs in 1953. The number of persons employed in the industry in 1953 was estimated at about 4,750.

Imports of alcohol are banned, but small quantities are imported along with drugs and perfumed spirits or in the form of liquors. Exports of alcohol are confined to despatches of denatured spirit to Burma and Ceylon and small quantities of rum.

The principal raw material required is molasses. Out of a total production of six lakh tons of molasses in 1954 (estimated), Uttar Pradesh and Bihar accounted for about 90%. Other raw materials required in small quantities are sulphuric acid, ammonium sulphate and entertaining agents.

Difficulties in the supply of molasses and offtake and the unremunerative price of power alcohol have kept production at a low level compared to the installed capacity. With a view to overcoming these difficulties and ensuring a steady growth of the industry, a Committee was set up by the Ministry of Commerce and Industry in October 1955.

Based on the anticipated requirements during the Second Plan period, a combined production of 30 million gallons of power and industrial alcohol is fixed as a target to be achieved by 1960-61, while a combined capacity of 36 million gallons per annum by 1960-61 is suggested. It is estimated that a sum of about Rs 1 crore will have to be invested during the Second Plan to achieve this capacity. This is exclusive of the outlay on the modernisation and improvement of existing units. About 2,000 additional persons are estimated to be employed in the industry during the Second Plan.

AUTOMOBILE INDUSTRY

IT would appear that the first motor car was imported into India in 1898. The practice up to the end of the first world war was to purchase complete motor vehicles directly from abroad or through agents or dealers in India.

It was in 1920 that two automobile manufacturers, one from the U.S.A. and the other from Canada, set up local companies to do business in motor cars and trucks.

General Motors India Ltd. commenced assembling trucks and cars from components and parts imported from the U.S.A. in c.k.d. condition in their factory at Bombay in 1928, while Ford Motor Company of India Ltd. commenced c.k.d. assembly of automobiles at Madras in 1930, and at Bombay and Calcutta in 1931.

All these plants of General Motors and Ford Motors have now, of course, shut down.

It is claimed by Peninsular Motor Corporation Ltd., Calcutta, that one of its sister companies was the first to start assembling cars and trucks from c.k.d. components and parts in its workshop at Calcutta in 1926.

Addison and Co., Ltd., commenced c.k.d. assembly of cars and trucks at Madras in 1936.

In 1944, two companies, Hindustan Motors Ltd., Calcutta, and Premier Automobiles Ltd., Bombay, with an authorised capital of Rs. 20 crores and Rs. 10 crores respectively, were established with a programme for progressive manufacture of complete automobiles.

In addition to the above, other firms in the field were: Standard Motor Products of India Ltd., Madras; Automobile Products of India Ltd., Bombay; Ashok Motors Ltd., Madras; Dewar's Garage and Engineering Works, Calcutta; Peninsular Motor Corporation Ltd., Calcutta; French Motor Car Co., Ltd., Bombay; Mahindra and Mahindra Ltd., Bombay and Addison and Co. Ltd., Madras.

The total annual assembling capacity of the 12 firms mentioned above was estimated around 84,014 cars and commercial vehicles. The total output of the 12 firms of both cars and commercial vehicles and the sales during 1951 and 1952 were as shown below:

	Production	Sales
1951	21,577	22,893
1952	14,873	15,723

It is evident that only a small part of the total capacity of the industry was being utilised. The Tariff Commission estimated that the average annual imports in the three pre-war years 1935-36 to 1937-38 were of the order of 25,000 motor vehicles. In the post-partition years, the average annual imports up to 1951-52 were 21,500 vehicles. Taking the whole period of 20 years, it is noteworthy that the volume of imports has remained more or less static in India while it has shown a striking increase in many other countries.

The total number of passenger cars and commercial vehicles on roads in 1951 was 288,000 comprising about 160,000 passenger cars and 128,000 commercial vehicles. If the average life of a passenger car is taken to be 12 years and a commercial vehicle 10 years, about 13,000 passenger cars and 12,000 commercial vehicles would be needed to be replaced every year to maintain the number of vehicles on the roads. These annual needs for replenishment of 25,000 vehicles do not, however, take into account the development of roads and road transport envisaged in the two Five-Year Plans.

MANUFACTURE

In accordance with the recommendations of the Tariff Commission report of 1953 Government have decided to concentrate production only in those firms which have a manufacturing programme. The type of vehicle, the scale of manufacture, etc. are also fixed in the way shown below:

Firm.	Nos.
Hindustan Motors Ltd., Calcutta ..	18,000
Premier Automobiles Ltd., Bombay	12,000
Standard Motor Products of India Ltd., Madras	2,950
Ashok Motors Ltd., Madras ..	7,540

Hindustan Motors will manufacture baby cars, light cars, big cars and medium trucks (Morris Minor, Hindustan 14, Studebaker car and truck).

Premier Automobiles will manufacture baby cars, big cars and medium trucks (Fiat 1100, Dodge, De Soto, Plymouth cars, and Dodge, De Soto and Fargo trucks).

Standard Motor Products of India will manufacture baby cars and medium cars (Standard Ten and Standard Vanguard).

Ashok Motors will manufacture heavy trucks (Leyland 5 ton diesel trucks).

Two other manufacturing operations sanctioned are the Tata Locomotive and Engineering Co. Ltd. which will produce Tata-Mercedes Benz diesel trucks, and Mahindra and Mahindra Ltd. which will produce Willy's Jeep.

The installed capacity and actual production of the automobile industry during 1956 as compared with 1955 are indicated below:

(In numbers)

	1955	1956
Installed capacity	51,996	49,800
Production ..	22,088	32,136
of which:		
Cars	9,492	12,084
Jeeps and land rovers ..	3,336	4,140
Station wagons, utilities, mobile health Vans Commercial vehicles	768	684
Trucks ..	6,456	10,920
Passenger Buses	3,036	3,408

In 1953 the number of cars produced was 4,936, of trucks 8,990. The respective figures for 1954 were 5,485 and 9,027.

In 1953 the number of cars sold was about 5,000 and of trucks about 4,400. The respective figures for 1954 were 5,806 and 8,007 and for 1955, 10,166 and 12,899.

At the end of 1957 Hindustan Ambassador attained 56 per cent completion in terms of value regarding indigenous production of parts. The Standard Vanguard car had attained 33 per cent. At the same time Dodge-Desoto-Plymouth car had reached 20·34 per cent, Dodge-Desoto-Fargo 49 per cent, Fiat car 38 per cent, Mercedes Benz truck 48 per cent.

A considerable number of the parts for Willy's Jeeps are also manufactured while certain minor parts required for the Studebaker car and truck are locally made.

Protection will continue till the end of 1967. And no more new manufactures will be allowed to enter the country.

Items like tyres, tubes, battery, all rubber parts, upholstery materials and paints are all obtained from indigenous sources for all the vehicles in the manufacturing programme.

There are 20 important firms licensed for making automobile ancillaries excluding garage and service tools and 10 have already gone into production. The total number of ancillary factories is, however, estimated at 146.

The total paid up capital invested in the industry as on December 31, 1957 was over Rs. 18·5 crores (foreign a little over Rs. 14 lakhs); working capital: Rs. 8·0 crores (excluding Tata Locomotive and Engineering Co. Ltd.). The industry employs over 18,360 people.

The following manufacturing industries are more or less well established: pistons and piston rings, cylinder liners (dry), fan belts, radiators, propeller shafts, bodies for automobiles, seat bench assembly, upholstery material, batteries, electric lamps and bulbs, ball bearings, tyres and tubes, paints, non-genuine components and parts. To the list are added gudgeon tins, electric horns and new ranges of piston.

Manufactures more recently started are: sparking plugs, fuel injection equipment, electric horns, shock absorbers, wheels and rims, spanners, and brake lining, clutch facings, piston rings, cylinder liners, oil seals, metal gaskets, scammel semi-trailers, brake lining, clutch discs and friction materials.

Over Rs. 4·4 crores are invested in ancillary industries. The working capital of this sector is Rs. 51 lakhs.

IMPORTS

Though production has gone up in the country, imports have not been reduced as expected. In fact they follow broadly the pattern of indigenous production, recording a substantial decline in 1952-53 and 1953-54 and a progressive increase since then. Except for a very limited number of motor cars imported complete, all the vehicles imported are in c.k.d. condition.

Year	Motor cars including taxi cars (Numbers)	Motor omnibuses, motor vans and lorries (Numbers)	Total	Value (Rs. lakhs)
1950-51	8,433	4,903	13,336	6,37
1951-52	9,963	4,712	14,675	7,76
1952-53	5,164	3,637	8,801	5,93
1953-54	5,816	4,189	10,005	6,08
1954-55	10,592	4,516	15,108	10,29
1955-56	10,562	8,891	19,453	13,46
1956 (April-Dec.)	6,710	6,004	12,714	8,92

AUTOMOBILES

A general note on price may be added here. Price is influenced by demand which in turn is influenced by price. Thus one of the factors that has inhibited the growth of the industry is the fact that internal demand is small. Hence the advantages of mass production cannot be availed of.

A complete automobile consists of 4,000 to 5,000 parts. Hence production cannot be concentrated in a single unit. Thus in most western countries there are always a large number of manufacturers of ancillary parts. This again is conditioned by the size of the demand.

SECOND FIVE-YEAR PLAN

The target of production for the industry is 57,000 automobiles by 1960-61. An overall investment of about Rs. 16 crores is estimated to be necessary during the Second Plan period. Regarding ancillary industries, ten firms are expected to commence production early in the period and an additional investment of Rs. 2 crores is likely to be invested.

Summary of the development programme during the Second Plan:

	1955-56	1960-61
No. of manufacturing units	6	6
Annual rated capacity on single shift (No.)	29,000	29,000
Estimated production (No.)	25,000	57,000
Consumption (No.) ..	23,000	57,000

Both automobile and tractor drawn trailers are being manufactured in India. Six firms with a total capacity of 5,232 trailers per year on single shift basis are in the field. The Government of India is keen on developing the automobile industry. Among the steps taken by the Government are the reduction of average import duty on motor vehicles and parts and restriction of manufacture to a limited number of types and models.

MOTOR CYCLES AND SCOOTERS

There is also a fair demand for autocycles, scooters, motor cycles and auto-rickshaws. The demand for motor cycles at the end of the First Plan was estimated at 5,000 per annum and it is expected to rise to about 11,000 by 1960-61 inclusive of scooters.

The Madras Motors, Madras (since renamed Enfield (India) Ltd.) was granted a licence in 1954 to manufacture "Royal Enfield" motor cycles and it started production in May 1955 and by December 1955 turned out 419 motor cycles. The firm has also been licensed for the manufacture of 1,800 three-wheeled motor cycle chassis per annum. The Automobile Products of India, Bombay, has been permitted to manufacture annually 6,000 "Lambretta" scooters. It went into production in August 1955.

During 1956, 1,022 motor cycles and 5,264 scooters were manufactured as against 419 and 536 respectively in 1955.

CEMENT INDUSTRY

THE first venture in the manufacture of Portland Cement in India took place in 1904, in a small factory just outside Madras, but it quickly went out of business.

A few years later three new companies came into existence and laid the foundation of the industry as it exists today.

In 1925, following the result of an enquiry by the Tariff Commission, the necessity for co-operation among the manufacturing units was clearly emphasised and as a result, an Association known as the Indian Cement Manufacturers' Association was formed.

Inspired with a certain measure of confidence they took yet another step which was the formation of the Cement Marketing Company of India, Ltd.

The next step was the fusion of all the Indian cement manufacturing companies then in operation (with the exception of the Sone Valley Cement Co. Ltd.) into one unit known as the Associated Cement Companies Ltd., in 1936 whose Managing Agents are Cement Agencies Ltd.

By March 1952, there were 23 cement factories with an annual rated capacity of about 3·88 million tons.

During 1952-54, three new cement plants went into production and the expansion and modernisation programme of seven of the existing factories were completed with the result that the total annual capacity rose to about 4·4 million tons by the end of 1953-54 as against 3·88 million tons in 1952. Including the new ones the number of cement factories was 27 in March 1956 as compared with 21 at the beginning of the Plan. In March 1957 there were 28 cement factories, of which one was owned by the U.P. Government and one by the Mysore Government. Of the rest, all privately owned, seven were in Bihar, four in Bombay, three in Madras, two each in Mysore, Andhra, Madhya Pradesh, Rajasthan and the Punjab, and one each in Orissa and Kerala. The total capacity was about 6 million tons a year and the total production about 5 million tons. The number of factories in existence will rise from 28 early in 1957 to 44 at the end of the Second Plan period.

A sum of about Rs. 29 crores had been invested in the industry up to 1950-51 of which the A.C.C. accounted for Rs. 15·5 crores and the Dalmia Group Rs. 7 crores. Some 33,000 persons were employed by the industry in 1950-51. Excluding Rs. 2·92 crores spent on the 2 lakh tons cement factory of the U.P. Government at Churk, about Rs. 15 crores are estimated to have been invested in new units and expansions in the cement industry during 1951-56. The investment incurred by the Associated Cement Companies on their projects is estimated to amount to Rs. 11·76 crores during this period.

For the expansion of capacity in the private sector to 12·5 million tons by 1960-61 from 4·6 million tons in March 1956 (the capacity in the public sector in the two plan periods will be 5 lakh tons and 3 lakh tons respectively), an investment of about Rs. 80 crores is likely to be required. The development programme of the ACC envisages an investment of Rs. 35 crores for stepping up the capacity of their factories from 2·782 million tons in March 1956 to 5·288 million tons by the end of the Second Plan.

Altogether the capacity of the industry is envisaged to be stepped up to 13·0 million tons per annum by the end of the Second Plan and a production target of 13·0 million tons.

Among the newer units completed special mention may be made of the U.P. Government's factory at Churk which went into production in 1954 and that of the ACC at Sindri, designed for operation on the calcium carbonate sludge of the fertilizer factory, which went into production in September 1955.

The progress in the expansion of capacity and production in the different years of the First Five-Year Plan is given below:

Year	Installed capacity	Actual production
	(million tons)	
1950-51	3·28	2·70
1951-52	3·71	3·28
1952-53	3·80	3·51
1953-54	4·24	4·03
1954-55	4·44	4·42
1955-56	4·93	4·60

The Government, after due consideration of a report submitted by the Tariff Commission, fixed the standard ceiling price of cement at Rs. 67 per ton *f.o.r.* destination. It also allowed a further Rs. 2 per ton, which the companies are required to hold in a separate fund for being used with the consent of the Government exclusively for rehabilitation and expansion purposes.

The cement prices were raised in 1957 by Rs. 15 per ton. Their increase followed the upward revision in the excise duty on cement from Rs. 5 to Rs. 20 per ton with effect from 16th May 1957.

The prices of indigenous and imported cement are pooled and its distribution has been taken over by the State Trading Corporation in order to provide for substantial import of cement in the interests of consumers and to rationalise properly and regulate the use of cement when its demand has phenomenally gone up so high.

IMPORTS & EXPORTS

Imports of cement before the outbreak of the Second World War were small and generally the cement was of special quality. During the post-war period imports by sea totalled about 150,000 tons in 1948-49 and 300,000 tons in 1949-50. In addition, about 25,000 tons and 100,000 tons were imported from Pakistan by land routes in the two respective years. Since 1950 imports were restricted to quantities included in trade agreements as well as to those in respect of which prior commitments had been made and were only about 17,000 tons in 1950-51. The quantity imported in the following four years was negligible.

There have been no exports except of very limited quantities to Pakistan under the trade agreements and to the Middle East, Ceylon and East Africa.

The imports and exports of cement by land and sea during the period of the First Plan were as follows:

Year	Imports	Exports
	(Tons)	
1951-52	10,312	67,758
1952-53	3,652	57,441
1953-54	6,694	86,116
1954-55	6,000	101,429
1955-56	10,717	51,351

During the first ten months (ended December) of 1956-57, India exported 5,320 tons of cement and imported 114,660 tons from abroad.

For 1958 the export permitted is one lakh tons.

DEVELOPMENT PLAN

The annual consumption of cement was 2 million tons per annum during the war years and rose to about 2·6 million tons during the post-war years, 1949-50 and 1950-51. In 1951 about 3·17 million tons of cement were delivered, while 1·714 million tons were supplied in the first half of 1952. The future demand for cement, exclusive of the needs of the multi-purpose projects was expected to be around 3·8 million tons by 1955-56. Including the demand of the projects and roads, the total was expected to reach 4·5 million tons by the end of the first Plan period. By 1960-61, the demand will substantially increase and the consumption is estimated to reach 12·5 million tons at the end of the Second Plan period.

To meet this increased demand, the Government has approved various expansion schemes which are expected to increase the rated capacity from 4·931 million tons in 1955-56 to 13 million tons by 1960-61. On the basis of these approved schemes, the Statewise distribution of the industry in 1960-61 is expected to be as follows:

States†	Number of Units	Rated Capacity (000 tons)
Bihar	7	2,324
Orissa	1	725
Uttar Pradesh ..	2	631
Madhya Pradesh ..	3	1,168
Madhya Bharat ..	1	60
Rajasthan	2	1,284
PEPSU	2	635
Saurashtra	5	1,470
Bombay	4	565
Madras	4	949
Mysore	1	104
Travancore-Cochin	1	55
Hyderabad ..	2	645
Andhra	5	898
Assam	2	231
Vindhya Pradesh ..	2	550
Total	44	12,294

† Pre-reorganisation.

The State-wise distribution of the industry during 1950-51 and towards the end of the period of the First Plan is indicated below:—

State*	1950-51		1955-56	
	No. of Units	Rated Capacity (000 tons)	No. of Units	Rated Capacity (000 tons)
Bihar	5	922	6	1,122
Orissa	..	..	1	165
Uttar Pradesh	..	..	1	200
Madhya Pradesh	1	350	1	350
Madhya Bharat	1	60	1	60
Rajasthan	1	225	2	525
PEPSU	2	242	2	370
Saurashtra	3	337	3	492
Bombay	..	..	2	300
Madras	5	770	3	642
Andhra	..	..	2	189
Mysore	1	86	1	86
Travancore-Cochin	1	50	1	50
Hyderabad	1	240	1	330
Total	21	3,282	27	4,931

* Pre-reorganisation.

CHEMICAL INDUSTRY

FOR purposes of industrial production, chemicals fall easily into one of two major groups : (*a*) Heavy Chemicals; and (*b*) Fine Chemicals.

The term "Heavy Chemicals" is applied usually to substances such as the common acids, alkalies, fertilizer, etc., which are the foundation of the entire chemical industry.

Fine chemicals, on the other hand, are manufactured generally in relatively small amounts since purity is important; their production requires great skill and care in each operation under accurately controlled conditions. In this category are included photographic materials, drugs and pharmaceutical products, paints, varnishes and pigments, dyestuffs, etc.

According to the latest data, there are over 250 factories with a capital investment of nearly Rs. 33 crores and providing employment for about 35,000 workers.

During the year 1953, the chemical industries as a class, as well as the many other industries closely allied to them, made fairly good progress. A new up-to-date plant for the manufacture of 30 tons of aluminium sulphate per day was set up by a Bengal company. A new unit for calcium centride (3,000 tons per annum) and another for ammonium chloride (8,000 tons per annum) were expected to go into production in 1954-55. Major industrial schemes recommended for approval by the Licensing Committee relate to production of industrial explosives (5,000 tons per annum), sodium hydrosulphite (2,300 tons per annum) and hydrogen peroxide (1,440 tons per annum).

During 1954, the chemical industries made further progress. Out of 134 items at present manufactured in the country, production of all but 37 recorded an increase during the year. Among new products manufactured for the first time in the country during the year are : Sheet glass of 10-12 oz. gauge; penicillin; chloromycetin; glucial acetic acid and acetic anhydride; and bismuth salts.

The year 1955 continued the progress made in the previous year. In some cases, the record was improved. Substantial increase was registered in the production of soda ash, calcium chloride, benzene, sulphur black, chloramphenicol, sodium salicylate, phosphoric acid, benzene hexachloride, naphthalene and sulpha drugs. Penicillin, ammonium chloride and bismuth salts were manufactured for the first time and steps have been taken for the production of vat dyes, naphthols and bases, hydrogen peroxide and stabilised bleaching powder.

During 1956, production was maintained at a steady rate with regard to most chemicals. Among the chemicals produced for the first time were hydrogen peroxide, D.D.T., P.A.S., Salicylic acid, Vat dyes, particularly dark blue B.O. and Jade green, some napthols and optical bleaching agents. Substantial increase in production was reported in respect of ammonium chloride, bleaching powder, chlorine, copper sulphate magnesium chloride, zinc chloride, benzene, carbon-di-sulphide, penicillin, Sulpha drugs, sulphur black and sodium salicylate.

There was, however, a slight fall in production of calcium carbide in 1956 as compared with the previous year. The utilisation of chlorine still remains an important issue, with its bearing on the development of electrolytic caustic soda industry in India, and is, therefore, being progressed.

The Development Council for Heavy Chemicals (Alkalis) was initially constituted in 1955 and it completed two years of tenure by the end of March 1957. During 1957, the Council was reconstituted under the Chairmanship of Shri. C. R. Rao of M/s Tata Chemicals Ltd., who was also the Chairman of the first Council. The Council, during its two years of tenure of office, met several times and organised visits by its members to several factories falling within its purview.

Among the work done by the Council were the maintenance of systematic liaison on behalf of the industry with the offices of the Chief Adviser, Government of India, the Planning Commission, the Ministry of Transport and the Ministry of Labour. An examination of the targets for production in the alkalis group of industries, the co-ordinating of production programmes and the review of the progress of different programmes from time to time were the items which received priority. The programme for industrial development as relating to the alkalis group, appearing in the Government of India's Second Five-Year Plan, is in many cases based on the recommendations made by the Development Council. Statistic of production were obtained from manufacturers regularly and the Council kept itself informed of reasons for shortfall of production, if any. The chlorine problem received considerable attention and was discussed also with the Acids and Fertilizers Development Council.

An important function entrusted to the Council is the suggesting of norms of efficiency with a view to eliminating waste and obtaining maximum production, improving quality and reducing costs. A Sub-Committee of the Council made certain recommendations explaining in detail how efficiency was to be computed and submitted to the Council for purposes of comparison. On the basis of this, information was collected from different manufacturing units producing electrolytic caustic soda and its circulation among members was widely appreciated.

In the matter of fuller utilisation of installed capacity, suitable recommendations were made to the Government wherever there was shortfall from extraneous factors such as inadequate supply, inadequate transport, inadequate coal allotment. In a particular case, where expert assistance was asked for by a factory, a sub-committee of the Council made recommendations after a visit and these were found extremely helpful to the party concerned. Consistent with improvement in production efficiency, the Council also impressed upon the producers the necessity of ensuring adequate satisfaction to the consumer. The results of State trading in soda ash and caustic soda and their distribution through nominated channels were kept under regular review. Standardisation received similar attention and the Council co-operated with the work of the Indian Standards Institution in the matter of evolving Indian Standards.

Another important function performed by the Council was the collection and formulation of statistics relating to the industries covered by the alkalis group. The adoption of measures for increasing productivity of labour is a question still under consideration and the Ministry of Labour has been requested to conduct a survey of the wages, amenities and service conditions in heavy chemical industries in both the public and private sectors.

SULPHURIC ACID

The regionwise distribution of the capacity at the end of the First Plan as compared to June 1952 was as follows :

	Annual Rated Capacity in Tons	
	June, 1952	April, 1956
Assam	6,600	6,600
West Bengal & Bihar	56,560	79,770
Bombay*	35,013	57,025
Punjab* & Delhi ..	14,955	12,380
Uttar Pradesh ..	5,775	5,445
Madhya Pradesh* ..	825	1,650
Madras*	13,530	15,180
Travancore-Cochin*		43,560
Rest of the Indian Union	56,183	20,395
Total ..	189,441	242,005

* Pre-reorganisation.

During 1955, the output of sulphuric acid increased by 4 per cent. over that of 1954. Six schemes for its increased production with a total capacity of 136,000 tons, were sanctioned during the year. It may be mentioned here that one of the schemes was intended to use pyrites as a raw material.

The production of sulphuric acid registered an appreciable increase during 1956 as compared with the previous year, the total quantity actually produced being 165,408 tons, as against 156,000 tons.

The trend of production in tons is as follows:

1948, 80,004 ; 1949, 99,456 ; 1950, 102,480 ; 1951, 106,932 ; 1952, 96,084 ; 1953, 109,091 ; 1954, 150,876 ; 1955, 156,000 ; 1956 : 165,408.

The Government fixed a ceiling price for sulphuric acid at Rs. 175 per ton ex-works, linking it to a price of Rs. 275 per ton for sulphur delivered to the works. Variations in the price of sulphuric acid have been provided for to allow for fluctuations in the price of sulphur.

The reduction in the price of sulphuric acid led to the closure of three chamber plants with capacities less than seven tons of acid per day. However, the capacity of 10 contact plants have been raised with the result that, although the number of units on production has gone down from 39 to 36 during 1956, the installed capacity has gone up from 209,000 tons in 1955 to 245,000 tons per annum.

The annual consumption of sulphuric acid in different industries in 1955-56 was estimated at 160,000 tons and was estimated to rise to 470,000 tons by 1960-61. The following picture is expected to emerge at the end of 1960-61 :—

	1955–56	1960–61
Annual rated capacity (tons of 100 per cent. acid)	242,000	500,000
Actual production (tons of 100 per cent. acid) ..	170,000	470,000

ALKALI INDUSTRY

The alkali industry comprises the manufacture of soda ash and caustic soda, sodium bicarbonate, bleaching powder, benzene hexachloride, liquid chlorine and zinc chloride.

As against the rated capacity of 90,000 tons per annum, the production of soda ash in tons was as under :—

1948, 29,148 ; 1949, 17,916 ; 1950, 43,788 ; 1951, 47,532 ; 1952, 44,328 ; 1953, 56,868 ; 1954, 48,288 ; 1955, 77,268 ; 1956 : 84,240 ; 1957, 91,925.

The production of soda ash increased from 48,288 tons in 1954 to 77,268 tons in 1955, representing more than 85 per cent. utilisation of present installed capacity, to 84,240 tons in 1956. Three new licences for the production of soda ash were issued during 1955 and expansion of one of the existing plants was approved. With the implementation of the new schemes, the installed capacity would rise to 283,000 tons a year.

On the basis of the Tariff Board's report in 1951 the estimated consumption of soda ash was placed at 115,000 tons. This was expected to rise to 155,000 tons by 1955–56 and to 230,000 tons by 1960–61.

The import policy and the high prices since 1951 gave an impetus to this nascent industry though the heavy imports allowed in the first two years of the First Plan caused some temporary difficulties to indigenous producers owing

to accumulation of stocks. Actual imports were —92,312 tons in 1951-52; 81,288 tons in 1952-53; 40,017 tons in 1953-54; 67,710 tons in 1954-55; 71,017 tons in 1955-56; 71,784 tons in 1956-57 (April-December).

The tariff protection to this industry has been extended to the end of 1958.

The following table summarises the programme of development of the soda ash industry :—

	1955-56	1960-61
Number of units.. ..	2	5
Annual rated capacity (tons)	90,000	253,000
Actual production (tons)	80,000	230,000

In 1957 the production in tons of hydrogen peroxide was 611, of bleaching earth 1,715, of hydrochloric acid 9,936, of sodium bicarbonate 4,784.

Caustic Soda.—The industry made considerable progress during the First Plan. There were only 9 factories in operation in 1951 with an installed capacity of 27,552 tons. By 1955, the factories rose to 12 with a capacity of 44,300 tons.

Actual indigenous production of caustic soda and the associated chemicals in the post-war period was as under :—

Year	Caustic soda in Tons	Liquid chlorine in Tons	Bleaching powder in Tons
1951 ..	14,722	5,268	3,583
1952 ..	17,064	6,240	792
1953 ..	22,908	8,136	1,944
1954 ..	29,307	9,782	2,926
1955 ..	34,248	11,580	2,700
1956 ..	39,420	15,072	4,656

In 1957 the production of caustic soda was 42,457 tons, of liquid chlorine 15,693 tons, of bleaching powder 5,343 tons, of calcium carbide 3,600 tons.

Imports of caustic soda were 62,750 tons in 1951-52, 25,540 tons in 1952-53, 49,360 tons in 1953-54, 49,355 tons in 1954-55; 50,713 tons in 1955-56 and 75,713 tons in 1956-57 (January-December).

The Second Five-Year Plan envisages that the installed capacity of the industry will rise from 44,300 tons in 1955-56 to 150,400 tons in 1960-61 and actual production from 36,000 tons to 135,400 tons.

Four new units were expected to commence operation during the first half of 1957-58.

MISCELLANEOUS CHEMICALS

The present position of some of the important products is as follows :—

—	No. of units.	Annual rated capacity in tons.	Actual production in tons. 1955	1956
Alum	17	11,979	3,850	4,420
Aluminium sulphate	22	57,167	23,200	29,625
Ferrous sulphate	9	1,899	500	460
Copper sulphate	11	3,300	900	1,980
Sodium thiosulphate	5	2,120	976	914
Sodium sulphite	4	820	269	383
Sodium bisulphite	5	1,043	515	716
Bichromates	7	6,518	3,300	3,270
Sodium bicarbonate	2	4,620	4,125	4,452
Potassium chlorate	2	2,310	2,135	2,276
Zinc chloride	5	1,876	700	960
Calcium chloride	3	2,861	786	845
Magnesium chloride	4	39,600	6,111	8,540

FERTILISERS

So far in India the inorganic nitrogenous fertiliser almost universally employed has been ammonium sulphate. There are at present eight units in West Bengal and Bihar with a rated capacity of about 425,900 tons of ammonium sulphate per annum. The Sindri factory went into production in November 1951.

The output of ammonium sulphate has progressively risen from 45,395 tons in 1949 to 319,620 tons in 1953, to 340,222 tons in 1954 to 393,095 tons in 1955 and 389,017 tons in 1956.

Assuming country-wide application of nitrogenous fertilisers the annual needs would be about 12 million tons of ammonium sulphate.

In spite of the full utilisation of the capacity of the Sindri Factory, it has been necessary to import large quantities of nitrogenous fertilisers because of increasing demand. Production of ammonium sulphate at the Sindri factory went up from 321,000 tons in 1955 to 331,000 tons in 1956.

The Fertiliser Production Committee submitted its report in 1955 and suggested suitable location for the establishment of new plants.

As a part of the plans made by the Government of India for increasing fertiliser supply to 370,000 tons per annum by 1960-61, progress is being made rapidly in the expansion of the Sindri factory for the production of ammonium sulphatenitrate and Urea. Work on the establishment of another fertiliser factory at Nangal has been going well. It has been decided to set up a third factory at Neiveli in South India. After the implementation of the schemes both in the public and private sectors, it is expected that the annual installed capacity will be 882,000 tons of fixed nitrogen and the production 290,000 tons by 1960-61.

On 15th May 1957, the Government of India brought into force the Fertilizers (Control) Order 1957, with a view to regulating supply of chemical fertilisers of the prescribed standard to cultivators at fair prices. The order empowers the Central Government to fix the maximum price at which any fertiliser may be sold by a manufacturer or a dealer in a particular area and for a specific class of consumer with due regard to local conditions and other circumstances prevalent in that area.

The annual rated capacity for the production of superphosphates was 210,870 tons by the end of 1954. The factories are small and have survived because of import restrictions.

The production and consumption of superphosphates which received a setback in 1955 due to the fall in agricultural prices and rail transport difficulties recovered markedly during 1956. Production was: 105,058 tons in 1954, 74,160 tons in 1955 and 81,168 tons in 1956.

But in view of the importance of this fertilizer and that of ammonium phosphate the target of consumption is put at about 120,000 tons by 1960-61, when the production is expected to be 88,300 tons of superphosphate and 8,700 tons of ammonium phosphate.

The estimated needs of potassic fertilizers is roughly 30,000 tons by 1960-61 and it may be possible to recover about 52,700 tons from all the salt works in the country. In 1955, the Indian Potash Supply Agency was formed with the approval of Government, which is expected to assist the development of the production of potassic salts from the bitterns of salt works.

FINE CHEMICALS

The term "fine chemicals" is applied usually to substances such as photographic materials, drugs and pharmaceutical products, paints, pigments and varnishes, and dyestuffs. All the figures given below are in tons per annum except where otherwise stated.

The average annual demand has been estimated at 60 tons for calcium lactate, 80 tons for iron-ammonium citrate, 200 tons for potassium citrate and 50 tons for sodium citrate. Government have, on the Board's recommendation, converted the 36 per cent. standard and 26 per cent. preferential revenue duty on calcium lactate into a protective duty.

Production of bromine and bromides at one of the alkali works has been attempted and an annual output of 75 tons bromine, 36 tons potassium bromide and 14 tons sodium bromide has been recorded.

Coal, tar and wood distillation products are not sufficiently exploited to manufacture fine chemicals and even the war-time production of methanol and formaldehyde has been recently curtailed. Synthetic fine chemicals are yet to be turned out in India on a commercial scale.

Photographic Materials.—The basic chemicals required for the photographic industry are: (i) gelatin, silver halides and sensitizers in the coating of film, plate and paper base, and (ii) hypo sodium sulphite metal, hydroquinone and chrome alum in the processing stages.

Borax, boric acid, acetic acid and metal and photographic-grade sodium sulphite are still imported. The present capacity of sodium sulphite is 800 tons and output 300 tons which meets the full demand. Production capacity of 30 tons for potash chrome alum has been established. Hydroquinone is being manufactured in India since 1950 and the annual output is 25 tons. X-ray developing and fixing salts have been placed on the market since 1949.

Pre-war imports of raw film base into India were enormous, the film industry alone consuming some 80 million ft. per annum. The Celluloid Industries Panel has recommended the installation of a factory for manufacturing 50 million sq. ft. of all types of raw film, and this should synchronise with the manufacture of gelatin, silver halides, sensitizers and other photographic materials in adequate quantities.

Chemical.	Production. 1954	1955	1956	Main uses.
Acetic acid (tons)	1,009	2,376	2,484	Rayon, white lead, lead acetate, dyeing, rubber
Acetone (tons)	250	428	633	Solvent, explosives
Benzene (gals.)	6,23,000	25,46,800	3,43,024	Solvent
Creosote oil (gals.)	4,32,709	4,15,800	6,10,311	Insecticide
Naphthalene (tons)	6,71,029	8,90,000	9,52,000	Disinfectant, etc.

DRUGS AND PHARMACEUTICALS

Drugs and pharmaceuticals cover a large variety of products from simple extracts of vegetable drugs and glandular preparations to highly complex synthetic drugs and antibiotics.

In the field of antibiotics, a penicillin factory was established in the public sector. The Hindustan Antibiotics, located at Pimpri near Poona went into production in August 1955 with a capacity to produce 3·6 million to 9 million mega units of penicillin per annum. The production target of 4·8 million mega units fixed under the first Five-Year Plan was exceeded, with the production of 6·5 million mega units in 1955. During 1956, output touched 14 million mega units. The capacity is being expanded by 60 per cent. Chloromycetin is being produced by Parke Davis & Co. from the penultimate levobase which is imported. Their plant has a capacity of 3,600 kgs. Aureomycin is produced by the Atul Products from imported crude chlortetracyclin. They have also taken up the manufacture of teracyclin.

The manufacture of sulpha drugs has made substantial progress in the country. Twelve units, which are engaged in their production, are stated to have a combined capacity of 22,000 kgs. per annum, although their actual production has been far below this capacity.

Among the new drugs recently developed for the treatment of tuberculosis are para-amino salicylic-acid (PAS) and Isonicotinichydrazide (INH). But their production has been very erratic.

Two manufacturers produce at present anti-leprosy drugs such as DDS and its derivatives. They have a total capacity for 2,920 kgs. of DDS.

Quinine, the most extensively used anti-malarial drug, has been produced in the country in the factories established by the West Bengal and Madras Governments. During the First Plan period the Madras Government established a new factory at Annamalai with a capacity of 80,000 to 10,000 lb. of quinine salt. Besides, some synthetic anti-malarials such as chloroquin and its salts are produced in India. There are three units engaged in their manufacture, with an estimated capacity of 1,890 kgs. per annum.

There are three manufacturers of anaesthetics with a total capacity of 712,352 kgs. of ether, 54,370 kgs. of chloral-hydrate and 32,800 kgs. of ethylchloride.

Among insecticides, DDT is produced on a commercial scale. The factory of the Hindustan Insecticides in Delhi went into production in March 1955. Production in 1956 was 500 tons. The capacity of the factory has been doubled. Another D.D.T. factory is now being erected by the Government of India at Alwaye in Kerala with an annual capacity of 1,400 tons. This factory is expected to commence production in 1958. Two factories manufacture benzene hexachloride with an annual capacity of 2,500 tons.

No substantial development in vitamin manufacture has taken place during the First Plan period. Shark liver oil is produced in factories set up by the Governments of Bombay, Madras and Travancore-Cochin. The existing factories have an estimated capacity of 70,000 gallons per annum of 6,000 i.u.g. of vitamin 'A'.

Still imports of drugs and pharmaceuticals continue to be considerable, particularly penicillin and other antibiotics, sulpha drugs, anti-malarials, vitamin preparations and proprietory and patent medicines. The total value of imports stood at about Rs. 10 crores in 1950–51, Rs. 15 crores in 1951–52, Rs. 11 crores in 1952–53, Rs. 12 crores in 1953-54, Rs. 13 crores in 1954-55 Rs. 15 crores in 1955-56 and Rs. 12 crores in 1956-57 (April-December). But exports, which were mainly confined to certain crude drugs of vegetable origin, have been of the value of Rs. 3 crores per annum.

The Ministry of Commerce and Industry appointed a Committee in February 1953 and the Committee submitted its report in June 1954, making a number of recommendations to improve the existing conditions in the pharmaceutical industry. In 1955, the Government set up a Developmental Council for the industry.

The requirements of drugs and pharmaceuticals are very large in India. Hence, schemes are included in the Second Plan for the expansion of the production of various drugs and medicines.

Some of the important schemes are listed below:

The factory at Pimpri proposes to expand its capacity for penicillin manufacture to 24 million mega units per year at a cost of Rs. 42·35 lakhs. Besides, this concern has under consideration the manufacture of certain other antibiotics like streptomycin. In the private sector, the Alembic Chemicals, Baroda, have a scheme for the establishment of a penicillin factory with a capacity of 4·8 million mega units per annum and the Standard Pharmaceutical Works, Calcutta, for the production of 1·8 million mega units of penicillin and 180 kg. of streptomycin. Besides, the Rambaxy & Co., Faridabad, have also been given a licence to set up a plant for the manufacture of 3,000 kgs. of chloromphenicol as also the Mac Laboratories, Bombay for the manufacture of 500 kgs. per annum.

Two firms, Fedco, Bombay and Sarabhai Chemicals, Baroda, have been granted licences for the manufacture of procaine hydrochloride with an annual capacity of 60,650 kgs.

Three new schemes were licensed during 1956-57 for the manufacture of chloramphenicol. The production of isonicotinic acid hydrazide has commenced. About 200 lbs. were being produced a month.

Considerable expansion has taken place in the production of sulpha drugs, although such production is confined mainly to the processing of penultimate raw materials. However, manufacture of Sulpha dimidine has been started from more basic raw materials. A scheme for the production of other important sulpha drugs like elkosin was licensed during 1956-57 and other proposals for sulpha diazine and sulpha thiazole from more basic raw materials were under consideration.

The capacity for DDT in the public sector is planned to be stepped up substantially during the Second Plan. The annual capacity of the existing factory is to be expanded from 700 tons to 1,400 tons and a new plant will be set up with an annual capacity of 1,400 tons at Alwaye in Kerala.

There are at least 200 factories manufacturing paints and varnishes, but nearly 150 of them are very small in size. The bigger ones are concentrated in Bombay and Calcutta. Eighteen units with a capacity of 36,360 tons are in Calcutta, and 16 with an annual capacity of 18,360 tons are in Bombay. According to the Census of Manufacturing Industries (1953), the total capital invested in 46 units amounted to about Rs. 4·18 crores and the number of persons employed was about 4,980.

The aggregate installed capacity of the paints and varnishes industry is 64,800 tons. Actual production during 1956 was 41,424 tons, as against 39,036 tons in 1955.

An excise duty was imposed on paints and varnishes at 10 per cent. *ad valorem* with effect from March 1, 1955.

It is estimated that the consumption of paints, varnishes and enamels may go up from about 40,000 tons in 1955-56 to 60,000 tons in 1960–61. The demand for nitrocellulose lacquers may rise from about 3,00,000 gallons to 5,00,000 gallons. The existing capacity for ready-mixed paints and varnishes, i.e., 65,000 tons, is considered sufficient to meet the demand during the Second Plan; so also the present capacity of 8,00,000 gallons for nitrocellulose lacquers.

The following table summarises the development programme of the industry during the Second Plan:

	1955–56	1960–61
(*a*) Ready-mixed paints, varnishes, etc.:		
Capacity (tons) ..	65,000	65,000
Production (tons) ..	(estl.) 39,000	60,000
(*b*) Nitrocellulose lacquers:		
Capacity (gals.) ..	800,000	800,000
Production (gals.) ..	(estl.)300,000	500,000

PROTECTION

In general for the chemical industry as a whole, protection for the bichromates, calcium carbide, caustic soda, bleaching powder and soda ash is due to expire on 31st December 1958; for hydro-quinone, stearic acid, oleac acid on 31st December 1959; for titanium dioxide on 31st December 1961; and for dyestuffs on 31st December 1964.

COFFEE INDUSTRY

COFFEE cultivation is mainly confined to the hilly tracts of south India, from one thousand to six thousand feet above the mean sea level, and is centred in the Malnad area of Mysore, Madras and Kerala. In the lower elevations, which have a higher rainfall, the more delicate but better quality Arabica coffee has given place to the harder but coarser Robusta coffee.

The capital investment in the industry is estimated to be over Rs. 15 crores and the average annual value of the crop is over Rs. 8 crores. Nearly 176,000 people drawn chiefly from Kerala, and parts of Mysore are employed in the industry. Many of the coffee estates are inter-planted with orange trees, cardamom and pepper vines. There are about 50 species and sub-species of coffee plant in the country, the one most extensively cultivated being Coffee Arabica, the best in quality, with Robusta coming next in importance.

The area and production, of the two varieties of coffee from 1951 are as under:

AREA IN THOUSAND ACRES

Year	Arabica	Robusta	Total
1951-52 ..	168	67	235
1952-53 ..	168	72	240
1953-54 ..	169	77	246
1954-55 ..	167	85	252
1955-56 ..	162	92	254

PRODUCTION IN TONS

Year	Arabica	Robusta	Total
1951-52 ..	14,390	6,845	21,235
1952-53 ..	12,740	10,825	23,565
1953-54 ..	22,740	6,815	29,555
1954-55 ..	16,165	8,860	25,025
1955-56 ..	22,465	11,770	34,235
1956-57 ..	29,325	12,675	42,000

Increase in production has been followed by a rise in exports and internal consumption.

The following table gives the trend of exports:

Year	Exports in Tons*
1951-52	2,200
1952-53	3,000
1953-54	9,613
1954-55	3,525
1955-56	7,954
1956-57	15,155

* Out of the season's crop.

The latest estimate of the total production of coffee for 1956-57 puts it at the record figure of 42,000 tons.

The revised estimate of the production in 1957-58 is 37,000 tons (24,000 Arabica, 13,000 Robusta).

The quantity available for home consumption would be 26,845 tons.

The consumption in 1955 was 22,288 tons.

There is no export duty on coffee at the moment (Oct. 1957).

The possibility of further expansion of the coffee industry has been receiving Government's active consideration. An Officer on Special Duty had been appointed to conduct a field survey of the vast undeveloped areas in the South.

This officer who made his surveys along with the Chemist, Coffee Research Station, Balehonnur had completed his field surveys of Madras and Mysore except Nilgiris and Tinnevelly in the former State. He had also submitted a report on The Andamans. His term of office had been extended till September 1957.

The average Pool sale prices per cwt. for 1951 to 1956 years were as follows:—

Year	Plantation 'A'	Arabica cherry Flats	Robusta cherry Flats
	Rs. a.	Rs. a.	Rs. a.
1951	218 11	197 14	196 6
1952	251 11	220 5	200 11
1953	219 4	188 14	150 1
1954	205 3	164 2	146 5
1955	217 5	180 11	158 14
1956	213 7	182 10	157 4

COFFEE BOARD

To stimulate internal consumption and to regulate exports a statutory body, now known as the Coffee Board, was set up under the Coffee Market Expansion Board. One of the serious problems the Board had to contend with in 1952 was the growing rise in the prices of coffee which advanced from Rs. 207 per cwt. of plantation type in April 1952 to a record level of Rs. 316 per cwt. in the following September. The Board effected increased sales of coffee and banned exports. In December 1952 a Bill was introduced in Parliament to amend the Act of 1942 for the purpose of ensuring better co-ordination between the Board and the Central Government and of providing adequate representation of consumer interests on the Board.

The Coffee Market Expansion (Amendment) Bill, 1954, was passed in November 1954. The bill provided for greater control by the Union Government over the Coffee Board and the industry as a whole.

AVERAGE INDEX NUMBERS OF WHOLESALE PRICES OF COFFEE

(Price for week ended August 19, 1939 = 100).

Year	Index
1950	476
1951	567
1952	680
1953	620
1954	546·8*
1955	616·0*

* Geometric mean of monthly averages.

MARKETING

Under the existing scheme of Coffee Control, all coffee estates in the country, big or small, are required to get themselves registered and to deliver the entire production, except quantities allowed for domestic consumption and seed purpose, to a Common Pool administered by the Coffee Board. Growers are paid in proportion to the value of coffee delivered to the Pool after deducting the cost.

The quantities of coffee released from the Coffee Pool for the internal market were 22,288 tons in 1955 and 23,807 tons in 1956.

Plantation Enquiry Commission

The Report of the Plantation Inquiry Commission (as the Committee was called) on coffee was published in the last week of November 1956. It observes that, although the total production of coffee in the country has increased considerably during the past 15 years, production per acre has not made any marked increase. The average yield is still just about 60 per cent. of the average yield in most of the coffee-growing countries of the world. Therefore, the Commission recommends that the yield from existing acres must be intensified at economic cost by the use of better strains of seeds, more manures and sufficient spraying against pests and diseases. With a view to regulating the internal distributive trade, the Commission has suggested the formation of a separate organisation under the aegis of the Board for manufacturing and marketing coffee powder. It may be stated here that the Board is already manufacturing and selling coffee in powder form. On the question of extension of acreages, the Commission recommends extension upto the minimum necessary to meet the growing internal demand and to maintain and develop the export markets. Statutory regulation of licensing of cultivation and production has been suggested in this connection. Another recommendation is that a coffee replanting fund should be instituted and that estates should be required to contribute a fixed sum annually to this fund.

These recommendations are under the consideration of the Government of India.

COIR INDUSTRY

COIR is the trade name given to the fibre obtained from the husk of the coconut fruit. This golden coloured fibre is also known in Europe as "Cocos Fibre". India and Ceylon have a virtual monopoly in the production of this by-product of the coconut industry.

In India the coir industry is practically confined to the coastal strip of Kerala State. It accounts for over one million acres of the coconut growing areas out of a total of 1·520 million acres in India. The distribution of the area under cultivation and production of coconuts (latest available) is roughly as follows :—

	Area in acres.	Production Percentage.
Madras*	605,765	41·3
Travancore ..	584,736	37·8
Cochin	67,058	4·3
Mysore*	170,180	11·3
W. Bengal ..	31,300	1·4
Orissa	30,021	1·8
Bombay*	20,197	1·8
Other States ..	7,592	0·3
	1,525,759	100·0

*Pre-reorganization.

The coir industry is organised partly on cottage basis and partly in factories. The production of coir fibre, yarn and ropes is essentially a cottage industry, while coir mats, mattings, rugs, carpets, bags, etc. are manufactured in factories. About 300,000 people earn their living from this industry in Travancore alone and 50,000 in Cochin and about one lakh in Malabar.

There are two principal types of coir fibre—mat fibre and curled fibre. The bulk of the output consists of mat fibre. The yarn spun by hand is soft and even twist, while that spun on wheels is hard twist and not so even as hand spun. Wheel spinning is gradually displacing hand spinning. Spinning is mainly done by women, boys and girls. Over 100,000 families are employed in this trade in Travancore alone.

Coir yarn has certain well-known trade descriptions. They are: (1) Angengo—Superior and Ordinary; (2) Mangadan; (3) Carruva; (4) Alapat—Real and Imitation (Ashtamudy); (5) Vycome; (6) Beach; (7) Roping; (8) Quilandy; (9) Beypore; and (10) Unsoaked—Fine unsoaked and unsoaked.

The yarn produced in the spinning districts is marketed chiefly in Alleppey where there are a large number of factories for the manufacture of mats, mattings, rugs and carpets and also exporters of yarn.

Out of the 120,000 tons of coir fibre produced in India, only 600 tons are exported; the rest is spun into coir yarn. On an average, 23,000 tons of coir yarn are utilised in the manufacture of coir floor coverings such as mats and mattings; 45,000 tons are exported as coir yarn; and about 52,000 tons are consumed in India itself for various purposes including manufacture of ropes and cordages.

In 1948 there were about 525 factories of which 474 were small ones with less than 20 looms and the rest large factories with more than 50 looms, having in all about 16,000 looms on mats and mattings.

About 15,000 workers were engaged by these factories.

Following are the estimates of coir—manufactured and unmanufactured :—

State.*	Production (Tons).
Madras	25,038
Travancore-Cochin	97,000
Mysore	Not available
W. Bengal	225
Bombay	63
Total	132,326

* Pre-reorganization.

The coir industry in India is subject to violent fluctuations in prices and exports, causing often hardship to a large section of the population. This induced the Government of India to set up a Coir Board by special legislation called the Coir Industry Act, 1953. The Act also provides for the control of the industry by the Union Government and for the levy of a customs duty on coir fibre, coir yarn and coir products. At present, the duty is levied on coir fibre and coir yarn only at the rate of eight annas per cwt. The annual revenue on this account comes to about Rs. 5 lakhs.

The Coir Board was established on July 6, 1954. Its chief function is the improvement of markets at home and abroad, thereby establishing a balance between internal consumption and exports so as to give the industry the required economic stability. The Board shall discharge its functions in accordance with the rules framed by the Central Government, which are under active consideration now. Meanwhile a delegation of the Board toured the country to find out how far the 50 per cent of the husk now used as fuel could be put to industrial use.

In the Second Five-Year Plan, the Board has schemes worth about Rs. 30 lakhs. They relate to the establishment of Research Institutes, sending out foreign delegations for market survey and study the uses of yarn in importing countries, opening of show-rooms and sales-depots, and propaganda.

In view of the importance of the coir industry as a foreign exchange earner, the Government of India has now enhanced the overall allocation for development of the industry for the Second Plan period to Rs. 1·70 crores, against Rs. 1 crore originally provided in the Second Plan.

The allocation for State schemes has been increased from Rs. 70 lakhs to Rs. 1·40 crores. The State Governments have been requested to consider the desirability of enlarging their programmes for development of the industry.

An increase of about Rs. 60 lakhs in the value of exports of coir fibre, yarn and other coir manufactures was registered during the first ten months of 1956-57 as compared with the corresponding period of the previous year.

The total exports of coir and coir goods during the period April 1956 to January 1957, were 67,200 tons, valued at over Rs. 8·04 crores as against 60,700 tons valued at Rs. 7·45 crores during the corresponding period of 1955-56. The exports during the complete year 1955-56 were valued at over Rs. 9·09 crores, as against Rs. 8·55 crores in 1954-55.

A sum of Rs. 4·3 lakhs was earmarked during 1957-58 for taking steps to increase the sale of coir goods within and outside India.

EXPORTS

Export of coir yarn, mats and mattings, ropes and other sorts of coir are detailed below :— (Tons)

Year.	Coir yarn.	Coir mats and mattings.	Coir ropes.	Other sorts.
1951-52	45,269	11,510	5,869*	4,790
1952-53	48,446	12,408	4,422*	4,087
1953-54	55,570	13,486	3,930	7,031
1954-55	53,428	14,505	4,290	8,532
1955-56	54,162	13,936	5,055	6,117
April-Dec. 1956	46,404	10,266	3,800	3,637

* Includes export to Pakistan by land.

COTTAGE INDUSTRIES

TOTAL allotment for small-scale and cottage industries under the First Five-Year Plan: Rs. 31·2 crores.

The financial provision made in the Second Five-Year Plan is Rs. 200 crores. This does not include expenditure on the Ambar Charkha Programme and other Working Capital requirements. The Village and Small Scale Industries Committee (Karve Committee) had, however, recommended programmes and allocations involving a total outlay of Rs. 260 crores.

It is customary to refer to industries which are not required to be registered under the Factory Act as cottage and small-scale industries. There is no accepted line of distinction between cottage and small-scale industries but the use of electric power is one of the popular tests. A rough and ready definition now provided is that all those industries which employ up to 5 workers and use power or those which employ 100 workers and do not use power, are called small-scale industries.

An investment upto Rs. 5 lakhs and not more than 50 workers a shift is also regarded as a demarcation.

The data about their strength is extremely meagre. It is, however, very roughly estimated that at least 22 million persons are gainfully employed in these industries classified as under :—

Name of Industry	Persons employed in lakhs.
Textiles	55
Leather	24
Wood	21
Metals	42
Pottery, Ceramics, Tiles, Bricks, etc.	20
Vegetable Oils, Chemical Products, etc.	10
Food including Hand-pounding ..	20
Dress and Toilet	11
Miscellaneous including jewellery and toy making	17
TOTAL ..	220 (Estimated)

In order to encourage more effectively the development of cottage and small-scale industries, the All-India Cottage Industries Board, constituted in 1948, was replaced by two Boards, viz., The All-India Handicrafts Board and The All-India Khadi and Village Industries Board (later turned into a commission). The former was constituted in November 1952, and the latter in February 1953. Other organisations are (i) Small-Scale Industries Board, (ii) The Coir Board and (iii) The Central Silk Board. The Coir Board and the Central Silk Board are statutory bodies.

Towards the end of 1952 the Government also constituted the All-India Handloom Board to deal specifically with problems affecting the handloom industry. A cess of three pies per yard has been levied on all mill-made cloth consumed within the country and is expected to yield every year about Rs. 6 crores. Schemes for the development of khadi and handlooms are to be financed out of this resource, though finances for khadi development programmes are not entirely dependent on the Cess Fund.

The Cottage Industries Directorate has been merged as a part of the Development Wing and is responsible, generally, for all small-scale industries.

The primary objective of the policy laid down under the First Five-Year Plan is to provide a field within which each cottage industry may be able to organise itself. Wherever a large-scale industry competes with a cottage industry, a common production programme should be evolved.

The programme may cover (*a*) reservation of spheres of production, (*b*) non-expansion of the capacity of a large-scale industry, (*c*) imposition of a cess on products of a large-scale industry, (*d*) arrangements for the supply of raw materials and (*e*) co-ordination for research, training, etc.

To carry out research, the establishment of an institute for village technology has been recommended by the Planning Commission.

Finance for the development of village industries has to be viewed as a problem inseparable from finance for agriculture. The formation of industrial co-operatives is, therefore, considered essential. Meantime, the responsibility for revitalising village industries has devolved on the Government.

In the States the First Five-Year Plan provided Rs. 12 crores for cottage and small-scale industries. The responsibility for organising industrial co-operatives lies on the State Governments.

The question of training the artisans has received considerable emphasis in the First Five-Year Plan. The training centres maintained by the Central Government under the Directorate-General of Resettlement and Re-employment have trained during the past few years 144,000 persons.

The Ministry of Rehabilitation has arranged for the technical training of 52,000 persons from West Pakistan.

The plans of the State Governments provided for the following training programmes :—

	1950-51	1955-56
No. of Industrial Schools	365	456
No. of pupils trained ..	14,750	21,797
No. of technical and vocational institutions ..	260	407
No. of persons trained ..	26,708	42,997

In February 1955, a Small Industries Corporation, designed to assist small industries, was registered as a private limited company under the auspices of the Government of India. The Corporation will accept contracts for supplying orders to Government and issue sub-contracts for these goods to small-scale industries. The Corporation also undertakes and guarantees loans to such units from banks and has an authorised capital of Rs. 10 lakhs subscribed entirely by the Government of India.

TEXTILES

In the main, these are composed of two units—handlooms and khadi.

The details about the handloom industry have been given in the article on the cotton textile industry. Suffice it to say that there are about 2·9 million handlooms, working 200 days a year with an annual output of 1,200 million yards. The production in 1954-55 was about 1,300 million yards compared to 1,208 million yards in 1953-54. The production in 1955-56 was 1,470 million yards, and in 1956-57 it was 1,600 million

The problem in 1953 as in the previous year was of finding an adequate market for handloom cloth. In January 1953 the Government restricted production by mills of bordered dhoties to 60 per cent of their production during 1951-52. This measure succeeded in bringing down the overall production of dhoties to within the required quota, *i.e.*, to about 30,000 bales.

But there were difficulties in the way of enforcing this measure and it was, therefore, decided that a more effective way of enforcing compliance with the objective would be to levy an additional excise duty on the production of dhoties over and above this percentage.

Financial assistance to the handloom and Khadi industries is being provided by Government out of a cess of 3 pies per yard on mill-made cloth. This is expected to bring in a sum of Rs. 6 crores every year. During 1953-54, the actual expenditure on khadi from the cess fund amounted to Rs. 1·88 crores. As regards village industries the All-India Khadi and Village Industries Board spent Rs. 131·35 lakhs during 1953-54.

The handloom industry had a better time in 1954. Adequate supplies of yarn were made available. A network of sales depots had also been opened at various places. On the recommendations of the Board, the Government sanctioned a sum of Rs. 544·11 lakhs to the States from the cess fund upto the end of September 1954 for the implementation of various schemes.

Schemes to supply better equipment to handloom weavers, provide working capital to weavers in co-operatives and facilitate marketing of handloom cloth were approved by the Government of India early in 1955.

Over Rs. 27 lakhs were sanctioned by the Union Ministry of Commerce and Industry to different States for implementing the schemes.

On the question of reservations of the fields of production, the Textile Enquiry Committee has come to the conclusion that the existing reservations in favour of the handlooms or improved handlooms and the domestic powerlooms industry must continue. At the same time, the Committee expresses the opinion that there should be, during the first conversion period, that is to say, upto 1960, no further extension of these reservations.

While the Committee agrees that the reservations should also extend to the large-scale powerlooms, *i.e.*, units containing five or more powerlooms, this sector of the industry should be definitely warned that after 1960 it will be considered to be on the same footing as the large-scale organised mill industry and that it can expect no concessions. As there is a concentration of the powerloom industry in the State of Bombay, the Committee recommends that the Government of Bombay should conduct such enquiry as it may deem fit into all matters affecting the industry and take steps to facilitate an increase in the economic efficiency of the powerloom industry by a change in the character of its production, if necessary, and by the provision of centralised warping, winding, yarn supplies on beams, dye-houses, finishing plants, etc.

The Committee is of the opinion that there should be no prohibition on handlooms from producing plain cloths like mulls, voiles, etc. The recommendations of the Committee are under consideration.

The main emphasis of khadi is to minimise the pressure of the problem of under-employment.

Calico printing is an old industry in Farukhabad and Ahmedabad and is now extended to most of the other cities. Over 25,000 people practise this art. In Farukhabad alone there are over 2,000 printers. The industry's products have a wide export market. During 1952 the cotton mills printed about 30 million yards. The question of reducing mechanised printing is under examination, and it has been decided that no more expansion of the mill industry for garment-making and printing of cloth should be permitted.

Silk weavers are found in nearly every State. Assam and W. Bengal are, however, the largest producers of silk accounting for two lakh looms and 15,000 looms respectively.

India is the only country where tussar, eri and muga silk is produced.* The industry produces about 2 million lb. of silk and employs about a lakh of people. The annual consumption is about 3 million lb. with the result that a considerable quantity of raw silk is imported from abroad. The industry is now heavily protected and a Silk Board has been constituted to promote its growth. The progress made by the Board was, however, not appreciable. The constitution of the Board was amended so as to

* There are no reliable statistics.

bring in wider representation and also to bring in the entire silk-industry in its purview. For the year 1953-54 an allotment of Rs. 16 lakhs was made by the Centre against an average of Rs. 3½ lakhs in the preceding years.

The Government placed a sum of Rs. 30 lakhs in 1954-55 at the disposal of the Central Silk Board for financing various State Government schemes. Besides the old schemes, new schemes costing Rs. 20 lakhs for the promotion of the industry were launched in January 1955.

KHADI & VILLAGE INDUSTRIES

Khadi.—Cotton Khadi which has so far been woven from traditional charkha yarn will be produced in future in greater measures from Ambar Charkha yarn. Besides, the Textile Policy announced recently has allotted a production of 300 million yards of cloth for the decentralised spinning sector during the Second Five Year Plan period. Production of traditional khadi is proposed to be raised from 34 million yards to 60 million yards in the course of the Second Plan at a total expenditure of Rs. 21 crores including working capital, but this programme may have to be revised so as to fit in in the Ambar Khadi programme.

Government sanctioned to the Khadi Board Rs. 3·96 crores for the manufacture and introduction of 75,000 Ambar Charkhas during 1956-57. Substantial progress has so far been made in every direction. The Government tentatively accepted the Khadi Board's programme for the introduction of 150,000 Ambar Charkhas during the second year of the Second Five-Year Plan*. To produce the allocated 300 million yards by the end of 1960-61, it is estimated by the Board, that at least 800,000 Ambar Charkhas will have to be introduced. This programme is estimated to cost about Rs. 60 crores. The programme, if implemented will provide over the Plan period employment to 1,200,000 spinners, 166,700 weavers and about 50,000 persons in other ancillary processes.

Khadi, Woollen.—Spinning and weaving of wool are easier than that of cotton. At present the cottage industry has confined its activities to the production of carpets and kamblies.

The development programme for Woollen Khadi aims at increasing the production of blanketing cloth from about 250,000 yards in 1956-57 to one million yards in 1960-61, all sub standard cloth from 5 lakh yards to 15 lakh yards. These targets are to be achieved by organizing nine production centres in the principal woollen producing areas by the establishment of five finishing centres and two dyeing plants at an estimated total outlay of Rs. 1 crore. The programme when implemented will provide employment to 28,639 persons and distribute Rs. 3 lakhs as wages over the Plan period.

THE COMMISSION

In November 1956 Parliament passed the Khadi and Village Industries Commission Act (Act 61 of 1956) and the Commission was constituted on April 1, 1957.

Members :

Vaikunth L. Mehta (*Chairman*), Pranlal S. Kapadia (*Secretary*), R. Srinivasan, Sriman Narayan, Dwarakanath V. Lele.

The functions of the Commission will generally be to plan, organise and implement programmes for the development of Khadi and Village Industries.

In particular, the Commission may take such steps as it may think fit :

a. to plan and organise the training of persons engaged in the production of khadi or in village industries ;

b. to build up a reserve of raw materials and implements and to supply them to persons engaged in the production of khadi or in village industries at such economical rates as may be suitable in the opinion of the commission ;

c. to provide for the sale and marketing of khadi or of products of village industries ;

d. to encourage and promote research in the technique of production of khadi or in the development of village industries, or to provide facilities for a study of the problems relating to khadi or village industries ;

e. to maintain or assist in the maintenance of institutions for the development of khadi or village industries ;

f. to undertake, assist or encourage the production of khadi or the development of village industries ;

g. to promote and encourage co-operative efforts among manufacturers of khadi and persons engaged in village industries ;

h. for ensuring the genuineness of, and for granting certificates to producers of, or dealers in, khadi or the products of any village industry ;

i. to carry out any other matter which may be prescribed.

The Schedule of Industries included in the Act and which comes under the purview of the Commission is as follows : Bee-keeping ; Cottage Match Industry ; Cottage Pottery Industry ; Cottage Soap Industry ; Flaying, curing and tanning of hides and skins and ancillary industries connected with the same and cottage leather industry ; Ghani Oil Industry ; Hand-made Paper ; Manufacture of Cane-gur and Khandsari ; Palm-gur making and other palm-products industry ; Processing of cereals and pulses ; Fibre (other than Coir) ; Blacksmithy and Carpentry.

AMBAR CHARKHA

The Ambar Charkha Programme for 1957-58 was originally as follows :

Rs. 10·5 crores would be given as loans and Rs. 4 crores as grants.

About 1,80,000 Charkhas would be manufactured and 1,50,000 would be distributed to trained spinners for independent operation.

But the response to the programme being below expectation, the scheme was scaled down towards the end of the financial year 1957-58.

Against the target of 180,000 charkhas, the authorities expected to distribute only 115,000 in 1957-58.

The allocation for 1958-59 has been further reduced to 100,000.

The budget allocations have been similarly halved : although Rs. 10 crores were provided under this head for 1957-58, only Rs. 5 crores are expected to be spent, which is also the provision for 1958-59.

The position at the end of August, 1957 was as follows :

Number of Charkhas manufactured 1,14,688.

Number of Charkhas distributed 77,192.

Production of Yarn 17·32 lakh lbs.

Production of Cloth 4·6 million sq. yds.

The greater part of the manufacture of Ambar Charkha was done in the 94 decentralised Saranjam Karyalaya established by the Khadi & Village Industries Commission by the end of August, 1957.

Out of the 35 Vidyalayas set up for training instructors, 30 were functioning by the end of August, 1957. 3,912 instructors were trained and 1,158 instructors were under training by the end of August, 1957. Besides 89,449 spinners and 1,278 carpenters were also trained.

By the end of August, 1957 Rs. 3·3 crores had been disbursed in connection with the Ambar Charkha Programme.

It is estimated that about 73,000 persons had been provided with employment till the middle of 1957.

The following is a description of the Ambar Charkha :

The Ambar Charkha is a four-spindle, hand-operated wooden spinning wheel, 21 inches long, 16 inches broad and 21 inches high, weighing 26 lbs. Apart from the frame made of seasoned wood, there are three wooden multi-grooved pulleys, one with four grooves, another with three and the third with two each of which is connected with the main hand-operated wheel by cotton bands.

The iron parts of the Charkha consist of four-spindle rings, four fluted rollers, one pair of gear wheels, harwar boss, travellers and springs. Besides these, there are four pairs of rubber rollers over the metal-fluted rollers, about 1¼ inches broad.

The specially made tubular slivers, which are kept in a bundle on the off-side of the Charkha, are delivered through the fluted rollers into a small wire ring, and get twisted due to the fast revolving spindles. The winding of the yarn is made automatic through the traveller and the spinning ring.

The revolutions of the spindles average 7,000 to 9,000 per minute depending on the number of revolutions of the main wheel, which is linked to the spindles through cotton bands. The counts of yarn can be varied by shifting the band from one groove to another of the grooved pulleys and also by variations in the size of the tubular slivers used for spinning.

The present rated capacity of the Ambar Charkha is to spin counts of yarn from 12s to 40s, although counts of 40s and above can be spun, depending on the types of cotton and slivers made therefrom. In fact counts of 130s have been spun on the Charkha as an experimental measure. Though high count yarns have thus been spun on it, the Ambar Charkha is mainly directed to produce coarse and medium counts of yarn.

The rated or average capacity of the Charkha is taken at 8 hanks per day of 8 hours from cotton to spinning, or 16 hanks of yarn taking only spinning. Winding of yarn in each case is separate.

The Ambar Charkha, as it has been evolved, is simple in structure and mechanism, and all its parts, except the traveller, are either locally available or can be easily made locally. Experience in its manufacture shows that after initial training the village carpenters are capable of assembling the Charkha and servicing it efficiently. While the wooden frame can be easily made to standard size, all iron and rubber parts need to be made at factories.

An Ambar Charkha set consists of a carding and a drawing machine besides the Charkha, collectively estimated to cost Rs. 100. The arrangements to manufacture replaceable parts at selected central factories are expected to bring down the cost by Rs. 10/20 to Rs. 90/80 per Charkha set. Thus, the present four-spindle wooden Ambar Charkha evolved from the original model of it constructed by Mr. Ekambaranathan, satisfies almost all the criteria prescribed by Gandhiji.

Comparative analysis of the yarn spun on the Ambar and ordinary charkhas shows that the yarn on the Ambar Charkha has a tensile strength of 70 to 100 per cent as against an average of 60 to 70 per cent of the yarn on the ordinary charkha.

Government had a Rs. 3·96 crores scheme for the Ambar Charkha during 1956-57: manufacture of 75,000 charkha sets, establishment of 15 additional vidyalayas, 200 more parishramalayas, 50 more workshops, five main production centres, 10 sub-centres. At the time there were 15 vidyalayas and 100 parishramalayas.

OTHER INDUSTRIES

Coir-Making.—The aggregate production of the coir industry is approximately 1·3 lakh tons and supports about 4½ lakh persons. Exports

* The final programme as decided is for 115,000 machines. See below under 'Ambar Charkha'.

of coir products including coir yarn in 1954 were 14·8 lakh cwt. as against 14·5 lakh cwt. in 1953. A Coir Board has been set up to tackle the difficulties of the industry which is an important contributor to export earnings. The industry is mainly concentrated in Kerala and the State's plan lays down an elaborate programme for its development. The Coir Industry Act was brought into force from February, 9, 1954. During the year, the Government had sanctioned Rs. one lakh to the Board for its various activities. In addition, the Government had given a loan of Rs. 4 lakhs and a grant of Rs. one lakh to the Travancore-Cochin* Government for the organisation of Coir Co-operative Societies.

Village Oil Industry.—The Indian Central Oilseeds Committee has decided to start demonstration centres of improved ghanis in each of the Community Project areas and has recommended to the Government of India to levy an additional cess of one anna per maund for the first five years, and two annas per maund thereafter for financing the development of the village oil crushing industry. An attempt has been made to improve the efficiency of ghanis and several models of improved ghanis have been introduced.

Under the Essential Supplies Act, the Government of India has delegated powers to State Governments to check the indiscriminate growth of oil mills. Under the Industries (Development and Regulation) Act the Union Government is competent to prevent further growth of the large-scale industry.

The All-India Khadi and Village Industries Board has recommended that the crushing of sesamum oilseeds should be completely reserved for the ghanis. It has also suggested the allocation of quantities of different oilseeds to mills and to ghanis. The Oilseeds Crushing Enquiry Committee was set up in January 1955.

During the First Five Year Plan period the total amount allocated to the Khadi Board for the development of this industry was Rs. 43·93 lakhs. Production of oil during this period amounted to 69,495 B. Maunds which provided employment to 8,607 telis. 104 Model Production Centres have been set up and 1,463 improved ghanis introduced. 7,067 old and 1,540 new ghanis have been registered with the Khadi Board during the period.

The Village and Small Scale Industries (Second Five Year Plan) Committee examined the programme for the development of this industry under the Second Five Year Plan and proposed that measures should be adopted for discouraging and, wherever necessary, regulating on a regional basis the crushing of sesamum, nigar and karadi seeds by the mills. In view of the difficulty experienced by ghani owners even when organised co-operatively to secure supply of oil seeds in a highly competitive market, it will be necessary to organise marketing arrangements with a view to ensuring requisite supplies of oil seeds from season to season. It has also been suggested that no new oil mills should be allowed to be set up except in areas where it is not possible to adopt alternative methods of crushing oil seeds and that the proceeds of cess levied on existing mills should be utilised for improving the technical equipment and marketing facilities of the ghani industry. It is also proposed that interest-free loan should be given to village oil men so that they can become shareholders of co-operative societies.

The development of the vegetable oil industry depends in part on the possibilities of diverting larger supplies of edible oil seeds to ghanis for crushing and on the possibilities of inducing oil mills to utilise greater quantities of cotton seeds. In the Second Five Year Plan, the Board has proposed extension of assistance to one lakh telis on ordinary ghanis and fifty thousand telis on improved ghanis to purchase shares of co-operative societies with a view to improving their operative conditions. 400 Model Centres are proposed to be organised and 400 filter presses will be distributed among these centres. The total cost of the programme is estimated at Rs. 6·7 crores excluding working capital.

The development programme when implemented will provide employment to 1·5 lakh telis and distribute Rs. 26·70 crores as wages over the Plan period. Total production of oil over the Plan period is estimated at 8·3 lakh tons of oil, 13·93 lakh tons of oil-cake, collectively valued at Rs. 200·63 lakhs.

The implementation of the programme depends on the provision of direct assistance for marketing of oil. To encourage telis working on the improved ghanis to form themselves into co-operative societies and to market their oil through them and also to offer partly the price differential between mill and ghani oil, the Board has proposed a subsidy of Rs. 1-14-0 per B. Maund of oil sold.

Besides providing direct employment to telis, the industry will provide employment to 5,000 people and many other artisans like carpenters, blacksmiths, etc.

Paddy Husking.—Hand pounding of rice is an important village industry. It processes about 65 per cent of the paddy. The First Five-Year Plan aimed at improving the hand process for increased recovery of rice and production of bran in a pure form by introducing paddy husking stone chakkis in place of the pounding method.

The Food Ministry has declared that the huller type mills are a destructive type of equipment for milling, particularly raw rice. Under the Essential Supplies Act, the Union Government is competent to prohibit the establishment of rice mills. At present there are 15,000 huller mills in the country. The All-India Khadi and Village Industries Board has urged the Central Government that there should be no further increase in the number and capacity of the sheller mills and that the use of the huller type for pounding rice should be banned.

Problems of development of this industry have been reviewed by an expert committee known as the Rice Milling Inquiry Committee (1954). The Village and Small-Scale Industries (Second Five Year Plan) Committee also made recommendation regarding the programme for this industry. It is proposed in the Second Five Year Plan that all power driven rice mills should be licensed and that no new mills should be allowed to be set up nor expansion of the capacity of the existing mills allowed, except where it is considered absolutely essential in the public interest in special circumstances.

During the First Five Year Plan period the total expenditure on the development of this industry amounted to Rs. 39·61 lakhs. 12·70 lakh B. Maunds of paddy have been dehusked providing seasonal employment to 13,050 hand-pounders. 1,224 chakkis, 196 Dhenkis and 161 winnowing fans have been distributed among various production centres.

The Second Five Year Plan envisages the processing of 4 million tons of paddy through the manufacture and distribution of 43,000 chakki-dhenki units, 143,000 improved (Assam) dhenkis and 1,500 winnowing fans over the Plan period. The implementation of the Rs. 5 crores development programme will provide seasonal employment for 5·76 lakh persons and distribute Rs. 28·06 crores as wages over the Plan period.

The programme also envisages the training of 600 supervisors and 1,000 mistries to meet the requirements of trained personnel for the implementation of the programme.

The popularisation of hand-pounded rice and the organisation for its regular supply to urban areas constitute important parts of the programme. Over the Plan period the programme provides for the constitution of 200 nutrition committees to carry on intensive propaganda through trained nutritional guides, and the organisation of 200 city and 300 town depots.

The Karve Committee recommended the imposition of an excise duty on the output of mills and the payment of a subsidy to hand-pounders to reduce the price differential between hand processed and mill processed rice. A subsidy of annas 6 per B. Maund is paid on production through co-operative societies and/or registered, recognised institutions.

Beekeeping.—Bee-keeping is a cottage industry which has not to compete with any machine. The industry is not, however, well developed. The total yield of honey in the country does not exceed 12 million lb. a year and hardly a third gets into commercial channels. Consequently there have been heavy imports of honey.

The First Five-Year Plan contemplated an intensive development of bee-keeping in selected areas in which the industry had already made some progress. For instance, Madras, Bombay, Uttar Pradesh, Punjab, Mysore, Travancore-Cochin* and Coorg* offer scope for intensive development. In each selected area there would be a sub-station serving a group of 20 to 30 villages. The scheme provided for training of staff and bee-keepers and for supply at subsidised rates of beehives and other appliances. Co-operatives of bee-keepers were envisaged for collecting and marketing of the honey.

Government sanctioned Rs. 16·25 lakhs to the Khadi Board for the development of the bee-keeping industry during 1953-54 to 1955-56. 67,680 lbs. of honey have been produced during the First Plan period. 15 area offices, 140 sub-stations, 25 model apiaries and 5 model production centres have been organised. Seasonal employment was provided to 4,700 persons. 29,770 hives have been distributed to farmers at subsidised rates.

During the Second Five Year Plan period, the All India Khadi and Village Industries Board have proposed to establish 25 area offices, 500 sub-stations and 100 model apiaries. The development is estimated to cost Rs. 1·3 crores.

The implementation of the programme may result in the output of 119·5 lakh lbs. of honey valued at Rs. 239 lakhs over the Plan period. 80,000 beekeepers may get part-time seasonal employment and earn Rs. 1·20 crores over the Plan period.

A separate provision for the training of 1,000 school children is a special feature of the development programme.

Paper Making.—The All-India Village Industries Association has a separate department for hand-made paper which mainly imparts training and carries on research in paper industry. The Association has encouraged the paper industry throughout the country. The methods of production are fairly satisfactory and the processes and implements are being improved year after year. Cotton rags, jute waste, paddy straw and grass of any kind that grows to a height of two feet, plantain stalks, sugarcane waste and waste paper are the chief raw materials. Hand-made paper is generally used for documentary purposes.

The five-year programme, therefore, suggests the production of high-grade hand-made paper at all existing centres. These centres will receive assistance in respect of equipment, training and research. Pulp-making is proposed to be done by power-operated machines, while other processes will be done by hand. It hopes to support 1,000 paper makers and turn out annually 1,400 tons of high-grade paper.

The total outlay for the development of the Handmade Paper Industry amounts to Rs. 15·98 lakhs over the First Five Year Plan period. The industry provided full-time employment to 2,347 paper makers. 1,261 tons of handmade paper was produced in 31 units established during the period.

The development programme for handmade paper industry proposed by the Khadi Commission in the Second Five Year Plan visualises the establishment of 60 factory units and 400 cottage units for commercial production of 4,000 tons of handmade paper for sale in the open market

* Pre-reorganisation.

by 1960-61 and 400 school units, which will be largely self-sufficient. The programme is estimated to cost Rs. 1·09 crores excluding working capital.

The production programme envisaged in the Plan may provide employment to 12,000 workers and distribute Rs. 72·05 lakhs as wages over the Plan period.

To provide trained personnel required to implement the programme, the programme provides for the establishment of one Research-cum-Training Centre with an annual capacity for training 100 persons.

The bulk of production envisaged in the programme is high grade handmade paper. As the prices of comparable varieties of mill-made paper at home and imported from abroad are relatively lower, the programme provides a subsidy of Rs. 250 per ton or Re. 0-1-9 per lb. on production to narrow down the existing price differential.

Soap Making.—In the village industry programme has been included a small scheme for the promotion of non-edibles and for manufacturing soaps from them. The main object is to utilise material now going waste. The scheme aims at establishing production-cum-demonstration centres in different States where neem and other non-edible oil will be produced and utilised in soap manufacture.

Neem oil is at present produced in small quantities in Madras, Uttar Pradesh and Bombay. Neem trees are, however, in abundance all over the country and a survey recently conducted in Madras has shown that about 72,000 tons can be collected annually in that State alone. Actually however 20,000 tons of seed are crushed to yield 1,650 tons of neem oil. The neem oilcake is also a valuable manure.

Washing soap can be manufactured very easily on cottage scale provided caustic soda, oils, tallow, etc. can be made available at reasonable prices.

The question of encouraging this industry in rural areas by levying a cess on large-scale production and reserving a portion of the market is under investigation. In the case of washing soap, a differential excise duty has been imposed and a subsidy of one anna per seer of neem and non-edible oils used in making soap is given.

Government has sanctioned Rs. 52·77 lakhs to the Khadi Board for the development of Soap Making from non-edible oils during 1953-54 to 1955-56. 6,492 B. Maunds of soap and 8,904 B. Maunds of cakes have been produced during the First Plan period in about 114 different types of units. The industry has provided seasonal employment to nearly 1,900 persons over the Plan period.

In the Second Five-Year Plan, the Khadi and Village Industries Commission has proposed the establishment of 90 oil production centres, 340 oil-cum-production units in the Intensive Areas with a collective productive capacity of 14,300 tons of non-edible oil and 8,400 tons of soap during the last year of the Plan. The programme is estimated to cost Rs. 2·99 crores excluding working capital. 39,110 tons of oil, 91,260 tons of oilcakes and 22,420 tons of soap collectively valued Rs. 8·68 crores are expected to be produced over the Plan period. The development programme may provide full-time employment to 10,340 persons and seasonal employment to 89,400 persons, distribute Rs. 179 lakhs and Rs. 147 lakhs as wages respectively to each category of workers.

Special provision has been made for the training of the supervisory staff in this industry also.

Palm Gur.—According to a recent estimate India has 50 million palm and corresponding varieties of trees. At present some four million trees are tapped and yield 55,000 tons of palm gur. It is estimated that about 3·3 lakh persons are engaged in this industry.

The Khadi and Village Industries Commission had been sanctioned a total amount of Rs. 18·89 lakhs for the development of palm gur industry during the first Five Year Plan. The development of the industry resulted in the production of 39·41 lakh B. Maunds of Palm Gur and 6,051 B .Maunds of other products. The Industry provided seasonal employment to 3·98 lakh persons during the period.

During the Second Five Year Plan the Khadi and Village Industries Commission proposes to establish 105 special units, 1,180 each of A and B units over the Plan period to organise production. 50 Palm Gur Co-operative Federations and 72,000 small co-operative units of individuals will be assisted. Among other schemes, mention may be made of the colonisation units, propaganda units and training units. The total estimated cost of the programme is Rs. 3·43 crores. The programme when implemented will produce 15·73 lakh B. Maunds of Palm Gur valued at Rs. 3·14 crores, besides many other subsidiary products. The programme will provide seasonal employment to 105,000 tappers and distribute Rs. 235·89 lakhs as wages over the Plan period. About 150,000 people will also be employed as pan boilers and auxiliary workers and about Rs. 3 crores will be distributed to them as wages.

Gur and Khandsari.—Gur and khandsari are well established in areas where there is not enough cane to start a sugar factory. Because the operations are near the field, the industry is carried on even in factory areas. The object of the programme is to extend the use of improved types of cane crushers to obtain a higher percentage of extraction.

In the First Five-Year Plan, the Government spent Rs. 11·48 lakhs on the development of Gur and Khandsari Industry. The programme was implemented through the All India Khadi and Village Industries Board. 1·69 lakh tons of ordinary Gur, 46,000 tons of quality Gur and 1,000 tons of Khandsari totally valued at Rs. 5·7 crores were produced. The Industry provided perennial full-time employment to 920 persons and seasonal part-time employment to 5,847 persons. 40 Multipurpose Co-operative Societies were also organised among which 1,154 improved crushers, 45 centrifugals and many other improved implements were distributed.

The development programme of the Second Plan for the Gur and Khandsari Industry aims primarily at improving the level of technical efficiency through the introduction of better equipment and processes. The possibility of adopting the vacuum pan process on a decentralised basis for the manufacture of Khandsari will be investigated. For the Gur Industry efforts will be focussed on the technical side, on the introduction of power driven crushers and the improvement of pans and furnaces and the formation of gur producers' co-operatives with a view to dealing with the problems of improving the keeping capacity of gur, proper storage, packing and standardisation of gur.

The Khadi and Village Industries Commission proposed (i) the establishment of 23 production units in the sugar-cane growing States and of 143 co-operative societies to organise production, distribution of improved implements and sale of products in selected areas; (ii) manufacture and distribution of 65,000 Kolhus and an equal number of pans, 241,000 gur moulds, 19,000 each of cube frames and percolators, 51,200 stocking drums for gur and 90,000 crystallisers and 4,000 centrifugals for the Khandsari Industry and (iii) the erection of 10 carbon factories for ensuring adequate supplies of improved juice clarificants. The programme is estimated to cost Rs. 7·7 crores excluding the working capital required.

The implementation of the development programme will result in the production of qualitatively improved gur at the annual rate of 8·45 lakh tons in the last year of the Plan. The development programme will cover 260,000 artisans in the Gur Industry and about 16,000 artisans in the Khandsari Industry, besides providing employment to 21,667 persons, in the ancillary process of the industry. About Rs. 9·55 crores would be distributed as wages over the Plan period. A Central Training Institute is also proposed to train supervisory staff for the implementation of the programme. About 20,000 persons will be trained over the Plan period.

Leather.—According to the livestock census there are over 21·2 crores big animals and 9·52 crores sheep and goats. About one-tenth of them die every year and if the dead bodies are properly disposed of, commercial products worth Rs. 30 per big animal can be recovered. The gross income from this source is about Rs. 40 crores per annum. An attempt has been made to organise the small cottage units into co-operative societies for the purchase of raw materials and marketing of finished goods.

The object of the scheme is to minimise waste due to the incomplete utilisation of dead animals. The programme provides for recovery work, tanning, leather craft and organisation of co-operatives of village leather workers.

The First Five-Year Plan had provided an outlay of Rs. 40·31 lakhs on the various development programmes to be implemented through the All India Khadi and Village Industries Board. 155 flaying centres, 21 training-cum-production centres, 56 model tanneries and 40 bone crushing units were organised during this period, besides having distributed 156 bone digestors among various centres of production. The Second Five-Year Plan has proposed the continuance of the policy of not allowing expansion of the capacity of large-scale units in the cottage leather footwear and tanning industry so that a substantial part of the increased demand is met by Small Scale and Cottage Units. The development programme for the industry will aim primarily at raising the present extremely low level of technical efficiency of these small units by providing common services, facilities for improved tanning, finishing, etc. at well equipped centres. Large factories are to be encouraged to purchase to take up as much production of producer goods as possible. It is also proposed that financial assistance should be extended by Government in the form of loans to workers to enable them to become shareholders of co-operative societies and also for producing improved equipment and for working capital.

The Khadi Commission has proposed a development programme for this industry under the Second Five-Year Plan which envisages the establishment of 3,500 flaying centres, 350 tanning centres and an extension programme for 35,000 shoe-makers to bring them within the folds of co-operative societies. A scheme for the housing of tanners and flayers is also an improvement part of the programme.

Besides the production centres, the Plan proposes to have many training-centres to train the required personnel for implementing the programme.

The implementation of the development programme will help to produce 8·44 lakhs of pieces of tanned hides, 2·70 lakh lbs. of glue and 7 million pairs of footwear, besides other by-products valued collectively at Rs. 7·5 crores over the Plan period. Over the Plan period the value of production is estimated at Rs. 20·78 crores. The programme may provide employment to 7,000 persons in flaying, 2,450 in tanning and 150 persons in the manufacture of glue, in 3,500 flaying centres, 350 tanning centres and 75 glue making centres respectively. Besides, the programme envisages to extend finance to 35,000 shoe-makers. About Rs. 4·9 crores will be distributed as wages among the various categories of artisans over the Plan period. The total outlay on the programme is estimated at Rs. 5·0 crores, which is exclusive of working capital required.

50 Marketing depots for the disposal of the various goods produced at the production centres will be organised over the Plan period.

Matches.—Eighty per cent of the production of matches is at present controlled by one international combine, and several Indian factories are partially lying idle. In addition it is estimated that about 0·6 million gross is the output of the cottage industry.

The All-India Village Industries Board recommended to the Union Government that a cess be levied on large-scale production and the proceeds be used for subsidising the manufacture by cottage industry and other small-scale manufactures. It has been decided to create a new category of match factories called class "D" producing upto 25 gross boxes a day and to subsidise them by an enhanced rebate on the excise duty.

The First Five-Year Plan provided an expenditure of Rs. 21·83 lakhs on the development of cottage match industry through the All-India Khadi and Village Industries Board.

The development programme of the Second Five-Year Plan period, for the Cottage Match Industry aims at the establishment of 1,000 'D' Class factories over the Plan period with a productive capacity of 29·25 million gross boxes at a total estimated cost of Rs. 1·1 crore over the Plan period.

The output of Cottage Match is likely to amount to 26·25 million gross boxes of 60's valued at Rs. 17·72 crores. The implementation of the programme will result in providing full-time employment to 10,000 persons and part-time employment to one lakh persons and distribute Rs. 3·41 crores as wages over the Plan period.

The programme makes a provision for the establishment of Research Laboratories for carrying on research as well as for intensive propaganda to influence the consumer preference for Cottage Matches.

To market the matches produced in various units the programme visualises a network of Marketing depots under two categories, Central and Divisional. A separate provision is also made for training the required personnel to implement the programme.

Pottery and Earthenware.—The village potter has been gradually eliminated by new tastes and requirements. On the other hand, the demand for bricks, tiles, earthen pipes and crockery has been fast rising.

The Bengal Ceramic Institute established in 1941 has been engaged in solving the problems of the cottage workers in the pottery trades and also functions as a training centre. It has successfully introduced the production of Rockingham pottery. The problem of standardising cheap, durable, and easily cleanable cooking earthenware has been taken up.

The Government Ceramic Factory at Gudur, in Andhra State has been running an artisan course since 1947 for training students in improved methods of pottery making.

In Mysore State experiments on production of low temperature vitricious ware, of glass pots for bangle making and of single fired red clay glazed articles—all from local materials—are being made at the Government demonstration centre in Belgaum district.

Rs. 5·79 lakhs have been sanctioned to the All-India Khadi and Village Industries Commission for the development of the Village Pottery Industry for introducing improved equipment. During the Second Five-Year Plan period assistance to pottery industry will be continued through the provision of improved wheels, moulds for pipes and special tiles, etc. and improved furnaces.

INTENSIVE AREAS SCHEME AND MARKETING SCHEME

Among the general schemes of the Khadi and Village Industries Commission, reference may be made to the Intensive Area Scheme. This scheme aims at the integrated economic development of selected contiguous areas with a population ranging between 20 and 30 thousands with a view to developing village industries as an integral part of rural economy. The Commission's programme for the Second Five-Year Plan proposes to increase the number of Intensive Areas from 35 in 1955–56 to 200 at the end of the Second Plan, at a cost of Rs. 2·77 crores.

The Khadi and Village Industries Commission proposes to set up a comprehensive marketing organisation to assist village artisans in obtaining raw materials, tools of production and facilities for the sale of their products. It is proposed to have a three tier organisation consisting of regional marketing depots, sub-depots operating under each regional marketing depot and retail shops each operating under the sub-depot. To co-ordinate the activities of the regional depots and to assist with advice regarding the advance purchase of raw materials, tools of production, etc., it is proposed to set up a Central Marketing Intelligence Bureau for depots with the Central Office of the Commission.

Government Purchases.—The Central Government has decided that every effort should be made to increase purchases for Government purposes from cottage and small-scale industries by giving preferential rates and relaxation, where necessary. A Conference to popularise the use of Khadi was convened in August 1953 and following this meeting, Government departments have placed inquiries for Rs. 62 lakhs worth of Khadi and so far Rs. 1·06 crore worth has been purchased by the Government. Purchases of coir products for various Government departments came to more than Rs. 8 lakhs in 1953. A Stores Purchase Committee was appointed by the Government to examine *inter alia* the question of meeting Government requirements for the products of cottage and small scale industries.

The details of the progress of expenditure for the development of small and cottage industries in the First Four Years of the First Plan period are given below :—

Progress of Expenditure

(Rs. lakhs)

	1951-52	1952-53	1953-54	1954-55
Khadi	2	9	110·00	408.00
Handloom	0·14	6·33	181·44	488·8
Village Industries	0·59	0·73	21·00	70·00
Handicrafts	4·5	2·6	14	30
Sericulture	1·4	2·7	12·8	30
Small-scale industries	5·6	7·9	33·2	153·4

The development expenditure on khadi and handloom is being met out of the Cess Fund since 1953-54.

FORD FOUNDATION

The Ford Foundation International Planning Team on Small Industries which was invited to formulate plans for the development of village and small-scale industries with a view to creating more opportunities for remunerative work, arrived in India in November 1953 and submitted their report in March 1954. The Government of India has implemented some recommendations. They are:

(1) Four Regional Institutes of Technology for small industries are established—which would act as service agencies and would assist small industries in improving their technique of production and management; in obtaining credit and finance; in securing proper raw materials; in marketing their goods to the best possible advantage; and in promoting patterns of development calculated to make small-scale industries ancillary to large-scale industries by bringing about co-ordination of production programmes.

(2) A Small-Industries Corporation to organise production for meeting Government orders has been established.

Village and Small-Scale Industries (Second Five-Year Plan) Committee* submitted its report to the Government of India in October 1955. It suggested that (*a*) The six† All-India Boards in the village and small-scale industries should be put under one and the same Central Ministry; (*b*) There should be adequate funds for the promotion of these industries. Undue economy will lower the chances of success; (*c*) There should be a definite programme for development.

The Committee suggested that the expenditure would come up to Rs. 260 crores. Out of this allocations proposed for the Centre are about Rs. 25 crores and for the States over Rs. 234 crores. The Committee suggested several ways and means to promote the small-scale industries in the Second Five-Year Plan.

* Also called the Karve Committee.

† The six Boards are: Small Scale Industries Board, the All-India Handloom Board, All-India Handicrafts Board, All-India Khadi and Village Industries Board (now called All-India Khadi and Village Industries Commission), All-India Silk Board, All-India Coir Board.

FILM INDUSTRY

BELOW we give a list of the more important events in the film industry during 1956 and 1957.

The production of feature films in 1956 reached the record number of 296.

The import of raw film and other accessories was drastically cut during the second half of 1957.

The Bill for the establishment of a National Film Board which was introduced in Parliament in December 1956 was withdrawn in July 1957 as a measure of economy. The Bill which also provided for the setting up of a Film Finance Corporation was a very comprehensive piece of legislation.

The Children's Film Society produced its first report of its work during the twenty-two months it was in existence—upto March 1957. It produced two feature films—*Jaldeep* (8,400 feet), *Char Dost* (7,800 feet)—and acquired and adapted for children two more—*Ramashastri ka Nyaya* (from Prabhat's *Ramashastri*), *Bal Ramayana* (from Prakash's *Ramayana*)—each 7,000 feet long. It had spent Rs. 6 lakhs. *Jaldeep* was exhibited in Bombay during December 1957.

The Society has its headquarters at Sapru House in New Delhi.

The feature that won the President's Gold Medal was a Bengali picture *Kabuliwallah* (Charuchitra).

The Government of India have now decided to give cash prizes for the first two award-winning entries in the three categories, feature, children and documentary.

The total number of documentaries released in 1956 was 69 as against 67 in 1955. Out of this the Films Division released 48 titles in 1956 as against 55 in 1955.

The Films Division was making rapid progress. While in 1951-54 it produced on an average 39 documentaries with 70 release prints of each, during 1954-57 the average annual production was 59 documentaries with 157 prints of each. Also, while in the earlier period the documentaries were mostly one-reelers (1,000 feet), in the second period they were mostly two-reelers (2,000 feet).

The actual figures for the two financial years 1955-56 and 1956-57 were respectively 67 documentaries (142 reels) and 69 documentaries (136 reels).

There has also been a great expansion in the non-commercial exhibition. The figures for the period 1954-57 were 1,812 prints in 35 mm and 37,707 prints in 16 mm.

Among the documentaries released during the year, those on Khajuraho, Madura Minakshee temple, Banaras (in colour), Festival of Kashmir (in colour), and A Day with the Prime Minister Nehru, deserve special mention.

A special documentary on Hirakud showed the project and its vast potentialities; another on Pimpri described the manufacture of Penicillin. There were three films on the N.E. Frontier (four reels in colour and the rest in black and white) showing the land of the Nagas and the problems it presented to the administration. It included a documentary on General Thimayya's visit to the Naga land.

The Films Division also recorded the visits of distinguished foreign officials: Marshal Tito, Vice-President Hatta of Indonesia, the King of Nepal, Crown Prince of Laos, King Ibn Saud, the Shah of Iran, the Emperor of Ethiopia, Mr. Chou-en Lai, the Prime Minister of China.

Films were also made of NNRC and ISC in Korea, the visit of Mr. Nehru to Saudi Arabia, the coronation of the King of Nepal, and of the meeting of the Colombo Powers.

The Government of Bombay made an announcement that every quarter it would refund the entertainment tax collected on the film during the previous quarter which was judged by a panel as the best exhibited in that period. The motive was to improve the technical as well as the educational quality of the films. Films in three languages by producers in Bombay alone were eligible. (Marathi, Gujarati and Hindi).

A number of Indian pictures won international awards:

Pather Panchali, the winner of the President's Gold Medal for 1955 was judged the best human document at the Cannes International Film Festival in 1956.

Kabuliwallah, the winner of the President's Gold Medal for 1956, won an award at the Berlin Film Festival in 1957.

Gautama the Buddha, a full length documentary, commissioned by the Films Division was regarded as suitable for the award for plastic beauty at the Cannes International Film Festival in 1956.

Khajuraho and *Spring Comes to Kashmir* made a mark at Manila and Berlin respectively.

Aparajita, another Bengali picture, a successor to *Pather Panchali*, won the Grand Prix at the Venice Film Festival (1957) while the Children's Film Society's *Jal Deep* was awarded at the same festival, a certificate of merit.

Six Indian films were shown at a Festival held in U.S.S.R. and six Soviet films were shown in India at a festival of Russian films. Representative delegations attended the festivals and a very useful exchange of views took place.

The Claire awards are given on the basis of a readers' poll. The awards for 1956 were as follows:

Best play: Rajkamal's *Jhanak Jhanak Payal Baaje*; Direction: V. Shantaram for *Jhanak Jhanak*; Actor: Dilip Kumar in *Devdas*; Actress: Nutan in *Seema*; Supporting actor: Motilal in *Devdas*; Supporting actress: Vyjayantimala in *Devdas*; Music direction: Shankar and Jaikishen in *Chori Chori*; Story: Amiya Chakravarty in *Seema*; Cinematography: Radhu Karmarkar in *Shree* 420; Sound Recording: A. K. Parmar in *Jhanak Jhanak*; Editing: G. G. Mayekar in *Shree* 420; Art Direction: Kanu Gandhi in *Jhanak Jhanak*.

The Filmfare awards for 1957 were as follows:

Best Picture: "Mother India."

Best Director: Mehboob Khan ("Mother India").

Best Actor: Dilip Kumar ("Naya Daur").

Best Actress: Nargis ("Mother India").

Best Supporting Actor: Raj Mehra ("Sharada").

Best Supporting Actress: Shyama ("Sharada").

Best Music Director: O. P. Nayyar ("Naya Daur").

Best Story: Akhtar Mirza ("Naya Daur").

Best Cinematography: Faredoon A. Irani ("Mother India")'

Best Editing: Shivaji Awdhut ("Sharada").

Best Art Direction: M. R. Achrekar ("Pardesi").

Best Sound Recording: Kaushik ("Mother India").

CENTRAL BOARD OF FILM CENSORS

The Central Board of Film Censors, examined during 1956-57, 637 films of over 2,000 ft. (330 Indian and 307 imported) while those under 2,000 ft. numbered 1,250 (530 Indian and 720 imported).

Of over 860 films classed as predominantly educational, only 79 were Indian while the rest were imported.

Most of the censoring of imported films is now concentrated in Bombay in order to have more uniformity.

During 1956-57, 46 imported films were refused certificates while as many as 75 were classed as for Adults only ('A' certificate).

From the lot of "five-year-old" imported films, when they came for revised censoring, 22 were given 'A' certificate and four were refused certificates.

In all 2,344 films were seen afresh while the number of those that came up for revision was 1,031.

With regard to Indian production, three were refused certificate and 13 classed as 'A'.

The total footage cut still continues to be high—it was 63,000 ft. in 1956.

Under the proposed legislation constituting a National Film Board (now withdrawn as mentioned above) the work of the censors was to have been done by a Film Certification Bureau.

Codes for producers and directives for the guidance of the members of the Censor Board are, at the time of writing (Dec. 1957), more or less finalised.

The film producers have been told that the following restrictions must be observed:

(*i*) Gods and goddesses must be depicted with respect and decorum, and no distortion would be allowed in treating them.

(*ii*) Vivid details of crime and violence should not be shown; Courts and police should be treated with dignity and decorum due to them.

(*iii*) No community should be a target of ridicule.

16 MM. FILMS

The use of the 16 mm. film for propaganda and publicity is realised by Governments, municipalities, and trade and industry.

The Union Government maintains for the Five Year Plan publicity 48 units (46 vans; 1 boat and 1 bullock cart), which are equipped with 16 mm projectors.

The Government of Bombay have more than 60 vans similarly provided.

The Bombay Municipal Corporation, the Khadi Board and the Handloom Board, are all making films for educational propaganda and using the films on mobile units.

A Government of India report says that during 1956-57, their mobile units were responsible for 10,577 film shows, before an audience aggregating nearly 50 lakhs. That the film is yet a novelty to most villagers in India is perhaps part of the attraction.

The increasing use of the 16 mm films is reflected in the number of copies of some of the documentaries sold by the Films Division. During the two years, 1955-57, it is reported that 6,000 copies were sold of 16 mm alone.

The Community Development Projects and the National Extension Service Blocks seem to be using the films as a regular part of their work. Obviously there is a considerable number of projectors in use throughout the country.

Many industrial houses maintain a regular stock of films for non-commercial use.

About 120 full length Indian features, mainly in Hindi, Marathi and Gujarati, are also available in 16 mm.

Economy of cast and storage are two main factors in favour of the 16 mm. film (1,000 ft. of 35 mm. = 400 ft. of 16 mm.). Colour is also easily available and the film can be processed and copies made in India itself.

The layout for the 16 mm. film theatre is small and the whole equipment is portable (about the size of two portable typewriters in all).

For popularising children's films, special theatres will be required in many places and for such new theatres 16 mm. is the right solution.

There are in addition 16 mm. libraries of films suitable for non-theatrical audiences maintained by the British Information Services, the British Council and the U.S. Information Services through their regional offices.

In the Defence Forces, 16 mm. films have been extensively used for training and entertainment. There are Inspectors of Visual Education under Directors of Education in the States who do valuable service by using 16 mm. projectors.

The biggest single 16 mm. library of films in India is maintained by the Inspector of Visual Education in Bombay who makes the films available regularly to schools under him.

The Ministry of Education in Delhi has started building up a library of 16 mm. educational films.

FILM DISTRIBUTION

Distribution as a distinct unit is a relatively recent development. In 1928 there were 11 film distributing agencies all dealing in foreign films. In 1938 their number rose to 214 and, ten years later, to 887. On the other hand, distributors of foreign films dropped from 27 in 1938 to 10 in 1948.

The Film Enquiry Committee has pleaded for more cinema houses. A study of the relevant statistics however does not support the demand.

The average for all India is taken to be 600 persons per cinema per day and for such audience to be available the population must be in the vicinity of 30,000.

EXPORT MARKET

The Film industry earns about Rs. two crores through export of films outside India. Excluding those in Pakistan, there are about 2,500 theatres available for the showing of Indian films in countries where Indians live in some concentration and where Indian films are welcomed by the residents of the region. An organised effort, however, has not yet been made. The Asian and African market is so large that it can help to relieve to a considerable extent the pressure on the industry. The Government of U.S.S.R. was also interested in importing Indian films. The Films Division already shows some of its documentaries in East Africa, Ceylon, Thailand and Nepal. Documentaries were also sent for the TV circuits in U.K. and on the Continent. In Canada a non-commercial distribution of Government of India's films is arranged through the National Board of Canada. China is another good market because of the great interest of the Chinese people in India.

The main export market for Indian films at present is Pakistan; but Indian exporters are now put to considerable difficulty. Other markets are countries which have large concentrations of Indians such as Malaya, Indo-China, Burma, Ceylon and Africa.

Imports of exposed cinematograph films have been fairly heavy. Until 1936-37 imports remained below 10·8 million feet, touched the peak at 26 million feet in 1938-39 and dropped to 6·9 million feet in 1942-43 owing to wartime conditions. In the post-war period imports recovered to 16·2 million in 1945-46 and thereafter fluctuated between 15 million feet and 12 million feet.

Under the import control regulations, import of foreign films is subject to a monetary ceiling and distributors are authorised to remit up to 70 per cent. of the gross revenue.

CINEMATOGRAPH ACT

The regulations of films for exhibition and of the cinemas take place under the Indian Cinematograph Act. The power of certifying films was until the amendment of the Act in 1949 vested in the State Governments. Since production was concentrated in the three States of Bombay, Bengal and Madras and imports also mainly took place through the three ports in these States, the first examination of films for certification was done mainly by the Boards at these three cities. The Act as amended in 1949 made a distinction between films considered suitable for exhibition to adults only and those suitable for general exhibition.

A Bill was introduced in Parliament in November 1952 to amend the Act with a view to removing certain defects noticed in the course of actual administration. Under it the responsibility for deciding whether a film is or is not suitable for public exhibition is entrusted to the Central Board of Film Censors; but powers are vested in the Central Government to declare that any film already certified as uncertified and notice has to be given to the person who has been granted certificate to show cause why the film should not be uncertified. This delay is sought to be avoided by the amendment. Provision has also been made in the Bill making it obligatory on persons delivering a certified film to a distributor or exhibitor to transmit information and documents relating to the certificate which would enable punishment of the exhibitor if he shows the film with portions cut out by the Board before certification. The difficulties encountered in proceedings against persons for interpolation and exhibition of unauthorised scenes in certified films are sought to be encountered by the Bill. Enhancement of the penalty has also been suggested. The Bill was passed in April 1953.

The Censorship Rules as amended in 1953 provide for a deposit of a 35 mm. or 16 mm. version of the certified film or its shooting script as a condition precedent to the issue of a certificate. Such a certificate is valid for ten years from the date of issue and old films once censored have to be recensored if the previous certificate has been in effect for five years or more.

PRODUCTION OF FEATURE FILMS

Year	1953	1954	1955	1956
Hindi ..	97	118	126	123
Bengali ..	50	48	52	54
Tamil ..	42	37	46	51
Telugu ..	29	27	24	27
Marathi ..	21	18	12	13
Kanarese ..	7	10	15	14
Malayalam ..	7	8	7	5
Others ..	7	7	5	9
Total ..	260	273	287	296

INDIAN PRODUCERS

The total number of Indian feature films produced from 1931 to 1956 was 4,909. A language-wise break-up is as follows:

Hindi 2,712; Tamil 666; Bengali 656; Telugu 302; Marathi 265; Gujarati 92; Kannada 72; Malayalam 52; Punjabi 44; Assamese 13; English 12; Oriya 8; Persian 6; Arabic 2; Others 7.

The total number of Indian film producers from 1931 to 1956 was 2,244. Of these 1,580 were single picture producers. The language break-up is as follows:

Hindi 1,040 (708); Tamil 334 (228); Bengali 322 (230); Telugu 187 (139); Marathi 143 (99); Gujarati 60 (49); Kannada 60 (40); Malayalam 35 (27); Others 73 (60).

DOCUMENTARIES

Below we give figures to show the production and release of documentaries:

Year	Production		
	Films Div.	Others	Released
1951-52 ..	32	4	36
1952-53 ..	32	7	39
1953-54 ..	35	8	43
1954-55 ..	33	6	39
1955-56 ..	55* (125 reels)	14 (20 reels)	67 (142)
1956-57 ..	48* (94 reels)	13 (32 reels)	69 (136)
		7 (9 reels)†	

* Most of these films have more than one reel per title.

† These were obtained from the State Governments for release through the Films Division circuit.

Note: Not all the documentaries produced are released in the same year. The number of releases therefore is not a total of the first two figures.

ADDITIONAL PRINTS

The additional prints given below were in addition to the regular requirements for commercial distribution.

Year	35 mm	16 mm
1954-55	771	10,533
1955-56	825	13,842
1956-57	216	13,332

FILMS DIVISION

Year	'000 Rs.	
	Revenue	Expenditure
1950-51	22,00	34,79
1951-52	25,00	31,00
1952-53	33,00*	37,77
1953-54	34,00*	43,00
1954-55	33,00*	47,40
1955-56	37,00*	67,87
1956-57	40,00*	81,02
1957-58	——	103,72

* The figure includes other revenue by sale of prints and surplus material and rentals.

The figures down to 1956-57 are revised estimates, and the figure for 1957-58 is the budget estimate.

CINEMAS IN INDIA AND THE "CIRCUITS" (1951)*

Circuit	Places	Permanent Cinemas
1. Bombay ..	501	619
2. Central ..	272	501
3. North ..	162	385
4. Bengal ..	250	504
5. South ..	402	924
Total ..	1,487	2,933

IMPORT OF FILMS

	Raw Films		Exposed Films	
	Footage (m. feet).	Value (Rs. in lakhs).	Footage (m. feet).	Value (Rs. in lakhs).
1948-49	156·43	77	12·39	31·52
1949-50	178·75	95	14·68	38·18
1950-51	209·54	128	14·54	35·79
1951-52	198·17	136	10·60	29·01
1952-53	247·94	166	12·65	29·49
1953-54	207·45	155	10·85	30·39
1954-55	204·12	151	8·64	23·79
1955-56	300·96	223	12·12	35·10
1956 (Calendar Year)	262·70	196	15·08	40·37

IMPORT OF EQUIPMENT

(Rs. in lakhs).

	1951-52	1952-53	1953-54	1954-55	1955-56	1956 (Calendar)
Cinema projecting apparatus, etc. ..	32·79	25·89	21·51	20·19	43·25	66·07
Sound recording apparatus, etc. ..	17·56	10·70	7·50	4·57	7·46	13·91

* In April 1957, there were 3,577 cinemas in the circuit of the Films Division.

GLASS INDUSTRY

THE glass industry is regarded as a key industry by virtue of its versatility and the service it renders to the industrial growth of the country, meeting as it does the domestic and industrial needs and also adding grace and artistic touch to healthy life and living.

The more commonly used raw materials are: sand, borax, soda ash and salt cake, dolomite, lime or limestone, salt petre and sulphur, manganese dioxide and colouring materials. Though supplies of sand are in plenty, its quality is not uniform. Nearly all the glass factories of northern India and West Bengal obtain their requirements of sand from the Allahabad district. Subsequent to the Tariff Board's inquiry in 1932, little progress has been made in the installation of grading and washing equipment for sand. Borax is mostly obtained from abroad, while soda ash is received from indigenous manufacturers and importers. Sufficient quantities of lime or limestone are available. Coal is the commonest fuel. The bulk of refractories is obtained from indigenous sources. The demand for refractories by the glass industry is estimated at about 10,000 tons per year.

The industry comprises the manufacture of sheet glass, blown and pressedware and bangles. The industry has developed mainly under the private sector with reported capital investment of Rs. 9 crores in 1955.

Some 19,000 workers excluding those engaged in cottage industries are employed in the industry. Government protection to the sheet glass section was granted in 1950 and was extended upto the end of 1957. The rate of protective duty was fixed at 45 per cent ad valorem in 1950, but was raised to 70 per cent in January 1955.

In 1951, there were 142 glass factories in India with an installed capacity of about 213,250 tons per annum. Of these, 35 units with a capacity of about 30,000 tons had been closed for over three years. There were in 1956 134 glass factories registered under the Industries (Development and Regulation) Act, 1951, with an installed capacity of about 339,084 tons. Of these, 92 units with a capacity of about 278,016 tons are actually working; 25 factories (about 44,000 tons) are temporarily closed; and 22 (with about 23,000 tons) are, more or less, permanently closed. The effective capacity of the industry may therefore, be taken at about 322,016 tons per annum. The regional distribution before the States were reorganized in Nov. 1956 was :—

State.*	No. of units.	Installed capacity.
		Tons.
West Bengal	28	90,800
Bombay	18	49,100
Uttar Pradesh	24	63,900
Madras	9	10,800
Bihar	8	39,600
Madhya Pradesh ..	5	3,660
Punjab	3	9,300
Delhi	3	4,400
Rajasthan	2	2,700
Hyderabad	2	4,800
Mysore	2	1,160
Other States	5	10,800
Total ..	109	291,020

* Pre-reorganisation.

The manufacture of bangles was undertaken by about 100 units, mostly established on a cottage industry basis and localised in the Ferozabad district in Uttar Pradesh and Belgaum district in Mysore. The rated capacity of these factories is placed at 35,000 tons.

Besides, penicillin vials, sheet glass of sizes less than 16 oz. and over 32 oz., glass tubing by automatic drawing, narrow-mouth thermos flasks and decorated aerated water bottles are some of the items newly manufactured in the country during the First Plan.

OUTPUT

Actual output of glass and glassware is shown by the following table:

—	1953	1954	1955	1956
Bottles & Phials (tons)	40,750	47,840	55,272	62,418
Sheet Glass (million sq. ft.)	22·7	33·0	38·9	47·4
Laboratory Glass (tons)	1,321	1,510	2,496	3,357
Glass Shells for electric lamps (lakh pieces)	169·2	225	261	359
Table & Pressedware (tons)	17,620	22,050	25,456	28,219
Lampware ,, ...	12,400	12,660	16,690	19,867
Thermos flasks ,, ...	290	180	312	330
Miscellaneous glassware ,, ...	963	2,450	2,272	3,031

The annual rated capacity of the glass industry (excluding bangles, in regard to which there has been no significant change) increased from 213,250 tons in 1950 to 339,084 tons in 1956. In the case of sheet glass, where substantial expansion was envisaged in the First Plan, the capacity and production have both gone up from 23·4 million sq. ft. and 9·57 million sq. ft. respectively in 1950 to 101·28 million sq. ft. and 47·37 million sq. ft. in 1956.

On the basis of production plus imports minus exports, the internal demand for various types of glass and glassware in 1956 may be roughly estimated at 132,000 tons. Of this, the estimated production is only 148,587 tons, which is lower than the production target of 168,510 tons. The production of glass bangles has been running, more or less, steady at about 16,000 tons per annum during the Plan period. It is estimated that a gross fixed capital of Rs. 2·5 crores was invested in the glass industry during the First Plan.

But the annual demand for glass and glassware is likely to increase to about 200,000 tons by 1960-61. By that period, the installed capacity of the industry will be raised to 383,084 tons per annum. It is estimated that the capital requirements of the glass industry inclusive of replacements and modernisation will amount to about Rs. 3 crores during the Second Plan period. The industry in the organised sector is expected to employ about 25,000 persons in 1960-61 as against 18,500 persons in 1955-56 if the production target of 200,000 tons is achieved.

It is expected that at the end of the Second Plan, exports and imports will balance each other at about Rs. 50 lakhs per annum. The Government have during the past few years been helping the industry in a number of ways; they have granted rebate of duty on heavy soda ash, provided technical help, set up a Central Glass and Ceramic Research Institute and the National Instruments Factory.

Protection for the sheet glass industry is due to expire at the end of December 1960.

Imports and exports are as follows:

(Rupees in lakhs)

—	1952-53	1953-54	1954-55	1955-56	Apr.-Dec. 1956
Imports	128·05	135·84	139·02	163·70	130·18
Exports	24·23	21·40	20·76	17·49	20·12

The following table summarises the programme of development during the period of the First Plan :—

—	1950-51		1955-56	
	Annual rated capacity.	Actual production.	Annual rated capacity.	Actual production.
	Tons.	Tons.	Tons.	Tons.
Bangles	35,000	16,000	35,000	16,000
Sheet glass	11,700	5,950	52,200	26,000
Blownware and pressedware including glass shells	201,550	86,100	287,800	127,500
Safety glass (m. sq. ft.) ..	..	..	0·5	0·5
Optical glass	..	..	12	10
Total (excluding bangles and safety glass)	213,250	91,950	290,012	163,510

HIDES, SKINS AND LEATHER

THE Republic is regarded as a surplus area in respect of its resources of raw hides and skins. It is estimated that normally it produces 16.2 million cow hides, 5.5 million buffalo hides, 23.2 million goat and 15.1 million sheep skins a year. Only a portion of the cattle and buffalo hides is obtained from slaughtered animals and the bulk, about 75 to 80 per cent, is derived from animals that die a natural death.

The bulk of the production is carried on in small towns and villages.

The tanning industry comprises four sections, *viz.*, 1. organised tanneries producing finished vegetable tanned buffalo leather and chrome tanned upper leather; 2. tanneries producing vegetable tanned leather known to the trade as E. I. kips and E. I. tanned skins; 3. small-scale chrome tanneries producing chrome tanned upper leather; and 4. village tanneries producing vegetable tanned cow and buffalo leather and vegetable tanned leather from goat and sheep skins.

At the commencement of the first national Plan, there were 26 organised tanneries producing vegetable tanned buffalo and cow leather, of which 16 also produced chrome tanned upper leather. Their annual rated capacity in terms of cow hides (one buffalo hide = 2 cow hides) was 3·184 million hides for vegetable tanning and 1·976 million hides for chrome tanning. Early in 1956, there were 24 such tanneries on the active list of the Development Wing of the Ministry of Commerce and Industry with an installed capacity of 3·304 million hides for vegetable tanning; 13 of them produce chrome leather with a capacity of 1·679 million hides.

The number of factories and annual rated capacity in 1956 of each of these sections was as follows :—

—	Number of factories.	Capacity in million.
1.	24 (13 produce chrome)	3·30 (hides for vegetable tanning) 1·679 (hides for chrome tanning)
2.	500	16–17 (tanned hides) 20–22 (tanned skins)
3.	250	3 (hides)
4.	..	8 to 9 (raw hides) 3 to 4 (raw goat and sheep skins)

The second section is mainly concentrated in South India, while the third is located in Calcutta and worked by the Chinese.

PRODUCTION

The following is the trend of production :—

Year.	Chrome and tanned hides.	Vegetable tanned buffalo and cow hides (in terms of cow hides).	Leather cloth (000 yards).
	(thousands)	(thousands)	
1952	879·6	1,478·4	954·0
1953	650·4	1,298·4	985·2
1954	700·8	1,370·4	1,263·4
1955	668·4	1,635·6	2,623·2
1956	741·6	1,682·6	2,618·4

According to the census of manufactures, 1952, the total fixed investment in 94 tanning factories giving employment to 8,180 workers was Rs. 83·21 lakhs and the working capital Rs. 258 lakhs.

According to the information supplied by the manufacturers registered under the Industries (Development and Regulation) Act, the total capital invested in the large-scale units manufacturing leather and leather goods in 1956 was about Rs. 9·37 crores and the number of persons employed was about 9,400. The number of persons employed in the small-scale leather and leather manufacturing industry, as per the National Income Committee's Report (1954), was 763,000 in 1950–51.

When the position of the industry was reviewed in May 1954, it was observed that more than 50 per cent of the installed capacity of the organised tanneries was lying unutilised. In order to assist the industry to raise its production, the Government banned totally the export of raw hides and skins in short supply; allowed the import of raw hides and skins under O.G.L. from soft currency areas; imposed severe restrictions on import of leather and leather goods; and decontrolled completely the export of leather and leather goods.

To meet the internal requirements, a large quantity of raw hides and skins are imported, mostly overland from Pakistan. In addition a small quantity of tanned hides and skins and of unwrought leather is also being imported.

The following table gives the position : (In lakhs of Rs.)

Year	Raw hides	Raw skins	Hides, skins, tanned or dressed	Unwrought leather
Imports :				
1951–52	79·1	44·0	..	6·6
1952–53	50·8	28·4	..	6·9
1953–54	56·5	54·7	..	8·8
1954–55	25·9	17·3	0·7	6·8
1955–56	66·5	23·3	..	6·7
April-Dec. 1956 ..	78·22	30·15	1·84	6·62
Exports :				
1951–52	61·8	7,62·2	25,02·2	30·2
1952–53	2·3	5,53·5	20,11·5	15·7
1953–54	..	6,06·7	24,07·2	22·4
1954–55	..	7,13·0	20,54·3	18·0
1955–56	..	6,52·7	22,52·3	20·6
April-Dec. 1956 ..	..	416·0	15,67·80	11·45

The main problems about raw material relate to the supply of hides and skins and wattle bark. Supplies of hides have to be arranged from Pakistan. As for wattle bark, the Government of Madras has taken steps for bringing 21,000 acres under wattle plantation. Upto the end of 1953–54, about 18,310 acres had been planted. Nursery and small-scale field tests are being carried out in Assam, Bombay, Orissa, Punjab, Uttar Pradesh and West Bengal for locating suitable areas for the planting of wattle trees. The indigenously available *Kerada* bark is stated to be a potential substitute for wattle bark.

It is estimated that the demand in 1960–61 may come to 23 million tanned hides and 26 million tanned skins. The quantities of the principal raw materials required for this target are : Raw hides 23·5 million pieces; raw skins 26·5 million pieces; lime 28,000 to 33,000 tons; wattle bark and extract, 33,000 tons; other barks 330,000 tons; myrobalans 28,000 to 33,000 tons.

FOOTWEAR INDUSTRY

The principal use of leather is for the production of footwear. In 1951, there were nine large-scale footwear factories with an annual rated capacity of 4·724 million pairs of Western type footwear. In 1956, there were 12 such units with an annual rated capacity of 5·975 million pairs. There has been no real increase in the capacity, only some units already in existence came within the purview of the Industries (Development and Regulation) Act, 1951 and were registered. The capacity of these factories for Indian type footwear fluctuates with demand.

The following table gives the regional distribution of the capacity for Western type footwear early in 1956 :

State	Unit No.	Annual Capacity (Pairs)
Uttar Pradesh ..	7	2,277,000
West Bengal ..	1	3,442,000
Bihar	1	174,200
Madras*	1	75,000
PEPSU*	1	4,800
Mysore*	1	1,200
Total	12	5,974,800

* Pre-reorganization.

The output of the large-scale factories since 1951 is given below :—

—	Western type (million pairs).	Indian type (million pairs).
1951 ..	3·641	2·074
1952 ..	3·867	1·806
1953 ..	3·348	2·204
1954 ..	3·263	2·063
1955 ..	3·243	2·303
1956 ..	3·620	2·911

Reliable production figures for the small-scale and cottage units, which are responsible for manufacturing more than 90 per cent of the total output, are not available. The present output is estimated at 12 to 13 million pairs of Western type footwear and 65 to 70 million pairs of Indian type footwear.

Imports of leather footwear during the First Plan period were very small while exports were much higher. The following table gives the trend in exports and imports from 1950–51 :

Year	Imports (in pairs)	Exports (in pairs)
1951–52	2,280	1,465,500
1952–53	225	1,027,100
1953–54	465	1,218,600
1954–55	1,490	1,569,819
1955–56	1,816	1,577,754
April-Dec. 1956..	14,173	1,437,235

An excise duty of 10 per cent *ad valorem* has been imposed on footwear since March 1, 1954. Only power-operated factories employing 50 or more workers and using more than two H.P. come under this levy.

It is estimated that the total requirements of leather footwear in 1960–61 would be 100 million pairs for domestic consumption and 2 million pairs for export purposes. This would be an increase of 13·5 million pairs over the 1955 level. This additional demand is proposed to be met by a fuller utilisation of the existing capacity in the organised sector and by developments in the cottage and small-scale sector and no expansion of capacity is envisaged during the Second Plan period in the large-scale sector of the industry.

For achieving the target of 102 million pairs in 1960–61, the following quantities of raw materials will be required : 12·25 million tanned hides and 4·75 million tanned skins; 5·4 million reels of thread for uppers and 360 tons for others; and 285 million pieces of eyelets.

JUTE INDUSTRY

THE following table gives the details of the production trends of raw jute in the Indian Union:—

Year	Lakh acres	000 bales
Average		
1946–47	5·3	1,320
1947–48	6·5	1,695
1948–49	8·3	2,055
1949–50	11·6	3,089
1950–51	14·5	3,301
1951–52	19·5	4,678
1952–53	18·2	4,605
1953–54	11·96	3,129
1954–55	12·43	2,928
1955–56	17·39	4,197
1956–57	18·83	4,221

For 1957-58 the production of jute has been estimated at 4,088,000 bales of 400 lbs. each and the area under jute at 17,54,000 acres.

The all-India yield per acre was 932 lbs. in 1957-58 against 899 in 1956-57.

Following the partition India has not only ceased to be an exporter of raw jute but depends for quality jute imports from Pakistan. These are arranged under bilateral trade pacts concluded periodically for a short duration.

Supply and distribution of jute 1955-56 and 1956-57 :

—	1956–57 (lakh bales)	1955–56 (lakh bales)
Supply		
Opening Stocks		
(a) Mills Stocks I.J.M.A. Mills (Godown, in transit upcountry) ..	9·84*	9·70*
(b) Mills outside I.J.M.A. (estimate)	0·38	0·38
Indian carry forward (Trade estimate) .	2·47	1·79†
Pakistan carry forward (Trade estimate) ..	3·30	5·40†
Indian Union Jute and Mesta Crop (Trade estimate)	52·80	52·70†
Pakistan Crop (Trade estimate)	71·40	66·40†
Total supply ..	140·19	136·37
Distribution		
Mill consumption		
(1) I.J.M.A. Mills (estimate).. ..	62·29*	64·28*
(2) Mills outside I.J.M.A. (estimate)	2·46†	2·52†
	64·75	66·80
Indian domestic consumption (estimate)	2·00	2·30†
Pakistan exports overseas	40·93*	43·26*
Pakistan domestic and Mill consumption (estimate)	11·00	9·60†
Total distribution	118·68	121·96
Carryover at the end of season	21·51	14·41

* Actual. † Revised.

(I.J.M.A. Statistics, Monthly Summary).

Though India has achieved self-sufficiency, she still depends on Pakistan for quality jute.

The following table gives the trend of I.J.M.A. mill consumption of raw jute :—

Year ended June	Lakh bales
1950-51	52·52
1951-52	56·85
1952-53	52·53
1953-54	50·24
1954-55	58·63
1955-56	64·28
1956-57	62·29

JUTE MILLS

In 1955 there were 112 registered jute mills with a total number of 68,637 looms ; of these 101 were located in West Bengal. The loomage on June 30, 1955 was about 69,000 capable of producing 100,000 tons of jute goods per month.

104 mills had a fixed capital of Rs. 31·38 crores and a working capital of Rs. 33·83 crores in 1954. In the same year, 253,000 workers found employment in the industry.

The progress of the industry during the past few years is summed up in the following table :—

(in thousand tons).

Year (July–June)	Production*				Exports from India	Stocks*
	Hessian	Sacking	Others	Total		
1942–43	484	662	59	1,205	689	276
1943–44	393	522	39	954	635	196
1944–45	415	545	40	1,000	663	177
1945–46	464	581	40	1,085	709	188
1946–47	418	510	34	962	750	176
1947–48	482	520	33	1,035	896	120
1948–49	434	577	29	1,040	875	107
1949–50	285	505	35	825	754	71
1950–51	330	493	35	858	716	90
1951–52	309	607	29	945	795	99
1952–53	348	511	33	892	676	134
1953–54	390	445	31	866	811	87
1954–55	399	558	38	995	866	88
1955–56	403	623	69	1,095	875	127
1956–57	428	527	70	1,025	862†	116

* Represents I.J.M.A. mills and Gagalbhai. † Provisional.

In order, however, to have a correct perspective on the prices of raw jute and jute manufactures, the following index number of prices will be interesting :—

INDEX NUMBER OF PRICES

(Base July 1914=100)

Period	Raw Jute	Manufactured Jute
Average of 1929-33	59	88
,, ,, 1934-38	49	69
,, ,, 1939-43	87	134
,, ,, 1944-48	188	274
,, ,, 1949-53	322	431
1950	301	424
1951	517	645
1952	277	386
1953	227	307
1954	248	331
1955	283	328
1956	293	313
1957 Jan. ..	344	335
Feb. ..	328	311
March..	336	308
April ..	336	315
May	369	326

Ever since the devaluation of the Indian rupee and non-devaluation of the Pakistani rupee, supplies of raw jute from Pakistan badly needed by Indian jute mills became difficult and while there was a boom in the demand for jute goods due to outbreak of hostilities in Korea in mid-1950, the production of jute goods outside India considerably increased. This competition became intense following Pakistan's decision to charge a higher price for supplies meant for India and, consequently, the Government reduced the export duty on jute goods by substantial amounts. In August 1955, immediately after the devaluation of the Pakistan rupee export duties were abolished.

Jute mills increased their working hours from a reduced level of 42½ hours to 45 hours a week from July 1954 and further to 48 hours a week from October 1954.

The main problems facing the industry, observes the Planning Commission, are shortage of raw material, modernisation of equipment and possible competition in the foreign markets from substitutes and other products. Lack of finance is a major factor deterring the industry from undertaking modernisation. The task, therefore, is to utilise the existing capacity more fully by procuring greater supplies of raw jute. On this basis, it is expected that the output of the mills could be stepped up from 1,150,000 tons in 1955-56 to 1,200,000 tons in 1960-61 and exports from 875,000 tons to 9,00,000 tons.

The figures of exports in the financial years 1954–55 to 1956–57 are as follows :—

	1954–55	1955–56	1956–57
Twist and Yarn (lb.)	6,684,919	5,082,518	6,109,734
Manufactures			
Bagging for Raw Cotton (cwt.) ..	495,238	631,853	734,432
Canvas ,, ..	14,408	11,078	9,456
Carpets ,, ..	14,896	8,294	11,824
Sacking Gunny Bags (tons)	427,862	419,415	405,704
Hessian Gunny Bags ,, ...	22,647	33,032	44,609
Sacking Gunny Cloth ,, ...	12,853	13,383	12,254
Hessian Gunny Cloth ,, ...	346,971	349,101	382,984
Total of Jute Manufactures including twist and yarn (tons)	850,869	863,261	898,515

LAC INDUSTRY

LAC is a resin which finds extensive application in industries. It is a resinous protective secretion of an insect which lives by sucking the sap of certain trees and shrubs called lac hosts.

There are four crops of sticklac, named after the Hindu months in which the collection of each crop commences. These are 'Baisakhi' and 'Katki' from one strain of the insect (Rangeeni) and 'Jethwi' and 'Aghani' from another strain (Kusumi). The first processed product, after the crushing and washing of sticklac is known as 'seedlac'. From this shellac is manufactured either by melting it (seedlac) manually in cloth bags held near a fire place called 'bhattas' or by the mechanised process of extraction with suitable solvents.

India is the chief source of supply of sticklac and till 1950 accounted for nearly 85 per cent of the world production. But since then production in Thailand has rapidly increased and now accounts for about 30 per cent of the world production. The average production of sticklac in different States from 1946-56 is as follows :—

State	Average Crop (in maunds)
Bihar	4,53,500
Madhya Pradesh	2,93,000
West Bengal	2,38,500
Bombay	64,000
Assam	17,000
Orissa	17,000
Uttar Pradesh	12,500
Other States	20,500
Total	11,16,000

There are no regulated markets for trading in sticklac. The manufacture of shellac is a cottage industry and the number of shellac factories varies from season to season. According to the latest information there are about 366 factories in the country; only two of these which are located in Calcutta are fully mechanised.

Yield from sticklac varies from year to year and locality to locality.

Roughly the yield of seedlac and shellac is 65 per cent and 55 per cent of sticklac.

The cost of manufacturing one maund of shellac from seedlac is about Rs. 16 and of converting sticklac into seedlac is Rs. 8. In 1939 these were roughly Rs. 3-8 and as. 8 respectively.

PRICE TRENDS

Prices of shellac and seedlac have been subject to wide fluctuations.

During the First World War, the price of T.N. Shellac at Calcutta ranged between Rs. 32 and Rs. 50 per maund but the upward movement initiated in 1917-18 lifted it beyond Rs. 200 in October 1920. Then followed a downward trend except for a slight recovery in 1927-28 and 1934-35, and the rate touched the bottom at Rs. 18 in 1933-34 and sought a fresh lower level at Rs. 13 per maund by April-June 1939.

During the Second World War—July 1942 to April 1946—the prices were controlled on T. N. basis at Rs. 64 and later at Rs. 71.

After decontrol, the prices started riding, but in March 1950 they fell to Rs. 95 on T. N. basis as compared with an average price of Rs. 180 in December 1949.

Following the outbreak of the Korean war, the price touched Rs. 190 in January 1951 but declined by the end of March 1952 to Rs. 92 per maund.

During 1952-53 the market was subdued with pure T. N. Shellac fluctuating between Rs. 84 and Rs. 66. There has been a firm trend since 1953 April and in November the rate was around Rs. 107 per maund.

In 1954 the prices went down to about Rs. 90 per maund in March but started rising and reached Rs. 178 in January 1955. But due to a very good crop it started falling and reached Rs. 136 by September 1955. It rose to about Rs. 163 in November 1955 but started falling due to a very good crop in Thailand and reached Rs. 111 by April 1956. Between May and September 1956 the prices rose to about Rs. 130 per maund but again due to a very good Katki crop in the country and a good crop in Thailand and the prospect of a good Baisakhi crop the prices came down to Rs. 95 per maund on T. N. basis by the end of January 1957.

In the absence of demand owing to a wait and watch policy adopted by foreign buyers the prices further declined to Rs. 85 per maund on T.N. basis by the end of March 1957.

EXPORTS

About 90 per cent of the total quantity of processed goods is exported.

The U.S. is the best customer, followed by the U.K. and Germany. Since 1953 the U.S.S.R. has also been buying a sizable quantity.

The data relating to exports during 1955-56 and 1956-57 are given below (in cwt.) :—

——	1955-56	1956-57
BUTTON LAC		
U.K.	6,498	5,836
U.S.A.	4,833	4,748
Other countries ..	3,258	4,121
Total	14,589	14,705
SEEDLAC		
U.K.	12,959	11,742
U.S.A.	1,33,362	1,03,463
Others	25,857	25,480
Total	1,72,178	1,40,685
SHELLAC		
U.K.	69,147	82,589
U.S.A.	57,084	54,074
Germany (West) ..	36,998	23,895
Others	1,64,881	2,00,607
Total	3,18,110	3,61,165
STICK	3,206	1,137
OTHER KINDS	60,471	47,442
TOTAL ..	5,68,554	5,65,134

During the first nine months of 1957, 4,01,000 cwts. of shellac valued at Rs. 5·4 crores were exported. In 1958 the quantity, it was expected, might be the same as in 1957 but the value might be less by about Rs. 2 or 3 crores.

Lac has made significant contributions to the development of art and industry.

Shellac is consumed chiefly by five industries.

The gramophone industry consumes about 11 to 13 thousand tons.

The varnishes and paint industry absorbs something like 4 to 6 thousand tons.

The total demand from the electrical industry is estimated at 3,000 tons as against 6,000 tons in pre-war years.

Nearly 3,000 tons are used in the hat industry as a stiffening material.

The manufacture of sealing wax requires about 1,500 tons.

For the promotion of the improvement of methods of cultivation and manufacture of lac in India the Indian Lac Association for Research was formed by traders in Calcutta in 1921 and the Government found the funds by levying a cess on all exports of lac other than refuse lac at annas four per maund and for refuse lac annas two per maund. This association set up the Indian Lac Research Institute at Namkum (Ranchi).

At the suggestion of the Royal Commission of Agriculture in 1927 this association was succeeded by the Indian Lac Cess Committee which was established under the Lac Cess Act of 1930 formed "for the improvement and development of the cultivation, manufacture and marketing of Indian lac". By this Act the cess was raised to annas seven and annas five respectively. With effect from April 1948 this cess was doubled. In order to associate the members of Parliament with the Committee and also to provide adequate representation to all the lac growing States the Indian Lac Cess Act has recently been amended.

On 19th September 1956, the Committee celebrated its Silver Jubilee and to mark the occasion brought out a Souvenir publication containing an exhaustive survey of research and statistics on lac and a detailed directory of lac trade. This publication is available from the Secretary, Indian Lac Cess Committee, Circular Road, Ranchi.

The Indian Lac Cess Committee works under the control of the Ministry of Agriculture, Government of India.

An Export Promotion Council for shellac has also been formed under the Central Ministry of Commerce and Industry to promote exports of shellac.

At the suggestion of the Bihar Shellac Enquiry Committee and the Indian Lac Cess Committee the Government of India banned futures trading in shellac and seedlac.

Under the Second Five-Year Plan it is proposed to spend Rs. 50 lakhs for the development of the industry. The more important of the schemes are (*i*) 50 broodlac farms to increase the production of lac to 16 lakh maunds; (*ii*) Seven regional testing laboratories for testing shellac and (*iii*) A number of storage godowns in order to provide better marketing and credit facilities.

MISCELLANEOUS INDUSTRIES

Agricultural Implements: There are 61 factories manufacturing the implements, with a productive capacity of 26,880 tons in terms of steel. The Tata (Agrico) Jamshedpur is the largest unit with an annual capacity of 12,000 tons. They also include two units in the public sector, viz., the Nahan Foundry and the Mysore Implements Factory. Actual production by the organised sector was 18,195 tons in 1952, 8,046 tons in 1953, 12,728 tons in 1954, 13,875 tons in 1955 and 14,808 tons in 1956. In addition there were 350 small units registered with State Governments.

Agricultural Machinery: In 1950 there were eight organised units manufacturing power-driven pumps with a capacity of 39,460 pumps per annum. At the end of 1956, the number was 27 with an annual installed capacity of 65,692 pumps.

The actual production was 34,000 in 1950-51; 46,000 in 1951-52; 25,000 in 1952-53; 28,000 in 1953-54; 29,500 in 1954-55; and 36,000 in 1955-56.

During the calendar year 1956, 46,881 pumps were manufactured as against 34,441 in the preceding year.

Imports of centrifugal pumps including turbine pumps were worth in 1950-51 Rs. 57 lakhs; 1951-52 Rs. 95·6 lakhs; 1952-53 Rs. 80·6 lakhs; 1953-54 Rs. 66·4 lakhs; 1954-55 Rs. 59·3 lakhs; 1955-56 Rs 51·6 lakhs; April-Dec. 1956: Rs. 59·16 lakhs.

Total demand in 1955-56 was about 40,000 pumps, and it is expected to rise from 85,000 to 86,000 pumps by 1960-61. To meet this increased demand, some schemes have been recommended under the Second Five-Year Plan. With their implementation, the capacity will increase to 74,700 pumps per annum.

For the first time, pumps above 6" in diameter, multi-stage pumps (up to 10 stages), axial flow pumps, screw pumps, sewage disposal pumps and self-priming pumps were manufactured.

There is a Development Council for power-driven pumps and diesel engines.

Diesel Engines: At the beginning of the First Plan there were five units engaged in the manufacture of diesel engines with a combined annual rated capacity of 6,320 engines. By the end of the Plan, the number increased to 16 with a capacity of 19,759 engines per annum. This number rose to 17 at the end of 1956 with a total annual installed capacity of 22,169 engines. Actual production during 1956 aggregated 12,015 engines. In addition, three more firms with a capacity of 10,000 engines for the manufacture of road vehicular type of diesel engines were established to meet the automobile requirements.

The production of diesel engines of different horse power was: 5,540 in 1950-51; 7,263 in 1951-52; 2,909 in 1952-53; 5,244 in 1953-54; 9,273 in 1954-55; and 10,000 in 1955-56.

The total demand by 1960-61 is estimated at between 20,000 and 21,000 engines upto 50 H.P.

The Jaymes Beechey & Co., Bombay have been granted a licence for the manufacture of 2,400 diesel engines ranging from 3 to 30 H.P. in collaboration with foreign concerns. Another licence has been granted to Ruston & Hornsby (India) Bombay for the manufacture of high horse power diesel engines ranging from 100 to 1,000 H.P. with a capacity of 200 engines per annum. On the basis of all these schemes, the capacity and production targets envisaged in the Second Five-Year Plan are 220,000 H.P. and 205,000 H.P. respectively.

Agricultural Tractors: At the beginning of the Second Plan, there was no regular tractor manufacturing plant. The requirements are met by imports. The imports were: 1950-51, 4,930; 1951-52, 7,148; 1952-53, 1,227; 1953-54, 3,195; 1954-55, 2,939.

It is estimated that more than 20,000 tractors are in use at present in the country as against 10,000 in 1949-50. And the total requirements for all types of tractors by 1960-61 have been estimated by the Committee on Tractors and Tractor drawn Agricultural Implements at 5,000 per annum.

The Standard Motor Products of India, Madras, have been licensed to manufacture 4,800 tractors a year in association with the Standard Motor Co. of the U.K.

Machine Tools: Till 1930, the development of machine tools came largely from private enterprise. But when the war broke out, the Government of India had to take steps for the manufacture of machine tools badly needed for war supplies and so the industry developed rapidly. But the unloading of huge stocks of machine tools from war surplus and heavy imports dealt a blow to the industry. The protection recommended by the Tariff Commission did not help it much. It was the First Five-Year Plan that really pulled it up. At present, there are 18 units, two owned by the Government and 16 by private enterprise, manufacturing graded machine tools. The capital investment (private) is about Rs. 90 lakhs and the total number of persons employed exceeds 2,000.

The position in respect of actual production during 1955 and 1956 is shown below:

Article	1955		1956	
	No.	Value Rs.	No.	Value Rs.
Complete tools	3,064.	67,88,381	3,016	1,08,18,455
Accessories	7,488	6,51,937	15.418	12,04,224

As a result of a comprehensive census of the existing machine tools in the private sector, it has been found that there is ample scope for expansion. So the Government appointed in February 1956 a Committee to assess the overall requirements and the pattern of future development of the industry.

As a part of the overall programme, an expansion of the Hindustan Machine Tools is envisaged during the Second Plan. The production of lathes at the Jalahalli Works of this concern is expected to be worth Rs. 1·5 crores in 1960-61. The production in the private sector is currently worth about Rs. 75 lakhs per annum. A provisional target of Rs. 3· crores worth of machine tools is proposed for 1960-61 for the public and private sectors pending submission of the Report of the Expert Committee.

The capacity of the machine tool industry in terms of value was Rs. 3·9 crores in 1956 as against Rs. 1·42 crores in 1955.

According to Mr. M. Smith, U.S. Assistant Secretary of Commerce for International Affairs, the existing machine tool plants in India supplied about 20 per cent of India's present needs and that the remainder would have to be supplied from abroad. By 1960-61 at the end of its Second Five Year Plan, India hopes to increase its machine tool output ten-fold to a total value of 20 million dollars (Rs. 950 lakhs).

Mr. Smith said there were now 80,000 machine tools in operation and by 1960-61 it was estimated 170,000 would be required.

Cotton Textile Machinery: The principal items are carding engines, spinning ring frames and looms. The target capacity and production in the First Plan for carding engines was 600 and in the Second Plan 1,692. There was only one unit with a capacity for 600 engines. Actual production was 1951: 158; 1952: 108; 1953: 192; 1954: 436; 1955: 600; 1956: 732.

The total value of the textile machinery produced in 1957-58 was Rs. 9 crores. It is expected that by 1961 self-sufficiency would be achieved in most items.

It is estimated that the annual demand under the Second Plan is 1,400 for new units and 600 for replacement, totalling 2,000 units. To meet this demand, the Government has approved the proposal of the private sector for 600 carding engines by the National Machinery Manufacturers and 300 by Texmaco for implementation.

At present the annual demand is estimated at 2,810 ring frames, 7·8 lakh spindles, 23·4 lakh spinning rings, 312,300 fluted rollers and 14,625 looms.

About spinning ring frames, there were 2 units with a rated capacity of 396 pieces per annum. Two more units were expected to start production early in 1955 bringing the total capacity to 996 ring frames against the Plan target of 800. Actual production was 1951: 291; 1952: 255; 1953: 197; 1954: 314; 1955: 868; 1956: 1,111. The production target set in the Second Plan is 1,896.

About looms, there were three units with a capacity for producing 4,320 looms per annum; the target capacity in the First Plan was 4,980. The actual production was 1951: 2,166; 1952: 1,527; 1953: 1,340; 1954: 1970; 1955: 2,346; 1956: 2,476. The target production set in the Second Plan is 6,000 looms.

The production of spindles rose from 5·72 lakhs in 1954 to 10·5 lakhs in 1956, of fluted rollers from 2·26 lakhs to 3·84 lakhs.

Protection to the industry was extended upto the end of 1957 at the protective duty of 10 per cent. for spinning ring frames and looms.

Ball Bearings: There is one unit with an annual rated capacity of 600,000 ball bearings on a single shift basis. The actual production was 1951-52: 249,661; 1952-53: 496,106; 1953-54: 691,607; 1954-55: 669,580; 1955-56 (estimate): 889,500. The production includes ball bearings of 3" bore. The total demand by 1960-61 is estimated at 2·4 million bearings which the existing firm would be able to meet with its expanded capacity and by working on a multiple shift system. The production of 21 different sizes of roller bearings was undertaken for the first time.

The number of ball bearings actually produced during the calendar year 1956 was higher at 1,040,104, the figure for 1955 being 806,232.

Protection had been granted upto the end of 1956.

Bicycles: The number of cycles produced in 1950-51 amounted to 1·01 lakhs and in 1951-52 to 1·20 lakhs. By 1953-54 the number manufactured by the six major producers had risen to 2·89 lakhs and 1954-55, with the commencement of production by some new units, the production reached the level of four lakhs. The production in 1955-56 was estimated to be about 5·5 lakh cycles as against the target of 5·3 lakhs envisaged in the First Plan.

At the end of 1950, there were fourteen units manufacturing complete bicycle. The aggregate annual capacity was 852,500. The actual production in the calendar year 1956 was higher at 663,969, and in 1957 it was estimated at 8 lakhs.

But the internal demand has shown a steady rise From 4 03 lakh cycles in 1951-52 it moved up to about 6·8 lakhs in 1955-56. It is expected that the offtake will go up to 11 lakhs at the end of the Second Plan. Besides, an export of 1·5 lakh cycles is also envisaged.

This is to be achieved through the organised sector as well as the decentralised sector of the industry. In the beginning of March 1955, there were about 460 small-scale units. In view of the considerable employment potentialities of the small-scale sector, it is considered that it will be enabled to produce 2·5 lakh cycles per annum by 1960-61. The balance of 10 lakhs is expected to be produced by the organised sector which includes 13 major units.

A Development Council was constituted for this industry in December 1953.

There are 23 leading manufacturers of bicycle components and parts, besides a large number of small units. All types of bicycle components are now produced within the country though production is not always adequate in quality or in quantity. Consequently most manufacturers of complete bicycles still import some components. It was expected that by 1955 the value of components would not exceed Rs. 7 or 8 per bicycle. Production: Rs. 290·9 lakhs in 1954-55 and Rs. 311·5 lakhs in 1955-56.

The industry can practically meet all internal requirements.

Protection was granted upto the end of 1956.

Sewing Machines: At the end of the First Plan there were three organised units engaged in the manufacture of complete domestic sewing machines with a total capacity of 46,500 machines per annum. This has since gone up to five units with a total annual capacity of 50,200 machines. Actual production in 1956 was 130,388. It is estimated that the present demand for the domestic and industrial types of machines of 130,000 to 160,000 machines per year may go up to 300,000 by 1960-61. This can be met by the production from the small-scale sector as well as from the organised sector with its expanded capacity. Of these about 30,000 machines are ear-marked for export. Production—32,965 in 1950-51; 48,116 in 1951-52; 52,206 in 1952-53; 68,417 in 1953-54; 80,776 in 1954-55; 110,000 (estimate) in 1955-56.

The protection granted to the industry has been withdrawn since January 1, 1955.

Hurricane Lanterns: There are 11 units with a capacity of 4,042,800 lanterns a year. The Second Plan target is 6 million. Production was, 1950-51: 3·2 million; 1951-52: 3·9 million; 1952-53: 3·5 million; 1953-54: 4·5 million; 1954-55: 5·1 million; 1955-56: 5·4 million.

During the calendar year 1956, 5,179,719 lanterns were produced.

Actual export was 1950: 15,036; 1951: 14,136; 1952: 108,264; 1953: 449,734; 1954-55: 349,079 valued at Rs. 3·83 lakhs; 1955-56: 204,670 valued at Rs. 5·15 lakhs; April-Dec. 1956: valued at Rs. 88,726.

Protection has been withdrawn since January 1, 1955.

Grinding Wheels: There are three units with a rated capacity of 1,750 tons. It is expected that with the completion of the expansion schemes, this rated capacity will increase to 2,110 units which is considered to be adequate to meet the demand by 1960-61. Production—1950-51: 231 tons; 1951-52: 352 tons; 1952-53: 390 tons; 1953-54: 395 tons; 1954-55: 525 tons; calendar year 1955: 681 tons; 1956: 1,112. Imports: 1050-51; 209 tons; 1951-52: 202 tons; 1952-53: 93 tons; 1953-54: 112 tons 1954-55: 158 tons; 1955-56: 60 tons.

Protection had been granted upto the end of 1957.

Electric Goods: The value of electrical consumer goods produced in 1957 (lamps, fans, radio sets, batteries) was estimated at Rs. 25 crores. The Second Plan target is Rs. 40 crores.

Dry Batteries: There are five units with a capacity for producing 224·5 million dry cells a year. The Second Plan target is 225 million. Production—1950-51: 136·5 million; 1951-52: 146·0 million; 1952-53: 125·0 million; 1953-54: 153·0 million; 1954-55: 148·4 million; 1955-56: 161·1 million. About 105·6 million cells were produced in 1956 as against 86·13 million cells in 1955, both being calendar years. The exports were 1950: 85,193 valued at Rs. 0·2 lakhs; 1951: 1,445,673 valued at Rs. 2·58 lakhs; 1952: 1,114,966 valued at Rs. 2·92 lakhs.

Attempts are being made to manufacture the raw material in this country—manganese dioxide, sealing compound, carbon electrodes.

There has been no protection since January 1954.

Storage Batteries: There were 13 units with an annual rated capacity of 316,500. The anticipated demand in 1960-61 is 420,000. Production—1951-52: 212,836; 1952-53: 136,000; 1953-54: 179,000; 1954-55: 210,100; 1955-56: 258,086; Calendar year 1956: 314,199.

There is progress in the diversification of products and a greater degree of self-sufficiency about raw materials. Among the different products are aircraft batteries and railway requirements. Schemes for the manufacture of dry-charged batteries, iron-clad batteries, heavy duty and traction batteries have been approved. Raw material manufacture includes refined lead and microporous rubber separators.

Between the years 1951 and 1954 the imports averaged Rs. 27·6 lakhs. Exports were only a few thousands.

Protection to the industry has been withdrawn since January 1, 1956.

Electric Cables and Wires: Actual production of 1. bare copper conductors, 2. winding wires, 3. rubber insulated cables and flexibles, 4. A.C.S.R. cables is as follows:

	in tons (1)	in tons (2)	in mil. yd. (3)	In tons (4)
1952	7,522	383	36·2	2,381
1953	7,372	226	48·4	3,280
1954	7,576	318·59	62·7	5,481
1955	8,434	605	86·1	8,045
1956	10,255	762	105·6	11,287

The major schemes envisaged in the Plan are the Hindustan Cable Factory in the public sector for producing different kinds of cables, (this started regular production on Sept. 1, 1954), the expansion of the Indian Cable Company at an estimated cost of Rs. 2·8 crores, the expansion of capacity for A.C.S.R. cables from 2,500 tons to 5,000 tons per annum, the creation of producing facilities for 500 tons of insulated aluminium conductors per annum.

A new rod mill of the Indian Cable Company with an installed capacity for producing 6,700 tons of black copper and aluminium rods, 100 tons of cotton and paper covered wires and 3 million yards of plastic insulated cables and flexibles per annum has been established.

About A.C.S.R. the expansion of capacity is estimated to be of the order of 13,000 to 14,000 tons per annum.

Electric Fans: There are 19 units with an installed capacity of 401,700 fans per year. The Second Plan target capacity is 600,000 fans per year in 1960-61. There are plans for expansion which will result in a production capacity of 466,800 fans per year.

Actual production was 1950: 194,100; 1953: 199,468; 1954: 238,850; 1955: 282,230; 1956: 338,932.

Exports of electric fans are expected to reach about 40,000 per year by 1960-61. Exports were: 1952-53: 3,655 valued at Rs. 4·9 lakhs; 1954-55: 10,869 valued at Rs. 13·6 lakhs; 1955-56: 16,456 valued at Rs. 19·51 lakhs; Apr. to Dec. 1956 valued at Rs. 11·57 lakhs.

Electric Lamps: There are 11 units manufacturing general lighting service lamps with an installed capacity of 43·8 million lamps per year. The target is 50 million by 1960-61.

Production was, 1950: 14 million; 1953: 19·8 million; 1954: 22·86 million; 1955: 23·51 million; 1956: 29·9 million.

There is progress in the manufacture of other kinds of lamps—train lighting, coloured lamps, fluorescent tubes, torch bulbs, radio dial lamps, cycle dynamo lamps, auto bulbs, telephone switch-board lamps. Manufacture of components has also started—brasslamp caps. Glass shell production is being expanded to meet the entire requirements of the lamp industry.

Electric Meters: There were 14 units with a total capacity of 339,100 H.P. in 1956. When all the schemes for expansion are implemented the total capacity is expected to rise to about 833,700 H.P. by 1960-61.

Actual production was, 1950-51: 99,000 H.P.; 1951-52: 153,000 H.P.; 1952-53: 160,000 H.P.; 1953-54: 161,000 H.P.; 1954-55: 201,000 H.P.; 1955-56: 271,000 (estimate).

During the calendar year 1956 the production amounted to 359,062 H.P. (59,742 nos) as against 251,915 in 1955.

A.C. 3 phase induction motors upto 225 H.P. and motors of the slip-ring type of up to 125 H.P. are now being produced in the country.

Protection has been granted upto the end of 1958.

Electric Transformers: On April 1, 1956, there were 13 units with an annual rated capacity of 657,000 KVA per annum. When the present schemes for development are implemented, the capacity will go up to 1,310,000 KVA per annum—against the Second Plan target of 1·5 million KVA by 1960-61.

Production was 1950-51: 179,000 KVA; 1951-52: 202,000; 1952-53: 231,000; 1953-54: 327,000; 1954-55: 434,000; 1955-56: 629,000.

Production in the calendar year 1956 was 919,198 KVA as against 564, 713 KVA in 1955. The rated capacity at the end of 1956 was 934,000 KVA, the number of units being 14

Imports were valued at Rs 154 lakhs in 1950-51; Rs. 144-5 lakhs in 1951-52; Rs 149·4 lakhs in 1952-53; Rs. 197·5 lakhs in 1953-54; Rs 161·6 lakhs in 1954-55; Rs 173 41 lakhs in 1955-56, and Rs. 146 98 lakhs during April-December 1956.

Protection was granted upto end of 1956.

Soap: There are 90 organised units with a capacity of 253,770 tons. The Plan target is 357,000 tons by 1960-61. A large part of the existing capacity is idle.

Production by organized factories was (in tons) 1951: 86,000; 1952: 85,000; 1953: 82,200; 1954: 88,000; 1955: 99,000, 1956. 110,250. The cottage industries are estimated to produce 30,000 tons annually.

Exports were 1950: 280 tons; 1951: 1,580 tons; 1952-53: 1,300 tons valued at Rs 32·56 lakhs; 1953-54: 571 tons valued at Rs. 13·57 lakhs; 1954-55: 542·6 tons valued at Rs. 14·57 lakhs; 1955-56: 413·8 tons valued at Rs. 9·67 lakhs; Apr. to Dec. 1956: 209 tons valued at Rs. 5·88 lakhs.

Matches: There are 242 units with a rated capacity of 35·3 million gross boxes. The Second Plan target is 35·3 million gross boxes.

Actual production was in millions of gross boxes, 1951: 29·3; 1952: 32; 1953: 29·3. 1954: 26·5; 1955: 31·18; 1956: 29·46.

Both imports and exports are negligible.

The First Five Year Plan laid great emphasis on the development of the cottage sector and a number of measures to help development are under consideration.

Plywood: The number of units on the approved list of DWCI is 65 with an annual installed capacity of 150·6 million sq. ft. Besides there are a large number of unapproved factories with an estimated capacity of about nine million sq. ft. Actual production of tea-chest plywood in million sq. ft. was 1950: 44·9; 1952: 71; 1953: 50; 1954: 62; 1955: 91·13; 1956: 98·33.

Protection had been guaranteed upto the end of 1957.

Razor Blades: The estimated production of razor blades in 1957 was about 336 million. The total installed capacity of Indian factories was about 615 million. Permission has been granted to open new factories. The retail price of indigenous blades was about annas four to eight per packet of ten blades. It is not possible to make an assessment of the actual requirements of razor blades in India. Imports are not allowed at present.

Thermos Flasks: The production of thermos flasks in India, which was just a little over 6,900 dozens in 1951, increased to about 54,000 dozens in 1957.

The production in 1956 was over 48,000 dozens and in 1955 about 44,000 dozens.

The present demand in the country is estimated at between 60,000 and 70,000 dozens of flasks per year. This is expected to increase to 1,00,000 dozens by the end of the Second Plan period.

There are now three units in the country manufacturing thermos flasks with a total installed capacity of over 1·07 lakh dozens per year. Licences have been granted to establish two more units. When these schemes take shape, the total installed capacity will go up to 2·27 lakh dozens per year.

The value of imports of thermos flasks in 1956-57 was just over Rs. 8·3 lakhs. For the period January to August 1957 the imports were valued at over Rs. 56,000.

Three units are engaged in the manufacture of ampules by automatic machines. The total capacity of these three units is over 35 lakh ampules per month. Besides these there are a number of small-scale units manufacturing ampules by the table-blowing process.

NON-FERROUS INDUSTRY

THE position regarding these metals is briefly described below:

(a) Aluminium Ores:—India is rich in deposits of high grade Bauxite which are estimated at 250 million tons, but the total reserves of workable deposits are said to be around 28 million tons. These are generally located in the Jabalpur and Balaghat Districts of Madhya Pradesh; Belgaum District in Mysore; Kolhapur, Thana and Kaira Districts in Bombay; Ranchi Plateau in Bihar; and Shevaroy Hills in Salem, Madras. The known estimates of 250 million tons of bauxite make possible production of about 40 to 50 million tons of virgin aluminium metal.

(b) Copper Ores:—Copper pyrites is the principal ore of copper. The deposits of copper pyrites in India are in Singbhum and Baragunda in Bihar; Khetri mines in Jaipur; Sikkim State, Mysore State and in the Salem District of Madras State. Although only the Singbhum deposits are worked at present, the copper belts of Sikkim and Khetri are very promising.

(c) Lead Ores:—Lead ores are known to occur at a number of places in India. Special mention may be made, however, of lead deposits in Jaipur and in Jawar Mines in Udaipur, where lead is found in association with zinc; in Chhota Udaipur in Bombay and in Hazaribagh in Bihar.

(d) Antimony Ores:—Antimony ore deposits have been found at the Shigree Glacier in Lahaul, Kangra District, Punjab.

(e) Zinc Ores:—At present zinc deposits are known to occur at only two places in India: Zawar mines in Udaipur and in the Riasin District in Kashmir State.

(f) Tin Ores:—Hazaribagh, Bihar.

PRODUCTION

The production of refined copper in tons is as follows: 1946—6,310; 1947—5,932; 1948—5,864; 1949—6,390; 1950—6,614; 1951—7,083; 1952—6,079; 1953—4,920; 1954—7,161·6; 1955—7,281; 1956—7,628·4. The installed capacity of the industry was 6,999 tons in 1948; grew to 7,200 in 1955, since when it has stood at this figure.

As regards processing of semi-manufactures the only production was of brass sheets by the Indian Copper Corporation Ltd. averaging about 8,000 tons per annum, and electric copper wires and insulated cables by the Indian Cable Co. Ltd. A more recent development is the manufacture of brass and copper pipes and tubes. Their annual capacity is 360 tons but the actual production has never exceeded 11 tons and 60 tons respectively.

For antimony a smelter was set up during the war at Bombay by the Star Metal Refinery with a capacity of 300 tons per annum. This capacity has now been increased to 1,000 tons per annum. The ore brought from Chitral State (Pakistan) was used for smelting antimony and the plant had reached full production in 1946-47. After the partition of the sub-continent, the ore supplies from Chitral were cut off and as a result the production suffered. The production from 1949 to 1956 was: 100 tons in 1949, 375 tons in 1950, 327 tons in 1951, 181 in 1952, 131 in 1953, 539 in 1954, 504 in 1955 and 589 in 1956.

There is a new Lead Smelter at Katrasgarh in Bihar with a capacity of 7,000 tons per annum. The production of lead in 1949 and 1950 was, however, only about 600 tons a year due to the difficulties of transporting ore from the Jawar mines in Udaipur to the Smelter. The company has now set up an ore dressing plant at the mines which will reduce the weight of the ore to be transported. The capacity of this plant is reported to be 9,000 to 10,000 tons of lead concentrates of 60 to 65 per cent. lead and 7,000 to 8,000 tons of zinc concentrates averaging 55 per cent. zinc. There are also lead refineries in Bombay and Calcutta, which started working in 1955. The production in tons is as follows: 1948—625; 1949—594; 1950—627; 1951—859; 1952—1,131; 1953—1,694; 1954—1,788; 1955—2,234; 1956—2,497. The installed capacity in 1951 was 6,000 tons and remained unchanged in 1955.

SEMI-MANUFACTURES

The greatest progress in the non-ferrous industry made since 1939 is in regard to the semi-manufactures. Several brass and copper rolling plants were started for rolling brass and copper sheets mainly in Bombay. The combined capacity of these new plants is about 20,000 tons per annum.

Some lead sheets are also manufactured in the Calcutta area, but at present they are rolled in 3 ft. width, while the chemical industries require lead sheets of 7 to 9 ft. width. Aluminium and lead foils for tea-chests are also manufactured in the Calcutta area and the present capacity is estimated to be sufficient to meet India's requirements.

Several rolling plants for rods and bars of brass, copper, etc. were started during the war; afterwards an Extrusion Press was set up in Calcutta by National Tubes and Pipes Ltd. Arsenical copper rods which are required for railway locomotives as boiler stays were manufactured in Jaipur by the Jaipur Metal Industries Ltd. during the war and all the requirements of railways can be met by indigenous production. The present capacity for rods and tubes of brass and copper may be estimated at about 10,000 tons, which is enough to meet the present requirements of the country. The manufacture of lead pipes was started during the war at Konnanagar.

A new plant for lead pipes was also set up in Bombay during 1949. The present production is about 330 tons per annum, but this could be increased to 1,000 tons, if required.

A plant for the manufacture of electrical wires and cables was set up near Calcutta during the war by the National Insulated Cable Co. The total production of electrical bare copper wire and cables of this company and the Indian Cable Co. during 1956 amounted to 10,260 tons, the figure for the previous year, 8,436 tons. The installed capacity aggregated 17,796 tons.

Two plants one in Bombay and the other in Calcutta for the manufacture of enamelled copper wire required for making electric motors and fans have a total capacity of 2,000 lb. per day.

A number of concerns have been started for manufacturing different kinds of non-ferrous alloys. The refining and reconditioning of railway scrap and other industrial non-ferrous scrap is now done in this country, which was formerly largely exported. The total present alloying capacity in the country may be estimated at about 20,000 to 25,000 tons per annum.

A plant for the recovery of silver from old coins has been taken for implementation at the Alipore Mint. This plant will also be able to recover about 3,600 tons of electrolytic copper from copper scrap.

A scheme for erecting a ferro-manganese plant with an annual capacity of 100,000 tons, has been implemented. This plant is installed at the Hirakud Dam site in collaboration with

an Italian firm. But the target capacity has been stepped up from 100,000 tons to 160,000 tons per annum in view of the higher target for steel production. Seven new projects have been approved so far and the installation of further capacity is under consideration. It is expected that by the end of the Second Plan, there will be nine plants with an installed capacity of 171,800 tons. But the actual production then will reach only 160,000 tons, out of which 60,000 tons will be for internal consumption and 100,000 tons for export.

In most cases there is a protective duty of 30 per cent. In the case of zinc and lead sheets the protective duty is fixed at 20 per cent. and of arsenical copper rods, brass rods and brass wires, a protective duty of 35 per cent. The import duty on machinery is 5 per cent. which is applicable to all industries.

ALUMINIUM

Aluminium is the only non-ferrous metal which India can produce in large quantities because of extensive deposits of bauxite and adequate supplies of bulk power. There are two units. The Indian Aluminium Co. is working in collaboration with the Canadian Aluminium Co. The principal activities of this company are: (1) the mixing of bauxite in the Lohardaga region of Bihar; (2) the processing of bauxite ore to alumina at Muri, Bihar; (3) the electrolytic reduction of alumina to aluminium metal at Alwaye, Kerala; (4) the rolling of aluminium metals to sheets and circles at Belur, W. Bengal; and (5) the manufacture of aluminium powder and paste at Kalwa, Bombay. The Aluminium Corporation has an integrated plant near Asansol.

At the commencement of the First Five Year Plan, the total capacity of the two plants for aluminium ingots was 4,000 tons and of their rolling mills was 3,500 tons. But at the end of the Plan, the installed capacity of the industry was 7,500 tons of ingots and the fabricating capacity 25,900 tons per annum. During the period a total investment of about Rs. 2·25 crores is estimated to have been incurred.

A protective duty of 30 per cent *ad valorem* plus a surcharge of 5 per cent of the total duty was charged on imports of aluminium during the period of the First Plan. This protection will continue upto December 31, 1958.

The production of aluminium in tons since 1948 is as follows:—1948—3,369; 1949—3,489; 1950—3,596; 1951—3,848; 1952—3,566; 1953—3,758; 1954—4.886; 1955—7,225; 1956—6,500. The present installed capacity is 7,500 tons.

Except bauxite and coal, most of the other raw materials are available only partly or not at all from indigenous sources. Caustic soda and soda are not produced in enough quantities, cryolite, aluminium fluoride, carbon blocks and filter cloth have to be imported, and the possibilities of producing greenland in this country are yet to be investigated.

The demand for aluminium has been estimated at 25,000 tons. It seems that about 35,000 to 45,000 tons of aluminium represent the minimum requirements by 1960-61. The handicaps of the industry are the small capacity of the units, the inherent refractory nature of Indian bauxite which costs more to mine, the low alumina content of Indian bauxite, the high cost of electric power, the cost of railway freight and expensive raw materials such as petroleum coke.

To meet the increased demand, there are different schemes for the expansion of the industry under the Second Plan. Active steps have already been taken for the establishment of a 10,000-ton aluminium smelter at Hirakudi by the Indian Aluminium Company. It is expected to go into production in 1958. The expansion programme of the Aluminium Corporation of India, scheduled to be completed by the end of 1959, will raise the capacity of their Asansol plant to 5,000 tons per annum. Besides, a new smelter is being erected under the aegis of the National Industrial Development Corporation. An expert body examined the question of the most suitable location for the plant and recommended that two smelters of 10,000 tons each provided with facilities of expansion to 20,000 tons in due course should be set up at suitable sites—Mettur and Rihand Dam area. One of the 10,000-ton smelters is expected to come into operation during the Second Plan period, while the other may commence operation in the early stages of the Third Plan.

By the end of the Second Plan, overall investment in the industry is estimated at about Rs. 22 crores and about 3,000 to 4,000 additional persons are expected to find employment in this industry. The number of smelters will increase from two to four, the installed capacity from 7,500 tons to 30,000 tons and the fabricating capacity from 25,900 tons to 32,000 tons.

IMPORTS OF NON-FERROUS METALS

	1954-55	1955-56	Apr.-Dec. 1956
Aluminium (Cwts.)	247,605	316,108	216,045
„ unwrought (Cwts.)	66,160	103,594	32,735
Brass, Bronze, etc. (Cwt.)	139,618	38,757	69,351
Copper (Cwts.)	539,551	362,445	510,803
„ unwrought (Cwts.)	394,757	341,882	499,715
„ old for re-manufacture (Cwts.)	39,710	2,302	8,651
Ferro Alloys (Tons)	4,588	991	49
German Silver (Cwts.)	29,928	28,610	16,173
Lead (Cwts.)	203,526	265,486	205,487
Tin „	78,701	78,478	59,412
Zinc „	827,952	528,526	597,714

OPIUM INDUSTRY

POPPY is generally cultivated and does not grow in a wild state. In India, cultivation of poppy for the production of opium is carried on by growers licensed by the Government, on behalf of the Government of India, who undertake to sow the poppy, lance the capsules, collect the latex, and deliver the drug at the weighing centre at a price fixed by the Government of India.

The Opium purchased from the cultivators is sent to the Government factories at Ghazipur or Neemuch, where it is chemically tested and prepared for export and internal consumption.

In addition to being a narcotic, opium is used in many essential medicinal drugs. Because of its harmful effect as a dope, the Central and State Governments have adopted various measures to put an end to normal traffic ; at present only a very small fraction of the population makes habitual use of the drug.

Poppy cultivation for the purpose of production of opium is confined to the States of Uttar Pradesh, Madhya Pradesh and Rajasthan. The cultivation in the Territory of Himachal Pradesh was discontinued with effect from 1st October, 1954. The cultivation of poppy starts in November and the crop is harvested in April or May. Preparation of the land for the reception of the seed is a prolonged process, the field being given 10 to 15 ploughing.

The area under poppy cultivation for the production of opium and the quantities of opium produced during the opium years (1952-53 to 1955-56) are given below :—

	Opium year	Area Cultivated (Acres)	Produce at 70° Mds.
Uttar Pradesh	1952-53	30,760	5,404
	1953-54	19,098	3,614
	1954-55	12,521	3,093
	1955-56	12,531	2,324
Madhya Pradesh ..	1952-53	30,018	6,658
	1953-54	19,999	4,771
	1954-55	18,841	3,775
	1955-56	18,535	4,094
Rajasthan ..	1952-53	20,804	4,600
	1953-54	12,772	3,247
	1954-55	12,075	2,761
	1955-56	12,174	2,821
Himachal Pradesh ..	1952-53	2,047	85
	1953-54	1,784	45

N.B. :- -The opium year starts on 1st October and ends on 30th September.

Only a small percentage of the opium is sold to the State Governments after processing, and the balance is exported for medicinal and scientific purposes. Some opium is also supplied to Pakistan for quasi-medical purposes.

The quantities of opium exported during the opium years 1952-53, 1953-54, 1954-55 and 1955-56, are given below :—

Opium Year	Exports (in tons)
1952-53	119-5/14
1953-54	258-4/14
1954-55	211-5/14
1955-56	245-7/14

At a Conference of the State Governments held in 1949 it was decided to reduce the supply of opium to the States at the progressive rate of 10 per cent every year so that the supply of opium to the public for oral consumption (for non-medical or quasi-medical purposes) might be completely stopped with effect from 1st April, 1959. This decision was reiterated by the All India Narcotics Conference held in September, 1956.

After 31st March, 1959, opium will, however, be supplied to registered opium addicts through Government Depots on medical permits issued by the appropriate medical authorities.

The quantities of excise opium supplied to the State Governments during the financial years 1953-54 to 1955-56 are given below :—

Financial Year	Mds.	Srs.	Chts.
1953-54	2,514	27	8
1954-55	2,031	20	0
1955-56	1,734	34	8

In 1944, the Central Government erected an Alkaloids Plant at the Ghazipur Opium Factory for extraction and manufacture of various alkaloids from opium.

The quantities of various alkaloids exported and sold in the internal market during the opium years 1953-54 to 1955-56 are given below :—

Opium Year	Quantity exported			Quantity sold in internal market		
	Lb.	oz.	dr.	Lb.	oz.	dr.
1953-54	725	0	0	1,784	4	11
1954-55	791	2	3	2,027	5	1
1955-56	760	8	0	2,556	13	8

INTERNATIONAL CONTROL

International efforts to control opium date back to the beginning of the present century, and the League of Nations and the United Nations Organisation have, during the last four decades, been endeavouring to confine its use solely to medicinal and scientific purposes. An International Opium Commission met in Shanghai in 1909 as a result of which the first Opium Convention was drawn up at the Hague in 1912. Several treaties on narcotics have been signed since then but all efforts at limiting production of opium have met with limited success.

The Geneva Convention of 1925 provides for measures to regulate international trade in opium and other dangerous drugs. The latest International Protocol signed at New York on June 23, 1953 aims at limiting the production and control of the international and wholesale trade in opium, and incorporates many of the salient features of the comprehensive Indian system of control. This Protocol has however, not yet come into force.

Until the establishment of the plant for the manufacture of alkaloids, opium as a source of revenue lost its importance because of the deliberate policy of the Government to curtail opium consumption and exports. Between 1941-42 and 1946-47 the net receipts fluctuated between a surplus of Rs. 48 lakhs and a deficit of Rs. 52 lakhs. Since then the trends have been more helpful for the Central budget. Details for more recent years are given below :—

(In lakhs of rupees)

	1955-56 (Account)	1956-57 (Revised)	1957-58 (Budget)
REVENUE :			
Sale of opium to State Governments	53·00	27·66	32·03
Sale of medical opium	2·00	3·10	3·25
Sale of alkaloids	13·00	14·44	14·50
SALE ABROAD :			
Sale of raw opium	1,36·00	1,74·66	1,95·85
Sale of medical opium	—	—	—
Sale of alkaloids	4·00	3·23	3·50
Sale of miscellaneous	1·00	0·95	0·91
Total	2,09·00	2,24·04	2,50·04
Refunds	--	—0·04	—0·04
Net Revenue	2,09·00	2,24·00	2,50·00

PAPER INDUSTRY

THE bulk of the production comprises the more common types of paper, especially printing and writing paper. The manufacture of superior varieties is also undertaken but on a restricted scale.

The following table gives the trend of production :—

(In 000 tons)

	1951-52	1952-53	1953-54	1954-55	1955-56	1956-57
Printing & Writing ..	82·98	90·99	92·88	112·28	148·83	153·51
Wrapping	25·39	22·68	21·48	24·62	36·37	40·01
Special Varieties	2·70	3·04	3·41	5·53	7·15	7·50
Paper Boards	24·03	20·12	20·12	26·66	39·52	43·14
Total	135·09	136·84	137·89	169·09	231·87	244·26

Early in 1951, there were 17 paper factories with an annual rated capacity of about 136,600 tons. Since then, three new plants have gone into production. In April 1956, the annual rated capacity of the paper and paper-board industry stood at about 210,000 tons. This capacity is exclusive of the capacity of the Travancore Rayons for transparent paper estimated at 1,800 tons per annum. Newsprint was not manufactured in the country at the beginning of the First Plan. Since then, the State-aided Nepa Paper Mills has been established. But the production target of 27,000 tons has not been reached and the production of newsprint in 1955-56 is estimated to have been only about 4,200 tons. In regard to strawboards, there were in April 1951, 18 factories on the active list of the Development Wing of the Ministry of Commerce and Industry with a total capacity of 48,500 tons per annum. This number rose to 24 in April 1956 with an annual installed capacity of 59,380 tons.

The aggregate installed capacity of the paper industry in 1957 is estimated at 250,000 tons, as against 211,900 tons in 1956 and 186,200 tons in 1955. The total production of paper during the first six months of 1957 was nearly 102,000 tons, as against 94,700 tons in the corresponding period in the year before. In 1956, about 193,000 tons of paper were produced, as against 184,884 tons in 1955.

The gross fixed investment in the industry during 1951-56 was estimated at about Rs. 11 crores and it found employment for about 8,000 persons.

The State-wise distribution of the paper and paper-board industry in April 1956 is given below :—

State.*	No. of units.	Annual rated capacity (tons).
West Bengal	4	66,100
Bihar	1	29,000
Orissa	1	36,000
Uttar Pradesh	2	9,500
Punjab and PEPSU ..	1	15,000
Bombay	4	11,900
Madras	1	600
Madhya Pradesh	1	8,000
Andhra	1	2,000
Hyderabad	1	15,000
Mysore	2	11,000
Travancore-Cochin ..	1	6,000
	20	210,100

* Pre-reorganization.

Imports of paper and pasteboard in the recent years are as follows :—

1952-53—21 lakh cwt.
1953-54—25 lakh cwt.
1954-55—27 lakh cwt.
1955-56—30 lakh cwt.
Apr.-Dec. 1956—20 lakh cwt.

Exports have not been appreciable in the past. There has, however, been an improvement in shipments from 34,035 cwt. in 1952-53 to 46,586 cwt. in 1954-55 but a decline again to 43,276 cwt. in 1955-56. During the first nine months of 1956-57, exports of paper amounted to 38,769 cwt.

Paper and paper pulp had protection from 1925 to April 1947.

Certain new varieties of paper and paper-board were manufactured for the first time in the country during the First Plan period. These are cigarette tissues, coated boards, art and cromo paper, sensitised cheque paper and cellulose film. The production of transparent paper by the Travancore Rayons also increased appreciably during the period.

The demand for paper and paper-board has developed at a rather faster rate than was visualised in the Plan. But the demand for strawboards has hardly risen at all. The actual consumption on the basis of domestic production plus imports is given in the table below :—

(In 000 tons).

Year	Production 1	Imports 2	Consumption 1 + 2	Consumption Plan estimates
1951-52	135·0	33·0	168·0	175·0
1952-53	137·0	39·0	176·0	175·0
1953-54	137·9	42·0	179·9	
1954-55	169·0	38·0	207·0	
1955-56	231·9	38·0	269·9	200·0

Sabai grass and bamboo are the chief raw materials which are available locally. The use of imported woodpulp has been gradually discouraged and hardly 10 per cent of the raw material is imported. Of late, however, the industry has been placing a greater reliance on rags, hemp, hemp ropes and wastepaper. One important mill is exclusively dependent on wastepaper and rags.

For many years the paper pulp section of the Forest Research Institute at Dehra Dun has been carrying out experimental work in connection with the development of new fibres for paper-making.

Recent enquiries show that Kashmir and Tehri-Garhwal can supply fir and spruce in quantities sufficient for the establishment of newsprint mills in Kashmir and U.P. The two species of wood are well known raw material for the production of mechanical pulp for use in newsprint manufacture and the suitability of both the species from the two States has recently been tested at the Forest Research Institute, Dehra Dun.

DEVELOPMENT PROGRAMME

During the First Plan period, the consumption of paper and paper-board increased on an average by about 8 per cent. per annum. It is likely it will show a progressive increase of 10 per cent. during the Second Plan. On this basis, the demand by 1960-61 may be about 350,000 tons. The demand for newsprint would go up to 120,000 tons; while that for strawboards and other boards may be placed at 40,000 tons by end of the Plan period. Plans are therefore afoot to step up the capacity. A sum of Rs. 44 crores, over and above the investment of about Rs. 4·25 crores in public sector projects, will have to be invested in the paper and paper-board industry during the Plan period, to achieve the target capacity of 450,000 tons. The investment on newsprint factories is placed at Rs. 6 crores for 60,000 tons.

The Madhya Pradesh Government Newsprint Factory went into trial production in January 1955 using imported chemical pulp to start with. The estimated total cost of the NEPA Mills in Madhya Pradesh is about Rs. 6 crores.†

The basic raw materials required by the mills, *viz.*, bamboo and salai wood, will be available within the State of Madhya Pradesh, but the auxiliary raw materials like caustic soda, soda ash, salt cake, liquid chlorine, china clay, etc., may have to be obtained from outside the State.

The following table summarises the development of the industry during the First Plan and the planned development during the Second :

—	1950-51		1955-56		1960-61	
	Annual rated capacity (000 tons)	Actual output (000 tons)	Annual rated capacity (000 tons)	Actual output (000 tons)	Annual rated capacity (000 tons)	Actual output (000 tons)
Paper and paper-board	136·6	114	210	200	450	350
Newsprint	..	..	30	4·20	60	60
Strawboard and other fibre boards	48·5	22	59·3	32·6	59·3	35 to 40

† See also under 'Government Industrial Undertakings'. A newsprint factory is also to be set up at Bodhan in Andhra before the end of the Second Plan. Capacity : 30,000 tons a year.

PETROLEUM INDUSTRY

THE total production of petroleum in India (before the starting of the three new petroleum refineries) was less than 71 million gallons (236,000 long tons) a year while the total requirements were in the neighbourhood of 1,114 million gallons (3·7 mln. long tons).

The total consumption of petroleum products in India for 1956 was about 4·8 million long tons which is an increase of eight per cent over the figures for the previous year.

The increased consumption was reflected chiefly in kerosene and high speed diesel.

The only productive oil fields are in Assam, and the Digboi Refinery of the Assam Oil Company has a refining capacity of 7,900 barrels (1,100 long tons) a day, while Indian requirements in barrels will be around 105,000 (14,908·7 long tons) a day.

The money spent on the imports of petroleum would be about Rs. 80 crores a year for importing about five million tons of crude oil and products.

The Government of India entered into an agreement with three oil companies for refining oil in India—the Standard-Vacuum Company of America, Burmah-Shell of U.K., and the Caltex also of America. The Standard-Vacuum and the Burmah-Shell have their refineries in Trombay Island near Bombay, while the Caltex has its refinery near Visakhapatnam in Andhra.

During the First Five-Year Plan period, the installed capacity for the refining of crude petroleum increased by 3·2 million tons with the establishment of two new refineries at Trombay near Bombay and during the Second Five-Year Plan by 0·675 million tons by a third one at Visakhapatnam in Andhra. The plant of the Standard-Vacuum Oil Company went into production in August 1954. This plant has an annual capacity of 1·2 million tons in terms of input of crude oil. The Burmah-Shell Refinery which has an annual capacity of 2·0 million tons of crude petroleum commenced production in January 1955.

The Caltex refinery at Visakhapatnam which went into production in July 1957 has a capacity to refine 0·675 million tons of crude petroleum per annum.

The three refineries represent the biggest single foreign investment in the country. According to the agreement with the Government of India certain privileges were extended to the companies: exemption from nationalisation for twenty-five years, freedom from certain provisions of the Industries Development and Regulations Act. The companies in their turn have agreed subject to certain conditions that they will use Indian crude oil whenever available, train Indian personnel, and make the byproducts of the refineries available for subsidiary manufactures such as cosmetics, disinfectants, fertilisers, fumigants, plastics, polishes.

The Assam Oil Company, which is the only producer of mineral oils making use of indigenous petroleum crude have recently intensified their prospecting and exploratory operations. In 1954 a new gasoline plant and a new lubricating oil distillation unit were added to the refinery at a total cost of Rs. 58·5 lakhs. Their combined annual capacity is placed at 9·8 million gallons of gasoline and lubricating oil.

The production capacity of all the refineries by the end of 1957 was of the order of 4·3 million tons in terms of crude processed per annum.

IMPORTS

The imports of petroleum products are :\ (million gals.)

	1951–52	1952–53	1953–54	1954–55	1955–56	1956 April-Dec.
Kerosene	254·5	267·7	299·1	310·2	233·8	219·54
Diesel Oil	162·3	156·7	166·6	194·8	79·5	62·00
Other Fuel Oils	205·8	161·0	195·4	151·2	21·5	4·69
Lubricating Oils	48·6	61·7	37·9	56·3	39·3	40·56
Motor Spirit (including aviation Spirit)	251·0	243·4	269·6	214·4	73·1	28·57
Total‡	926·5	893·5	968·6	937·4	774·5	1,142·46

‡ Includes other sorts.

During the First Plan period, the total fixed capital expenditure in the refining industry is estimated at Rs. 45 crores.

But this capacity will be inadequate for meeting the expanding requirements of petroleum products. It is provisionally envisaged that the consumption would by 1960-61 register an increase of 45 to 50 per cent. over the level at the end of the First Plan. The establishment of additional facilities for petroleum products is, therefore, necessary.

It is, however, closely linked with the exploratory work on the occurrence of oil that has now been vigorously taken up*. In the opinion of geological experts, the discovery of naturally occurring crude petroleum in the eastern part of India is a possibility.

In the half year Jan. to June 1957 the imports were as follows: Petroleum crude and partly refined: 1·4 mln. tons; aviation spirit: 16·5 mln. gallons; other motor spirit: 1·6 mln. gallons; other sorts: 3·4 lakh gallons.

BURMAH-SHELL REFINERIES LTD.

Burmah-Shell Refineries Ltd. was incorporated in India on 3rd November 1952, for the purpose of constructing and operating a petroleum oil refinery on a 450-acre plot of land in south-west Trombay—near Bombay.

Site clearance and construction work was first started in April 1953 and the major part of the work was completed by the end of 1954.

The Refinery commenced operations on January 30, 1955.

The crude oil intake of the Refinery is about 2,000,000 tons per annum, the crude oil comes from the Persian Gulf area.

The Refinery manufactures per year approximately 156 million gallons of Motor Spirit, 82 million gallons of Kerosene, 86 million gallons of High Speed Diesel Oil, 33 million gallons of Light Diesel Oil, 170 million gallons of Furnace Oil and 165,000 tons of Bitumen. It manufactures also Petroleum Gas.

The total cost of the refinery will be about Rs. 31 crores, and the total labour staff employed in the refinery including all categories is about 1,500.

Residential quarters for key operating staff have been provided a short distance from the refinery, and in addition, Burmah-Shell Refineries Ltd., have paid Rs. 40 lakhs to the Bombay Government for the provision of houses for Refinery labour employees and their families in the Chembur-Ghatkopar area.

Burmah-Shell Refineries Ltd., have also provided a 10-acre recreation ground for their staff and labour employees. The Burmah-Shell Refineries operation is estimated to save India Rs. 7·5 crores annually in foreign exchange.

CALTEX OIL REFINERY

The Caltex Oil Refinery, costing Rs. 15 crores, went into full operation in July 1957 at Visakhapatnam. The products include petrol, kerosene, diesel oil and fuel oils from the Refinery's flexible two-stage crude oil distillation unit, the fluid catalytic cracking unit with gas recovery facilities, the polymer plant, the propane decarbonisation unit and treating and blending plants.

About 9,000 construction workers were employed at the site during peak period, and in operation the Refinery now has a permanent staff of about 500.

The Refinery annually processes 0·675 million tons of crude oil which yields 13,500 barrels a day for refined products. It occupies an area of 515 acres.

STANVAC REFINERY

The Standard-Vacuum Refining Co. of India Ltd. started construction of the refinery in December 1952 and production started in July 1954.

The refinery which is situated on Trombay Island near Bombay cost about Rs. 17·5 crores. It employs a staff of about 800, and has a designed output of 25,000 barrels (3,549·7 long tons) a day—about 300 million gallons (1,034,483 long tons) a year.

The refinery is designed to use crude oil from the Middle East to produce the following fuel products: Gasoline—94 mln. gallons (295,597 long tons); Kerosene—40 mln. gallons (140,351 long tons); Diesel Oils—55 mln gallons (207,547 long tons); Fuel Oils—101 mln. gallons (426,160 long tons).

Generally speaking, the refinery will meet about 20 per cent of the country's needs.

It was reported in the middle of 1957 that the Standard Vacuum Oil Company had decided to expand its refinery in Bombay to increase production from 25,000 to 33,500 barrels a day. The expansion scheme was to cost Rs. 5·5 crores.

Production of kerosene, now in short supply, was to be stepped up and petroleum gas and bitumen was to be produced for the first time by Stanvac. The gas would be bottled and distributed for domestic use.

Arrangements were likely for improving the quality of motor spirit and proposals for the manufacture of aviation petrol and lubricants at the Stanvac refinery were under study.

The company was at the time negotiating with the Government for the sale of refinery gases for the manufacture of fertilisers at a projected plant at Trombay.

Expansion of the refinery would enable India to save Rs. 1·2 crores in foreign exchange annually on the import of refined products.

* See next page.

OIL EXPLORATION AND POLICY

The future requirements are somewhat as follows:—

In 1956 the consumption of the main petroleum products was about 4·8 million tons, being equivalent to about 5·2 million tons of crude oil. In the eight years previous to that the average off-take had been increasing at the rate of 10 per cent every year.

The requirements of crude oil at the end of the Second Plan would be of the order of 7·6 million tons, of 14 million tons in 1966 and about 52 million tons in 1976.

Exploratory efforts should be directed towards finding additional crude oil production of 4·5 million tons by 1961, 25 million tons by 1971 and 50 million tons by 1976.

The total investment required by 1976 to ensure self-sufficiency in crude oil and its products would be of the order of Rs. 3,000 crores or Rs. 600 per ton of new production. Half the investment will be required by 1971 at the rate of about Rs. 80 crores per annum until 1966 rising to Rs. 170 crores per annum during the Fourth Plan, and Rs. 300 crores per annum during the Fifth Plan.

These are small investments compared with the cost of importing crude oil, which would rise to about Rs. 500 crores per annum by 1976.

To reduce the drain on the foreign exchange it will be necessary to manufacture heavy oil field equipment in the country. It should be possible to start with pipe mills. The capital involved will not be very large.

As a part of the Second Five-Year Plan, the Government of India have entered the field of oil exploration and development. Private enterprise also operates, with or without Government participation under concessions granted by the State.

The problems of oil exploration, drilling and refining are under the Ministry of Steel, Mines and Fuel, Government of India.

Under the Ministry is a Commission called the Oil and Natural Gas Commission with headquarters at Dehra Dun in U.P.

The Commission has three members. The Minister for Mines and Oil is Chairman—at present Mr. K. D. Malaviya. The other two members are Mr. A. M. N. Ghosh and Mr. Bose previously of the Ministry of Finance, who acts as Financial Adviser to the Commission.

In this connection the Ministry of Steel, Mines and Fuel has an officer on special duty—at present Mr. K. K. Sahni.

The Commission is the chief advisory body on oil though the task of administering and implementing oil agreements between the Government and the oil companies is in the hands of the Ministry of Steel, Mines and Fuel.

The Commission has the power to inspect oil fields held by private concessionnaires for ensuring full development and elimination of waste.

It can conduct geological and geo-physical surveys, drilling and prospecting independently or in conjunction with other Government or private agencies. It will organize laboratory investigations, collect and publish statistics and maintain information regarding production, trade and mining rules.

At present oil exploration is conducted by three agencies: The Oil and Natural Gas Commission, the Indo-Stanvac Petroleum Project, and the Assam Oil Company (a subsidiary of Burmah Oil Company).

The Commission is now conducting surveys either on its own or in conjunction with foreign agencies in the Punjab and Rajasthan areas. Similar work is carried out by the Standard Vacuum Oil Company in W. Bengal and by the Assam Oil Company in Assam. The Canadians and the Russians have conducted aero-magnetic and geological surveys in the Rajasthan, Punjab, Bihar and U.P. areas.

The Stanvac exploration in West Bengal is based on an agreement between the Government of India and the Company in 1953. The area stretches from the border of East Pakistan to the west of Burdwan, and is 10,000 square miles. The preliminary surveys which cost about Rs. 125 lakhs excluding equipment the cost of which was Rs. 40 lakhs did not reveal any signs of oil.

The first well was drilled in April 1957 at a place about 3½ miles east of Burdwan and was abandoned. The second at Gilsi was also abandoned. The third well at Jalangi in Murshidabad District is now being drilled.

NEW COMPANY

In Assam exploration continues in the Nahorkatiya, Moran and Hugrijan areas. It is estimated that the proved and probable oil reserves in Nahorkatiya might ensure a production of about 2½ million tons of oil and 45 million cubic feet of gas (equal to 0·6 million tons of oil) per year for a period of about 15 years. The proved oil reserves in Moran have not been estimated.

Until the end of 1957, 30 wells were drilled in Nahorkatiya (includes Hugrijan) of which 19 have proved to be producing wells; 6 wells were drilled in Moran of which 3 are successful.

In the old Digboi field it may soon be necessary to curtail production to about 2½ lakh tons per year in order to prevent a more rapid decline later and to ensure maximum ultimate recovery from this declining field. It is satisfactory that the production now available from Nahorkatiya has more than made up this loss and that it has thus been possible to increase refining at Digboi to the maximum capacity of the refinery with consequent reduction in the volume of oil products which have to be imported to meet the country's needs.

About the prospects of further discoveries in Assam making possible a substantial increase in the production target above the present level of 2½ million tons per annum—this possibility depends firstly on the degree of effort and success which can be maintained in the Nahorkatiya-Hugrijan and Moran areas which may enable us to increase the target before very long to about 3 million tons per annum. But the second and perhaps the more important factor lies in the degree of effort which can be put speedily into further exploration—not only in the other somewhat restricted areas on which considerable work has already been done, but also in the other areas in Assam which still call for further geo-physical reconnaissance. These other areas are extensive and given the very considerable additional effort required have prospects of yielding comparable results.

The Government of India proposes to set up two rupee companies. One of these in collaboration with the Burmah Oil Co. will explore and tap oil in the four concession areas comprising 502 square miles held by the Assam Oil Company, a subsidiary of the Burmah Oil Company. The other will refine the crude oil thus produced.

An agreement for setting up a company to prospect for oil was in fact signed on Jan. 14, 1958. It will exploit known oil resources in the Nahorkatiya, Hugrijan and Moran areas of upper Assam.

The new company, to be named Oil India Private Ltd., will have an authorised capital of Rs. 50 crores. Two-thirds of the shares will be owned by the Burmah Oil Company and the rest by the Government of India.

The new company will take over the assets of the Assam Oil Company, a subsidiary of the Burmah Oil Company, in the newly discovered oil areas of the Brahmaputra valley.

It will be registered in Assam.

The new company will undertake production of oil and construct and operate a pipeline for the transport of the crude oil to Barauni, in Bihar, where one of the two proposed State-owned refineries is to be established.

A second refinery will be set up at an intermediate point between the Assam oil wells and Barauni.

The pipeline will be laid in two stages, first up to the site of the proposed Assam refinery, and later up to Barauni itself.

The Government of India has already appointed consultants to undertake the pipeline survey and refinery project studies. Sizes, exact locations and production patterns for the two refineries will be finalised after the consultants' report is ready.

The Burmah Oil Company has offered a sterling loan of ten million pounds to the new company to meet the foreign exchange content of the cost of the first stage of the construction of the pipeline. Indians will be preferred to others for employment in the company.

The exploration in the Rajasthan and Punjab areas are conducted by the Oil Commission in collaboration with foreign agencies, Russian, Canadian and Rumanian. In Rajasthan only aero-magnetic and geo-physical explorations have been conducted so far. The area explored is in Jaisalmer District and the places are Ramagarh, Khoyala, Dewa, Tannot, Kishengarh.

In the Punjab drilling operations have started at Jwalamukhi in the Kangra valley. There will be nine locations in all, three in Jwalamukhi, one each in Bahl, Janauri, Dharmsala, Yol, Nana and Nurpur. Each operation will take about six months and the project as a whole will cover about five years.

Preliminary construction work in connection with drilling at location no. 1 in Jwalamukhi started in 1956 August. The drilling here is undertaken by a Rumanian agency and was started in April 1957.

PRESENT PROGRAMME

The policy for the two years (1957, 1958) is to confine exploration and drilling to Jwalamukhi and Cambay.

While a Rumanian drill will work in Jwalamukhi in the Punjab, about 100 Soviet technicians will operate the three drills that have been ordered from Russia — two in Jwalamukhi and one in Cambay in the first half of 1957.

The Oil Commission has worked out a programme for collaboration with other agencies which will cost about Rs. 11 crores: Rs. 400 lakhs for collaboration with the Assam Oil Company; Rs. 202·5 lakhs with the Standard Vacuum for the Bengal area; Rs. 500 lakhs for collaboration with other Indian or foreign firms that may prospect for oil in the next five years.

The Commission's own independent prospecting programme for the next five years would be: Jaisalmer (Rajasthan) Rs. 805·6 lakhs; U.P. and Punjab Rs. 202·4 lakhs. Prospecting will be along the Siwaliks in the Punjab and the Ganga basin in U.P.; Third, the Sunderbans in West Bengal Rs. 504·6 lakhs; Fourth, Cambay in Bombay Rs. 705 lakhs.

The indications at the end of 1957 were that Indian refineries might draw 50 per cent of necessary crude oil from the country's own wells in the next five years (1958 to 1962).

The Second Plan allocation for exploration, drilling and refineries is Rs. 11·5 crores; but this is subject to revision. The Oil Commission had asked for an allotment of Rs. 30 crores.

Two refineries are in the offing, in the east in the public sector.

The Vasist Committee was appointed in 1956 to advise the Government on the location of the refinery in the public sector in the east.

It was estimated that there would be very little difference in the respective costs of the refinery at three sites. The cost would be Rs. 23·14 crores in Calcutta, Rs. 23·97 crores in Barauni and Rs. 24·07 crores in Gauhati. The overall cost (refinery, railway, pipe-lines etc.) would be Rs. 68·65 crores in Calcutta, Rs. 68·67 crores in Barauni, and Rs. 50·97 crores in Gauhati.

The cost of a twenty-inch pipe line from Nahorkatiya to Calcutta would be Rs. 46·30 crores, while the cost of additional railway facilities required to transport refined products from Gauhati to West Bengal would be Rs. 12·35 crores.

The annual recurring costs in Gauhati would be the highest. Placed at Rs. 15·23 crores, the figure compares with Rs. 11·73 crores for Barauni and Rs. 10·76 crores for Calcutta.

The cost of processing crude oil will thus be Rs. 101 per ton in Gauhati, Rs. 77·8 per ton in Barauni, and Rs. 71·8 per ton in Calcutta. This works out at six annas two pies per gallon in Gauhati, four annas eight pies per gallon in Barauni and four annas six pies per gallon in Calcutta.

REPORTS ON EXPLORATION

A group of Soviet Oil experts made a report on oil exploration to the Government of India which was made public on 21st May, 1956.

The experts recommended among other things:

1. In the next five years it would be best to concentrate on the Rajasthan and Punjab areas for exploration. Here prospects are encouraging.

2. Simultaneously, geological, geo-physical investigations as well as deep test-drilling in the Ganga valley and West Bengal, geological and geo-physical survey and core-drilling in the Cambay area and geological and geo-physical investigations on the Madras coast—all these should be carried on simultaneously.

3. The organisation of research for oil geology to lay a scientific foundation for oil and gas prospecting.

The area to be covered by magnetic survey and gravity is about 176,000 square miles, and by geographical mapping 11,400 square miles.

Fourteen gravity, 10 seismic, 14 geological, five core-drilling and five deep test-drilling parties have to be organized.

An agreement was also signed with the Soviet Union on 21st May, 1956. The Soviet Union was to supply two oil drilling rigs with spares and accessories for a year's operation at a cost of Rs. 74 lakhs. They were to arrive in India before the end of 1956 and were to be erected free of charge in the Jwalamukhi and Janauri areas of Kangra District in the Punjab. A team of 44 Soviet experts would operate the drills initially and train Indian personnel for a minimum period of six months at a cost of Rs. 5·25 lakhs per drill.

Another group of 40 Soviet technicians would undertake a geo-physical survey principally of the oil bearing areas of the Kangra valley. The rest of the experts will be paleobotanists and paleo-ontologists for the geological laboratory of the Oil Commission in Dehra Dun.

In addition the Soviet Government would supply seismic equipment, together with two shot-hole drilling rigs.

PETROLEUM PRICES

Mr. K. K. Sahni, at present officer on special duty at the Ministry of Steel, Mines and Fuel, submitted a report to Government chiefly on the profits and remittances of foreign oil companies operating in India, but also on oil exploration in general. The report was submitted some time in 1956 November.

The contents of the report have not, however, been made public.

It was reported at the end of 1957 that Government of India were studying the economics of nationalising the four major oil marketing companies in the country with a view to making petroleum products available to the consumer at cheaper rates. This report was, however, contradicted by the Prime Minister, Pandit Nehru at a Press Conference held in New Delhi on 2-1-58 when he stated that the Government of India does not have any such proposal in any form before it.

Talks between the Government of India and the representatives of the oil industry have been in progress on the subject of oil prices in India for some time.

SYNTHETIC PETROL

The question of the manufacture of synthetic oil from low grade coal available in the country has been under consideration for a number of years. In May 1954, the Government appointed the Synthetic Oil Committee. In deference to the recommendation made by this Committee, the Government invited three foreign firms, Messrs. Heinrich Koppers, Messrs. Lurgi, Germany and Messrs. M. W. Kellogg, U.S.A., to prepare project reports in this connection. Simultaneously, an Experts Committee was also appointed to give guidance to the foreign firms. This Committee, after examining the project reports, recommended a project for implementation under the Second Plan. This project envisages the manufacture of soft coke from non-coking coal and utilisation of the by-products for the production of synthetic petrol. But the Plan has not made any provision for this project and a final decision can be taken after more is known of the prospects of obtaining crude petroleum from indigenous sources.

The Govt. have examined the scheme of the expert committee, and whilst it considers these to be feasible it has not been possible to make any financial provision for them because of foreign exchange and rupee resources shortages.

PLASTICS INDUSTRY

THE plastics industry in India was largely developed during the Second World War and is primarily concerned with turning out finished product from imported raw material. At present there are about 110 major factories and several small ones operating on a cottage industry basis.

The industry has made considerable progress since 1948. In 1956 there were more than 80 firms engaged in plastic moulding as against 40 in 1948. The industry is centred mainly in Bombay and Calcutta. About 43 moulding firms are on the active list of the Development Wing of the Ministry of Commerce and Industry. These firms possessed 187 compression moulding presses with a capacity of about 12,600 tons, 244 injection moulding machines with a capacity of about 683 oz. and 47 extruders of sizes ranging from 1" to 4½".

There are three units manufacturing polyvinyl chloride (PVC) plastic coated cables, wires and flexibles with an annual capacity of 11 million yards. Five units are manufacturing leather cloth with a capacity of 7·8 million yards per annum. There is one unit producing phenolic resin laminates, with a capacity of 540 tons per annum. There are three units manufacturing polythylene films, layflat tubings and have an aggregate capacity of 610 tons. All told the total investment in the industry is estimated at more than Rs. 6 crores and the labour employed is over 10,000.

The processes used by the industry are: (1) Compression moulding, (2) Injection moulding, (3) Extrusion, (4) Fabrication, and (5) Coating of fabrics by plastics. Articles manufactured cover an extensive field ranging from electrical accessories and insulated electric cables to spectacle frames, artificial leather and waterproof cloth. Metal using of plastics has been successfully undertaken by a few firms.

The production increased to the highest level of 300,000 gross per month in 1956 as against the average of 206,500 gross in 1955. The trend of production of compression and injection moulded goods since 1951 is given below :—

Year	Production (million gross)
1951	1·48
1952	1·54
1953	1·36
1954	1·31
1955	2·48
1956	3·70

Nearly 25 per cent of utility goods comprised combs, while bottle caps made up 60 per cent of industrial goods. Production of mechanised toys has been an important achievement in recent years.

A new factory producing polystyrene commenced operation in 1957. Two other factories—one at Rishra (Calcutta) and the other at Bombay—are being erected to manufacture polystyrene, employing alcohol as raw material. The total capacity of these two units is 5,100 tons per annum. The other schemes which have almost been completed are those for the manufacture of urea formaldehyde moulding powder, P.V.C. Composition from resin and cellulose acetate moulding powder from imported flakes.

RAW MATERIALS

The consuming capacity of the industry in respect of raw materials is about 3,000 tons of Thermosetting moulding powders and about 6,000 tons of Thermoplastic moulding powders. A large part of the raw material is imported. Imports of raw materials were stepped up from Rs. 1·1 crores in 1950-51 to Rs. 1·9 crores in 1954-55 and to Rs. 2·31 crores in 1955-56. Phenol formaldehyde moulding powder, phenol and formaldehyde and alkyd resin are manufactured in the country out of imported basic materials. At present, three concerns, Industrial Plastics Corporation, Plastic Products of India, Satara and Indian Plastics, Kandivli, all in Bombay are manufacturing phenol formaldehyde moulding powder with a combined capacity of 1,182 tons per annum.

The machinery installed in the industry is almost wholly imported. It is estimated that about 250 moulds are used by the industry each year. In 1954, 240 moulds valued at about Rs. 15 lakhs were imported as against 260 in 1953. But there are two or three engineering firms in the country making some of the simple types of moulds. In addition, there are about 20 plastic moulding concerns which have set up their own tool rooms.

The imports of plastic raw materials, plastic manufactures and leather cloth are given below:

(Rs. lakhs)

	1951–52	1952–53	1953–54	1954–55	1955–56	Apr.–Dec. 1956
Synthetic Resins & Moulding Powder	158·16	140·11	148·10	187·88	231·36	240·92
Semi-fabricated Plastic materials	97·97	87·53	88·45	87·73	96·03	108·43
Finished Plastic goods	12·44	11·39	4·12	2·37	5·14	5·55
Leather Cloth	53·02	3·22	5·14	5·19	1·83	2·61

The consumption of plastic goods in India before the last war was estimated at 500 tons per annum. In 1949, the Indian Tariff Board estimated the demand at 4,000 tons per annum, of which about 75 per cent. was estimated to be for domestic and utility articles and 25 per cent. for industrial goods including electrical accessories. Practically the whole of the demand is met from indigenous production.

The country is now an exporter of plastic goods. The following is the yearly exports of plastics from India :

Year	Rs. lakhs
1951–52	6·45
1952–53	13·03
1953–54	15·98
1954–55	14·45
1955–56	7·62
Apr.–Dec. 1956 ..	1·63

In order to encourage exports, an Export Promotion Council was set up in 1955. It has also been decided to allow rebate of import duty at specified rates on raw materials used in the manufacture of plastic goods intended for export. At present the concession is given on urea formaldehyde, cellulose acetate/cellulose acetate butyrate and polystyrene moulding powders.

Imported moulds are expensive and a central tool room for the design and production of moulds is contemplated. The present demand for P.V.C. sheets (without textile base) is estimated at 400 tons. There is, therefore, a big scope for its manufacture. Polythene film and dentures also have a big potential market. The application of cellulose plastics, nitrate and acetate is the basis for industries such as acetate rayon and photographic film. The demand for phenolic resin used by the surface coating industry is about 500 tons a year. In view of the possibility of urea becoming available in the country, the manufacture of urea plastics has a great scope. Since benzine and ethylene, the basic materials for polystyrene, are indigenous, this branch of manufacture can be profitably explored. Industrial nitrocellulose is produced in an ordnance factory. This can form the basis for producing sheets, rods and tubes required by the spectacle frame and fountain pen industries. Lack of technical personnel is the industry's main handicap. The U.N.T.A.A. has, therefore, lent the services of a plastics moulding expert to India, who has prepared a blue-print for a central tool room costing about Rs. 30 lakhs. Steps are being taken by the Indian Standards Institution to formulate suitable standards for the P.F. moulding powder.

The production of P.F. moulding powder has been steadily increasing. The relevant figures are given in the next column :

Bakelite moulding powder :

Year	Production (lbs.)
1952	667,200
1953	837,600
1954	1,057,200
1955	1,600,800
1956	2,205,600

The annual installed capacity of the P.F. moulding powder sector in April 1957 was 2,352,000 lbs.

The protection for P.F. moulding powder and buttons will expire on 31st Dec. 1959.

The Tariff Commission recommended in 1950 that protection should be extended to the plastics industry till March 1953. The period was further extended to December 1953 to enable the Tariff Commission to review the position. The protection was later extended upto December 1956.

PLASTIC GOODS

The present position of the plastic goods is shown below. Figures relate to 1956.

Processes.	No. of units.	Present installed capacity	Production in 1956
Compression moulding	45 (major units)	12,566 tons	3·7 million gross articles.
Injection moulding	N.A.	618 oz.	N.A.
Extrusion :			
Polyethylene films and layflat tubings	3	610 tons.	553 tons.
P.V.C. unsupported sheets	1	1·5 mil. yds.	0·26 mil. yds.
Lamination	1	1·21 mil. lbs.	0·52 mil. lbs.
Coating :			
Leather cloth P.V.C.	5	7·80 mil. yds.	2·64 mil. yds.
Leather cloth nitrocellulose	1	0·45 „ „	0·32 mil. yds.

SECOND FIVE-YEAR PLAN PROGRAMME

There is no doubt that in India the potential demand for different types of plastic goods is large, although it is difficult to foresee the demand for some of the finished plastic goods consumed for non-industrial purposes. It is best, therefore, to assess the total requirements in terms of the demand for moulding powders. This is estimated to be about 11,600 tons in 1960-61. To meet this demand the target for capacity during the period is 12,810 tons, which will involve an investment of Rs. 4 crores.

RAYON INDUSTRY

WORLD'S first rayon factory capable of producing about a hundred pounds of rayon a day was erected in France in the year 1884. Today the world production of rayon, inclusive of staple fibre, has risen to the staggering amount of over 3,000 million pounds.

The rayon industry is a post-war industry. There are at present three plants in operation, *viz.*, Travancore Rayons Ltd., Perambavoor, the National Rayon Corporation Ltd., Kalyan, Bombay, with an annual production capacity of 4 million lb. and 7·9 million lb. respectively of filament yarn and the Sirsilk Ltd. in Andhra Pradesh with a production capacity of 4·0 million lb. based on the cellulose acetate process.

The first came into production in July 1950 and the second in February 1951. Both the factories have adopted the viscose process. The third started production in 1954.

The units operating the viscose process produce also carbon disulphide and sulphuric acid in the factory with the exception of Travancore Rayons Ltd. which purchase them from FACT Ltd. Sirsilk Ltd. has facilities for producing acetic acid, acetic anhydride and acetone to meet its needs.

At the beginning of the First Plan, there was only one unit producing rayon filament with a capacity of 4·0 million lb. per annum. With the completion and subsequent expansion of the new units of the National Rayon Corporation, and Sirsilk Ltd. the installed capacity for rayon filament increased to 22·3 million lb. by the end of 1955-56.

Progress on the cellulose acetate plant of Sirsilk Ltd. did not keep to schedule owing to financial difficulties. The factory went into production only in June 1954.

A new plant with a capacity of 10 tons of viscose rayon yarn and 10 tons of Staple fibre per day is to be set up by the Indian Viscose Corporation Ltd., a Rs. 8 crore project under the joint collaboration of the Silk and Art Silk Mills Association, Bombay, and Snia Viscosa, Italy. The factory was scheduled to go into production early in 1957. Latest reports, however, indicate that no progress has so far been made.

The production of rayon filament has increased steadily year by year.

The following table indicates the production of rayon filament since 1950-51 :

(million lb.)

Year	Viscose Rayon	Acetate Rayon	Total
1950-51	0·4	—	0·4
1951-52	6·0	—	6·0
1952-53	8·5	—	8·5
1953-54	10·1	—	10·1
1954-55	11·7	1·4	13·1
1955-56	13·4	2·5	15·9

The estimated level of production in 1955-56 was far short of the target of 22 million lb. visualised in the First Five Year Plan.

As against 15·16 million lb. of rayon yarn produced in 1955, the production during 1956 aggregated 19·50 million lb.

The potential needs of rayon filament is estimated at 70 to 75 million lb. per annum. The maximum consumption on the basis of import and indigenous production so far was 55·2 million lb. in the period from April 1955 to January 1956. This suggests that even after the completion of the schemes mentioned above, it will not be possible to meet fully from indigenous sources the demand for rayon.

Staple Fibre : Before the First Five Year Plan, there was no plant for staple fibre. The factory of the Gwalior Rayon Silk Manufacturing (Weaving) Co. went into production in February 1954 with a capacity of 15 tons per day (11·2 million lb. per annum). The firm expanded the capacity to 18 tons per day in January 1955 and to 21 tons per day in December 1955. The present annual capacity is, therefore, about 7,560 tons. The firm produced 5,712 tons of staple fibre in 1955 and 7,848 tons in 1956. The First Plan envisaged that consumption would be 14·2 million lb. in 1955-56. But it averaged a little over 28 million lb. per annum during the Plan period and it was expected to be about 30 million lb. in 1955-56.

The investment in the rayon industry during the Plan period is estimated at Rs. 7 crores. This is inclusive of investment in ancillary plants attached to the rayon units for the manufacture of sulphuric acid, carbon disulphide, etc.

The rayon and staple fibre industry has progressed considerably during the Plan period. The dull variety of viscose rayon yarn was produced for the first time in the country in 1955. The acetate variety of rayon yarn is also produced in both qualities, bright and dull.

The installed capacity and actual production of the rayon industry during the years 1955 and 1956 are given below :

Article	1955			1956		
	No. of units	Capacity tons	Production tons	No. of units	Capacity tons	Production tons
Continuous filament viscose rayon yarn	2	7,920	5,731·65	2	8,160	7,275·69
Continuous filament acetate rayon yarn	1	1,800	1,039·33	1	1,800	1,413·74
Viscose staple fibre ..	1	5,400	5,707·20	1	5,400	7,905·85

The First Plan recommended the establishment of a pulp plant of 100 tons per day capacity based on the soft timber resources available in the Himalayan region. But the project did not make much progress on account of the difficulties involved in the extraction of the timber.

Art Silk Weaving Industry : The Development Council for the art silk industry, set up in 1955, has suggested a target of 350 million yards of art silk cloth to be achieved by 1960-61. This will be an increase of about 20 per cent in the present *per capita* consumption of art silk fabrics.

The Tariff Commission estimated the number of powerlooms engaged in the production of art silk fabrics in 1955 at 37,727. The industry is big and largely concentrated in Bombay with over 28,000 of the powerlooms. Licences have been issued for the installation of over 3,500 powerlooms. In addition, there are a number of handlooms producing art silk fabrics, mainly mixed fabrics. Their exact number is not known, but the Tariff Commission estimates it at 150,000. The capacity of an average powerloom is considered to be 20 yards of cloth per shift and that of four handlooms is considered to be equivalent to one powerloom. Thus the total capacity of the industry amounts to about 465 million yards on the basis of a single shift.

The actual production, however, is much below the estimated capacity. The Tariff Commission has estimated that the average production during the three years 1951-53 was 245 million yards per annum. Therefore, no further expansion of the industry is envisaged during the Second Plan.

The production in 1954 was 181·21 million yards ; in 1955, 231·16 million yards ; and in 1956 over 251·86 million yards.

IMPORTS

Imports consist of staple fibre, rayon yarn, yarn of rayon staple fibre and rayon piece-goods and were as follows :—

Year	Yarn		Piece-goods		Staple fibre (cut fibre and waste)		Staple fibre yarn		Total including other goods mixed
	Quantity (million lbs.)	Value (Rs. lakhs)	Quantity (million yds.)	Value (Rs. lakhs)	Quantity (million lbs.)	Value (Rs. lakhs)	Quantity (million lbs.)	Value (Rs. lakhs)	Value (Rs. lakhs)
1950-51	35·3	14,71	1·8	41·7	12·6	189·9	1·25	30·9	1739·4
1951-52	36·5	17,29	3·0	82·4	36·5	1010·1	3·73	117·0	2953·8
1952-53	22·24	7,85	1·15	26·34	4·14	65·50	4·31	74·58	—
1953-54	38·39	12,04	2·43	51·96	27·22	377·67	1·89	46·04	—
1954-55	40·85	12,69	4·12	90·59	27·32	374·63	0·51	21·75	—
1955-56	50·78	15,44	9·84	185·12	14·50	191·67	—	—	—
1956 (Apr.-Dec.) ..	47·62	13,74	5·56	101·94	34·62	429·04	3·02	26·09	—

Some quantities of art silk fabrics, particularly the finer varieties, are at present imported. It is expected that these imports will largely, if not entirely, cease during the Second Plan period. There has also been some export of art silk fabrics, but this is not making much headway. An Export Promotion Council has been set up to stimulate exports.

The programme of development for the rayon and staple fibre industry envisaged for the Second Plan is summarised below :

	1955-56		1960-61	
	Annual Capacity	Production	Annual Capacity	Production
Rayon Filament (Million lb.)	22·3	15·9	66·3	66·0
Staple Fibre (Million lb.)	16·0	13·2	33·0	33·0
Chemical Pulp (Tons)	..	..	30,000	30,000
Art silk cloth (export in million yards)		2·5		10·0

RUBBER INDUSTRY

INDIA produces about 23,500 tons of raw rubber constituting a little over one per cent of the world output. Of an area of about 207,250 acres under rubber cultivation, nearly 75 per cent is located in the State of Kerala. Other rubber growing areas are the districts of Coimbatore, Salem, Nilgiris, Madura in Madras State and Coorg in Mysore State. Cultivation on a small scale exists in Assam.

The following are the details :—

Year	Production (Tons)	Tapable Acreage	Average yield per acre in Lbs.
1950	15,599	137,888	253
1951	17,148	148,739	258
1952	19,863	170,000	262
1953	20,967	172,800	272
1954	22,493	173,000	291
1955	22,481	207,250	243
1956	23,444	231,000	227

The year 1952-53 was notable for a slump in the world rubber trade with London price falling by more than half. In this country, the price of indigenous raw rubber was revised in October 1952 on the recommendation of the Tariff Commission from Rs. 122-8-0 to Rs. 138 for grade I rubber per 100 lbs. with suitable differential for other grades. In February 1955 it was raised to Rs. 150 per 100 lbs. and in September 1955 to Rs. 155-12-0.

With more factories coming into existence every year the consumption of rubber is increasing. It was 21,063 tons in 1952, 21,998 in 1953, 25,487 tons in 1954, 27,542 in 1955 and 28,996 tons in 1956. Imports of raw rubber had, therefore, to be permitted in 1954 and 1955. Imports in 1954 were 3,371 tons, in 1955 they were 3,839 tons and 6,463 tons in 1956.

RUBBER GOODS

India has a modern manufacturing industry. The variety of goods manufactured covers almost the entire range of requirements of the country. They include tyres and tubes of all kinds, footwear, water-proof rubberised fabrics, ebonite rods and sheets, latex foam cushioning and sponge, hoses of all types, V-belts and fan belts, rubber conveyor belting, and mechanical rubber goods. Of these, the manufacture of tyres and tubes accounts for about 70 per cent of the total consumption of rubber and bulk of capital investment, followed by foot-wear with 15 per cent annual consumption. In the case of the majority of these items, with the exception of tyres and tubes, considerable surplus capacity exists in the country. The total investment in the industry is estimated at about Rs. 13 crores and the number of persons employed is about 21,800.

The progress of the manufacturing industry is given below :—

Product	1954	1955	1956
Footwear (Lakh pairs)	312·0	349·2	360·4
Toys, Baloons, etc. (Lakh Doz.)	183·6	229·3	255·5
Tyres :			
Automobile (000)	825·5	882·3	937·0
Cycle (000)	5,226·0	5,748·1	6,306·7
Tractor (No.)	19,154	24,526	30,771
Aero (No.)	3,511	4,408	3,656
Cab (thousand ft.)	324·0	370·8	290·3
Tubes :			
Automobile (000)	754·4	785·5	918·5
Cycle (000)	5,577·6	5,593·8	6,371·4
Tractor (No.)	16,881	23,110	30,714
Aero (No.)	1,566	2,444	2,292
Hoses :			
Radiator (000)	151·2	186·6	248·4
Vacuum Brake (000)	604·9	808·1	552·0
Other Types (000 ft.)	4,706·0	5,734·8	6,604·8
Fan Belt (000s.)	459·1	655·3	724·8
Ebonite (000 lb.)	109·0	130·3	210·0
Waterproof (000 yds.)	2,309·7	2,119·0	2,574·0
Latex foam sponge (000 lb.)	935·4	1,489·3	1,772·2

While the price of raw rubber has been periodically reviewed and fixed by the Government, no control was exercised over the prices of rubber tyres and tubes. This led to frequent complaints that the prices charged for these goods by the manufacturers were excessive. An inquiry was made by the Tariff Commission in 1955. The Commission estimated the fair prices of different types of tyres and tubes and recommended that these prices should remain in force till December 31, 1957, subject to a formula for adjustment on account of variations in the cost of raw rubber, fabric and carbon black. The Government accepted these and other recommendations and the tyre companies were called upon to issue a revised price list with effect from Oct. 10, 1955.

The programme of development for the rubber goods industry envisaged for the Second Plan period is summarised below :—

	1955-56	1960-61
Annual Capacity :		
1. Automobile tyres	9,50,000	14,60,000
2. „ tubes	9,50,000	14,60,000
3. Bicycle tyres	60,00,000	1,18,00,000
4. „ tubes	61,00,000	1,18,00,000
Production :		
1. Automobile tyres	9,10,000	14,60,000
2. „ tubes	8,10,000	14,60,000
3. Bicycle tyres	57,50,000	1,18,00,000
4. „ tubes	55,90,000	1,18,00,000
Exports :		
1. Automobile tyres	60,000	1,50,000
2. „ tubes	60,000	1,50,000
3. Bicycle tyres	70,000	3,00,000
4. „ tubes	90,000	3,00,000

IMPORTS AND EXPORTS

Before World War II, India was exporting considerable quantities of raw rubber and importing most of the rubber manufactured goods required in the country. At present, the export of raw rubber has not only been stopped but limited quantities are imported to supplement indigenous production. On the other hand, rubber manufactured goods are exported to neighbouring countries and imports are very small.

(In lakhs of Rs.)

	Imports		Exports	
	1955-56	First nine months of 1956-57	1955-56	First nine months of 1956-57
Raw Rubber	195·6	275·72	0·57	0·66
Pneumatic tyres	26·9	135·63	66·87	13·09
Pneumatic tubes	2·4	3·65	5·1	1·23
Bicycle tyres	0·8	35·05	..	..
Bicycle tubes	0·4	4·16	..	..
Solid rubber tyres	7·1	6·50	1·2	1.44
Other manufactures (excluding apparel, boots and shoes)	17·9	16·28	11·7	7·18
Total	251·1	476·99	85·44	23·60

SERICULTURE AND SILK

SERICULTURE is carried on mainly as a subsidiary to agriculture. The country's total production of raw silk is placed at nearly 34 lakh lbs. per annum. Of this quantity, mulberry silk accounts for about 24 lakh lbs. and non-mulberry silk for about 10 lakh lbs. The major portion of mulberry raw silk is produced in Mysore. This State accounts for more than 70 per cent of the total output of mulberry raw silk in India. The other important producing States are West Bengal, Jammu and Kashmir and Madras. The most important producers of non-mulberry silk are Assam, Madhya Pradesh, Orissa and Bihar.

About 62,802 lbs. of spun silk and 45,703 lbs. of noil yarn were produced in India during 1956. Out of the total quantity of silk waste of the order of 19,42,345 lbs. including mulberry and non-mulberry, only 6,90,187 lbs. were consumed within the country, the rest being exported to other countries on the recommendation of the Central Silk Board.

The total area under mulberry is about 1,74,219 acres at present. Mulberry is cultivated both as rain-fed and irrigated crop. The yield of leaf per acre per year from rain-fed garden is about 4,000 lbs. Average yield per acre in irrigated mulberry gardens in 1956 was about 12,000 lbs. Whereas the yield per acre from mulberry graft garden was 20,000 lbs.

In Mysore and Madras (put together) there are about 2½ lakh families who are directly or indirectly engaged in sericulture industry The total production of cocoons per year is about 278 lakh lbs. and the raw silk produced may be put at 18 lakh lbs. for Mysore and Madras.

Based on the area under mulberry, the total requirement of disease-free layings is estimated to be about 720 lakhs of layings per annum for Mysore and Madras.

After the Government Organisation was set up, the Central Farm at Channapatna began to produce small quantities of disease-free layings on 'Pasteur System' and to educate ryots to use them. To supplement the work of the grainages which produce only disease-free seed by a controlled campaign of seed cocoon production, there are now 4,000 selected seed cocoon rearers to produce Mysore seed cocoons, capable of producing about 4,000 lakhs of seed cocoons, *i.e.*, the entire requirements of the industry for seed cocoons in Mysore and Madras. About 96 per cent of the cocoons produced in the State is used for reeling and only 4 per cent for seed purposes. Sericultural education in Mysore is given in a practical manner in the Government Silk Farms, such as Channapatna, Mysore, Kolar, Mugur and Sidlaghatta.

CENTRAL SILK BOARD

The Tariff Commission submitted its report on the Sericulture Industries to the Government of India in 1952.

In 1953-54, the Tariff Commission recommended extension of protection for 5 years from January 1, 1954. As the existing duty inhibited demand by creating a rise in the price of indigenous silk, the duties on silk raw and cocoons, silk yarn, yarn spun from silk waste, silk fabrics like pargee fugi, etc. should be reduced to 30 per cent *ad valorem* exclusive of surcharge, while the existing rates of duty on silk waste and voils, yarn spun from silk voils and silk sewing thread should be continued.

The Government accepted the proposal for the extension of protection. It decided that the existing rates of duties should not be reduced, but, stated that the position would be kept under watch and suitable action would be taken, when necessary.

The Central Silk Board was constituted by the Government of India in the year 1949 under the Central Silk Board Act, 1948. The Board is charged with the responsibility of organising the development of the silk industry in India. It examines the schemes of development formulated by the various State Governments and recommends grants by the Central Government for financing the schemes. The Board came under the administrative control of the Production Ministry on 15th June 1955. Since May 1957 when the Ministry of Production was abolished it has been under the control of the Ministry of Commerce and Industry.

The Board functions with its own funds drawn from the Government of India as grants-in-aid under the Silk Board Act. Though the Act empowers the Government of India to levy and collect as a cess an excise duty on filature raw silk and on all spun silk, it has not been considered advisable to invoke the provision of this section in the interest of the indigenous sericultural industry.

The head office of the Board was shifted to Bangalore with effect from 1st February 1957.

SECOND FIVE YEAR PLAN

The capital outlay of the programme under the Second Five Year Plan is estimated at Rs. 5·0 crores which excludes a sum of Rs. 1·5 crores provided for the silk weaving sector. The total outlay of silk and sericulture thus comes to Rs. 6·5 crores, as against a negligible outlay of Rs. 1·3 crores under the First Five Year Plan.

The development programme for silk industry envisages improvement of mulberry, better silk worms seed supply and organisation, development of silk reeling, utilisation of by-products, development of non-mulberry silk industry, co-operative marketing and testing, sericultural research and education, and stabilisation of prices.

Mulberry Silk : As regards mulberry silk, an important item in the development programme relates to the reduction in costs of cultivation of mulberry leaf through substitution of existing mulberry with higher-yielding grafts in both rain-fed and irrigated areas, evolving of new varieties of mulberry of higher yield, and improvement in cultivation methods, manuring, etc. These and other measures for bringing about improvement in mulberry and cocoons will be supplemented by steps to modernise silk reeling, encourage substitution of improved basins for country *charkhas* and converting the improved basins for filatures into multi-end basins, and introducing central cooking system and drawing chambers. Utilisation of by-products in the spun silk industry is necessary for the service of the reeling industry and steps are proposed to be taken to rehabilitate and extend the spun silk industry. And as an experimental measure, co-operative societies for raising young worms of the first and second stages collectively are to be established.

Also included are proposals relating to (1) co-operative marketing and testing of cocoons; (2) grading of cocoons; (3) introduction of a system of payment of cocoon prices on actual yield; (4) further development of work in the conditioning of houses at Calcutta and Bangalore and at the Berhampur station; (5) establishment of two training institutes for training personnel for sericulture departments in the States.

Non-Mulberry Silk : As regards non-mulberry silk, the development programme provides for plantations, as well as improvement of basic seed cotton production for *eri*, *muga* and *tassar*. The organisation of seed supply, improvement of spinning and reeling, marketing, and training and research will be undertaken more or less on lines similar to those for the mulberry silk industry.

State Schemes : The Government of India has so far sanctioned for 1956–57 as many as 138 grants amounting to Rs. 27·98 lakhs for the development of sericulture industry under various State schemes. Loans and grants of the order of Rs. 24·92 lakhs have also been granted for 12 other schemes. The latter include the establishment of a modern filature at Malda (West Bengal), the setting up of a raw silk marketing society in Bangalore, and moderpisation of filature machines in Jammu and Kashmir.

West Bengal tops the list of States which received grants, with Rs. 4·7 lakhs, while Jammu and Kashmir, Bihar, Assam, Mysore and Madras follow with grants amounting to Rs. 4,23,764, Rs. 3,67,932, Rs. 3,38,263, Rs. 2,39,350 and Rs. 2,27,165, respectively. About 147 schemes for the development of sericulture industry during 1957-58, which have been drawn up by 12 States, are under examination.

IMPORTS, PRICES

During the first half of 1956, the Silk Board imported 109,916 lbs. of raw silk, of which 30,088 lbs. were allotted to States, 22,618 lbs. to silk associations and 40,181 lbs. to actual users. About 16,093 lbs. were also earmarked for export promotion purposes.

Since June 1956, however, the import of raw silk has been arranged by the State Trading Corporation of India (Private) Ltd., though the distribution has remained with the Silk Board.

It is proposed to depute five officers to Japan for training in sericulture and two officers to China for training in silk-worm seed production and silk reeling. In furtherance of measures for the development of sericulture industry in the country, a foreign Race Seed Station and a Central Sericulture Training Institute are proposed to be started in Mysore State.

More mulberry plantations and silk worm rearing centres will be set up and training in sericulture provided under Government of India schemes.

For implementing these schemes the Union Ministry of Commerce and Industry has sanctioned grants of about Rs. four lakhs to the State Governments of Jammu and Kashmir, Assam, Madhya Pradesh, Andhra and Mysore.

In Jammu and Kashmir, 62,000 mulberry trees are to be planted. A basic mulberry graft nursery is to be established in Mirgund. Eight mobile rearing centres for demonstration purposes and four collective incubatory centres are to be set up in Jammu. Also a model worm rearing centre is to be opened in the State.

The existing sericultural farms and grainages are to be expanded in Assam for which an additional grant of about Rs. 1·3 lakhs has been sanctioned to the State. The State also gets another grant for the purchase of grafts.

For establishing a silk farm at Sardarpur, Madhya Pradesh has been given a grant.

In Andhra Pradesh a model rearing house is to be constructed in the silk farm at Salvai in the Warangal district. The farm is designed to demonstrate and train boys of aboriginal tribes in the Japanese method of mulberry cultivation and rearing of silk worms. For this and for providing working capital for the purchase of cocoons from the rearers a sum of over Rs. 46,000 as grants and loans has been sanctioned to the State. Assistance has also been given to enable the State to send its personnel for training in other silk-producing States. Sericulture demonstration and propaganda will be organised in the villages of Andhra.

Mysore gets three grants which will be utilised for conducting research on silk worm nutrition, for the supply of mountages to sericulturists of Kollegal and for the Chawki rearing centre in Coorg.

The Silk industry was greatly handicapped by the very high level of prices prevailing in the country during 1954–55. Though the landed price of silk was not very high, the actual sale prices were as high as Rs. 54 per lb. in April, 1954. The Government of India, therefore, considered that the best course in the circumstances would be to restrict imports through the agency of the Central Silk Board which should also be entrusted with the distribution of the Silk to the actual user, etc. The entire quantity of 2 lakh lbs. of Chinese Silk imported by the Board was lifted by the parties against full payment. The import and distribution of Chinese Silk had a salutary effect in bringing down the prices of not only imported silk but also indigenous filature raw silk. The stabilisation of the market for silk has helped greatly in infusing a sense of security among the sericulturists. It has also enabled the Board to pursue the development programme for planned development of the industry.

With the stabilisation of the market for raw silk, it has been possible to ensure a steady and fair remuneration to silk-work rearers and cottage reelers. The level of employment has also been maintained at a satisfactory level, giving part-time employment to nearly four to five million persons in the several branches of the industry in the villages.

Mr. V. Nanjappa, I.C.S., Textile Commissioner and Chairman, Central Silk Board, at a meeting of the 11th General Body held at Bangalore on 26th April 1957, explained the benefits that have accrued to the sericulture industry by the canalisation of imports through the State Trading Corporation (Private) Ltd., since the licensing period July-December 1956 and said :— "Canalisation of imports of raw silk through the agency of the Government has not only minimised the quantum of imports but has also helped both the weaving and sericulture industries in the promotion of their respective interests by preventing violent and rapid fluctuations, which were chronic before the canalisation of imports by a Government agency. The release of imported silk at prices fixed by the Central Silk Board had had a salutary effect on the price of Indian raw silk. The prices of silk have been steady more or less for the past two years."

Protection for the industry will continue till the end of 1958.

Below we give some facts and figures relating to the industry for the year 1956.

Mulberry Raw Silk Production in 1956

(All in lbs.).

State*	Filature	Charka	Duplon Silk	Total
Mysore†	1,03,446	14,13,564	55,582	15,72,592
Madras	36,282	80,890	5,244	1,22,416
Jammu & Kashmir	1,72,982	..	..	1,72,982
West Bengal	7,668	4,54,483	..	4,62,151
Punjab	..	13,239	..	13,239
Uttar Pradesh	3,000	..	..	3,000
Assam	..	27,619	..	27,619
Himachal Pradesh	..	400	..	400
Bihar	..	2,550	..	2,550
Bombay	..	154	..	154
Hyderabad	..	4,000	..	4,000
Madhya Bharat	..	250	..	250
Andhra	..	253	..	253
TOTAL	3,23,378	19,97,402	60,826	23,81,606

† Figures of raw silk production for Mysore have yet to be confirmed.

Non-Mulberry Silk Production in 1956

(All in lbs.).

State*	Tassar	Eri	Muga	Total
Assam	..	4,82,094	1,84,668	6,66,762
West Bengal	3,922	1,955	..	5,877
Madhya Pradesh	1,40,000	..	..	1,40,000
Orissa	1,00,000	..	..	1,00,000
Bihar	1,04,000	15,000	..	1,19,000
TOTAL	3,47,922	4,99,049	1,84,668	10,31,639

Statement showing the acreage under mulberry cultivation and number of mulberry trees in India during the year 1956 :—

State*	Acreage	Trees (No.)
Mysore	1,55,000	2,000
Madras	1,565	8,986
West Bengal	12,291	79,415
Assam	1,800	10,26,000
Jammu & Kashmir	..	25,00,000
Uttar Pradesh	2,860	21,82,052
Andhra Pradesh	216	15,199
Punjab	114	1,20,000
Madhya Bharat	75	..
Manipur	100	2,000
Madhya Pradesh	6	250
Himachal Pradesh	30	1,06,536
Orissa	12	311
Bihar	150	4,000
TOTAL	1,74,219	60,46,749

Statement showing the production of mulberry silkwaste in the different States of India in 1956 :—

(All in lbs.).

State*	Filature	Charka	Total
Mysore	48,326	6,13,679	6,62,005
Madras	34,099	40,520	74,619
Jammu & Kashmir	1,44,000	..	1,44,000
West Bengal	7,442	2,30,801	2,38,243
Punjab	..	5,266	5,266
Assam	..	13,312	13,312
Bihar	..	2,550	2,550
PEPSU	..	..	..
Other States	..	925	925
TOTAL	2,33,867	9,07,053	11,40,920

Non-Mulberry Silk Waste

(All in lbs.).

State*	Tassar	Eri	Muga	Total
West Bengal	470	..	..	470
Assam	..	4,82,094	73,861	5,55,955
Bihar	60,000	..	..	60,000
Orissa	55,000	..	..	55,000
Madhya Pradesh	1,30,000	..	..	1,30,000
TOTAL	2,45,470	4,82,094	73,861	8,01,425

* Pre-reorganization States.

SHIPPING INDUSTRY

TOWARDS the end of the Second World War, the Planning Department of the Government of India appointed a Policy Committee on Shipping. It observed: "India possesses a distressingly small number of deep sea ships which at the outbreak of the war stood at no more than 30 with a total of less than 150,000 tons gross. The rectification of this state of affairs should be one of the immediate post-war objectives."

This was followed by the constitution of a Reconstruction Policy Sub-Committee, with Dr. C. P. Ramaswami Aiyar as Chairman, in 1945. This Sub-Committee submitted its report in March 1947 which was approved by the Policy Committee. Its principal recommendations were:—

(1) India needs two million gross tons of shipping to carry more than 10 million tons of cargo and about three million passengers a year. The figure does not include country craft.

(2) Hundred per cent of the purely coastal trade of India, 75 per cent of India's trade with Burma and Ceylon and with geographically adjacent countries, 50 per cent of India's distant trades and 30 per cent of the trades formerly carried in Axis vessels in the Orient should be secured for Indian shipping in the next five to seven years.

(3) As the Indian shipping industry is still very young, emphasis should now be placed on how Indian companies can expand their fleets and the Indian Shipping Board should be empowered to control deferred rebates, rate-cutting and all other evils arising from monopolies.

The Government of India, by their Resolution dated July 12, 1947, fully endorsed the views of the Committee. They agreed that the definition of "Indian Shipping" should be shipping owned, controlled and managed by Indian nationals. They also laid down that the following conditions should qualify any shipping company for treatment as "Indian shipping companies":—

(a) The steamers of the companies should be registered at a port or ports in India. (b) At least 75 per cent of the shares and debentures of the companies should be held by Indians in their own rights. (c) All the directors should be Indian. (d) The managing agents, if any, should be Indian.

PRESENT POSITION

The subsequent developments may be summarised as follows:—

(1) Plans for setting up three corporations, each with an authorised capital of Rs. 10 crores were announced in November 1947. The first Government-sponsored shipping corporation (The Eastern Shipping Corporation) was registered on March 24, 1950 with a capital of Rs. 5·5 crores.

As a result of certain provisions of the new Company Act, 1956, in regard to Managing Agents, the Corporation became a full-fledged State enterprise with effect from August 15, 1956. Another State shipping enterprise, the Western Shipping Corporation was set up in 1956 with an authorised capital of Rs. 10 crores.

The Eastern Shipping Corporation has a fleet of seven vessels with orders for three more (overseas vessels) and one cargo-cum-passenger with the Hindustan Shipyard. In 1955-56 it made a profit of Rs. 31,71,036.

The Western Shipping Corporation has only a tanker at present (end of 1957) which is on charter with the Burmah Shell Company. The Corporation has placed orders for four vessels all at foreign shipyards (two German and one Italian and Yugoslav respectively).

It is intended that the Western Shipping Corporation should run the Indo-Polish service and also function on the Persian Gulf Service. At a later stage it is to extend its operations to the Red Sea.

(2) Indian shipping companies participated in overseas trade for the first time in 1948. Two of them are members of the India-U.K.-Continent Conference Lines and have 30 vessels operating in the trade. As on 31st March 1957, five Indian companies were engaged in the overseas trade with 43 ships totalling 289,273 gross registered tons. Indian shipping companies are now serving the following foreign trades: India-U.K./Continent; India-Persian Gulf; India-Australia; India-Japan/Far East; India-Singapore; India-East Africa. A new shipping service between India and Black Sea ports was introduced in February 1957 under an agreement concluded by the Government of India with the U.S.S.R. Government in April 1956. A few vessels are also operating in the international tramp trade.

At the end of 1957, India had 331,000 G.R.T. in the overseas section.

(3) The coastal trade of the country was reserved in 1950 for Indian vessels in response to a public demand which had been made for the past 25 years. With effect from January 1, 1951, a new Indian Coastal Conference, consisting primarily of Indian shipping companies commenced functioning and the two British shipping companies became associated members. The Indian-owned tonnage employed on the coast as on 31st March 1957 consisted of 81 vessels of a total G.R.T. of 232,167.

At the end of 1957, India had 240,000 G.R.T. in coastal traffic.

(4) The first tanker to fly the Indian flag was purchased by the Great Eastern Shipping Co. and was entered on the Indian register in 1956. The vessel has been placed in the coastal trade on charter to the Standard Vacuum Oil Co. A second tanker has since been bought by the Western Shipping Corporation and has been chartered to the Burmah Shell Company. The question of acquiring a third tanker, the second in the public sector, is now under consideration. The Western Shipping Corporation is negotiating with the Caltex Ltd. in this regard.

The more recent progress of Indian shipping is given in the following table:—

Year.	No. of companies.	No. of ships.	Tonnage (G.R.T.).
1948 ..	15	72	249,261
1949 ..	20	84	332,490
1950 ..	23	90	364,632
1951 ..	23	92	366,646
1952 ..	26	100	383,911
1953 ..	25	111	422,452
1954 ..	30	124	435,300
1955 ..	30	126	465,264
1956 ..	30	125	478,307
1957 ..	25	130	571,440

The Shipping Policy Committee fixed in 1947 a target of two million tons to be attained by 1954. Eight of the present 25 companies own one vessel each. Six own a vessel each under 1,000 G.R.T., while another owns a vessel of 2,200 tons. Six others own two vessels each under 3,500 tons. Thus 14 out of 25 companies own only 20 vessels with an aggregate tonnage of 13,048 G.R.T.

Six ferry steamers with an aggregate G.R.T. of 4,754 are engaged in the carriage of passengers on the Konkan Coast and carry approximately a million and a half passengers per year.

Twenty-four steamers owned by 9 companies with an aggregate G.R.T. of 42,042 run between the Kandla and the Tuticorin Range. On an average they carry about eight lakh tons of cargo every year on the West Coast of India.

Forty-one vessels of 198,464 G.R.T. owned by 9 shipping companies participate in the wider coastal trade of India carrying about 20 lakh tons of cargo every year.

Planning.—Taking into account the financial resources available, a programme of development was formulated which aimed at raising the total gross registered tonnage to over 600,000 by the end of the period of the First Five Year Plan. In order to assist the shipping companies in replacing obsolete tonnage operating on the coast and expand, Government had provided funds for constructing ships at Vishakapatnam; a total of 100,000 G.R.T. was expected to become available from this shipyard during the period of the First Plan.

At the beginning of the First Five Year Plan, India had a tonnage of 390,707 G.R.T. The target under the plan was to add 215,000 G.R.T. after allowing for obsolescence to the extent of 60,000 G.R.T., thus increasing the tonnage to 600,000 G.R.T. by 31st March 1956. On that date the actual tonnage stood at 480,000 tons, but taking into consideration the tonnage on order in Indian and foreign yards, the target is expected to be reached soon. In the Second Five Year Plan it is proposed that about 301,000 tons should be added after allowing for obsolescence of 90,000 tons. Thus by the end of the 2nd Plan, the total tonnage is expected to reach 900,000 G.R.T. With the achievement of this target, Indian tonnage is expected to carry at least 15 per cent of the country's overseas trade as against the present 5 to 6 per cent, 50 per cent of the trade with adjacent countries as against 40 per cent at present, besides 100 per cent of coastal trade. In the First Plan a sum of Rs. 19 crores was provided for shipping and this was subsequently raised to Rs. 26·3 crores. Actual expenditure over the First Plan period was about Rs. 18 crores. In the Second Plan a provision of Rs. 45 crores including the carryover of Rs. 8 crores has been made for shipping expansion. The full amount has already been utilised in placing the orders for ships in Indian and foreign yards by the shipping companies in the private and public sector, though the tonnage ordered will be inadequate to enable the merchant marine to reach the proposed target of 900,000 tons.

Commitments for 8 coastal ships and 20 overseas vessels were made in the first year of the second Plan. That represented tonnage to the extent of about 170,000 G.R.T. The entire sum of Rs. 37 crores has already been spent for meeting the cost of these fresh orders. Including the replacement of 90,000 G.R.T. of old ships, India will have to place orders for the purchase or construction of about 210,000 G.R.T. to reach the target of 900,000 G.R T. by March 1961.

A constructive measure which the Government has taken is to establish a non-lapsable shipping development fund. The Fund will be built up through (1) annual contributions from the Consolidated Fund of India, (2) all repayment of loans advanced to Indian shipping companies, and (3) all payments by way of interest on such loans. The immediate effect of the constitution of the Fund is that a sum of Rs. 7 crores representing the repayment of loans and interest charges will become available for further investment in the Second Plan period. This will be in addition to the Rs. 37 crores allotted under the Second Plan. Contributions to the Fund from the general revenue were expected to commence in 1957-58, but certainly in 1958-59.

Another welcome decision the Government has taken is to introduce some uniformity in the rates of interest on its loans to the shippin

industry. These rates of interest, which at present are 2½ per cent for the overseas sector and 4 to 4½ per cent in the coastal sector, will be changed into a uniform 'effective' rate of 3 per cent for all loans irrespective of the sector to which they are applied.

According to the Sailing Vessels Committee's Report it would seem that sailing vessels continue to carry a substantial volume of cargo. It is estimated that 150,000 tons of shipping under sail consisting of about 2,000 vessels carry about a million to a million and a half tons of cargo every year. These vessels employ about 40,000 men, 2,500 masters, 2,500 mates and about 35,000 seamen. Taking the average cost of these vessels at Rs. 250 a ton, the capital outlay is computed at Rs. 4 crores.

A comprehensive Bill relating to shipping is now before Parliament (March 1958).

SHIP-BUILDING*

The credit for building the first modern ship-building yard goes to the Scindia Steam Navigation Co., Ltd. This was founded at Vishakapatnam in 1941; the company completed two berths in 1947. The first steamer built in this yard was launched on March 14, 1948 by Mr. Nehru. A third berth of the same capacity (building of ships ranging from 320 to 550 ft. in length and from about 5,500 tons to about 15,000 tons dead weight capacity) was ready in 1953. The yard is equipped with a fitting-out wharf 1,200 ft. long, which will be capable of fitting-out six ships of large size and 3 medium sized ships in one year. On the engineering side, the hull and structural shop has a fabricating capacity of 8,000 tons of steel per year.

On January 21, 1952 "Hindusthan Shipyard Ltd." was registered to take over this yard. The Government of India holds a two-thirds interest in the Company and Scindias one-third. The valuation of the shipyard was provisionally agreed at Rs. 270 lakhs which will be paid by the issue of fully paid shares of the new company for Rs.108 lakhs and the balance in five equal annual instalments. The aggregate initial capital of the company was to be Rs. 309.9 lakhs.

After the transfer of the shipyard to the new company, a five-year plan for its development was formulated which was estimated to cost Rs. 15·84 crores between 1952-53 and 1956-57. Out of this, Rs. 11·77 crores were envisaged to be spent during the four years ended 1955-56.

With a view to obtaining the necessary technical assistance, an agreement was made with a French firm for 5 years.† This provided for advice in setting up a fully equipped designing and estimating office, organisation, development and management of the shipyard and the building of ships as well as help in procuring supplies from France and training Indians in France. In return, the firm would receive 4 per cent commission on the annual turnover of the yard.

The total issued capital of the yard is Rs. 452·75 lakhs, of which the Government holds shares valued at Rs. 348·50 lakhs, the balance being held by the Scindias.

The Government sanctioned a sum of Rs. 196 lakhs for the first phase of development of the yard which was expected to be completed by the end of 1956. The Government has already advanced for the development works Rs. 163·50 lakhs, of which the yard had spent Rs. 129·87 lakhs up to the end of February 1957.

The annual break-up of the expenditure was visualized as under:—

(Rupees in lakhs).

Year.	Acquisition of yard.	Development of yard.	Loans against ships built at yard.	Subsidy.	Total.
1951-52 ..	39·6	10·0	182	—	231·6
1952-53 ..	40·0	100·0	100	42	282·0
1953-54 ..	40·0	110·0	50	60	260·0
1954-55 ..	40·0	110·0	50	60	260·0
1955-56 ..	40·0	145·0	120	70	375·0
1956-57 ..	7·0	150·0	180	70	407·0
	206·6	625·0	682	302	1815·6

At the end of March 1957 it was announced that the Government had decided to construct a second ship-building yard. But neither the identity of the consultants nor the site for the shipyard had been decided at the time.

A mission from the U.K. which was to help to decide the location of the second ship-building yard completed its tour of possible sites towards the end of November 1957. Its report was expected by the end of March 1958.

Under a Cabinet reorganisation scheme, shipping became the sole concern of the Transport Ministry early in 1951. While matters of policy are dealt with in the Ministry, the newly created office of the Director-General of Shipping serves as an executive office, as distinct from the Secretary, for the co-ordinated implementation of policy. The office of the Controller of Indian Shipping, the Mercantile Marine Department and the Lighthouse Department have come under his administrative control.

The administration of the Merchant Shipping Acts and Rules made thereunder, at the ports is undertaken by the Principal Officers, Mercantile Marine Department at the principal ports. The Assistant Director of Seamen's Welfare and his officers carry out the planning and execution of schemes and projects for seamen's welfare, scrutiny of the schemes and projects recommended by the Welfare Committees at the ports and administration of the Merchant Seamen's Welfare Amenities Fund.

National Welfare Board For Seafarers: In 1955, the Government of India constituted the National Welfare Board for Seafarers to advise the Government on all matters relating to the welfare of seafarers. The Board consists of Government members, representatives of port authorities, shipowners, seafarers and of voluntary societies dealing with welfare of seamen.

Employment Of Seafarers: The Government of India has taken over the work of recruitment of seafarers in Bombay and Calcutta for ensuring equitable distribution of the available volume of employment among the registered seafarers. For this purpose, a Seamen's Employment Office was set up in Bombay in June 1954 and in Calcutta in March 1955.

* See also under 'Government Industrial Undertakings'.

† The agreement is now terminated (April 1958).

STEEL INDUSTRY*

THE first successful and the most outstanding attempt to manufacture steel in the country on a commercial basis was that of the Tata Iron & Steel Co. which started its Steel Works at Sakchi in the year 1908. Pig iron was made in 1911 and the first steel ingot a year later.

The Indian Iron & Steel Company was started in 1918 at Hirapur about 4 miles from Asansol junction on the Eastern Railway for producing pig iron. Eighteen years later it floated another company, the Steel Corporation of Bengal to manufacture steel. Towards the end of 1952 the two companies were merged.

An iron works was started at Bhadravati in Mysore State in 1921 to which a steel plant was added in 1934. During World War II, a 25-ton basic furnace together with two small electric furnaces were installed.

The combined capacity of all these three factories in January 1957 stood at 2,221,200 tons of pig iron and 1,730,000 tons of finished steel.

The total capital investment is about Rs. 61 crores and the number of workers employed about 60,000.

The recent trend of production is given below :—

Year.	Pig iron.	Steel ingots.	Semi-finished steel.	(000 tons) Finished steel.
1949	1,528	1,352	1,105	930
1950	1,562	1,438	1,142	1,004
1951	1,709	1,500	1,249	1,076
1952	1,685	1,578	1,308	1,103
1953	1,655	1,507	1,230	1,018
1954	1,793	1,685	1,452	1,243
1955	1,757	1,704	1,457	1,260
1956	1,807	1,738	1,484	1,316

The production and imports in tons of finished steel from 1956 are visualized as follows :—

1956–57 :	1,335,000 and	1,850,000
1957–58 :	1,385,000 and	1,200,000
1958–59 :	1,510,000 and	600,000
1959–60 :	2,085,000 and	600,000
1960–61 :	4,080,000 and	200,000

Since 1924 there have been three main tariff enquiries into the case of the iron and steel industry—in 1924, 1926 and 1934. In between there were three supplementary enquiries and five special enquiries for the subsidiary industries in India. The scheme of protection sanctioned as a result of the tariff enquiry held in 1934 was to remain in force for seven years till 31st March 1941. Before, however, this protection expired, World War II intervened, and the protective duties on imported steel were continued from time to time by continuation Acts, the last extension being for a period of one year till 31st March 1947.

Alloy, tool and special steel were protected upto 31st Dec. 1955.

Since the war in 1939 the price and distribution of steel have been controlled by the Government. The permission for free sale of sheets and plates by Registered Stock-holders, which was withdrawn in August 1953 was again restored in May 1954. During 1954, production of finished steel reached the high level of 1·2 million tons and imports amounted to 3·5 lakh tons. Consequently, it was possible to allot larger quotas of steel to consumers. The total allocation amounted to 14·5 lakh tons as against 12·9 lakh tons in 1953. The demand of the Defence Services, Railways, Industrial Maintenance and Packing and Development Schemes in the Government and the private sector were mostly met in full.

The selling prices of steel were raised on the average by about Rs. 15 per ton with effect from March 29, 1954. The entire scrap price schedule was revised, with certain classes going down and others rising in prices. Tinplate selling prices were reduced by about Rs. 50 per ton on April 1, 1954. Again in 1955, the selling price of steel was increased twice, first by Rs. 20 per ton on the average from July 1, 1955 and by Rs. 80 per ton from October 1, 1955.

The prices of all controlled categories of steel were raised by Rs. 70 per ton uniformly in May 1957. The increase followed the enhancement of of excise duty on steel from Rs. 4 per ton to Rs. 40 per ton with effect from 16th May 1957.

The retention prices of steel produced by the Tata Iron and Steel Co. were raised by an average figure of Rs. 32 per ton for 1952-53, Rs. 47 per ton for 1953-55 and Rs. 87 per ton for 1955-60 as a sequel to an inquiry by the Tariff Commission. The Tariff Commission submitted its report regarding steel retention prices payable to the Indian Iron & Steel Co. early in 1954. It recommended an increase of Rs. 66 per ton for the period 1953 to 1956. But the Government decided on an average increase of Rs. 59 per ton and fixed the period from 1953 to March 31, 1955 and a further increase of Rs. 15 per ton for 1955-60. Retention prices for tin plates were also revised during 1954 and on the recommendation of the Tariff Commission, they were fixed at Rs. 807 per ton for 1953 the same level as for 1952 and were reduced to Rs. 762·9 per ton for 1954-56.

The sale prices of pig iron was raised by Rs. 60 per ton with effect from 11th June 1956, in order to accommodate the enhanced retention prices payable to producers, to provide funds for sale at uniform prices at all rail heads, and to finance pig iron imports on a subsidised basis. Arrangements had been made to import 150,000 tons of pig iron on a subsidy basis during 1956-57. Actual imports were, however, lower.

RAW MATERIALS

The important raw materials are iron ore, coking coal, manganese ore, refractories made from magnesite, dolomite, chromite, fireclay, etc. and fluxing materials like silica, limestone and fluor-spar. Sulphur is also required for the manufacture of sulphuric acid.

In regard to most of these raw materials, India enjoys a favourable position. The deposits of iron ore are plentiful and of a superior quality, the average iron content of the ore being as much as 60 per cent as compared with 40 per cent in Europe and 50 per cent in the U.S. This is also true of manganese ore, magnesite and dolomite. Known deposits of coking coal are estimated at between 1,500 and 2,000 million tons.

The principal raw materials brought from abroad are spelter for galvanising, tin for tin plates, ferro-tungsten, nickel, chromium and fluor-spar. Deposits of fluor-spar are located in Madhya Pradesh; but they are yet to be exploited.

As raw materials account for nearly 80 per cent of the cost of pig iron and 60 per cent of the cost of finished steel, they provide the explanation for the low cost of steel produced in India.

RE-ROLLING MILLS

The re-rolling mills manufacture a variety of products from blooms and billets. In the initial stage the revenue duty on imported billets was removed to encourage the industry and by 1939 there were 32 re-rolling mills with a productive capacity of 140,000 tons. Towards the end of 1942 when control over distribution of scrap and billets was introduced, out of the 130 mills then existing only 75 came within its purview. Later several mills were compulsorily closed under Government orders.

At the end of 1955, there were in existence 142 re-rollers—20 registered rollers and 122 unregistered re-rollers—with an annual capacity, on a three-shift basis, of 335,000 tons and 383,000 tons respectively. Their output during the First Plan was :

	Registered (Tons)	Unregistered (Tons)
1951	73,179	23,510
1952	68,636	25,426
1953	83,349	28,554
1954	109,832	37,068
1955	120,306	53,336

In addition to these, a few are manufacturers of spécial products such as tin plates, wire and wire products, fish plates and spikes, bars and rods, bolts and nuts, rivets, spring steel, hoops and strips and are called "secondary producers". Their number during the First Plan was eight.

There are two spun pipe plants at the Kulti works of IISCO with a total capacity of 155,000 tons of piping a year.

In 1933-34 the Tariff Board stated that the re-rolling mills had a place in the iron and steel industry in India. The subsequent inquiries have revealed that a large proportion of the mills are inefficient and uneconomic in addition to such handicaps as the acute shortage of raw materials.

The main problem of the re-rolling industry is the shortage of billets and scrap. So, while the registered re-rollers could operate their plants on a single shift basis, the unregistered re-rollers hardly achieved 35 to 40 per cent utilisation of their capacity.

The re-rollers at places like Amritsar, Jullundur, etc. situated at considerable distance from the ports had to incur heavy freight charges which inflated their production costs. Relief was given to them from May 1954 through the fixation of a maximum freight charge at Rs. 60 per ton. Similarly in 1955-56 the Government extended the port prices to Jamshedpur and Burnpur to encourage the growth of industries in the vicinity of steel plants.

FIVE-YEAR PLANS

The Planning Commission has estimated that the demand for steel will rise from 2·34 million tons in 1952 to 2·8 million tons by 1957, while that for foundry pig iron will be stepped up by 100,000 tons to 700,000 tons.

At the beginning of the Plan, the following programmes of expansion were under execution :—

(1) The Mysore Works took up certain schemes for execution in the post-war period. These cover expansion of cement production and direct recovery of acetic acid from pyrolingneous liquor, erection of two electric pig iron furnaces each capable of producing 100-110 tons of pig iron per day, and modernisation of iron ore mines and extension of forest tramways to ensure an adequate supply of wood fuel and mineral raw materials.

(2) The Steel Corporation of Bengal and the Indian Iron Company had at first projects under execution to increase the installed capacity for finished steel to 345,000 tons by 1953-54.

They had also formulated additional proposals to enable them to produce another 350,000 tons of finished steel and 400,000 tons of foundry iron at a cost of Rs. 31·7 crores spread over 1953-57.

(3) The Tata Iron and Steel Company formulated a programme of expansion and modernisation of their works at a total cost of about Rs. 22·40 crores apart from normal capital expenditure for replacement and maintenance which is estimated to cost additional Rs. 10·21 crores. A subsequent assessment of the investment in the Programme made it imperative to revise the overall expenditure to Rs. 42·6 crores. Their plan envisages the raising of the capacity for finished steel from 750,000 tons to 931,000 tons by 1957.

* See also under 'Government Industrial Undertakings'.

The above schemes were expected to produce the following results :—

	Unit	1950-51	1957-58
Rated capacity of finished steel ..	Tons '000	1,015	1,650
Production—			
Pig iron (for foundries) ..	„	350	750
Finished steel ..	„	976	1,650

The Plan had stipulated that the future expansion of the industry should provide for the production of an additional 150,000 tons to 200,000 tons of billets for the re-rolling industry. The expansion will also call for the creation of certain additional transport facilities involving an outlay of about Rs. 10 to Rs. 12 crores.

The Planning Commission was of the view that in spite of the expansion contemplated, there would be a short-fall of a million tons of steel and therefore, urged the establishment of a new iron and steel plant through collaboration between the State and an experienced Indian concern. The total expenditure on this during the period of the first Plan was expected to be about Rs. 25 crores and negotiations for participation by foreign concerns and the World Bank were advocated.

The expansion scheme of the Mysore Iron and Steel Works was reviewed in 1952-53 when it was found that the capital investment would be substantially higher than envisaged under the Plan. By the end of 1953 the first electric pig iron smelter went into production. The second went into production by December 1955.

During the review of the expansion scheme, it was felt that the Works should concentrate on high priced steels rather than mild steel products. So on the report of the T.C.M. experts, the broad development under the Second Plan was finalised. So far the Government has approved schemes relating to a cast iron spun pipe plant of 17,000 to 18,000 tons annual capacity estimated to require an investment of Rs. 45 lakhs; and a sintering plant for the utilisation of iron ore fines involving an expenditure of Rs. 45 lakhs. Altogether a sum of Rs. 138·86 lakhs was estimated to have been invested in the Works during 1951-56.

The expansion scheme under the Second Plan is estimated to cost about Rs. 6 crores and when completed the capacity of the Works is expected to reach one lakh tons of finished steel. Apart from this, the output of ferro-silicon is proposed to be expanded for meeting the requirements of all the steel plants.

By the end of 1953-54, the Indian Iron and Steel Co. completed its major extension plan, *viz.*, the Morgan Mill, boiler plant and ash handling equipment. Its capacity for finished steel stood at 350,000 tons in 1955-56 as against 225,000 tons at the commencement of the first Plan. During the period, the actual investment on the developments is estimated at Rs. 15·27 crores.

According to the estimates made by the Tariff Commission, the production of saleable steel by this plant during the Second Plan is about 2·6 million tons at an overall investment of Rs. 42·53 crores.

As regards further expansion designed to raise capacity to 620,000 tons of steel and 500,000 tons of foundry pig iron per annum or alternatively 700,000 tons of finished steel and 400,000 tons of foundry pig iron per annum a loan of 31·5 million dollars was obtained from the World Bank and a special advance of Rs. 10 crores from the Equalisation Fund and a loan of Rs. 7·9 crores (including Rs. 5 crores sanctioned in 1949) were sanctioned by the Government. The World Bank has given another loan of $20 million to the Company for expansion purposes. The Company is now engaged on the Scheme for stepping up the production capacity from 3 lakh tons to 8 lakh tons of saleable steel by 1958-59.

The modernisation and expansion scheme of the Tata Iron and Steel Co., designed to increase capacity for finished steel from 750,000 tons to 931,000 tons in 1957-58 progressed satisfactorily. An investment of about Rs. 3,414 lakhs (out of a total capital expenditure of Rs. 4,260 lakhs for the entire programme) was made upto 1946. The Government of India has agreed to grant a special loan of Rs. 10 crores to assist the completion of the programme. The capacity of the company in 1957 was estimated around 8 lakh tons.

The Tatas had another project for the expansion of their iron and steel factory still further. This project would cost about Rs. 61·9 crores and take about 30 months to complete. The expansion would raise the total capacity to about two million tons. The Tata Iron and Steel Co. have entered into an agreement with the Henry J. Kaiser Co. of California, U.S.A. for this purpose.

The Company obtained a loan of 32·5 million dollars from the World Bank and nine U.S. and Canadian Banks in November 1957.

The production of two million tons that is aimed at would be reached about the end of 1959-60.

Early in 1957, the first stage of the expansion programme was reached when two 100-ton open hearth furnaces were put in operation. It is the aim that the present output of 8 lakh tons of finished steel should be raised to nine lakh tons in 1957-58, to 1·2 million tons in 1958-59 and finally 1·5 million tons in 1959-60 equivalent to two million tons of steel ingots.

The Tariff Commission envisages a total output of 5·9 million tons of steel with an investment of about Rs. 85 crores in 1961.

PUBLIC SECTOR

The year 1956 witnessed the finalisation of the schemes for three iron and steel plants in the public sector. One factory, which will have an initial capacity of one million tons of steel per annum, is located at Rourkela in Orissa State. An agreement was signed with the Krupp-Demag Combine for financial and technical collaboration in the execution of this major industrial project. Construction started in 1955.

An agreement has also been signed between the Governments of India and the U.S.S.R. to set up a steel plant with an initial capacity of one million tons of steel ingots at Bhilai in Madhya Pradesh. Eventually its capacity is proposed to be raised to one million tons of rolled products. Construction work on this is in progress.

A third plant is being set up in the public sector at Durgapur in W. Bengal. This will produce about 750,000 tons of light and medium sections and bars in addition to about 350,000 tons of pig iron. An Agreement has been reached with a consortium of British steel interests for the construction of this plant.

The total cost of all the three steel plants in the public sector was estimated as :—Rourkela Rs. 165 crores; Bhilai Rs. 115 crores; and Durgapur Rs. 115 crores. These estimates did not include the cost of the three townships, two ore mines, fees to the consultants and the cost of Indian and foreign experts. But mainly on account of an increase in the cost of material and labour in the countries from which plant was to be imported, the estimates have been revised. The Durgapur Plant is expected to cost Rs. 138 crores and the Rourkela Plant about Rs. 170 crores excluding customs duty and contingencies. The estimates for the Bhilai Plant, when revised, would be about Rs. 131 crores.

The steel expansion programme both in the public and the private sectors will thus entail an overall investment of over Rs. 525 crores.

According to the present time schedule, the Rourkela Plant and the Bhilai Plant are expected to go into production as a whole by the end of 1959. The Durgapur Plant would be in full production by middle of 1961.

Although all these plants have an ingot capacity of one million tons each, their layouts have taken into account the possibility of their further expansion in later years. Thus the Bhilai Plant provides for ultimate expansion to 2·5 million tons of ingots per annum and the Rourkela and the Durgapur Plants to about 1·25 million tons of ingots each. The actual output of saleable steel from these three steel plants and the Mysore Iron and Steel Works is placed at about 2 million tons in 1960-61.

To relieve shortage due to the wide gap that exists between the demand for steel and the supplies available from internal sources, there have been sizable imports of steel amounting to about 177,000 tons in 1951, 195,000 tons in 1952, 247,511 tons in 1953, 387,401 tons in 1954 and 904,000 tons in 1955. Of this, the imports of steel during the years 1952-53 and 1953-54 under the T.C.A. programme amounted to 12,326 tons and 97,734 tons respectively, while imports in 1954 totalled 119,250 tons.

The aggregate imports of steel during 1956 amounted to 18 lakh tons, as against 9 lakh tons in 1955. Arrangements were concluded with various countries, including the U.S.S.R., W. Germany, Japan, the U.K., Poland, China, Belgium and Yugoslavia, for the supply of steel during the period 1956-58.

An agreement has been signed with the Soviet Union for the supply of one million tons of steel in the first three years of the Plan period.

The total output of saleable steel during the Second Plan period is estimated at about 11 million tons as against the overall requirements over the five years assessed by the Planning Commission at about 17 million tons. Production will be equal to the demand only in the last year of the Plan.

During the First Plan, exports of steel were mainly restricted to obligations arising from bilateral trade agreements and other inevitable commitments. With the completion of the steel development programmes, Indian steel should be available for export, especially to the whole of South-East Asia. The Second Plan envisages an export target of 2 lakhs to 3 lakhs tons of steel in 1960-61.

SUGAR INDUSTRY

THE sugar industry is the second largest industry in India, next only to the cotton textile industry, with a capital of about Rs. 72 crores of which about Rs. 30 crores is fixed capital and Rs. 42 crores working capital. The annual value of the industry's products for 1956-57 is about Rs. 165 crores.

It has a considerable influence on the agricultural economy in so far as it brings additional remuneration to those who take to the cultivation of sugarcane.

The economy of Uttar Pradesh and Bihar is particularly tied with the development of this industry since 70 per cent of the sugar production is in these two States.

The industry also produces a variety of raw materials for other industries such as power alcohol, paper, paper board and straw board.

The labour employed in sugar factories is roughly 140,000 skilled and unskilled workers, and about 3,500 University-educated men.

A Central Wage Board for the sugar industry was appointed in December 1957.

The growth of the industry is attributable to the protection given to it in 1932 for a period of 14 years. The import duty in pre-war years was as much as Rs. 9-4 per cwt. of which Rs. 2 represented the quantum of the excise duty on indigenous production. Protection was continued till 1950 but it was of an academic interest since imports were negligible from 1937.

In 1931-32, there were only 32 sugar factories in the country, but at the beginning of the First Five-Year Plan, there were 158 factories. This rose to 168 in the first year of the Second Plan (1956-57). Of these 19 factories had been lying idle for several years.

The industry has so far developed in the private sector, the only exception being some of the former Indian States in which the State Governments substantially contributed to its development by financial participation and in other ways.

The year 1952 was notable for another innovation inasmuch as the first factory was built by cane producers on a co-operative basis in the Ahmednagar District in Bombay State.

The Government of Bombay is giving active support and encouragement to the establishment of co-operative mills by contributing to the share capital of these concerns. In 1957 there were five units in the State. At the end of the Second Plan period there would be 18 producing two lakh tons of sugar annually.

The Government of India gave permission in 1954 for the establishment of 43 new sugar factories and substantial expansion of 42 existing factories. These new factories are expected to give an additional production of 725,000 tons. Subsequently, licences were given for the setting up of 11 more new mills and expansion of 27 existing units. Through these programmes, and the utilisation of two old plants, the sugar industry's capacity is expected to rise to 2·5 million tons in 1960-61. The proposal for setting up sugar refineries has been postponed indefinitely.

On the basis of an average operating season of 120 working days and assuming a recovery of 10 per cent sugar, the rated capacity of the 168 factories existing in 1956-57 is estimated to be over 1·96 million tons of sugar per annum. The industry in Uttar Pradesh and Bihar alone has a capacity to produce 1·15 million tons.

While announcing their sugar policy for 1953-54, the Government sanctioned an increase in the minimum price payable for sugarcane by vacuum pan factories to Rs. 1-7-0 per maund for gate deliveries and Rs. 1-5-0 per maund at rail centre.

The Government also decided that this increased price would be applicable to the 1954-55 season. This increase of 2 annas would have meant an increase in sugar prices of Rs. 1-4-0 per maund. But, in order to keep the fair price of sugar at the previous year's level of Rs. 27 per maund, the Government decided to discontinue the special additional excise duty of Re. 1 per maund of sugar imposed in the previous year. The Government of India announced on November 16, 1954, its decisions to apply on a voluntary basis a formula for linking the price of cane to that of sugar. Under this formula, the cane grower gets an extra price over and above the minimum price of Rs. 1-7-0 per maund. The aforesaid minimum price for sugarcane was continued during 1955-56 and 1956-57 also.

The State-wise production in the two seasons 1955-56 and 1956-57 is given below :—

States	Sugarcane crushed (1,000 tons)		Sugar produced (1,000 tons)	
	1955-56	1956-57	1955-56	1956-57
Uttar Pradesh	10,187	11,037	989	1,067
Bihar	3,269	3,218	319	308
Bombay	1,673	2,155	195	246
Andhra	1,457	1,473	138	137
Punjab	426	775	38	71
Madhya Pradesh	381	489	36	47
Mysore	566	451	57	45
Madras	608	656	54	79
Rajasthan	145	165	14	16
Kerala	87	134	8	12
Orissa	44	45	4	4
West Bengal	96	103	10	9
All India.	18,939	20,701	1,862	2,021

The size of the factories operating in the country varies widely from 50 tons to over 2,000 tons of cane crushing capacity per day. It is generally accepted that factories with a minimum cane crushing capacity of 800 tons per day should be considered as economic units. On this basis, only half the number can be considered economic.

RAW MATERIALS

The principal raw material is sugarcane. Its consumption in 1956-57 was over 20·7 million tons for a production of 2·02 million tons of sugar. Cane produces a little less than a tenth of its weight in sugar. Approximately 28 to 29 per cent of cane is consumed by sugar factories.

About 90 per cent of the acreage under cane is now under improved varieties; but the yield per acre has not improved materially and this accounts for the high cost of sugar.

The following table gives the details :—

Year.	Acre under sugarcane (000 acres)	Total output of sugarcane* (000 Tons)
1950-51	4,214	56,160
1951-52	4,792	60,680
1952-53	4,376	52,600
1953-54	3,498	43,673
1954-55	3,994	57,600
1955-56	4,565	59,820
1956-57	5,019	67,450

The first estimate of acreage for 1957-58 is 5,022,000.

* In terms of the weight of the cane.

PRODUCTION

Price of sugar is not controlled now. But there was control from 1942 to October 1952 except for a brief period in 1947. During this period the controlled price of sugar was linked with the minimum price for cane fixed for Uttar Pradesh and Bihar. Besides the excise duty, a provincial cess was also levied. Since 1948 the floor for cane prices has been and is being slowly lowered.

Since gur was excluded from the orbit of control, the parity price for gur was always higher.

The production capacity of the industry which stood at 17·40 lakh tons of sugar at the end of the first Five Year Plan is to be extended to 25 lakh tons by the end of 1960. Licences have been granted for expansion of 69 existing factories and for the establishment of 54 new factories including 39 co-operative factories.

The Plan for the industry for 1957-58 aims at a production target of 2·16 million tons, the estimated production during 1956-57 being 2·02 million tons. The investment will be about Rs. 24 crores, of which Rs. 19 crores will be spent on the setting up of 22 new factories and Rs. 5 crores on the expansion of 17 existing factories.

The details of sugar production are given below :—

Year Ended October	Installed capacity (Lakh Tons).	Sugar output (Lakh Tons)
1951	15·40	11·16
1952	15·40	14·97
1953	15·40	12·94
1954	15·40	10·01
1955	15·40	15·90
1956	17·40	18·62
1957	19.60	20·29

CONSUMPTION

The *per capita* consumption of sugar in the pre-war period was 6·6 lbs. During 1950-51, on the basis of a production of 1·1 million tons of sugar being consumed by a population of 355 million, the *per capita* consumption worked out at about 7 lb. In addition, *gur* amounting to three times the quantity of sugar is also consumed in the country so that the total *per capita* consumption is not much behind that of other countries.

On the basis of a population of 385 millions and of a production of 1·5 million tons of sugar in the country by utilising the entire rated capacity available, the *per capita* consumption of sugar was expected to be increased to 8·7 lbs. by 1955-56.

This quantity might be deemed sufficient under present economic conditions, according to the Planning Commission. Actually, the *per capita* consumption of sugar during 1955-56 was 11·1 lbs. and, in 1956-57, it was 12·06 lbs.

The main problem is of cane supply. The factories in Uttar Pradesh and Bihar are in a number of cases situated so near each other that there is competition between them for cane. The industry has also been complaining of the prices fixed for cane. Several factories have not enough covered storage facilities for molasses.

The First Five-Year Plan for cane cultivation envisaged an increased output equivalent to 703,000 tons (in terms of *gur*) of which Uttar Pradesh was expected to account for 410,000 tons. The additional production targets (in tons) for other States were: Bombay 80,000, Madras 80,000, Punjab 70,000, Bihar 50,000 and other States 13,000. The targets were however, not fulfilled. The net total increase in the output of cane during the plan period was only 240,000 tons.

The development schemes to increase the per acre yield, which were started during the First Plan period with a total expenditure of about Rs. 80 lakhs were extended year by year in view of the encouraging results. Out of a target of 10 lakh acres to be covered during 1955-56 under the campaign for intensive manuring, 8·08 lakh acres were covered with 10 lakh maunds of ammonium sulphate. The target for 1956-57 was 15 lakh acres of which 13·81 lakh acres had been covered by the end of September 1956. The total cost of sugarcane development schemes came to Rs. 10·45 crores.

Another part of the development programme should consist of enabling some of the factories to shift to areas or States where a plentiful supply of cane is assured. These and other remedial measures should enable the industry which has a productive capacity of over 1·9 million tons of sugar to produce by 1960-61 about 2·5 million tons as against 1·12 million tons in 1950-51 and 1·86 million tons in 1955-56.

With the removal of all quantitative restrictions on the consumption of sugar in 1952-53, the demand for it rose steeply to about 17 lakh tons per annum. The total quantity of sugar consumed during the 1956-57 season is estimated at 20 lakh tons.

During 1956-57, a quantity of 200,000 tons of sugar was allowed to be exported; the quantity actually shipped was about one lakh tons.

The policy for the 1957-58 sugar season is almost the same as before: no statutory control, factories to keep 25 per cent of sugar produced as reserve, formula linking price of sugarcane to sugar, and price of cane Rs. 1-7-0 per maund at gate and Rs. 1-5-0 at rail centre.

The production in 1956-57 season was the highest at 20·2 lakh tons. It was due to larger supplies of cane and extended season. The average All-India recovery of sugar from cane suffered some setback, the figure for 1956-57 being 9·76 per cent., as against 9·83 per cent in 1955-56.

TEA INDUSTRY

TEA ranks after jute as the second largest item in India's export trade. It earns every year a foreign exchange of about Rs. 140 crores and a revenue of about Rs. 19 crores from export duty and Rs. 4 crores from excise. The State Governments also derive considerable revenue from the agricultural income-tax on tea grown within their jurisdiction as well as from the sales tax, carriage tax, octroi, etc. on the commodity.

The indigenous plant growing in wild conditions was first discovered in Assam in 1820 and 15 years later the East India Company started an experimental garden which was sold to the Assam Company in 1840. In less than 100 years India became the tea shop of the world.

There are about 6,840 registered gardens with a total area of nearly 800,000 acres under tea. Of these, over 582,119 acres are in Assam and West Bengal, while Madras, Mysore and Kerala account for nearly 174,462 acres, and the rest are in Bihar, U.P., Tripura, Punjab and Himachal Pradesh.

The industry as a whole gives employment to a labour force of almost 1·2 million.

There are over 700 joint stock companies engaged in the tea industry. The total paid-up capital in the industry as a whole is about Rs. 74 crores. The number of Indian companies is about 540 with a paid-up capital of about Rs. 25 crores.

The annual production of tea is about 665 million lbs. of which about 523 million lbs. are exported. India meets over 50 per cent of the world demand for tea.

With the cessation of bulk buying in April 1951 and the re-opening of London auctions, the tendency was for better types of teas to do well at the auctions.

By the end of 1951 the sellers' market was at an end and common teas, which were the worst to be affected, fetched only Rs. 1-3 a lb. at the end of March 1952 as compared with Rs. 1-14 a year before. Simultaneously production costs began to soar and in 1952 the extension of the Minimum Wages Act to the plantation industry prevented many gardens from covering their costs out of prices.

In May 1952 an official team inquired into the problems and recommended certain measures for temporary relief. These included deferred payment of excise duty, guaranteeing the banks of a portion of the loans to gardens, relaxation of provisions in the matter of advance payment of income-tax and supply of more wagons. The labour also agreed to forego certain concessions. Thus a substantial cut in production costs was effected by the end of 1952.

By this time tea prices had again begun to look up but to make sure of the recovery the industry decided to effect a voluntary cut of 8 per cent in production and pay more attention to quality. The crisis had forced the closure of over 100 estates; but as a result of the above measures, the industry managed to turn the corner.

The latter part of 1953 saw a dramatic change from the weak markets of the previous year and since then prices have boomed to record levels in the world markets. The whole of the benefit of this change of fortunes did not, however, accrue to tea plantations because apart from additional costs arising from the operation of the Plantations Act, the Government sought to take an increased share in the proceeds of the industry.

The total production in 1954 was 644 million lbs. and that for 1955 was 663 million lbs. The production in 1956 was 664 million lbs.

The estimate for the 1957 season is 726·56 million lbs.

Under the International Regulation Scheme the export quota for India was 470 million lbs. But in 1954 the Government permitted an export of only 464·9 million. lbs. The International Tea Agreement expired on March 31, 1955 and was not renewed. For the 1955-56 season the export permitted was 480 million lbs. which was about 69·3 per cent of the crop basis of estates.

The tea export quota fixed for 1956-57 was 453·3 million lbs., representing 63·4 per cent of the total estates' crop basis. For 1957-58 season the quota fixed is 460·96 mln. lbs. This is about 63·44 per cent of the crop basis for the year.

The rates of excise duty on tea are: —

	In Np per lb.
Loose tea	6·25
Package tea (converted from duty-paid loose tea)	18·75
Package tea	25·00

The export duty is regulated according to price, and may therefore vary from time to time. The duties as fixed are given below. The figure in brackets shows the price per lb.:

1956: January: As. 6 (Rs. 3-1-5); February: As. 6 (Rs. 2-14-1); March: As. 6 (Rs. 2-11-4); April: As. 6 (Rs. 2-13-4); May: As. 6 (Rs. 3-4-3); June: As. 6 (Rs. 3-5-0); July: As. 6 (Rs. 2-13-11); August: As. 6 (Rs. 2-8-5); September: As. 6 (Rs. 2-11-5); October: As. 6 (Rs. 3-3-9); November: As. 6 (Rs. 4-1-11); December: As. 8 (Rs. 4-3-0).

1957: January: As. 8 (Rs. 4-3-0); February: As. 6 (Rs. 3-15-0); March: As. 6 (Rs. 3-6-1); April: 37·5 nP (Rs. 2·64); May: 25 nP (Rs. 2·41); June: 25 nP (Rs. 2·47); July: 25 nP (Rs. 2·43); August: 38 nP (Rs. 2·55); September: 38 nP (Rs. 2·74); October: 38 nP (Rs. 3·48); November: 38 nP (Rs. 3·30); December: 38 nP (Rs. 3·35).

The following table shows the growth of the industry from 1927 to 1957 :—

Year	Area under tea in thousands of acres	Production in millions of lb.	Year	Area under tea in thousands of acres	Production in millions of lb.
1927	756	391	1942	843	573
1928	776	404	1943	842	555
1929	788	433	1944	841	509
1930	804	391	1945	841	529
1931	807	394	1946	842	592
1932	840	434	1947*	772	561
1933	841	384	1948	773	568
1934	841	399	1949	780	585
1935	841	394	1950	783	613
1936	842	395	1951	786	629
1937	840	430	1952	788	615
1938	841	452	1953	790	608
1939	840	466	1954	788	644
1940	840	474	1955	787	663
1941	842	503	1956	787	664
			1957	N A	727

* From now on figures are for India only.

Source International Tea Committee

The following table shows production by area :

(In million lb.)

Year.	Northern India					Northern India. (Total)	South India.	Total.
	Assam.	Darjeeling.	Doars and Tarai.	Cachar.	Other Places.			
1953	275	14	146½	41½	10½	487½	120½	608
1954	300½	15½	146½	43	10½	516	128	644
1955	322½	15½	142½	44½	10½	536	129	665
1956	324	16	146	42½	9½	538	127	665
Jan -Aug 1957	164	11	77	23	6	281	92	373

CALCUTTA MARKET

(Leaf and Brokens)

Season.	Export Auction.		Internal Sale.	
	Chests.	Average Price	Chests.	Average Price.
		Rs a. p		Rs. a. p.
1949-50 .	1,056,942	1 14 10	284,379	1 6 7
1950-51 .	1,579,094	2 0 9	239,486	1 7 5
1951-52 ..	2,102,920	1 11 7	112,899	1 1 8
1952-53 .	1,858,566	1 6 6	47,547	1 1 7
1953-54 .	1,635,429	1 15 10	101,775	1 12 5
1954-55 .	1,590,410	3 1 6	437,863	2 3 7
1955-56 ..	2,277 550	2 0 4	138,410	1 3 3
1956-57 ..	2,137,758	2 37 nP	94,568	1 57 nP

Source J Thomas & Co Ltd.

The following table shows tea exports by sea from the Indian Union to the chief importing countries:—

(In million lb.)

Country	1954-55	1955-56	Apr -Dec. 1956
United Kingdom .. .	330 02	280 87	268 90
U S A.	30 27	25 44	19·18
Canada	20 28	17 27	16 72
Australia	7 84	6 23	6 76
Iran	8 47	6 27	4 60
Egypt	9 25	14 68	17 59
U. S S. R.	—	—	—
Eire	23 24	19 72	10 45
Sudan	4 84	3 03	6 60
Netherlands	4 01	4 05	2 90
Turkey	2 05	5 36	2 87

Source Monthly accounts relating to the Foreign (Sea, Air & Land) Trade & Navigation of India

DISPOSAL OF TEA

(In million lb.)

	1952-53		1953-54		1954-55		1955-56		1956-57	
	North.	South.	North.	South.	North.	South.	North.	South.	North.	South.
Crop*	507·0	113·0	484·9	120·9	513·6	128 5	533·2	129·0	535·0	128·0
Export	355·0	68·2	389·4	76·6	373 7	76·0	323·3	72·5	429·0	94·0
Balance (Internal Consumption)	152 0	44·8	95·5	44·3	139 9	52·5	209·9	56·5	106·0	34·0
Internal Consumption ..	196·8		139·8		192 4		266·4		140 0	
Imports	....		....		....		....			

* Trade estimates

Source : J Thomas & Co Ltd

TEXTILE INDUSTRY

COTTON

The statistical position of cotton in the Indian Union is summed up in the following table :—

(In lakhs of bales)*

	1953-54	1954-55	1955-56	1956-57
Opening Stock	17·96	20·0	26·7	21·56
Production	44·70	54·0	46·0	49·70
Imports	6·90	6·2	5·0	6·07
Total Supply	69·56	80·2	77·7	77·33
Mill Consumption	46·00	47·7	46·0	52·55
Exports	1·50	3·1	5·0	3·01
Extra Factory Consumption ..	2·70	2·7	2·7	3·20
Total Distribution ..	50·20	53·5	53·7	58·76

According to the information furnished by the trade, the total cotton supply, available in the 1956-57 season was estimated at 77·33 lakh bales, of which 71·26 lakh bales were Indian cotton, including 24·26 lakh bales of carryover with both the trade and the mills on August 31, 1956. The total mill consumption was estimated at 52·55 lakh bales (46·75 lakh bales of indigenous cotton and 6 lakh bales of foreign varieties). Exports amounted to 5·80 lakh bales and the extra factory consumption 3·20 lakh bales, thereby allowing a carryover for the 1957-58 season at 18·57 lakh bales. The 1956-57 season therefore started with substantially bigger stocks.

The latest trade estimates of the production of cotton in 1957–58 is 52 lakh bales.

The sharp recession in cotton prices resulted in the relaxation of the cotton control in the field of movement and the Government had to reiterate in March 1952 its assurance about supporting the floor prices. The prices later rallied and, encouraged by the floor remaining untouched, the Government raised the floor for 1952-53 season by Rs. 50 with a view to providing a fresh stimulus to cotton growing.

In view of the satisfactory supply position, forward trading in cotton was permitted from December 1952 within the ring of the East India Cotton Association.

The supply position of cotton having improved, a number of control measures were further relaxed. Movement controls were removed and the three-tier system of licensing cotton dealers which prevailed in 1951-52 was replaced by a two-tier system. Forward trading in cotton was allowed to be continued during the 1955 season, subject to certain measures proposed by the Forward Markets Commission. At present, the only real control is of the floor and ceiling prices. On December 23, 1955 the Forward Markets Commission suspended forward trading in cotton on grounds that prices had shot up in speculative business.

However, the market was re-opened on June 18, 1956. The by-laws of the East India Cotton Association were suitably amended to ensure smooth functioning of the market. There were two hedge contracts, one with Jarilla 25/32" Fine as its basis and the other with Vijay 27/32" Fine as basis—as against the former single hedge contract with Jarilla 13/16" Fine as basis. Secondly, the delivery months for the contracts were advanced. Thirdly, the margin system was tightened up and a provision for special cleaning was introduced. Fourthly, the provisions regarding the reporting of information by members were made more comprehensive.

Besides, the Government of India announced on June 27, 1956, that the floor and ceiling prices of cotton for the 1956–57 season would remain unchanged from the 1955–56 season. The floor and ceiling prices for Jarilla Fine 25/32" are Rs. 495 and Rs. 820 respectively and for Vijay 27/32" Rs. 610 and Rs. 970 respectively.

In the sphere of trade the Government announced that the licensing for the import of raw cotton of stapling 1 1/16" and above from U.S. would be suspended. Any further imports would have to be made under the American Aid Programme. Later, it was decided that applications for licences for import from soft currency area would be entertained only for Karnak and Menouf cotton from Egypt stapling 1 1/16" and above. Subsequently, on August 2, the Government stopped the licensing of imports of raw cotton from the United States under the aid programme.

Import policy during the cotton season 1956-57 was influenced, to a large extent, by the availability of foreign exchange. The acute shortage of foreign exchange forced the authrorities to continue the restriction on cotton imports, especially from the sterling area.

Among the foreign cotton affected by this restriction, East African growths was the most important.

Of the total imports of 593,390 bales during the period 1st September 1956 to 17th August 1957, East Africans accounted for only 130,323 bales, as against 222,759 bales during the same period last season out of a total of 592,732 bales.

The position in regard to Egyptian cotton has, however, eased a little, thanks to the Indo-Egyptian cotton agreement which provided for import of 40,000 bales of Egyptian cotton on rupee account. Almost the entire quantity permissible under this agreement was absorbed by the end of the season.

American cotton was more easily available, thanks to the U.S. Aid Programme. Indian mills availed themselves of the facilities offered under the Indo-U.S. trade agreement and as a result the share of U.S. cotton in imports increased substantially. In fact, U.S. cotton which occupied only an insignificant position in imports last season, topped the list in the year under review. For instance, imports of U S. cotton during the period 1st September to 17th August, aggregated 342,497 bales, as compared with 14,783 bales during the same period last season.

The Government of India fixed the floor and ceiling prices of Indian cotton during the 1957-58 season at the same level as those for the 1956-57 season. The floor and ceiling prices for Jarilla with stapling 25/32" are Rs. 495 and Rs. 820 per candy and those for Vijay with stapling 25/32" Rs. 565 and Rs. 925 per candy.

Trading in the new crop contract commenced on 23rd June 1957, I.C.C. Jarilla (basis Fine Moglai 25/32") standing at Rs. 690.

For the 1957-58 season, according to the amendments effected to the By-laws of the E I.C.A. there is only one hedge contract, called the Indian Cotton Contract. The basis of the contract is Fine M. G. Moglai Jarilla 25/32" staple. Delivery months are March, May and August. Trading in the new crop hedge contract will be subject to the amendments made to the By-laws of the Association and will be within the floor and ceiling prices fixed by the Government for the 1957-58 season, i.e., Rs. 495 and Rs 820 for Fine Jarilla 25/32" staple, the same as in the previous season.

COTTON MILL INDUSTRY

The cotton textile industry, which is the largest single industry in the country, has made rapid strides during its existence of a century. India holds the third place among the countries of the world in its capacity for yarn and cloth based on mechanical equipment and stands second on the basis of cotton consumption.

In addition to providing means of livelihood for nearly 10 million handloom weavers, the mill industry provides direct employment to more than 798,000 workers.

The total number of mills in the country in Aug. 1957 was 499, the number of spindles installed 12·9 million, of looms 206,126, the number of persons employed 798,599 and the cotton consumed 2,602,800 candies.

The capital invested is estimated at Rs. 122 crores, and the annual value of the output amounts to Rs. 395 crores.

The record of the industry during the First Five-Year Plan is impressive. Not only has it achieved the target of cloth output set in the Plan but it has exceeded it. In 1956, the production of cloth amounted to 5,306 million yards as against the target of 4,700 million yards. The output of 1,671 million lb. of yarn in the year was higher than the target of 1,640 million lb. The production of handloom cloth was only 1,509 million yards as against 1,700 million yards in the Plan while that of power-loom cloth was 278 million yards. Altogether, the cloth production was 7,093 million yards compared with 4,618 million yards at the beginning of the First Plan.

Out of this output, 804 million yards were actually shipped as against 893 million yards shipped in 1955. Of this, mill piecegoods accounted for 747 million yards (836 million yards in 1955) and handloom cloth 57 million yards (57 million yards in 1955).

The various fiscal measures adopted by the Government and the constitution of an export promotion council are expected to assist the industry in stepping up exports. A scheme of voluntary inspection of cloth meant for export has also been instituted.

Export of yarn continued to be strictly regulated.

The Textile Enquiry Committee, also known as the Kanungo Committee, which was asked to make a comprehensive enquiry into the various sectors of the cotton textile industry, namely, the mills, the powerlooms and the handlooms, submitted its Report in September 1954 in which it made a number of recommendations towards their improvement.

The Committee opposed the expansion of the weaving side of the mill industry, but suggested the replacement of plain looms with automatic looms at the rate of 5,000 a year for the next 20 years.

It recommended that an export target of 1,000 million yards a year should be maintained.

It estimated that by 1960 the *per capita* cloth consumption in the country would increase to 18·5 yards and that with an estimated population of 400 million, the consumption would rise to about 7,400 million yards by that year.

* Trade Estimate.

The Committee was of the view that an extra production of 1,600 million yards would be required to meet the internal demand in 1960, which should be achieved through the improved type of handloom and powerloom industries.

It suggested a phased programme for the conversion of the 12 lakh active handlooms in the country into semi-automatic looms or power-looms to make the handloom technically more efficient. It stated that under the programme, three lakh handlooms should be converted into 2·13 lakh improved handlooms and powerlooms over a period of six years, and the conversion of the remaining looms should be carried out in two or three five-year periods, so that in 15 or 20 years' time the entire industry would have been converted into decentralised improved handloom or decentralised domestic powerloom industry.

On the question of reservations of the field of production, the Committee was of the opinion that the existing reservations in favour of handlooms or improved handlooms and domestic powerlooms must continue upto 1960 only.

SECOND FIVE-YEAR PLAN

The programme for the development of the cotton textile industry under the Second Five-Year Plan was announced by Mr. T. T. Krishnamachari, who was at the time Commerce and Industry Minister, Government of India, at New Delhi on June 18, 1956. By the end of 1960-61, the *per capita* consumption of cloth in the country is expected to reach 18·5 yards, in addition to the export target of 1,000 million yards a year. This would involve a production of 8,400 million yards. But the present production of all the three sectors is about 6,700 million yards a year. Therefore, the country would require an additional quantity of 1,700 million yards of cloth.

This quantity has been allocated thus: 700 million yards for handloom industry from mill yarn; 300 million yards for handloom industry from Ambar Charkha yarn; 200 million yards for powerlooms to be introduced in the handloom sector; 350 million yards for mill sector for export purposes, leaving an allotted balance of 150 million yards.

The quantity of 850 million yards for export and allotted to the mill sector is required to be produced through the installation of 18,000 automatic looms. It has also been decided to allow the installation of 35,000 power-looms spread over 1956-57 and 1957-58.

By June 1956, over 10,000 looms had been allotted. A further allocation of 6,000 looms was made in February 1957.

Certain conditions were laid for the allocation.

It was laid down that all the cloth produced on these looms would be earmarked for export and the allocation of looms was being made on a guarantee being given by the mills that in addition to 87½ per cent of their past exports all the cloth produced on these looms would be exported and that any cloth sold internally therefrom would be subject to penal excise duty as given below:

If the cloth diverted into the internal market from the export quota does not exceed five per cent, of the export quota, six naye paise per square yard.

If the cloth diverted into the internal market exceeds five per cent. of the export quota but does not exceed 10 per cent. thereof: On the quantity which does not exceed five per cent. of the export quota, six naye paise per square yard and, on the balance, nine naye paise per square yard.

If the cloth diverted into the internal market from the export quota exceeds 10 per cent. of the export quota: On the quantity which does not exceed five per cent. of the export quota, six naye paise per square yard; on the quantity which exceeds five per cent. of the export quota but does not exceed 10 per cent. thereof, nine naye paise per square yard; on the balance, 12 naye paise per square yard.

The following table gives details about the distribution of mills in India, as on 31st August 1957.

Where situated	Number of Mills	Number of Spindles installed	Number of Looms installed	Average No. of Hands employed	Approximate Quantity of Cotton consumed in cwts.
Bombay City and Island (*a*)	66	3,160,954	64,134	212,608	4,671,086
Ahmedabad (*b*)	71	2,056,174	41,580	130,658	2,489,662
Rest of Enlarged Bombay State (*c*)	75	1,704,864	33.621	117,352	2,358,629
Total: Bombay State	212	6,921,992	139.335	460,618	9,519,377
Rajasthan (*d*)	11	162,692	3,412	11,795	363,664
Punjab (*e*)	7	131,156	1,650	6,053	212,415
Delhi (*f*)	7	176,032	3,942	14,355	564,809
Uttar Pradesh (*g*)	29	830,212	13,998	52,933	1,347,556
Andhra Pradesh (*h*)	15	164,116	1.669	10,562	296,975
Madhya Pradesh	20	507,900	12,447	47,405	1,118,775
Bihar	3	38,468	747	854	12,957
Orissa	2	52,848	864	4,317	109,711
West Bengal (*i*)	40	580,468	10,862	46,115	805,910
Madras	118	2,647,784	8,481	101,159	2,878,393
Kerala	14	179,492	1,609	9,393	229,208
Mysore (*j*)	18	437,998	4,955	27,063	645,274
Pondicherry	3	75,464	2,155	5,977	114,576
Grand Total	*499	12,906,622	206,126	798,599	18,219,600

* This number does not include 34 mills which have either been registered and or are in the course of erection. (*a*) One mill not working. (*b*) One mill not working. (*c*) Seven mills not working. (*d*) One mill not working. (*e*) One mill not working. (*f*) One mill not working. (*g*) Five mills not working. (*h*) One mill not working. (*i*) One mill not working. (*j*) One mill not working.

The actual production of yarn and cloth is as follows:—

Year	Yarn in 000 lbs.	Cloth in 000 yards.				
		Coarse	Medium	Fine	Superfine	Total
1949	1,359,119	452,068	2,309,169	809,240	333,726	3,904,203
1950	1,174,220	421,819	1,781,436	1,200,453	261,383	3,665,091
1951	1,303,861	363,561	2,080,858	1,347,946	283,866	4,076,186
1952	1,450,000	504,000	2,709,000	1,194,000	195,000	4,602,000
1953	1,510,000	599,000	3,136,000	839,000	304,000	4,878,000
1954	1,565,000	989,110	3,565,000	461,280	350,100	5,011,000
1955	1,687,000	592,510	3,747,850	458,270	300,120	5,098,000
1956	1,671,204	719,000	3,796,156	444,033	347,295	5,306,584

In 1957 the production of cloth was 5,315 million yards, and of yarn 1,779 million pounds.

† Pre-reorganisation.

On the basis of the full rated capacity of the industry, about 50 lakh bales of cotton are required compared to the actual indigenous supply of 46 lakh bales (commercial crop) in 1955-56. During 1956 the cotton consumption by mills was 49·91 lakh bales of which Indian cotton accounted for 43·72 lakh bales and foreign cotton for 6·19 lakh bales.

The estimates of the other important raw materials are given below:—Card clothing—3,500 sets; Bobbins—425,000 gross; Shuttles—8,300 gross; Healds—800,000 sets; Reeds—400,000 pcs.; Pickers—37,500 gross; Mutton tallow—3,600 tons; Starch—36,000 tons; Coal tar dyes—5,900 tons; Hydro-sulphite of soda—2,000 tons; Zinc chloride—3,000 tons; Caustic soda—15,000 tons.

SMALL-SCALE INDUSTRY

It is estimated that there are 2,850,000 handlooms and 23,800 powerlooms in existence in the country. About 65 per cent of the powerlooms are located in Bombay State† though the handloom industry has witnessed the largest development in Madras State†.

The regional distribution of powerlooms and handlooms, together with their estimated requirements of yarn is given below :—

State†	No. of Powerlooms	Annual yarn Requirements (m. lb.)	No. of Handlooms	Annual yarn Requirements (m. lb.)
Bihar	147	0·72	196,218	47·10
Bombay	15,742	76·82	161,255	38·70
Madhya Pradesh	1,123	5·48	105,000	25·20
Madras	1,415	6·91	841,140	201·87
Orissa	10	0·05	129,686	31·12
Punjab	1,339	6·53	46,357	11·13
Uttar Pradesh	342	1·67	253,311	60·69
West Bengal	1,354	6·61	97,151	23·32
Hyderabad	167	0·81	149,000	35·76
Madhya Bharat	24	0·12	15,500	3·72
Mysore	1,303	6·36	35,000	8·40
Rajasthan	36	0·18	26,000	6·24
Saurashtra	269	1·40	20,000	4·80
Travancore-Cochin	10	0·04	80,157	19·23
Ajmer	10	0·05	2,016	0·48
Delhi	481	2·35	750	0·18
Other Areas	28	0·01	190,164	166·46
Total	23,800	116·11	2,851,685	684·40

† Pre-reorganization.

The actual production of handloom and powerloom cloth in the years 1950 to 1956 is given below :

Output (mln. yds.)

Year	Handloom	Powerloom
1950	805	148
1951	850	157
1952	1,109	204
1953	1,200	221
1954	1,318	243
1955	1,480	273
1956	1,509	278

According to the Government's textile policy referred to above, 200 million yards of the additional requirements have been allotted for production from powerlooms to be introduced in the handloom sector. A number of State Governments have already indicated their desire to instal these looms totalling about 35,000.

HANDLOOM CLOTH

The handloom industry is by far the biggest cottage industry in India and had been going through a difficult period during the last two years. Some time ago its main handicap was lack of sufficient yarn. Supply of free yarn has, however, been increasing steadily and the monthly average for 1954 is 85,015 bales as compared to 72,000 bales in 1953. On the basis of yarn supply, handloom production is estimated at 1,318 million yards in 1954. Exports of handloom cloth in 1954 amounted to about 56 million yards as compared to 62 million yards in 1953.

The years 1955 and 1956 maintained the upward trend in this sector. The output was 1,480 million yards in 1955 and 1,509 million yards in 1956. During 1956 India exported 59·8 million yards. In 1955 it was about 55·8 million yards.

Under the Second Five-Year Plan, out of the additional quantity of 1,700 million yards of cloth required to meet the total estimated demand for 8,400 million yards in 1960–61, as much as 1,000 million yards have been allocated to this sector. This is in addition to the present annual output of 1,500 million yards. Of this additional quota of 1,000 million yards, 700 million yards will be produced from mill yarn and 300 million yards from Ambar Charkha yarn.

The Government of India sanctioned a sum of Rs. 10·9 crores to State Governments for the development of the handloom industry from September 1953 up to March 31, 1956.

The State Governments have been asked to establish necessary machinery to collect statistics of handloom cloth production. Meanwhile such production is estimated on the basis of yarn deliveries to the States.

The number of persons engaged in khadi production is about 700,000; and annual sale is about Rs. 3 crores.

The following measures have been adopted to improve the export trade in handloom cloth :

1. Exports of handloom cloth and manufactures thereof are allowed under O.G.L. and no export duty is levied on such cloth; 2. Representative varieties of handloom cloth have been supplied to the Indian Commercial Representatives for being exhibited in show-rooms; 3. Participations in International Trade Fairs and Exhibitions are arranged for by the Government; 4. An Export Marketing scheme has been sanctioned by the Government and is being implemented by the Madras State Handloom Weavers' Co-operative Society.

AMBAR CHARKHA*

A significant development of the year 1955–56 was the emergence of the Ambar Charkha, an improved hand-operated spindle. In April 1956, the Government of India set up a special committee under the Chairmanship of Mr. S. S. Khera, Secretary, Union Ministry of Production, to investigate the economic and technological aspects of the Ambar Charkha. The Committee submitted its interim recommendations to the Government two months later and the final report was placed before the Lok Sabha on June 23, 1956. This was published in August 1956.

The Committee recommended the introduction of 75,000 Charkhas for 1956-57 and about 200,000 for 1957-58. The Government accepted the scheme for 1956-57. Also, 15 more training centres and 100 more production-cum-training centres were opened this year. About 50 workshops and five main and sub-production centres were also set up. The Union Government sanctioned over Rs. 3·27 crores for implementing the programme.

Khadi and Village Industries Commission : In September 1956, Parliament adopted a Bill for the establishment of a Commission for the development of Khadi and Village Industries. This body has powers to plan as well as implement schemes for the extension of khadi and village industries. At the same time, the All-India Khadi and Village Industries Board functions as a panel advisory body.

IMPORTS AND EXPORTS

The following table gives the sea-borne export trend of all cloth :—

Year	Twist and Yarn		Cloth	
	Million lb.	Rs. in crores	Million yd.	Rs. in crores
1952-53	17·9	4·4	615·75	61·46
1953-54	22·2	4·7	765·5	63·1
1954-55	1·2	0·3	819·0	63·15
1955-56	23·1	4·21	740·0	56·60
1956 (April to Dec.)	6·92	1·50	557·08	42·71

The year 1952 witnessed the emergence of a buyers' market in cotton textiles and the accumulation of unsold stocks was accompanied by a fall in prices. As a result, there was a progressive relaxation of control measures and restrictions. In October the prices of a number of varieties including dhoties, sarees and mulls were decontrolled and the policy was further extended to coatings, twills, etc. with effect from January 1, 1953, leaving about one-third of the mill production subject to price control. With effect from July 1, 1953 the cloth control was totally abolished.

The production control was used towards the end of 1952 for helping the handloom industry by reserving the production of certain varieties including sarees woven of dyed yarn, dhoties with borders of certain width, lungies, sarongs, etc.

In the post-war period, foreign exchange difficulties have resulted in shutting out imports of cotton textiles except (a) umbrella cloth and special fabrics; (b) yarn of 80s and above required for handloom purposes; and (c) yarn of 80s and 60s for manufacture of healds and reeds.

* See also under 'Cottage Industries'.

While India was an important importer of cotton goods for several years she has now become an important exporter In January 1953 the Government provided a stimulus to exports by reducing the export duty on coarse and medium cloth from 25 per cent *ad valorem* to 10 per cent. Later at the end of 1953 the 10 per cent duty on medium cloth was also abolished. In 1955, import duty on cotton textiles was reduced following the British Government's representation that Indian import duties were prohibitive.

The Karve Committee on Village and Small-Scale Industries (Report published in October 1955) estimates the country's aggregate cloth requirements at the end of the second Five-Year Plan (1960-61) at 8,450 million yards, including 1,000 million yards for export as against the 1955 output of 6,750 million yards The Committee wanted the entire additional demand of about 1,700 million yards to be met by expansion of handloom production The mill industry, however, was opposed to this view and suggested a vigorous policy of rehabilitation and modernisation of plant and equipment in mills in order to undertake additional production

DEVELOPMENT PROGRAMME

Cotton cloth (mill-made and handloom) available for consumption per head averaged 15 to 16 yards in pre-war years The consumption in 1951-52 was, however, estimated at 12 5 yards as against 9 yards in 1950-51, and has been fixed at not less than 13 yards for 1952-53 so as to be progressively increased to 15 yards by 1955-56

To enable the handloom industry to meet the consumer resistance, the Government constituted an All India Handloom Board in December 1952.

In regard to the mill industry, it was found that apart from cotton shortage, there were about 150 inefficient and uneconomic units. Another important problem related to diminishing productivity.

Excise Duties On August 31, 1956, the Government of India announced its decision to raise the excise duty on four varieties of mill cloth with effect from September 1, 1956 The rates of increase are one and a half annas per sq yard on superfine cloth (i e , the excise duty of 4 annas per sq. yd), one and a quarter anna per sq yd on fine cloth (i e , three annas per sq yd), one anna per sq yd on medium cloth (i e , two annas), six pies per sq. yd on coarse varieties other than dhoties and sarees (i e , one and a half annas per sq yd) These duties are estimated to bring in an additional revenue of Rs 17 5 crores during the seven months in 1956-57.

Export Promotion Council The Council opened its first office in Baghdad in February 1956 and then other offices in Singapore, Lagos Rangoon, Aden and Mombasa Besides, it has taken part in many exhibitions—Industrial Exhibitions in New Delhi, the Leipzig Fair, the Pakistan Trade Fair and the Milan Samples Fair It has undertaken the publication of a handbook known as *The Indian Textile Industry* The Council has also brought about an overseas edition of its fortnightly *Bulletin*

Indo Burma Textile Deal During 1955-56 India and Burma signed an agreement, under which India was to supply Burma cotton textiles worth Rs 1 9 crores against payment of American cotton which the U S had contracted to sell to Burma

The following table summarises the programme of development of the whole industry as approved by the Planning Commission for the Five-Year Plans :—

	Unit	1952-53	1955-56	1960-61
Rated Capacity of Mill industry				
Spindles	No.	11,175,283	12,051,209	13,621,209
Yarn	m lb.	1,704 2	1,840	2,080
Looms	No	195,849	202,901	220,901*
Cloth	m. yd.	4,778 7	4,950	5,444
Actual Output—				
Yarn	m lb.	1,510	1,630	1,650
Mill Cloth	m. yd.	4 600	5,094	5,444
Handloom Cloth	,,	1,300	1,753	3,000 to 3,500
Exports—				
Yarn	m lb	—	—	—
Cloth	m yd	1,000	873	1,000
Cotton Needed—	m bales	4 5	4·9	6·1

* Including 18 000 automatic looms

TOBACCO INDUSTRY

INDIA is one of the three major producers of tobacco in the world, the other two being U.S.A. and China. Tobacco is also an important item in India's foreign trade.

The area under tobacco in 1956-57 was 1,007,000 acres and the production in tons was 306,000.

The more important tobacco growing States in India are Andhra, Madras, Bombay, U.P., Mysore and Bihar.

The tobacco plants are mainly of two varieties —nicotiana rustica and nicotiana tabacum. The first has a higher nicotine content and is used in hookahs, for purposes of chewing and in making snuff. The second has a smaller nicotine content and is used in the manufacture of cigarettes, cigars and cheroots.

There are six main tobacco producing areas in India—the Guntur area in Andhra Pradesh, the Charotar area in Gujarat in Bombay State, the Nipani area in Mysore, the southern Madras area, north Bihar and Bengal area and Uttar Pradesh and Punjab area.

The Guntur area comprises the districts of Guntur, East and West Godavari, and the adjoining portions of Telangana. The variety grown is nicotiana tabacum.

The Charotar in Gujarat covers Anand, Borsad, Petlad and Nadiad talukas of the Kaira District. Here also the chief variety is nicotiana tabacum.

The Nipani area is made up chiefly of the District of Belgaum in Mysore State and certain areas in North and South Satara and Kolhapur districts in Bombay State. Here both the varieties are grown though nicotiana tabacum predominates.

In Madras State the chief tobacco growing districts are Madura and Coimbatore.

The north Bihar area covers the districts of Muzzafarpur, Purnea and Darbhanga, and in the north Bengal area the districts of Jalpaiguri, Malda, Berhampore and Dinajpur. Here both the varieties are grown.

Uttar Pradesh comprises the districts of Farukhabad, Etah and Sitapur and the Punjab area comprises the districts of Jullundur and Ferozepur. Both the varieties are grown in these areas.

The development of tobacco cultivation, marketing and research are looked after by the Indian Central Tobacco Committee with headquarters in Madras. The Committee has a tobacco research institute at Rajahmundry (Andhra Pradesh), cigar and cheroot tobacco research station at Vedasandur (via) Dindigul (Madras), hookah and chewing tobacco research station at Pusa (Bihar), wrapper and hookah tobacco research station at Dinhata (West Bengal) and a cigarette tobacco research sub-station at Guntur (Andhra Pradesh).

Another station for cigarette tobacco wa started in February 1957 at Hunsur in Mysor State where soil and climate are different from those of the Guntur area where production c flue cured Virginia cigarette tobacco is mainly concentrated.

About tobacco manufactures, there are ove 4,600 bidi manufacturers, about 300 chewin tobacco manufacturers, over 300 snuff manu facturers and about 16 important cigarette manu facturers.

Export of tobacco is allowed freely without an restrictions.

There are about 86 associations connected with the tobacco industry.

PRODUCTION OF TOBACCO (UNMANUFACTURED)

(Thousand Pounds).

State.	1954-55.	1955-56.	1956-57.*
Andhra ..	235,200	244,160	291,200
Madras ..	44,800	47,040	85,120
Bombay ..	114,240	136,640	143,360
Bihar ..	20,160	24,640	20,160
West Bengal	26,880	24,120	22,400
Other States	105,280	103,560	109,760
India .	546,560	580,160	672,000

*All-India Third Estimate of Tobacco, subjec to revision.

IMPORTS AND EXPORTS OF TOBACCO (RAW) (BY SEA AND AIR)

	1953-54		1954-55		1955-56	
	Quantity lb.	Value (Rs.)	Quantity lb	Value (Rs.)	Quantity lb.	Value (Rs.)
Imports..	2,282,489	61,85,754	3,084,914	1,00,68,184	3,717,263	1,28,55,986
Exports..	69,036,819	9,92,92,568	85,030,537	11,76,47,278	88,931,427	10,64,90,264

EXPORTS OF TOBACCO (RAW) BY COUNTRY (BY SEA AND AIR)

	1953-54		1954-55		1955-56	
	Quantity lb.	Value (Rs.)	Quantity lb.	Value (Rs.)	Quantity lb.	Value (Rs.)
U.K.	30,081,318	6,47,79,662	87,230,502	8,18,36,118	29,570,874	6,79,96,784
Russia	26	64	—	—	—	—
Japan	10,061,451	1,59,26,800	5,892,003	46,17,191	7,733,487	30,98,002

INTERNAL CONSUMPTION

The following table shows in lb the quantities of raw tobacco that was cleared for home consumption for various manufactures in India.

	1953-54.	1954-55.	1955-56.
Hookah	117,103,843	116,208,871	121,393,726
Bidi	116,369,238	122,033,468	152,306,611
Cigarette (Flue cured Virginia)	30,679,197	29,901,427	32,876,645
Cigar and Cheroot	38,082,478	43,269,566	46,073,752
Chewing	109,017,949	116,945,898	118,700,268
Snuff	8,740,360	9,679,144	9,679,262

PRODUCTION OF CIGARETTES, ETC.

The following table shows the production and consumption of cigarettes, etc. in India (excluding imported manufactured products).

(In Numbers)

	Production. (1953)	Consumption. (1953-54)	Production. (1954)	Consumption. (1954-55)	Production. (1955)	Consumption. (1955-56)
Bidis	N. A.	N. A.	N. A.	N. A.	N. A.	N. A.
Cigarettes	1,968 Crores	1,977·5 Crores	2,064 Crores	2,125·2 Crores	2,263 Crores	2,384·3 Crores
Cigars and Cheroots ..	N. A.	471,863,100	N. A.	438,070,900	N. A.	454,983,800

In 1956 the number of cigarettes produced in crores was 2,616.

N. A.—Not available. *Note :* Figures are subject to revision.

VEGETABLE OIL INDUSTRY

INDIA is one of the most important producers of oilseeds in the world and is consequently a large producer of vegetable oils as well as an exporter of oils and oilseeds.

The following figures show the average production of different varieties of oilseeds in recent years along with their share in world production :—

—	Average Indian Production (lakh tons)	As percentage of world Production
Groundnut	30·0	36
Castor seed	1·2	26
Linseed	4·0	15
Sesamum	5·0	26
Cotton seed ..	13·0	13

The following table gives the actual production —in thousand tons—of oilseeds during the seasons 1955-56 and 1956-57 :—

	1956-57	1955-56
Groundnut ..	4,086	3,862
Castor seed ..	129	124
Linseed	349	414
Sesamum ..	451	457
Rape and mustard	1,017	848
Total	6,032	5,705

In 1951, there were about 174 large-scale oil mills on the active list of the Development Wing of the Ministry of Commerce and Industry engaged in the production of edible oils with an annual rated capacity of about 580,000 tons of oil on a single shift basis. During 1951-56, no new large-scale units or substantial expansion of existing large-scale mills for the crushing of oilseeds (except cottonseed) came into existence. In March 1956, there were 2,097 oil mills registered under the Factories Act.† The State-wise* distribution of these oil mills was as follows: Assam 73; Bihar 92; Bombay 375; Madhya Pradesh 101; Madras & Andhra 540; Orissa 7; Punjab 39; Uttar Pradesh 125; West Bengal 66; Hyderabad 298; Madhya Bharat 101; Mysore 23; PEPSU 12; Rajasthan 29; Saurashtra 120; Travancore-Cochin 56; Other States 40. The total crushing capacity of the mills in the country is estimated at 56 lakh tons per annum in terms of oilseeds.

It is also estimated that there are about four lakh village *ghanis* in the country with an annual crushing capacity of about seven lakh tons of oilseeds. Thus the total crushing capacity is estimated at 63 lakh tons in terms of oilseeds. But the total output of oilseeds in recent years is estimated at 55 to 60 lakh tons. Therefore, a part of the available capacity is lying idle.

The capital invested in the organised industry is estimated at Rs. 24·4 crores and the number of workers at 43,580. The most important oilseeds consumed in large quantities for the production of oils are groundnut, linseed, rape and mustard, castor seed and sesamum seed. Small quantities of cottonseed and mohwa seed are also crushed.

The actual production of oil from the five major oilseeds has been estimated as follows:

(000 Tons).

	Groundnut	Castor	Sesamum	Rape and Mustard	Linseed	Total
1952-53 ..	628	36	140	247	103	1,154
1953-54 ..	847	37	165	246	103	1,398
1954-55 ..	938	39	184	291	114	1,566
1955-56* ..	878	39	143	242	123	1,440
1956-57* ..	928	41	179	294	104	1,513

* Estimates only.

IMPORTS AND EXPORTS

The following table shows the total imports and exports of oil and of some varieties since 1954-55 :—

(In gallons).

—	1954-55	1955-56	April-Dec. 1956
Imports (Total)	11,330,645	8,778,336	6,911,204
Coconut Oil	5,889,866	5,449,548	3,585,396
Linseed	136	2,528	1,223
Other Sorts	5,440,643	3,326,260	3,324,585
Exports (Total)	39,467,424	68,258,422	19,922,352
Groundnut Oil	24,834,930	30,188,499	191,418
Linseed Oil	2,399,557	18,573,331	7,259,010
Castor Oil	7,253,090	9,374,321	8,600,665

On the basis of the minimum *per capita* consumption of fats in this country the total consumption of fats of the entire population would work out at 7 million tons as against the present estimated consumption of 1·2 million tons.

In 1954-55, about 1·14 million tons of vegetable oils (including coconut oil) and about 255,000 tons of vanaspati were estimated to have been consumed for edible purposes in the country. This means a *per capita* consumption of 3·2 lb. (6·7 lb. of edible oils and 1·5 lb. of vanaspati). It is likely to go up during the Second Plan. Assuming the higher consumption at 3·3 lb. the total requirements of vegetable oils and vanaspati for 400 million people would be about 1·62 million tons by 1960-61.

The consumption of vegetable oils in industries has considerably risen since the last war. The development of soap, paints and varnish industries has stimulated the consumption of non-edible oils. Castor oil consumption as a lubricant has also registered considerable expansion. During the decade following the outbreak of the war, consumption of vegetable oils by the soap industry has doubled from 30,000 tons to 63,000 tons, and that of paints and varnish industry and lubricant has risen from 15,000 tons each to 30,000 tons and 25,000 tons respectively. By 1960-61, the total requirements of vegetable oils for all the industrial and miscellaneous purposes are estimated at 278,000 tons. Thus for internal consumption only, we may require 1·9 million tons.

According to the first Five-Year Plan, the production of oilseeds was expected to increase by 400,000 tons over the estimated production of 5,103,000 tons in 1950-51. Consequently, the supply of oil was expected to rise from about 1,113,000 tons in 1949-50 to about 1,272,000 tons by 1955-56. The total supply of vegetable oils of all varieties including about 110,000 tons of coconut oil was thus expected to be 1.38 million tons by 1955-56. But the production in 1954-55 is estimated at 1·76 million tons.

COTTONSEED

The Commission has recommended measures for assisting the cottonseed industry, introduction of solvent extraction process to secure higher overall recovery of oils and wider utilisation of neglected resources of oil-bearing materials such as neem, mohwa, karang and marotty which grow wild.

Since the Industries (Development and Regulation) Act, 1951, came into force, eight firms have been granted licences for setting up vegetable oil mills on the condition that they will crush cottonseed only. In addition, the Madhya Pradesh Government had, under the Second Plan, a proposal for installing a plant with a crushing capacity of 15,000 tons of cottonseed per annum. The total installed capacity of the 9 units is estimated at 98,200 tons per annum in terms of seed. Besides, the crushing of cottonseed is carried on along with other seeds by a large number of mills. As against the target of an additional 7,500 tons of cottonseed oil envisaged under the Plan, the output of cottonseed oil was estimated to be about 9,000 tons in 1955-56.

Special efforts are being made to develop the cotton seed oil industry on modern lines. There were eight units equipped with delinting and de-hulling machines in 1955. Six more units were licensed during 1956, thereby bringing the total capacity for cotton seed oil crushing to 277,100 tons of seed. Among the steps taken to increase the consumption of cotton seed oil by vanaspati factories is a reduction of excise duty. Export of cotton seed oil as well as decorticated cotton seed oil cake was licensed freely. The policy of not licensing new mills or expansion of existing oil mills has been continued. The production of oil in 1956, however, showed a slight increase.

In regard to solvent extraction of oilcakes, the Government had given licences by the end of March 1956, to install plants with a capacity of 340,000 tons of oilcakes, which together with the capacity established before the industry came under statutory control, made a total of 400,000 tons per year.

Production of oil by solvent extraction of oilcakes during 1956 aggregated 4,500 tons, as against 2,650 tons in 1955. The rise in output was due to the commencement of operations by three more units. Thirty-two licences had been issued up to the end of 1956 under the Industries Act for the establishment of solvent extraction plants.

The development programme for the vegetable oil industry in the Second Plan is indicated in the following table:

(Tons)

	1954-55	1960-61
Production of oil :		
1) Solvent extraction from oilcakes ..	7,000	64,000
2) Cottonseed Oil	9,000	30,000
Total (all sources)..	1,760,000	2,110,000
Utilisation of oil :		
For edible purposes	1,140,000	1,190,000
For Vanaspati manufacture ..	260,000	430,000
For other industrial purposes ..	230,000	280,000
Exports.. ..	140,000	210,000

* Pre-reorganisation States.

† The number is estimated at about 3,000 at the end of 1957.

On the basis of the production statistics of important vegetable oils including kardi, niger, cottonseed and coconut for 1954-55, the output of vegetable oils in the year is estimated to be about 17.6 lakh tons compared with 11·13 lakh tons in 1949-50 taken as the base year. This represents a considerable improvement in the availability of oils in comparison with the previous years and the target of 13·0 lakh tons envisaged in the first Plan has also been surpassed.

VANASPATI

The Vanaspati Industry though a minor branch of the Vegetable Oil Industry is one of the most highly organised and efficient industries. Its history is interesting. It started on a small scale in 1930.

In April 1951, there were 48 vanaspati factories in India with an annual rated capacity of about 333,000 tons. In March 1956, their number had increased to 51 with a rated capacity of about 412,100 tons. Out of these, one is the Government Hydrogenation Factory at Kozhikode having an installed capacity of 3,000 tons per annum. Besides, there are seven factories with an annual rated capacity of 33,000 tons It is the Government's policy not to permit any further expansion of the industry as the present capacity is adequate to meet all the requirements of 4 lakh tons. The aggregate installed capacity of the industry in 1956 was 412,100 tons per annum. At the end of 1955, the capacity was lower at 380,232 tons. The actual output of Vanaspati during 1956 amounted to 255,612 tons as against 260,784 tons in 1955.

In 1957 the production was estimated at 320,000 tons.

The consumption of vanaspati in India has increased at an average rate of about 20,000 tons per annum during the First Plan period. It is assumed that the consumption will rise at the rate of 25,000 tons per annum during the Second Plan. On this basis, the internal consumption may be estimated at about 380,000 tons in 1960-61.

In 1956-57 the internal consumption was estimated at 253,000 tons.

The following table summarises the progress of the industry :

(tons)

Year	Production	Consumption	Exports
1951–52 ..	180,000	177,000	3,060
1952–53 ..	199,000	196,000	2,800
1953–54 ..	199,000	198,000	900
1954–55 ..	225,000	216,000	9,370
1955–56 ..	270,000	255,000	15,000

In 1956-57 the exports amounted to 11,150 tons valued at Rs. 2 06 crores. The value of the exports in 1955-56 was Rs. 1·75 crores, in 1954-55 it was Rs. 1·48 crores.

There is no export duty on Vanaspati.

The State-wise† distribution of factories at the beginning of 1956 with annual capacity was as follows :—

State	In production	Under construction	Annual capacity (tons)
Bombay	10	..	114,600
Saurashtra ..	4	..	30,000
West Bengal ..	5	..	60,500
U. P.	5	..	54,000
Delhi	2	..	42,000
Punjab	2	..	10,500
Andhra	3	..	18,000
Madras	6	..	22,900
Mysore	4	..	10,800
Madhya Pradesh	2	..	21,200
Other States ..	5	..	27,500
Total ..	51	..	412,100*

* Estimated. † Pre-reorganization.

The gap between the installed capacity and actual production has continued to remain wide as will be seen from the following table :—

Year	Installed Capacity Tons	Production Tons
1950	319,728	171,686
1951	325,728	172,320
1952	389,228	190,812
1953	368,232	191,652
1954	368,232	225,000
1955	380,232	260,784
1956	412,100	255,612

The net capital invested in the industry is about Rs. 25 crores. Besides 10,000 workers directly employed, the industry provides indirect employment for nearly 60,000 workers.

Edible Oils constitute the chief raw material of the industry.

The table below summarises the programme of development in the Second Plan :

(Tons)

	1955–56	1960–61
Installed Capacity	445,000	445,000
Production ..	270,000	400,000
Internal Consumption	255,000	375,000 to 380,000
Exports	15,000	20,000 to 25,000

WOOLLEN INDUSTRY

THERE are three main groups of mills, those which operate both woollen and worsted systems, those with woollen or worsted systems only, and lastly, the Amritsar group of mills which purchase ready spun yarn, and from that stage occupy themselves in weaving, dyeing and finishing.

Among the first group, the Cawnpore Woollen Mills and the New Egerton Woollen Mills, Dhariwal, each with more than 15,000 spindles and operating both woollen and worsted systems, are the largest units in India at the present time.

In 1951 there were 44 factories including four put up since the war and the total capital employed was estimated at Rs. 7 crores. The industry gave employment to about 18,000 workers. The number of powerlooms and spindles installed were 2,039 and 116,800 respectively. But early in March 1956, the number of factories had been higher at 122 with 3,950 powerlooms and 157,178 spindles installed on the basis of a double shift.

The regional distribution of woollen mills and their capacity at the end of 1955-56 were as follows:

State*	No. of units	Capacity (Numbers)		
		Woollen Spindles	Worsted Spindles	Powerlooms
Bombay	12	12,226	47,936	605
Saurashtra	1	2,130	7,032	84
Mysore	3	10,478	..	221
Uttar Pradesh	4	12,358	9,672	368
Kashmir	1	1,542	1,500	18
West Bengal	5	1,380	5,094	76
Madhya Bharat	1	516	..	20
Punjab	94	20,402	25,182	2,558
Delhi	1	..	..	..
Total	122	61,032	96,146	3,950

* Pre-reorganization.

Woollen manufactures consist of blankets, rugs, shawls, lohis, coating, overcoating, tweed, flannel, serge, etc.; but the major portion is of coarser and heavier types of goods. The trend of production of woollen and worsted fabrics and yarns during 1954-55 and 1955-56 is detailed below (mill sector):

	1954-55	1955-56
A. *Woollen and worsted fabrics*	*(million yards)*	
1. Suitings ..	5·31	4·93
2. Blankets and Rugs ..	2·07	3·30
3. Melton and Shoddy ..	1·03	0·49
4. Lohis and Shawls	1·60	2·14
5. Uniform Cloth	1·21	0·88
6. Other Sorts	2·54	3·20
Total ..	13·76	14·94
B. *Yarn*	*(million lb.)*	
1. Woollen Yarn	9·10	10·56
2. Worsted Yarn	11·64	11·00
Total ..	20·74	21·56

The fall in production during the years 1951-52 and 1952-53 was mainly due to the difficulty of marketing the goods as a result of consumer resistance to high prices. Since then, however, the fall in the prices of raw wool and finished goods has been accompanied by the broadening of the demand as well as production. Against the target of 25 million lb. envisaged for 1955-56, the actual production was 14·94 million yards of woollen/worsted fabrics and 21·56 million lb. of yarn.

The position in respect of installed capacity and actual production during the years 1955 and 1956, as also in the first seven months of 1957, is indicated below:

	1955	1956	Jan.-July 1957
Yarn (million lbs.)			
Capacity	19·00	19·00	19·00
Production	20·70	25·44	14·85
Fabrics (million yds.)			
Capacity	24·00	24·00	24·00
Production	13·96	16·20	8·22

The consumption of woollen goods in India is low in comparison with other countries. The production of the mill sector was 13·76 million yards in 1954-55 and 14·94 million yards in 1955-56. Production in the cottage sector is about 4·5 million yards. Thus the indigenous output amounts to about 19 million yards. Imports during 1952-55 averaged 3·5 million yards. The total quantity available for consumption is thus about 23 million yards.

IMPORTS, EXPORTS

Imports of wool and woollen goods have remained at a fairly high level, the annual value being of the order of Rs. 11·12 crores in 1954-55, Rs. 11·86 crores in 1955-56 and Rs. 10·06 crores during the period April-December 1956. The import of wool tops accounted for nearly Rs. 7·16 crores in 1954-55, Rs. 7·46 crores, in 1955-56 and Rs. 7·01 crores during the nine months ended December 1956. The large imports of wool tops are indicative of an important gap in the structure of the industry, the combing capacity of which is considerably short of the demand for wool tops.

The exports of woollen manufactures declined from Rs. 6 crores in 1950-51 to Rs. 4·4 crores in 1953-54 and to Rs. 3·87 crores in 1954-55 and to Rs. 3·97 crores in 1955-56. During the nine months April to December 1956, the exports aggregated Rs. 3·30 crores. The export of woollen yarn, which was totally banned, has been permitted since March 1954 in view of the improved supply position, but not much progress has been made. Export of raw wool is placed at Rs. 8·61 crores in 1954-55 and Rs. 9·73 crores in 1955-56 as against Rs. 5·87 crores in 1953-54. Exports during April-December 1956 were valued at Rs. 7·27 crores.

The total capital investment in the industry amounted to Rs. 9·5 crores in 1953. The fixed capital investment on new units and expansions during the First Plan period was about Rs. 75 lakhs. The labour force was 17,000 in 1955-56.

A Development Council for the Woollen Industry was constituted by the Government of India in July 1955.

SECOND FIVE-YEAR PLAN

Under the Second Five Year Plan the output of woollen and worsted fabrics by the organised mill sector is expected to be stepped up from the present level of about 15 million yards to about 20 million yards by 1960-61. The yarn requirements of all the sectors will be 12 million lb. of woollen yarn and 15 million lb. of worsted yarn per annum.

But there is no combing plant in the country to produce wool tops. So it is proposed to establish during the Period a plant with a capacity of about 9 million lbs. involving a capital investment of Rs. 2·25 crores.

The development programme for the woollen textile industry, mill sector, in the Second Five Year Plan is indicated below:

	1955-56	1960-61
Spindleage and Loomage		
Woollen sector-spindles	61,032	62,768
Worsted sector- ,,	96,416	1,23,416
Powerlooms ..	3,950	4,051
Annual rated capacity on double shift		
Woollen Yarn (million lb.)	17	17·5
Worsted Yarn (million lb.)	21	28
Woollen and Worsted fabrics (million yd.)	48	50
Production		
Woollen tops (million lb.)		9
Woollen yarn (million lb.)	10·6	12
Worsted yarn (million lb.)	11·0	15
Woollen & Worsted fabrics (million yd.)	14·9	20

HOSIERY INDUSTRY

According to the Tariff Commission, there were in 1951, 875 units, excluding four mills having a hosiery section, of which as many as 843 were in the Punjab with a capital investment of approximately Rs. 3 crores. Only 56 units were, however, registered under the Factories Act and 45 used electric power.

The Ludhiana factories numbering about 805 work during the season, but have a rated capacity for consuming 10·425 million lbs. of yarn annually. The annual rated capacity of the four woollen mills having hosiery section is estimated at 1·313 million lbs. of yarn. The actual production of the industry has, however, been very much less than the rated capacity and has been estimated as under by the Tariff Commission in terms of weight of the finished products:—

Year.	Lakh lbs.
1949	37·33
1950	27·57
1951	20·22

It is estimated that about 4 million lb. of hosiery and knitting yarn are at present consumed by the Ludhiana hosiery units and about 0·5 million lb. by the hosiery units located in other States. Some of the organised mills also produce worsted hosiery goods, consuming about 0·5 million lb. of yarn. Thus the total quantity of yarn consumed by the hosiery industry is estimated at around 5 million lb.

MINES AND MINERALS

By courtesy of Mineral Economics Division, Indian Bureau of Mines, Government of India.

ALLOTMENT under the First Five-Year Plan (mineral development)....Rs. 1·06 crores.

Allotment under the Second Five-Year Plan: Rs. 73 crores.

The mineral wealth of India, as at present known, though by no means inexhaustible, comprises an adequate range of useful products necessary for industrial development.

The reserves are ample in respect of minerals essential for basic industries—coal and iron—but the country is deficient in a fairly long list of vital minerals like ores of copper, tin, lead, zinc, nickel, cobalt and in sulphur and petroleum.

Coal, iron ore, manganese ore, ilmenite, kyanite (and mica for which data are not available) are produced in quantities of real importance to industry and other sections of economy.

Of these mica, manganese ore, kyanite and ilmenite are wholly or largely exported.

The position with regard to aluminium ore, refractories, abrasives, limestone, etc., may be considered as fairly adequate while in respect of titanium and thorium ores and of mica, the country has considerable reserves.

An idea of India's present mineral production is given in the tables below:

MINERALS ADEQUATE FOR INDIA'S NEEDS

Mineral	Production in 000 tons	
	1955	1956
Bauxite	81	91
Coal	38,226	39,430
Ilmenite	251	336
Iron ore	4,678	4,858
Kyanite	12	20
Sillimanite	2	5
Magnesite	58	92
Manganese ore	1,583	1,687

MINERALS WITH FAIRLY ADEQUATE SUPPLIES

Mineral	Production in 000 tons	
	1955	1956
Barytes	8	6
China clay	117	173
Other clays	N.A.	N.A.
Fire clay..	87	115
Felspar	5	3
Chromite..	53	53
Gold (000 oz.)	211	209
Gypsum	690	850
Salt	2,887	3,174

MINERALS WITH DEFICIENT SUPPLY

Mineral	PRODUCTION	
	1955	1956
Copper ore (000 tons)..	353	386
Copper (,,)..	7·3	7·6
Graphite (,,)..	1·6	N.A.
Lead concentrate (,,)..	3·1	3·9
Lead pig (,,)..	2·2	2·5
Zinc (,,)..	4·9	6·9
Zinc concentrate		
Tin	....	....
Petroleum (m. gal.)	N.A.	....
Pyrite .. (000 tons)..	0·8	Nil
Sulphur	....	....
Mercury	....	....

MINERAL NEEDS OF INDUSTRIES

Mineral	Estimated annual consumption (1956)	Estimated requirements in 1960-61
Coal (m. tons)	35·10	60
Limestone (m. tons)	8·2	23·3
Gypsum (000 tons)	836	1·97
Iron ore (,,)	3,149	10,500
Manganese ore (,,)	100	500
Bauxite (,,)	92	175
Ilmenite (,,)	Negligible	3
Sulphur (,,)	84	210
Rock phosphate(,,)	55	400
Petroleum crude(m. tons)	N.A.	N.A.
Pyrites (,,)	..	Not estimated

As part of the national policy to ensure efficient working of known mineral deposits, the Mines and Minerals (Regulation and Development) Act was put into force on 25th October, 1949. By Section 5 of this Act the Central Government is empowered to make rules for regulating the grants of mining leases or for prohibiting grants of such leases in respect of any mineral or in any area.

By Section 6 of the same Act, the Central Government is empowered to make rules for conservation and development of minerals and by Section 7 to make rules for the modification or alteration of the terms and conditions of the leases granted prior to the commencement of this Act, so as to bring the terms and conditions of leases granted in accordance with the rules made under Sections 5 and 6.

Section 4 of the Act provides that any prospecting licence or mining lease granted after the commencement of that Act otherwise than in accordance with those rules, shall be void and shall have no effect.

The Central Government have so far issued three sets of rules: The Mineral Concession Rules, 1949; The Petroleum Concession Rules, 1949 and the Mineral Conservation and Development Rules, 1955.

Lately, the Ministry of Steel, Mines and Fuel have framed mining leases (Modification & Terms) Rules, 1956, under Section 7 of the Mines and Mineral (Regulation and Development) Act, 1948. These Rules were published in the *Gazette of India* in Part II, Sec. 3 of 15th September, 1956.

In Oct. 1957 the Government of India decided that private parties were in future to be granted mining leases for minerals listed in Schedule A of the Industrial Policy Resolution of 1956, which is normally reserved for the public sector.

The minerals included in the Schedule 'A' of the Resolution are coal and lignite, mineral oils, iron ore, manganese ore, chorme ore, gypsum, sulphur, gold, diamond, copper, lead, zinc, tin, molybdenum and wolfram.

The step was taken by the Central Government in view of the extreme urgency of increasing India's foreign exchange earnings.

The State Governments were requested to expedite action on pending applications especially in regard to iron ore and manganese.

In 1952 the Government of India enacted the Coal Mines (Conservation and Safety) Act, for the purpose of taking under its control the regulation of coal mines to the extent as provided in the Act. The Indian Mines Act, 1923 was re-enacted after making suitable amendments in 1952 and called Indian Mines Act, 1952.

Government of India has also framed rules for atomic energy minerals and other minerals used for the production or use of atomic energy or for research. This Act is known as The Atomic Energy Act, 1948.

GOVERNMENT ORGANISATIONS

The Geological Survey of India prepares geological base maps showing mineral deposits, and also tackles the engineering problems connected with the country's hydro-electric development as well as ground water supply. In order to cope with the growing need of the country the Department has been expanded quite rapidly in recent years.

The Indian Bureau of Mines gives advice to the Government on mineral concessions, takes up exploratory work for proving of minerals and ore deposits required for various industries; undertakes research and beneficiation of low grade ores; inspects mines to ensure improvement in mining practices and conservation of minerals; advises the Government regarding mineral policy; advises the Government and other interested parties regarding the uses, occurrences and marketing of different minerals; and collects and publishes mineral production statistics.

The Atomic Energy Department looks after the development and processing of such minerals and substances as may be used for the production or use of atomic energy or for research into matters connected with it. The Central Government have declared the following substances and all their respective components as prescribed substances for atomic use:—Uranium minerals, thorium minerals, beryllium minerals, vanadium minerals, lithium minerals, radium, zirconium, graphite, deuterium, plutonium, neptunium and minerals containing the above metals and accessories ingredients, such as uraniferous allanite, triplite, columbite and tantalite.

The Government of India have also set up a separate wing known as the Natural Oil and Gas Commission for exploration of oil and gas in the country. To start with, work at the Jwalamukhi area in the Kangra district of the Punjab, where there is drilling for oil, has been intensified.

The Coal Board under the Ministry of Steel, Mines and Fuel looks after the mining and development of collieries in the public sector and the distribution of coal to various consumers.

For the import and export of important minerals like iron ore, manganese, etc., there is now a State Trading Corporation under the Ministry of Commerce and Industry.

MINERAL TRADE

The total value of the mineral produced in 1956 was of the order of Rs. 125·5 crores as against Rs. 107·0 crores in 1955. This represents about 1 per cent of the total national product. The principal minerals like coal, manganese, mica and iron ore have shown a marked improvement in production.

The total export of ores of minerals from India in 1956 fetched foreign exchange worth Rs. 50 crores compared with Rs. 37 crores in the year before.

The exports of metals in 1956 were valued at Rs. 544 lakhs which was 73 lakhs higher than that for 1955.

The value of the imports of ores and minerals in 1956 was Rs. 962 lakhs as against Rs. 1,099 lakhs in the preceding year.

EMPLOYMENT

Six lakhs twenty-eight thousand and five hundred eighty-one (628,581) persons were employed in mines in 1956. Of these 60 per cent were in collieries.

The actual break-up of the persons employed in mines is given below :—

	1955	1956
Coal	347,980	352,429
Manganese Ore	89,907	109,948
Salt*	38,296	N.A.
Iron Ore	34,218	37,301
Mica	30,632	33,073
Gold	17,787	17,890
Others	31,925	77,040†
Total employment in mines	590,745	628,581

* Small units were re-aligned and formed into co-operatives.

† Includes salt mines.

This is exclusive of people employed in connected industries which figure is estimated around two lakhs.

COAL

The most important coal fields are Raniganj in West Bengal and Jharia and Bokaro in Bihar. The Raniganj and Jharia fields contribute about 82 per cent of the total output. The best coking coal comes from Giridih, Jharia and Raniganj. Other States in which coal is found are Madhya Pradesh, Orissa, Andhra, Madras, Kerala, Bombay, Assam, Rajasthan and Kashmir.

There are about 832 coal mines working in India.

Indian coal falls mainly into two classes namely, high grade steam and low grade steam.

The Metallurgical Coal Conservation Committee placed the reserves of coking coal at 329.6 million tons in respect of selected grade, 395.7 million tons of grade I quality and 49.1 million tons of grade II quality. With stowing, washing and blending the Committee thought that a reserve of 2,000 million tons of good quality coking coal could be obtained. The Geological Survey of India estimated the reserves of non-coking coal at 39,650.25 million tons of which Gondwana coal represented 37,113.25 million tons and balance tertiary coal.

The following table gives the details of output :—

Year	Production (million tons)
1947	30·07
1948	29·82
1949	31·44
1950	32·31
1951	34·43
1952	36·30
1953	35·98
1954	36·78
1955	38·23
1956	39·43

In 1949 the mineral concession rules were revised by the Government of India. The rules limit the period of the leases to twenty years with the option of one renewal for another twenty years. The rules also require the certificates of approval from the State Governments. The Government has also constituted a committee to consider all applications for opening mines.

Mechanisation in the industry is at an early stage of development. In the year 1955, on an average, there were 442 coal cutting machines in about 144 mines which produced 23·6 per cent of the total output. Also, there were 4 mechanical loaders and about 88 mechanical conveyors in operation.

In earlier times the coal used to be sold by the name of steams. An Indian Coal Grading Board was constituted in 1926. The maintenance of grades requires beneficiation but only about 70 collieries are fitted with screening plants and mechanical chutes, the rest are worked by hand labour.

The Coal Grading Board split up the area into Raniganj and Jharia coal fields and carried out extensive work in the field of grading.

In 1944 the necessity was felt to control production and distribution of coal and the Colliery Control Order introduced what is known as Coal Commissioner's grade.

Under the Coal Mines (Conservation and Safety) Act, 1952, the Central Government is empowered (1) to adopt measures for the safety of coal mines or for conserving coal, (2) to authorise the Coal Board to deal with problems of the industry, (3) to levy excise duty on coal and coke, and (4) to frame rules for regulating the industry.

The coal industry is thus subjected to a comprehensive control embracing production, allocation, prices and wages. Levies on exports also differ from country to country.

The Second Plan aims at the long awaited rationalization of the coal industry both in the matter of regional distribution of coal and the preservation of coking coal for metallurgical process.

The target for coal production by 1960-61 has been fixed at 60 million tons. At the same time the question of conserving metallurgical coal and washing of coal up to grade 4 has been given high priority during the Second Five Year Plan. There are already three washeries in the private sector at the Jamadoba, West Bokaro and Lodna collieries which supply washed coal to the Tata Iron and Steel Company and the Indian Iron and Steel Company. It has already been decided to set up a coal washing plant at Bokaro-Kargali with a capacity for 2·2 million tons of coal per annum. The washed coal from here will be supplied to the Rourkela and Bhilai steel plants. Another washery is proposed to be set up at Durgapur. A provision of Rs. 6 crores has been made in the Plan for setting up coal washeries.

Because of the paucity of coal deposits in south India, high priority has been given to the development of the multi-purpose 'South Arcot Lignite Project' at Neyveli. This plant will be producing 380,000 tons per annum of carbonised briquettes. (See under 'Government Industrial Undertakings'.)

Out of the 22 million tons of additional coal to be raised by 1960-61, 12 million tons will be raised in the public sector and 10 million tons in private sector.

To organise the production of coal in the public sector, Government have set up a wing under a Coal Production and Development Commissioner who will be the administrative head of the existing State collieries and the new collieries proposed to be established during the Plan period.

The control of coal, exercised under the colliery control order regarding distribution, price, etc., and the general control over private industry has been entrusted to a separate authority, the Coal Controller. The existing State collieries are administered by the National Coal Development Corporation (Private) Ltd. located in Ranchi. This will also look after the collieries which will be established during the period of the Plan.

The approximate quantity of coal consumed by some of the principal consumers in India during 1956 was in million tons: Railways 13·37; iron and steel plants 3·31; electric supply companies 3·17; cement factories 1·76; cotton mills 1·81; paper mills 0·59; jute mills 0·47; engineering works 0·35; domestic coke 1·65; brick burning works 2·25.

IRON ORE

On account of the high ash of Indian metallurgical coke, it is usual in estimating the Indian iron ore reserves to accept only ores with an iron content of 60 per cent and above. Ores below this iron content are used only in very small quantities in Indian blast furnaces.

India possesses about one-fourth of the total world reserves of iron ore and is the biggest single country possessing such a large quantity of iron ore deposits.

The region-wise reserves proved and indicated are shown below in million tons :

HÆMATITE ORES (in million tons)

Bihar and Orissa : Singhbhum 1,047 : Keonjhar 988 ; Bonai 648 ; Mayurbhanj 60 ; total 2,743.

Madhya Pradesh : Dhalli-Rajhara 114 ; Bailadila 610 ; Rowghat 740 ; Jabalpur 100 ; total 1,564.

Bombay : Ratnagiri 5 ; Goa 15 ; Chanda 22; total 42.

Andhra	41
Kashmir	5
Mysore	904
Rajasthan	5
Punjab	2
U. P.	10

Total (Hæmatite ores) .. 5,316 million tons.

The total possible reserves of hæmatite ores are 17,630 million tons.

MAGNETITE ORES (in million tons)

The reserves proved and indicated in million tons are :

Madras : Salem-Tiruchirapalli 305.

Mysore : 215.

Bihar and Orissa : 5.

Himachal Pradesh : 60.

Andhra : 20.

Total (Magnetite ores) : 605 million tons.

The total possible reserves of magnetite ores are 1,610 million tons.

LIMONITIC AND SPATHIC ORES (in million tons)

The reserves proved and indicated of limonitic and spathic ores are :

Bengal : 500 million tons ; and the possible reserves 2,000 million tons.

The grand total of all ores proved and indicated is 6,421 million tons and the possible reserves 21,240 million tons.

Large deposits of high grade ores are limited to a few areas of which the following fields require special mention :—

(*i*) ***Singhbhum and Orissa :*** In what is known as the Singhbhum Iron Belt, consisting of the Singhbhum District, in which the Tata Iron & Steel Company's Steel Works are situated, and the neighbouring areas, there exist some of the richest iron ore deposits in the world. The iron content of the ore considered usable varies from 60 per cent to 65 per cent.

The proposed Durgapur steel plant will meet its requirement from the iron ores occurring in the neighbouring regions. The Bonai ore range which is the extension of the main iron ore range will feed the Rourkela steel plant. The Indian Bureau of Mines has worked in this area for proving iron ore deposits for the Rourkela steel plant.

(*ii*) ***Mysore :*** There are big deposits of hæmatite and quartz—magnetite ore in Mysore but the latter are of low-grade and would require concentration before using them. The ores used in the Bhadravati Iron Works are from the Babebudan Hills and can be compared to Singhbhum ores containing about 60 per cent iron.

Limonite deposits are also known to exist but they have not been properly explored owing to transport difficulties.

(iii) *Madras:* Very large deposits, mainly magnetite, occur in Salem. They have been estimated at 305 million tons. They will, however, require concentration before use, and there may be considerable losses in the process.

(iv) *Madhya Pradesh:* Large deposits of hæmatite are found in the Bastar, Drug and Jabalpur districts of this State. Dhalli-Rajhara, Rowghat and Bailadila ranges in the Drug and Bastar districts are the major deposits in Madhya Pradesh. These three ranges are the main sources of iron ore for the Bhilai steel plant.

The exploratory work for blocking the iron ore deposits at Jharandalli in Rajhara Pahar, from where the Bhilai steel plant will draw its supplies was done by the Indian Bureau of Mines. In addition to iron ore, the Indian Bureau of Mines has also done operations in respect of limestone at Bhanpuri, dolomite at Bhanpuri, dolomite at Batapara and manganese ore at Balaghat area, in Madhya Pradesh for the requirements of the Bhilai steel plant.

(v) *Other Areas:* In Andhra the Bailadila range is reported to have hæmanite deposits which are inaccessible and far away from coal fields.

The only source of high-phosphorus ore is in Bengal. It is poor in iron content being 35 per cent to 45 per cent and the more easily available ore in this locality has been exploited.

The deposits in the Ceded Districts in Andhra are estimated to be not less than 300 million tons.

The contribution of Mysore to iron ore production ranges between 40,000 and 60,000 tons, and the rest comes practically from Bihar and Orissa.

The following is the trend of production :—

Year	000 Tons
1951	3,657
1952	3,926
1953	3,784
1954	4,308
1955	4,678
1956	4,858

There has been a growing export trade in iron ore as indicated below :—

Year	Tons
1949-50..	4,300
1950-51..	84,513
1951-52..	280,036
1952-53..	811,025
1953-54..	1,261,977
1954-55..	1,008,878
1955-56..	1,362,776

The present yearly production of iron ore is 4·86 million tons and the target for the Second Five-Year Plan is 12·5 million tons. Of these, 10·3 million tons are expected to be consumed in the country, and 2·2 million tons would be available for export.

MANGANESE ORE

India is rich in manganese ore. Extensive deposits occur in Madhya Pradesh, Orissa, Andhra, Bombay, Mysore, Bihar, and Rajasthan. It is estimated that the deposits in the main belt of Nagpur and Bhandara in Bombay State and Balaghat in Madhya Pradesh alone contain reserves of the order of 100 million tons upto a depth of 800 ft., of which 55 million tons are of shipping grade ore having 45 per cent manganese and above. Twelve million tons of ore are estimated to be available from deposits in the other States. A major part of the output is exported at present.

The following is the trend of output and exports (000 tons).

Year	Production	Exports
1951	1,292	907
1952	1,462	1,409
1953	1,902	1,654
1954	1,413	1,042
1955	1,583	1,232
1956	1,687	1,366

To conserve good quality ore, export has been controlled since 1948. At present the export of high grade manganese ore is allowed to the extent of one million tons including 12,000 tons of battery grade. There is no quota restriction on the export of low grade. To conserve high grade ore Government is encouraging the setting up beneficiation plant to improve low grade coal and promote export. A heavy media separation plant for beneficiating low grade ore has been set up by the C.P.M.O. Co. at Balaghat. Similar plants are being put up by other industrialists. The Government is also encouraging the setting up of new units for the manufacture of ferro-manganese for which a production target of 160,000 tons during the Second Five-Year Plan has been proposed.

The export price for manganese ore which had touched Rs. 175 per ton during the Korean boom and remained almost steady around Rs. 155 in 1952 steadily declined to Rs. 110-7-0 by October 1953, then there was a recovery to Rs. 143 in October, 1954. It went up to Rs. 180 per ton in the latter half of 1955. Exports which had declined, also showed a tendency to pick up towards the end of 1954 as a sequel to the removal of the export duty.

The position improved in 1956. The price was quoted at Rs. 220 to Rs. 230 per ton during the months of July, August and September.

The Government imposed an export duty on grade basis again with effect from 1st September, 1956.

The export duty was as follows :—(i) 30% Mn. or below : Free from duty ; (ii) Over 30% Mn. and not exceeding 40% Mn. : Rs. 10 per ton ; (iii) Over 40% Mn. not exceeding 44% Mn. : Rs. 20 ; (iv) Over 44% Mn. : Rs. 30.

In February 1958 Government abolished the export duty on certain types of ore and reduced the duty on others.

During 1956 the manganese ore produced, amounted to 1·69 million tons of which 1·39 million tons were exported.

By the end of the Second Five-Year Plan period the production and export figures are expected to reach 2 million tons and 1·5 million tons respectively.

MICA

Mica has been treated as a strategic mineral and India accounts for a big slice of the world trade in it.

The principal mica deposits are concentrated in Bihar, Rajasthan and Andhra.

In Bihar the mica belt is 60 to 80 miles long and about 12 to 16 miles wide and produces "ruby" mica which is in great demand all over the world.

At present Rajasthan is responsible for about 25 per cent of the Indian production. Most of the production from Rajasthan is sent to Bihar to be split and marketed.

The mica belt in the Nellore district in Andhra is about 40 miles long and 5 to 10 miles wide. The greater portion of the Andhra output is of "green" variety.

Statistics of mica production are not reliable and export figures are always higher than production figures. The quantity and value of mica exported from India are given below :—

Year	Quantity in 000 cwts.	Value in lakhs of Rs.
1948-49 ..	340·2	593·7
1949-50 ..	297·7	684·5
1950-51 ..	383·4	958·5
1951-52 ..	407·7	1320·9
1952-53 ..	284·1	901·1
1953-54 ..	254·6	799·6
1954-55 ..	373	672
1955-56 ..	519	837

CHROMITE

Chromite is an important strategic mineral of which India has moderate supplies.

The chief deposits are in the Singhbhum district of Bihar, the Mysore and Hassan districts of the Mysore State, the Ratnagiri and Sawantwadi areas of Bombay State, the Krishna district of Andhra, the Salem district of Madras and the Keonjhar district of Orissa.

No reliable estimates of reserves are available but the following figures in tons may be given :—Reserves in tons : Mysore (135,000) ; Bombay (67,000) ; Orissa (200,000) ; Salem (200,000).

The following table gives details regarding production and export of chromite ore :—

000 tons

Year	Output	Exports
1951	17	9
1952	35	9
1953	65	15
1954	45	23
1955	89	48
1956	53	42

Export of chromite which was unrestricted till 1948 was brought under control and a ceiling of 10,000 tons was prescribed. In September 1955 the restriction on exports was removed.

MAGNESITE

Large deposits of magnesite used in the manufacture of magnesium salts, metallic magnesium and refractory bricks are known to occur in Salem (Madras), Hassan, Coorg and Mysore (Mysore), Almora (U.P.), Idar (Bombay), Dungarpur (Rajasthan) and Singhbhum (Bihar).

Of these, the chief producing centres are Salem, Hassan and Mysore.

The deposits in Madras and Mysore States are known to contain 100 million tons upto a depth of 100 ft. Large deposits of magnesite have been discovered near Almora in U.P.

About a half of the output is used in the manufacture of refractory bricks for steel works and a considerable quantity is exported.

The output and export of magnesite from Madras and Mysore from 1950 to 1955 are given below :—

Year	Output (Tons)	Exports (Cwts.)
1950	52,859	16,465
1951	117,460	49,085
1952	89,041	31,277
1953	92,748	42,533
1954	70,507	25,362
1955	57,509	21,879

The total all-India production and export of magnesite in 1956 was : production, 91,711 tons and export, 691,000 cwts.

GYPSUM

Gypsum deposits are known to exist in several parts of India. The better known gypsum bearing regions are in Rajasthan (Jodhpur, Bikaner and Jaisalmer) and in Madras (Tiruchirapalli district).

The total reserves are estimated at 95 million tons, of which more than half is located in Rajasthan.

Smaller deposits also occur in Tehri-Garhwal, Himachal Pradesh and parts of western India ; but these have not been explored.

The annual production from Indian deposits from 1950 is given below :—

Year	Output (Tons)
1950..	206,366
1951..	203,602
1952..	411,000
1953..	586,000
1954..	610,000
1955..	690,000
1956..	850,000

The entire output is consumed in the country for the manufacture of fertilisers, cement and plaster of Paris. The cement industry consumes 3 to 4 lbs. of gypsum for one ton of cement produced. The annual requirements of the Sindri fertiliser factory is about 600,000 tons of gypsum.

The Planning Commission has estimated that by the end of 1960-61 the country will require 1·97 million tons of gypsum. The figure is based on the capacity envisaged for industries which use this mineral. There is a proposal to set up two additional plants similar to Sindri during the Second Five-Year Plan. One of them is to be located near Bhakra-Nangal.

SULPHUR

Native sulphur in deposits of large size is unknown in India though some occurrences have come to light in the hill ranges in the north of India, and small deposits of native sulphur produced by bacterial action on sulphates derived from sea-water have been found in the coastal tract of Masulipatnam and in the Barren Island.

There are occurrences in Puga and Kashmir but they are situated in a difficult terrain.

As there is no production of sulphur in India, the country's requirements are met from imports, for which the recent figures are given below :—

Year	Quantity (cwts.)
1952-53	1,478,818
1953-54	878,287
1954-55	1,519,485
1955-56	1,695,411
1956-57	1,999,142

The mineral pyrites is another source of sulphur. It is found widely scattered in Amjor (Bihar), Taradevi (Simla), Lashtial (Kashmir), Ingaldhal, Chitaldrug (Mysore), Polur (Madras).

Substantial quantities of pyrites are associated with the gold deposits of Wynad in the Nilgiris District of Madras.

Copper pyrites deposits are also a source of sulphur. Some of the Indian coal *e.g.* Assam coal and Rewa coal are high in sulphur. It has been estimated that one ton of sulphur can be extracted from the wasting of every 100 tons of coal.

The industrial development of the country largely depends on sulphuric acid. Its production went up from 107,000 tons in 1951 to 166,000 tons in 1956. A target of 470,000 tons, representing a 300 per cent increase over the present output, has been set for the Second Plan.

COPPER

India has only a small supply of copper. The country produces on an average 7,600 tons of fine refined copper per year, which is mostly utilised in the manufacture of brass for utensils and coins. The country's entire requirement of electrolytic copper is imported.

The production of refined copper in 1956 was 7,628 tons and in 1957 it was 7,848.

The production of the ore in 1956 was 386,196 tons, and in 1957 it was 403,929.

The more recent figures of import of the copper metal are given below :—

Year	Quantity (000 cwts.)	Value in Rs. crores
1953-54 ..	..	..
1954-55 ..	540	8·7
1955-56 ..	362	8·7
1956-57 ..	701	16·1

The only area for copper ore in India is being worked by the Indian Copper Corporation at Ghatsila, Bihar, whose smelting plant is six miles away from the place.

There are other areas in the country where the ore might be worked. The more important of these are the Singhbhum copper belt of Bihar, Sikkim, Jalpaiguri and Darjeeling district (W. Bengal), Khetri, Daribo (Rajasthan), Tehri Garhwal (U.P.) and Gani (Indore). Exploration in Rajasthan, Sikkim, U.P. and Andhra continues.

SALT

The country has been not only self-sufficient in salt since 1951 but has now (1957) an exportable surplus of over 100 lakh maunds. As late as 1947 or 1948 the country had had to import about 120 lakh maunds each year to make up for the deficit.

The First Five-Year Plan envisaged a production of 837 lakh maunds (3·1 million tons) in 1955-56. This target was surpassed in 1953 when 861 lakh maunds (3·16 million tons) of salt were produced.

The production in 1956 was 889 lakh maunds (3·26 million tons).

The Second Plan target is 1,000 lakh maunds (3·7 million tons) in 1960-61.

The salt-producing areas are :

The coastal regions of Bombay, Kerala, Madras, Andhra, Orissa and West Bengal for salt from sea-brine ;

Rajasthan from lake brine as well as subterranean brine ;

Kharaghoda, Kuda, Jasdan, Dahigam, Bajana in the Little Rann of Kutch all in Bombay for manufacture from subterranean brine ;

Mandi, for rock salt, in Himachal Pradesh.

The total fixed capital in the salt industry is estimated at Rs. 8·45 crores. In 1950-51 the total investment was about Rs. 5·8 crores, of which Rs. 0·9 crore were invested in the public sector. In 1954-55 the total investment was Rs. 8·3 crores, of which Rs. 1·1 crores were invested in the public sector.

The statistics of production of salt are given below (in lakh maunds) :

1946	479	1952	769
1947	516	1953	861
1948	635	1954	739
1949	556	1955	811
1950	713	1956	889
1951	744	1960-61 (target)	1,000

The capacity for production is unlimited. Actual production is limited by market conditions.

With the increase in production the exports have also increased. The statistics are as follows (in lakh maunds) :

1949	2
1956	73 72

During the period Dec. 1956 to Sept. 1957, 90,000 metric tons of salt were exported to Indonesia under a Trade Agreement between the Government of Indonesia and the State Trading Corporation of India.

The total number of labourers employed per day in the salt industry in 1956 was 41,554 out of which 3,281 were employed in the public sector.

Machinery is hardly in use except in some factories in Kutch and Saurashtra where a few processes are mechanized.

There are both licensed and unlicensed manufacturers. The latter are engaged in work on areas of 10 lakh acres and less. The number of licensed manufacturers is 4,298.

Salt is subject to the levy of a cess under the Salt Cess Act of 1953. To encourage the small-scale part of this industry Government exempted it from the payment of cess with effect from 15th May 1955. The small-scale manufacture was defined as manufacture by persons whose holdings did not exceed 10 acres. Later with effect from 23rd April 1956 all manufacturers with holdings of 10 acres to 100 acres were asked to pay a cess at the rate of only one anna a maund, while those with larger holdings continued to pay cess at the rate of two annas a maund.

There are one Central Board and five regional Boards—in Bombay, West Bengal and Orissa, Andhra, Madras, Rajasthan—to advise the Government on the proper utilisation of the proceeds of the salt cess.

To induce smaller manufacturers to join together to form co-operative societies a number of concessions are made.

As mentioned above there were no imports during 1956. The Indo-Pakistan Trade Agreement concluded in July 1955 to import 10 lakh maunds of rock salt into India was extended upto 31st Jan. 1957. There was however no import under this Agreement.

The standard of edible salt has been raised from 94 per cent to 95 per cent sodium chloride content with effect from 1st January, 1957.

The Salt Control Board has decided to impose control on unlicensed salt manufacture.

Ten test laboratories in the Madras region, one in the R.S.S. Division and two in the Bombay region have been opened.

Under the Second Five-Year Plan developments are proposed along the following lines: establishment of laboratories, development of works and improvement of brine and of water supply, purchase of plant and machinery, medical and educational facilities and other amenities for the staff.

An expenditure of Rs. two crores is to be incurred both in the public and private sectors.

A scheme for sinking shafts into Mandi mines has been approved. This is expected to increase the production from 1·5 lakh maunds to 4 lakh maunds.

The Salt Commissioner prepares every year a programme of distribution to every State based on per capita consumption. The supply from the source to the consuming areas is regulated under a zonal scheme.

The Salt Department is now under the Ministry of Commerce and Industry. The head of the Department is designated Salt Commissioner ; the headquarters are in New Delhi. He is assisted by four Regional Officers, one each at Sambhar, Bombay, Madras and Calcutta.

A Committee has been set up by the Government of India to enquire into the working of the salt industry and recommend measures for its development.

RARE METALS

The recent technological advances for meeting the rigorous demands of modern times have focussed the attention of the various countries on the possibilities of using new metals or modifying known metals. Some of the rare metals which were scientific curiosities till recently are now being produced on a commercial scale in Western countries. It is known that the soils of India contain ores from which some of these rare metals can be recovered.

The Government of India and the Kerala Government have jointly floated a joint-stock company, the Indian Rare Earths Ltd., to process the monazite sands in the State. The Company now extracts a mixture of oxides of rare earths containing cerium lanthanum, praseodymium, neodynium and ten other metals of the rare earth group.

Cerium is now being extensively used in glass manufacture, cores of cinema electrodes, catalyst in chemical manufacture, as abrasive in optical glass fabrication and in some structures of steel.

The use of thorium salts in the manufacture of incandescent gas mantles is well known. It is also used in glass manufacture, benzene synthesis, metallurgy and cloth impregnation. Intensive search has located deposits of pitch blend containing a high percentage of uranium oxides in Rajasthan. A belt of uranium minerals over 150 miles long has been found in Bihar and there are sporadic occurrences in Madras as well.

Vanadium is of great value to the manufacture of certain types of steel. Appreciable reserves bearing titaniferous iron ores containing about 3 per cent oxides of vanadium have been discovered in Bihar. Tungsten ore accepted as of strategic importance is found in parts of West Bengal and Rajasthan. Chromite ores occur mostly in Chitaldrug (Mysore) and Singhbhum (Bihar). The minerals containing columbium

and tantalum used to prevent weld decay and corrosion respectively have been traced in small quantities in the mica producing areas like Nellore, Monghyr, Gaya, Mysore and Kerala.

Beryllium used in metallic springs and in manufacturing X-ray tubes is produced from the ore known by that name. It is found in Rajasthan, Bihar and Nellore in Andhra. Gallium and germanium are found in coal. More recently a rich source in the mineral sphalerite was reported from Nepal. The National Metallurgical Laboratory at Jamshedpur is examining the economics of Mysore and Singhbhum chromites and of low-grade chrome ores from Talur (Mysore) and has evolved a new electrolytic technique for separating beryllia from beryl. The National Chemical Laboratory of Poona has developed quick methods for estimating vanadium, beryllium, uranium and germanium.

Lithium is an important light metal of strategic significance. In India lithium minerals were first noticed as early as in 1874, and are commonly found as constituents of granite pegmatites. The sources are Pihara (Bihar), Jodhpur, Bastar (Madhya Pradesh) and Ooregam (Mysore). Kashmir is reported to have crystalline white blocks in a valley north of the famous sapphire mines. Nevertheless no systematic survey of the resources has yet been undertaken.

What is believed to be probably the world's biggest deposits of radioactive minerals was located "somewhere in North East India" by the Indian Atomic Energy Department early in 1957.

Investigations carried out showed that the deposit had over 3·3 million tons of ore containing 300,000 tons of thorium of concentration of about 10 per cent. and 10,000 tons of uranium of concentration of 0·3 to 0·4 per cent.

The deposits also contain about 80 million tons of ilmenite. It is reported that further investigation might lead to doubling the present estimates.

The deposit is, therefore, considered more important than the famous beach deposits of Kerala, hitherto regarded as one of the world's richest deposits.

India's total reserves of uranium are reckoned at 30,000 tons and of thorium at 500,000 tons.

QUANTITY AND VALUE OF MINERAL PRODUCTION IN INDIA

(Value in '000 Rupees).

Minerals	Unit	1955		1956	
		Quantity	Value	Quantity	Value
Apatite (including phosphatic Nodules) ..	Tons	5,562	83	8,785	1,32
Asbestos	Tons	1,397	6,58	1,230	4,11
Barytes	Tons	7,623	1,34	6,315	1,07
Bauxite	Tons	81,172	6,01	91,225	8,18
Bentonite	Tons	595	22	4,000	40
Calcite	Tons	2,600	14	5,202	48
Chalk	Tons	N.A.	N.A.	9,295	1,27
China clay (including white clay)	'000 Tons	117	22,07	173	27,51
Chromite	Tons	89,349	27,31	52,686	17,52
Coal	Million tons	38·23	56,03,31	39·43	63,53,52
Copper Ore	'000 Tons	353	2,57,59	386	2,89,81
Corundum	Tons	240	63	352	1,98
Diamond	Carats	1,787	4,05(*d*)	1,499	3,27(*d*)
Emerald	'000 Carats	192	6,37(*d*)	474	2,40(*d*)
Feldspar	Tons	5,230	57	3,263	26
Fire clay	'000 Tons	87	6.94	115	9,83
Fuller's Earth	Tons	7,838	6.27	5,457	1,96
Garnet	Tons	148	7	178	9
Gold(*c*)	'000 Ozs.	211	5,30,14	209	5,76,73
Graphite	Tons	1,600	N.A.	N.A.	N.A.
Gypsum	'000 Tons	690	44,81	850	50,56
Ilmenite	'000 Tons	251	1.31,90	336	1,78,12
Iron Ore	'000 Tons	4,678	3,23,15	4,858	3,95,03
Kyanite	Tons	11,741	16.71	20,135	47,14
Lead (Concentrate)	Tons	3,063	7.64	3,909	9,76
Magnesite	Tons	57,509	12.56	91,711	18,46
Manganese Ore(*a*)	'000 Tons	1,584	18,32,60	1,687	25,47,58
Mica(*b*)	'000 Cwts.	436	8,04.71	426	8,74,56
Ochre	Tons	16,220	2,72	12,612	2,70
Pyrites	Tons	800	4	—	—
Quartz and Silica	Tons	13,557	1,37	22,957	2,49
Rutile	Tons	149	1,02	541	4,36
Salt	'000 Tons	2,887	6,31,36	3,174	6,95,20
Saltpetre	Tons	N.A.	N.A.	N.A.	N.A.
Sillimanite	Tons	2,423	1.23	4,637	2,34
Silver(*c*)	'000 Ozs.	154	5,73	105	4,38
Steatite	Tons	42,390	15,08	46,855	23,47
Tin Ore	Cwts.	6	1	—	—
Vermiculite	Tons	123	4	927	28
Wolfram	Cwts.	12	6	30	9
Zinc (Concentrates)	Tons	4,865	16,50	6,880	23,16
Building materials	—	N.A.	3,62,86*	N.A.	3,68,17*
Total Value			106,95,54		125,49,32

* Value of building materials in 1955 consists of the value of Clay, Limestone and Dolomite, Slate, Gravel, Laterite, Stone and Sandstone. The production of limestone in 1955 was 7·37 million tons and in 1956 it was 8·20 million tons.

a. Estimated on the basis of export value per ton.

b. Value of exports.

c. Value of metals given in the absence of the value of the ore.

d. Estimated.

QUANTITY AND VALUE OF ORE AND MINERALS EXPORTED FROM INDIA

Minerals	Unit	1955		1956	
		Quantity	Value in Rs. (000)	Quantity	Value in Rs. (000)
Aluminium Ore	Tons	8,776	6,13	4,405	3,33
Asbestos (Raw)	Cwts.	10,921	3,30	2,316	3,02
Barytes	Tons	2,573	2,91	6,702	7,27
Chromite	Tons	48,274	49,81	41,865	43,67
Chalk and Lime	Cwts.	4,950	47	10,283	1,05
Coal	Tons	1,495,804	4,34,09	1,804,206	5,13,98
Coke	Tons	18,237	8,81	23,420	13,51
Graphite	Cwts.	27	3	—	—
Ilmenite	Tons	246,196	1,50,46	283,201	1,88,21
Iron Ore	Tons	1,287,104	5,61,64	1,692,626	8,80,64
Kyanite	Tons	26,948	65,02	26,564	76,85
Manganese Ore	Tons	1,232,456	14,36,05	1,386,209	21,80,07
Ferruginous Minerals	Tons	52,955	25,17	52,458	32,29
Mica	Cwts.	435,791	8,05,71	425,679	8,74,56
Magnesite (Calcined)	Cwts.	492,745	39,11	690,920	59,21
Sillimanite	Tons	3,745	11,96	5,251	15,89
Salt	Tons	202,824	33,33	257,525	37,35
Saltpetre	Cwts.	2,228	1,17	3,003	2,30
Steatite	Tons	7,869	14,34	7,672	13,76
Stone and Marble	Tons	1,547	8,83	1,646	8,57
Precious Stones and Pearls (Unset)	—	N.A.	37,58	N.A.	37,93
Ores and Minerals Unenumerated	Tons	2,669	2,86	2,619	2,55
Total			36,98,78		49,96,01

Coal exported in 1956 : 1·727 mln. tons.

N.A.—Not available.

THE RETAINED IMPORTS OF ORES, MINERALS AND METALS DURING 1956.

Ores, Minerals and Metals	Unit	Retained Imports
Aluminium (Metal)	Cwts.	280,208
Aluminium Ore (Bauxite)	,,	—
Apatite	Tons	45,874
Asbestos	Cwts.	307,826
Pyrites	Tons	—
Brass, Bronze, etc.	Cwts.	77,207
China clay	,,	143,278
Corundum	Tons	—
Chromite	,,	—
Coal	,,	405
Copper Metal	Cwts.	625,506
Ferro Alloys	Tons	771
Diamond	Carats	N.A.
Felspar	Tons	—
Fire clay	,,	—
Fullers' Earth	,,	—
Gold	Ozs.	6,468
Graphite	Cwts.	16,546
Gypsum	Tons	N.A.
Ilmenite	,,	—
Iron Ore	,,	584
Iron	,,	48,549
Kyanite	,,	—
Pig Lead	Cwts.	326,360
Magnesite	Tons	—
Manganese Ore	,,	—
Mica	Cwts.	127
Ochre (including oxide of iron)	Tons	—
Saltpetre	,,	—
Rutile	,,	—
Salt	,,	—
Silver	Ozs.	10,573
Sillimanite	Tons	—
Steatite	,,	—
Sulphur	,,	83,877
Sulphate of Ammonia	'000 tons	N.A.
Vermiculite	Tons	—
Wolfram	,,	—
Zinc or Spelter	Cwts.	755,948
Asphalt	Tons	128,403

COMMUNITY DEVELOPMENT PROJECTS

IT was proposed that during the First Plan period 1951-56 the Community Development Projects should cover one-fourth of the country's villages.

This meant the initiation of work on 1,200 Community Development Blocks, covering 1,20,000 villages with a population of about 80 millions.

In the Second Five-Year Plan, the entire country was to be covered with about 5,000 Blocks, of which 40 per cent would be marked for intensive development* About 3,49,000 workers would be required.

The whole programme was estimated to cost Rs. 263 crores. The Second Plan allotment is Rs. 200 crores.

The Community Development Programme was inaugurated in 1952 October in different parts of the country. The programme has progressively expanded from year to year.

At the end of 1957 the projects covered about 276,000 villages with a rural population of 152 millions.

Of this coverage, about 41 per cent was under the intensive development phase and the rest under the National Extension Service.*

The programme embraces all aspects of development in the socio-economic life of the rural community and has been designed so as to :—(*i*) Provide a clear target of physical accomplishments against which the work of the Government agency could be measured in precise form ; (*ii*) bring the Government agency closer to the people thereby bridging the gap between the people and the Government ; (*iii*) bring the people's representatives nearer to the people so as to provide the necessary leadership ; (*iv*) develop representative institutions of the people from the ground upwards ; (*v*) bring about a coalition between the people's representatives and the people's servants manning the Government agency for a concerted effort for the building of a new India.

Each Block comprises 100 villages, covering about 160 sq. miles, a cultivated area of about 50,000 acres and a population of about 66,000.

It is estimated that there would be about four Blocks in each district in a State out of which one or more might be selected for intensive development.

Generally speaking, a project is to be completed in three years, the period being broken into five stages: conception, three months; initiation, six months; operation, 18 months; consolidation, 6 months; and finalization, 3 months.

The period of operation of the first 55 Community Projects and 53 Community Development Blocks which were started on 2nd October, 1952 and 1953, respectively, ended on 30th September 1956.

The execution of the uncompleted works in these Projects/Blocks on that date was however allowed to be continued upto 31st March, 1957 within the available savings. In certain cases, however, where the work was not likely to be completed by 31st March, 1957 and the quantum of unused funds was of some magnitude, the period of operation was further extended for periods ranging from three months to one year.

The following table shows the total number of post-intensive blocks, Community Development Blocks and N.E.S. Blocks at the end of 1957 :

Series.	No. of blocks allotted.	No. of villages covered.	Population covered (in millions).
1	2	3	4
Post Intensive Blocks.			
1952-53	202	27,388	16·9
1953-54	56	8,682	4·4
Community Development Blocks. (By conversion from N.E.S. Blocks)			
1955-56	152	21,438	12·4
1956-57	250	35,752	18·3
1957-58	99	13,965	5·6
National Extension Service Blocks.			
1954-55	50	6,765	3·8
1955-56	246	34,896	17·4
1956-57	495	66,870	33·4
1957-58	570	57,000	37·6
Total	*2,120	2,72,756	149·8

* Of these 1,054 were taken up during the First Plan period.

For the development of backward areas inhabited by Scheduled Castes and Tribes, 43 special multipurpose projects financed jointly by the Ministries of Home Affairs and Community Development have been started in the various States.

The total schematic expenditure per project is Rs. 27 lakhs for a period of 5 years (Rs. 15 lakhs to be provided by the Ministry of Home Affairs and Rs. 12 lakhs by the Ministry of Community Development). These blocks will be treated as intensive development blocks from their inception.

In order to assist in keeping up the tempo of work in the Projects Blocks which have reverted to the post-intensive phase an expenditure of Rs. 30,000 per annum per block has been allowed for a period of three years for programmes relating to Local Works and Social Education.

As mentioned above, it has been decided that during the Second Five Year Plan the whole country should be covered with National Extension Service Blocks and not less than 40 per cent of the N.E.S. Blocks should be converted into Community Development Blocks for the purpose of intensive development.

This means starting of about 3,800 additional N.E.S. Blocks of which at least 1,120 are to be converted into C.D. Blocks during the Second Plan period.

A provision of Rs. 200 crores for Community Development and N.E.S. has been made in the Second Plan.

In view of the limited provision in the Second Plan, the estimated ceiling expenditure on a C.D. & N.E.S. Block has been reduced from Rs. 15 lakhs to Rs. 12 lakhs and from Rs. 4·5 lakhs to Rs. 4 lakhs, respectively.

The rate of achievement in respect of the development programme in the Community Development and National Extension Service areas is higher than in the rest of the country.

The comparison of achievements relates to development in respect of agriculture, education, health, communications, etc.

Expressed as a percentage of the achievements in the rest of the country, the position is as follows :—

1. Agriculture :—consumption of nitrogenous and phosphatic fertilisers 259 per cent, waste-land reclaimed 207 per cent and minor irrigation works 122 per cent.

2. Co-operation :—agricultural credit societies 660 per cent ; membership of agricultural co-operative societies 405 per cent.

3. Education :—primary schools in rural areas 146 per cent ; junior basic schools in rural areas 470 per cent ; cadets who participated in A.C.C. and N.C.C. camps 285 per cent.

4. Rural Health :—hospitals and dispensaries 394 per cent ; maternity and child welfare centres 271 per cent.

5. Roads 759 per cent.

6. Statutory panchayats 211 per cent.

A significant contribution of the programme during the past few years is that it has reinforced the trend for the co-ordination of the development and welfare activities among the various departments of the Government both at the Centre and in the States.

Village institutions have played an important part in enlisting the participation of the people in the execution of development programme. Thus, considerable use is being made of local bodies like the panchayats, co-operative societies, and union boards for the execution of development programmes.

In some areas success has been achieved by entrusting development activities to *ad hoc*, non-statutory and non-elective bodies, such as, the Gram Vikas Mandals in parts of Madhya Pradesh and Bombay, the Gram Mangal Samities in Orissa, the Gram Seva Sanghams in parts of Madras and the Palli Unnayan Samities in West Bengal.

Students and N.C.C. Cadets have also played an important part in development activities in many places.

There is also close co-operation now between the Gramdan and Community Development movements. Only the Community Development staff does not take part in securing gramdan from the people.

It is now agreed that all works of village improvement within the jurisdiction of panchayats such as paving of streets, construction of culverts, new wells, roads etc. should be entrusted to panchayats. They should be authorised to plan and execute works upto a limit of Rs. 2,000 for a period of three years provided an equal amount in cash, kind or labour is contributed by the people.

* The new plans have changed the perspective somewhat. The distinction between intensive development and N.E.S. will be abolished. And complete coverage will be achieved only in 1963. See below.

COST OF DEVELOPMENT—SUMMARY

	(Rs. in crores)
1. Total expenditure committed on the programme taken up in the First Five Year Plan (excluding short-term credit) ..	96·5
2. Estimated actual expenditure during First Five Year Plan	55·0
3. Spill-over from the First Plan to the Second Plan	41·5
4. Total expenditure committed on the programme to be taken up in the Second Five Year Plan	268·5
5. Expenditure falling during the Third Five Year Plan ..	104·6
6. Expenditure during Second Five Year Plan	163·9
7. Expenditure during the Second Plan including spill-over from the First to the Second Plan	205·4
8. Provision for Training Schemes directly administered by Community Projects Administration	2·5
9. Provision for Local Works and Social Education at Rs. 25,000 and Rs. 5,000 respectively per annum for all Blocks which will have completed operation as Community Development Blocks during the Second Five Year Plan	5·1
10. Provision for certain special schemes like model villages, sample surveys, pilot projects, research, publications, etc. ..	5·0
11. Total expenditure during the Second Five Year Plan period	218·0
12. Less 7½ per cent probable shortfall in expenditure and/or efficiency cut	16·4
13. Net provision required to be made in the Second Five Year Plan	201·6
or ..	200 (rounded)

COST OF BLOCKS

	(Rs. in lakhs)
Cost of a N.E.S. Development Block for three years	4·00
Share of Centre	2·95
Share of State	1·05
Short-term loans	3·00
Cost of a C. Development Block for three years	12·00
Share of Centre	9·36
Share of State	2·64

Some details about the major items about cost given above are as follows:—

N.E.S. Block

Block Headquarters:	
(*a*) Personnel	1·00
(*b*) Transport equipment, furniture, etc.	0·10
(*c*) Project Office, Seeds store, Information centre, etc. ..	0·25
Animal Husbandry and Agricultural Extension:	
Irrigation, Reclamation	0·75
Health and Rural Sanitation ..	0·40
Education	0·40
Social Education	0·20
Communications	0·30
Rural Arts, Crafts and Industries	..
Housing for Project staff and Rural Housing	0·60
Total	4·00

C.D. Block

	(Rs. in lakhs)
Block Headquarters:	
(*a*) Personnel	2·00
(*b*) Transport	0·45
(*c*) Office equipment, furniture, etc.	0·15
(*d*) Project Office, Seeds store, Information centre, etc. ..	0·25
Total	2·85
Animal Husbandry and Agricultural Extension Demonstration equipment	0·10
Irrigation, Reclamation (including soil conservation, contour bunding, etc.)	4·00
Health and Rural Sanitation:	
(1) (*a*) Dispensary—recurring expenditure	0·20
(*b*) Dispensary building ..	0·10
(*c*) Dispensary equipment ..	0·10
(2) Drinking water supply ..	0·50
(3) Drainage and Sanitation ..	0·25
Education	0·70
Social Education (including audio-visual aids and women, youth and children's programmes)	0·70
Communications	1·00
Rural Arts, Crafts and Industries ..	0·50
Housing for Project staff and Rural Housing	1·00
Grand Total	12·00

PHYSICAL ACHIEVEMENT

People's contribution in the various community project and National Extension Service blocks in the country till September 1956 amounted to Rs. 32·96 crores, according to a Government review of the progress of the community project and N.E.S. schemes from October 1952 to September 1956. The contribution was offered in cash, kind and labour.

The total Government expenditure on these schemes during the period was Rs. 56·30 crores—about Rs. 49 crores for community project blocks and Rs. 7 crores for N.E.S. schemes.

The people's contribution came to nearly 60 per cent of the Government expenditure.

In the case of N.E.S. blocks particularly, the people's contribution valued at over Rs. 7 crores exceeded the Government's expenditure by Rs. 3 lakhs.

The value of the people's contribution in the community project areas was about Rs. 26 crores.

Of the total Government expenditure on various schemes approximately Rs 425 lakhs were spent on animal husbandry and agricultural extension. Irrigation and land reclamation accounted for Rs. 924 lakhs and Rs. 93 lakhs respectively. Nearly Rs. 510 lakhs were utilised for health and rural sanitation and Rs. 868 lakhs for education.

Among other items of expenditure were social education Rs. 213 lakhs, communications Rs. 623 lakhs, and rural arts, crafts and industry Rs. 183 lakhs. About Rs. 68 lakhs were spent on housing.

A total of 16·67 lakh acres of land was reclaimed and 28·5 lakh acres brought under irrigation. The area of land brought under fruits and vegetables was 2·16 lakh acres and 5·57 lakh acres respectively. The number of key village centres started was 3,838.

Under the community development scheme, 981 primary health centres were started up to the end of September 1956. The number of maternity and child welfare centres set up was 947.

In the sphere of education, 20,000 new schools were started and 7,794 ordinary type of schools were converted into the basic type.

Besides, 53,000 adult education centres and 1·55 lakh community centres were started and 12·84 lakh adults were made literate. Over one lakh organisations such as youth clubs, farmers' unions and mahila samities, were developed.

Construction of over 7,000 miles of pucca and 42,000 miles of kacha roads indicates the progress made in the field of communications. An additional 30,000 miles of existing kacha roads were renovated. Sixty-five thousand new houses and 6,154 model houses were built during the period.

Under the rural arts and crafts scheme of the community development programme, 2,040 demonstration-cum-training centres were started and 75,000 persons received refresher and basic training.

The number of new co-operative societies started during this period was 41,000 bringing the total number of new members enrolled to 23·3 lakhs.

In the sphere of local self-government, 28,000 panchayats and other statutory bodies and 46,000 non-statutory bodies like village councils, vikash mandals, etc. were started during the period under review. These organisations of the people have been taking an increasingly larger share in planning and implementation of the schemes with the technical aid of experts provided by the Government.

On 30th Sept. 1956 there were 876 Block Development Officers. The shortage here was 18. The number of Village Level Workers was 10,043, the shortage here being 238.

These last figures are exclusive of those for Bombay and Mysore.

EXPENDITURE

Government expenditure and people's contribution in the community projects/blocks and N.E.S. blocks upto Sept. 30, 1955 are given in the table below:

	Government expenditure		People's contribution	
	(Rs. crores)	% of 'pro rata' targets	Value in Rs. crores	Value per 1,000 persons (Rs.)
Community Projects/Blocks				
1. 1952-53 Series (Oct. '52 to Sept. '55)	19·92	81	7·78	4,680
2. 1953-54 Series (Oct. '53 to Sept. '55)	3·39	64	1·54	3,468
3. 1955-56 Series (converted C.D. Blocks)	2·66	38	2·53	2,470
N. E. S. Blocks				
4. 1953-54 Series (Oct. '53 to Sept. '54)	2·69	64	3·60	3,501
5. 1954-55 Series (Oct. '54 to Sept. '55)	2·15	63	2·71	1,684
6. 1955-56 Series (Apr. '55 to Sept. '55)	0·22	27	0·54	640
Total	31·03	72	18·70	2,828

Note: Expenditure includes cost of imported equipment, received upto 31st March, 1955. People's contribution includes cash, kind and labour.

The total Government expenditure upto Sept. 1955 including the cost of imported equipment amounted to Rs. 19·92 crores. This is about 81 per cent of the target expenditure for the period.

Government expenditure as percentage of target expenditure for the period on different items was as follows: State and project headquarters 122; Agriculture and Animal Husbandry 82; Irrigation 65; Reclamation 51; Health and Sanitation 65; Education 76; Social education 92; Communications 64; Arts and Crafts 46; All fields 81.

Expenditure on sets of projects was as follows:

Community Development Blocks 1953-54: Rs. 3·39 crores (64 per cent of target); Community Development Blocks 1955-56 (converted from N.E.S.): Rs. 2·66 crores (38 per cent); N.E.S. Blocks 1953-54: Rs. 2·69 crores (64 per cent); N.E.S. Blocks 1954-55: Rs. 2·15 crores (63 per cent); N.E.S. Blocks 1955-56: Rs. 0·22 crores (27 per cent).

The money available from the U.S. Government—the Indo-American Technical Co-operation Fund—for the import of equipment for the community development projects is $12,771,860. In 1955-56 equipment worth 1·6 million dollars was imported. Besides this, equipment worth Rs. 6 lakhs was procured from indigenous manufacturers.

ADMINISTRATION

The administrative structure is somewhat like this:

At the very top in Delhi is the Ministry of Community Development with a Minister in charge, who is a member of the Government of India.

Matters of basic policy go before a Central Committee consisting of members of the Planning Commission and the Ministers of Food and Agriculture and Community Development with the Prime Minister as Chairman.

In each of the States there is a State Development Committee consisting of the Chief Minister and Ministers in charge of the development departments, for laying down general principles.

There is a Development Commissioner who acts as secretary of the Committee. He is the leader of a team consisting of the heads of the development departments or secretaries to Government in those departments. In some States the Chief Secretary himself may be the Development Commissioner. In others States it may be someone else with the rank of an Additional Chief Secretary. In any case his rank is never below that of a Secretary to Government.

At the District level there is a District Development or Planning Committee. This Committee will consist among others of the district heads of the development departments and Chairman and Vice-Chairman of the District Board.

The Collector of the District will be the Chairman of this Committee, and the District Development Officer (also called Extension or Planning Officer) will be the secretary.

At the sub-divisional level the Revenue Divisional Officer may act as the Extension or Development Officer or there may be an assistant to him who will be entrusted with the work of an Extension Officer.

There are information centres at Block headquarters. By the end of 1961 all Blocks will have information centres.

The core of the whole organization is the multi-purpose village worker (Gram Sevak) who is directly in touch with the villager and instructs, guides and educates him in his day to day work, and the technical supervisor whose duty is to supervise the work of a group of the village level workers.

A multi-purpose village worker will generally be in charge of about 10 villages.

As he is greatly over-worked, it is now proposed to give him an auxiliary.

The agency in the village through which much of the administration will be carried on such as distribution of improved seeds will be the village panchayat.

In each project area there will be seven Social Education Organizers, three of whom will generally be women. Of these seven one will be the Chief Education Organizer.

The trained technical personnel includes besides, of course, the village level workers and social education organizers the following categories: agricultural extension supervisors, veterinary doctors, co-operative and panchayat officers, school teachers, doctors, compounders, sanitary inspectors, lady health visitors, midwives, engineers, overseers, mechanics.

The existing staff of the various development departments (Agriculture, Animal Husbandry, Medical, Education, Public Works, Cottage Industries, Co-operation) has been absorbed in the N.E.S. organization. Thus it can be assumed that about one-fourth of the staff required already exists in the area.

The majority of the Development Blocks are under the C.P.A., the rest of the Blocks and all the training centres for the staff are under the Ministry of Food and Agriculture.

Staff requirements for covering the whole country with National Extension and Community Projects are given below:

Staff Requirements

CATEGORY.	N. E. S. Blocks 2,404.		N. E. S. Blocks 2,524 for intensive development.		TOTAL.
	Per Block.	Total.	Per Block.	Total.	
ADMINISTRATION:					
Block Development Officer ..	1	2,404	1	2,524	4,928
Ministerial staff including drivers..	6	14,424	15	37,860	52,284
AGRICULTURE:					
Agricultural Graduates	1	2,404	1	2,524	4,928
Multipurpose Village-level Workers	10	24,040	12	30,288	54,328
ANIMAL HUSBANDRY:					
Veterinary Doctor	1	2,404	1	2,524	4,928
Stockman	..	..	2	5,048	5,048
Messengers	..	..	2	5,048	5,048
CO-OPERATION:					
Co-operative Inspector	1	2,404	1	2,524	4,928
EDUCATION:					
School Teachers	..	..	62	1,56,488	1,56,488
SOCIAL EDUCATION:					
Social Education Organisers ..	2	4,808	2	5,048	9,856
MEDICAL:					
Doctors	..	..	1	2,524	2,524
Compounders	..	..	1	2,524	2,524
Sanitary Inspector	..	..	1	2,524	2,524
Lady Health Visitor	..	..	1	2,524	2,524
Midwives	..	..	4	10,096	10,096
Sweepers	..	..	2	5,048	5,048
WORKS:					
Engineers	..	..	1/3	841	841
Overseers	1	2,404	2	5,048	7,452
ARTS & CRAFTS:					
Supervisors	..	..	2	5,048	5,048
Mechanics	..	..	3	7,572	7,572
Total		55,292		2,93,625	3,48,917

Including certain other categories, the total requirements are of the order of 350,000 persons.

For Block Development Officers the training centres are at Nilokheri, Hyderabad and Ranchi. As on Dec. 31, 1955, 756 Block Development Officers had been trained, and 59 were undergoing training at the three Development Officers' Training Centres.

Forty-three centres for training Gram Sevaks (Village Level Workers) have been set up. The annual out-put from the 43 centres will be 5,000.

The training centres for Gram Sevaks are located as follows: Samalkot (Andhra), Jorhat (Assam), Patna, Mussaffarpur (Bihar), Anand Manjri (Bombay), Dharwar (Mysore), Sindewahi (Madhya Pradesh), Gandhigram (Madras), Parli (Kerala), Bolangir (Orissa), Nilokheri (Punjab), Batala (Punjab), Bakshi-ka-Talab (Uttar Pradesh), Hawalbagh (Uttar Pradesh), Chiragaon (Uttar Pradesh), Ghazipur (Uttar Pradesh), Gorakhpur, Bulandshahr (Uttar Pradesh), Burdwan Farm (W. Bengal), Fulia I (West Bengal), Fulia II (West Bengal), Himayatsagar (Andhra), Antri (Madhya Bharat), Mandya (Mysore), Nabha (Punjab), Kotah (Rajasthan), Junagadh (Bombay), Mavelikara (Kerala), Bairagarh (M.P.), Mashobra (Himachal Pradesh), Nowgong (M.P.), Srinagar (Jammu and Kashmir).

Gopannapalam (Andhra), Khannapara (Assam), Sigwal (Bihar), Bhavani Sagar (Madras), Betul (M.P.), Tharsa (M.P.), Chinsurah (W. Bengal), Rajinder Nagar (Parbhani, Bombay), Padgampura (Kashmir), Sheogani (Rajasthan).

"Workshops" are being established in twenty of the extension training centres for imparting training to gram sevaks and village artisans in smithy and carpentry with special emphasis on repairs and manufacture of improved agricultural implements.

Home economics wings are being attached to 25 of the extension training centres to train 20 women annually at each centre. In addition to this 2 more auxiliary centres had been sanctioned one each in the States of Madhya Pradesh

at Indore under the auspices of Kasturba Trust Centre, and the other at Amravati (Bombay) under the auspices of the Shivaji Educational Institute, Amravati. These centres will also provide training facilities for 20 women village level workers in each centre. The duration of the course at each of the total 27 home science centres is 12 months.

Group Level Workers give support to V.L.W.'s in the solution of difficult problems. It has been decided to train 2,200 personnel of this category each year.

Each Development Block requires three Group Level Workers, one each for agriculture, animal husbandry, co-operation and panchayats. The total requirements of each category is about 5,000. Existing facilities are enough for meeting requirements of trained personnel in basic agriculture. As regards animal husbandry the present annual turn-over is about 275 to 300 graduates. Ten new colleges have been sanctioned for conducting two-year emergency diploma courses, and five additional shifts in the existing colleges having a four-year course. As a result of this 1,000 diploma holders and 340 graduates will be available in 1957 and 1959 respectively.

For the training of co-operative officers, 3 centres have been set up at Uttarpara (W. Bengal), Kotah (Rajasthan), Gopalpur (Orissa). Five more were proposed to be set up. The course will be of 10 months' duration with an interval of six weeks' study tour. Each centre will train 100 trainees a year.

The Social Education Training centres (now there are nine) are located as follows:

Gandhigram (Madras), Nilokheri (Punjab), Allahabad, Santiniketan, Himayatsagar (Andhra), Baroda, Belur Math, Ranchi, Udaipur.

Of these the centre at Allahabad trains Chief Social Education Organizers. The training period is five months. Each centre will train 180 persons a year.

There is a centre at the Baroda University to give a specialized supplementary training. The course is of three months' duration and the annual out-turn 100 trainees a year.

The centre at Nilokheri is administered directly by the C.P.A., while the others are run under the auspices of established institutions.

The expenses of training the education organisers are shared among the Government of India, the T.C.A. and the Ford Foundation.

In the field of health, existing facilities are adequate to meet the requirements of doctors, compounders and sanitary inspectors. Twenty-seven schools for the training of auxiliary nurse mid-wives, 6 for mid-wives, and 9 for lady health visitors were in operation.

Block Development Officers are trained at: Dipatoli camp, Ranchi (Bihar), Nilokheri (Punjab), Himayatsagar (Andhra).

Public Health training centres are at: Arni (Madras), Singur (W. Bengal). Najafgahr (Delhi), Ranchi.

There are arrangements for the training of operators of heavy equipment such as tractors, road-rollers, graders, rippers and also for multi-purpose overseers.

NEW PLANS

The future development of the community projects is to be rephased under a new work plan which the Ministry of Community Development expects to initiate from April 1958.

The revision entails the abolition of the present distinction between the three phases of operation *viz.* N.E.S., community development and post-intensive and will ensure a vigorous and more intensive development programme extending over a longer period than at present.

The N.E.S. stage at present extends over three years during which a relatively less comprehensive programme is executed within a budget ceiling of Rs. 4 lakhs and with a skeleton staff.

This is followed by another three years of intensive community development with a fuller complement of staff and a provision of Rs. 8 lakhs

Thereafter, the block enters the post-intensive stage when only Rs. 30,000 is available annually.

It is felt that development activities in the rural areas must be intensive, continuous, and of substantial duration. The rigid demarcation between the existing phases thus becomes artificial and unsuited to the requirements of the time and instead the implementation of the programme in two stages of five years each is contemplated.

A certain staggering of the Plan coverage will become inevitable as a result of the revised pattern.

The Second Plan contemplates bringing the entire country under N.E.S. by April 1961.

According to the latest proposal, the complete coverage will be achieved by October, 1963.

The new proposals largely conform to the recommendations of the Balvantrai Mehta study team.

The new arrangement implies the automatic conversion of the existing N.E.S. blocks into community development blocks with an increased budget provision. The funds provided for the first and second phases will be Rs. 12 and Rs. 5 lakhs respectively for each block.

The revised budget pattern is intended for operation during the rest of the Second Plan period.

In the Third Plan, necessary funds for all blocks, including the post-intensive, will, it is envisaged, be provided by pooled blockwise allotment from the normal departmental allocations and various all-India boards.

The revised schedule will help relieve the present acute shortage of trained basic and supervisory personnel. It will also tone up the working of the programme by avoiding recruitment of workers of marginal calibre and qualifications.

THE STUDY TEAM ON COMMUNITY DEVELOPMENT AND N.E.S.

The Study Team for Community Development and National Extension Service, appointed in December, 1956, by the Committee on Plan Projects, presented its report to Pandit Govind Ballabh Pant, the Home Minister, on November 25, 1957.

The terms of reference of the Study Team, headed by Mr Balvantrai G. Mehta, were of a comprehensive nature aiming at greater efficiency in the implementation of the programme. Its recommendations, some of which are of very far-reaching effect are now being studied by the Central Government (December 1957).

DEMOCRATIC DECENTRALISATION

Observing that democratic decentralisation alone can lead to effective rural development, the Team has suggested a three-tier system, composed of Village Panchayats, Panchayat Samitis and Zila Parishad, in the districts.

The village panchayats, according to the Team, should be graded on the basis of their performance and efficient ones should be entrusted with the work of revenue collection. They should get some commission for this work and also a statutorily prescribed share from Panchayat Samitis.

The duties of village panchayats will include provision of water supply, sanitation, lighting, maintenance of roads, land management, welfare of backward classes and collection and maintenance of records.

The Gram Sevak will work as the Development Secretary of the panchayat.

Panchayat Samiti is an innovation suggested by the Study Team. The Samiti will have its jurisdiction co-extensive with the Development Block and will be constituted by indirect election from village panchayats.

Its functions will cover all aspects of development of agriculture, minor irrigation works, local industries, public health, primary schools, welfare work, and the collection and maintenance of statistics.

All Central and State funds spent in a Block area will be assigned to the Samiti to be spent by it directly or indirectly, and the Samiti will also act as an agent of the State Government in executing special schemes of development entrusted to it.

The report has suggested some sources of revenue for the Samiti in addition to grants-in-aid it will receive from the State Governments.

The annual budget of the Panchayat Samiti will have to be approved by the Zila Parishad. The Parishad will consist of the Presidents of Samitis in the district, M.P.s, M.L.A.s and the district level officers.

ECONOMIC DEVELOPMENT

The Team points out that hitherto more emphasis has been laid on welfare schemes than on specific programmes of economic development and recommends that the emphasis should shift without delay.

About the order of priorities to be assigned to different fields of activity the Team suggests supply of drinking water, improvement of agriculture and animal husbandry, co-operative activity, rural industry and health followed by others.

The Team has recommended the abolition of the present system of dividing the development programme into three phases of N.E.S., Intensive Development and post-Intensive Development as it leads to two-fold waste and frustration on account of the non-availability of resources in the N.E.S. and P.I.D. stages; and suggests that there should be a continuing programme of six years, unapent funds of each year being carried forward to the following year.

It also suggests that the original budget ceiling of Rs. 15 lakhs should be restored and the first phase of six years should be followed by another with a budget ceiling of Rs. 5·5 lakhs.

The Team has also recommended that the decision to cover the entire country with the Development Blocks during the Second Plan period should be revised and the date extended by at least three years.

About the existing organisational structure and the methods of work the Team has made a number of suggestions.

It suggests that the number of Gram Sevaks per Block should be increased to about 20 so that his circle does not exceed 800 families or 4,000 persons and that all field workers at a level below the Block in the departments of Agriculture, Harijan Welfare etc. should be pooled and their duties and functions be assigned to the Gram Sevak within his charge.

For carrying out welfare work among women and children the Team feels that complete responsibility should be vested with the States, the Centre functioning from one single point only as an advising, co-ordinating and financing agency and that a satisfactory programme for child welfare, limited to few lines only, be evolved for a few selected areas in the first instance.

A number of suggestions regarding welfare work among the tribals have also been made.

Also, comprehensive suggestions have been made by the Team about the recruitment of and improvising the training programme for different categories of officials.

The team feels that there is a need for greater attention to the agricultural sector in the schemes of Community Development. It recommends, *inter alia*, distribution of improved seeds, setting up of seed multiplication farms, increasing local production of chemical fertilisers and increased use of green manure, farmyard manure and night soil compost. Emphasis has also been laid on the need for eliminating pests and diseases affecting agricultural production. Extensive soil conservation measures, improved farming practices, effective policy regarding land reforms, better irrigation facilities, effective agricultural research are some of the other measures stressed by the Team.

In regard to co-operation, the team says that a multi-purpose co-operative society for a village or a group of villages working in close association with local Panchayats, as against societies for different lines of activity, is the only correct course to be followed.

It also recommends that the entire rural credit should be canalised through the agencies of co-operatives and the farmers should be able to have productivity loans at an interest not exceeding 6¼ per cent and the credit-worthiness of the borrowers should give place to credit-worthiness of purposes in advancing loans.

INDUSTRIES, EDUCATION

The Team suggests that an effective programme of co-ordination between the cottage, village and small scale industries and of collaboration among various All-India Boards should be worked out by pooling funds, personnel, agencies of supervision and inspection to avoid waste and inefficiency. Quality control along with provision of credit and marketing facilities, organisation of guilds of prominent artisans in each Block and of supply co-operatives are some of the other recommendations made by the Team.

The Team says that the aim of social education should be to acquaint people with the meaning of citizenship and the way democracy functions, to induce them to learn how to read and write to impart proper training for refinement of emotions and to instil a spirit of toleration among them. The social education organizer, says the Team, deserves to be assigned a definite position in the education department so that he may function effectively.

The Team has made a number of suggestions to enable the non-governmental agencies to participate in the community development work by giving them ample discretion to plan and work out the programme and also by making funds available for the purpose.

NOTE OF DISSENT

A note of dissent submitted by Mr. B. G. Rao, a member of the Team, says that he is unable to agree with his colleagues on three points, viz., the appointment of Gram Sevak as the Development Secretary of the Panchayat, the organisation at the centre co-ordinating various community development activities in the country, and the field organisation for social education.

He says that the appointment of a Gram Sevak as Development Secretary will tie him to desk work at the cost of field work and thus affect his utility as an extension worker. Regarding the second point, since the Union Ministry of Community Development has no policy-making functions it should be abolished and a division within the Planning Commission should be entrusted with its activities.

STATE-WISE DISTRIBUTION OF PROJECTS

An Operational Agreement signed in May 1952 provided for the starting of 55 projects.

The distribution and location of these projects is given in the following table :

Andhra
1. Project—Kurnool-Cuddapah Canal Area.
2. Project — Kakinada-Peddapuram — East Godavari District.
3. Project—Nizamabad District.
4. Block—Laknawaram (Warangal District).

Assam
1. Project—Cachar District.
2. Project—Darrang District.
3. Block—Garo Hills, tribal area.
4. Block—Golaghat, tribal area.

Bihar
1. Project—Darbhanga-Monghyr Districts.
2. Project—Shahabad District.
3. Project—Ranchi District.
4. Project—Patna District.
5. Block—Santhal Parganas District.

Bombay
1. Project—Mehsana District.
2. Project—Kolhapur District.
3. Project—Thana-Kolaba Districts.
4. Block—Sabarkantha District.
5. Project—Amravati District.
6. Project—Sorath District.
7. Block—Kutch District.

Madhya Pradesh
1. Project—Raipur District.
2. Project—Hoshangabad District.
3. Project—Bastar District.
4. Project—Sehore-Raisen.
5. Block—Nagod-Raghuraj Tehsil.
6. Project—Gird District.
7. Project—Nimar District.

Madras
1. Project—Coimbatore District.
2. Project—Madurai District.

Orissa
1. Project—Kalahandi District.
2. Project—Balasore District.
3. Project—Ganjam District.

Punjab
1. Project—Gurdaspur District.
2. Project—Ambala District.
3. Project—Jullundur District.
4. Block—Nilokheri.
5. Two Blocks—Faridabad.
6. Project—Rohtak District.
7. Project—Dhuri Tehsil (Sangrur District).

Uttar Pradesh
1. Project—Gorakhpur District.
2. Project—Azamgarh District.
3. Project—Faizabad District.
4. Project—Mainpuri District.
5. Project—Jhansi District.
6. Project—Almora District.

West Bengal
1. Block (composite)—Birbhum District, Sadar Sub-division.
2. Block (composite)—Birbhum District, Sadar Tehsil.
3. Block (composite)—Birbhum District, Rampurhat Tehsil.
4. Block (composite)—Burdwan District, Burdwan-Sadar-Katwa Tehsils.
5. Block (composite)—Burdwan District, Burdwan-Sadar Tehsils.
6. Block (composite)—24 Parganas District, Sadar Tehsil.
7. Block (composite)—Midnapore District, Jhargram Tehsil.
8. Block (composite)—Nadia District, Ranaghat Sub-division.

Mysore
1. Project—Shimoga District.
2. Project—Belgaum District.
3. Project—South Kanara District.
4. Project—Raichur District.
5. Project—Gulbarga District.
6. Block—Coorg.

Rajasthan
1. Block—Sawai Madhopur.
2. Block—Bikaner-Ganganagar District.
3. Block—Alwar District.
4. Block—Kotah District.
5. Block—Pali District.
6. Block—Udaipur District.
7. Block—Dungarpur District.
8. Block—Pisangan (Ajmer).

Kerala
1. Project—Trichur District.
2. Project—Trivandrum District.
3. Project—Malabar area.

Delhi
1. Block—Alipur area.

Himachal Pradesh
1. Project—Sirmur.
2. Block—Saddar (Bilaspur).

Manipur
1. Block—Thoubal Tehsil.

Tripura
1. Block—Nutanhaveli and Old Agartala.

North-East Frontier Agency
1. Block—Abor Hills District.

Jammu and Kashmir
1. Badgam Block.
2. Ladakh Block.
3. Mansar Block.

SECOND SET OF PROJECTS

In December 1952 a supplement to the first operational agreement was signed, whereby 55 new Development Blocks were to be started.

Andhra

2 DEVELOPMENT BLOCKS.
1. Chittoor District.
2. Ichapuram—Srikakulam District.

Assam

3 DEVELOPMENT BLOCKS
1. North Lakhimpore Block consisting of 8 Mouzas of the Ranganadi Circle of the Lakhimpore District.
2. Nowgong Block consisting of whole or parts of seven Mouzas of the Nowgong District.
3. Aijal, Mazo Hills District.

Bihar

2 DEVELOPMENT BLOCKS
1. Shikarpur Development Block, District Champaran.
2. Hura Development Block, District Manbhum.

Bombay

9 DEVELOPMENT BLOCKS

1. Valia Mahal and some villages in Jhagdia Taluk—Broach District.
2. Kalol—Panch Mahals District.
3. Mandangad and some villages in Dapoli Taluk in Ratnagiri District.
4. Malegaon in Nasik District.
5. Shahada in West Khandesh.
6. Chikhali—Buldana District.
7. Bendsura—Bhir District.
8. Nanded-Khander—Nanded District.
9. Kalawad—Halar District.

Madhya Pradesh

8 DEVELOPMENT BLOCKS

1. Waraseoni Block, District Balaghat.
2. Bohuriband Block, District Jabalpur.
3. Bazag-Gorakhpur Block, District Mandla.
4. Pachor, District Rajgarh.
5. Mandsaur, District Mandsaur.
6. Sanchi, Raisen District.
7. Panna, Panna District.
8. Jatara, Tikamgarh District.

Madras

4 DEVELOPMENT BLOCKS

1. Chingleput Chingleput District.
2. Ambasamudram—Tirunelveli District.
3. Chidambaram South Arcot District.
4. Dindigul - Madurai District.

Orissa

3 DEVELOPMENT BLOCKS

1. Sundargarh Block, District Sundergarh.
2. Nayagarh Block, District Puri.
3. Bargarh Block, District Sambalpur.

Punjab

5 DEVELOPMENT BLOCKS

1. Taran Taran, District Amritsar.
2. Kulu, District Kangra.
3. Thanesar, District Karnal.
4. Narsingarh, District Ambala.
5. Bhatinda, District Bhatinda.

Uttar Pradesh

8 DEVELOPMENT BLOCKS

1. Bah -District Agra.
2. Dataganj-cum-Jalalabad--Basin of the river Sot in District Badaun and Shahjahanpur respectively.
3. Deoband--District Saharanpur.
4. Nagar --District Basti.
5. Dudhi—District Mirzapur.
6. Jaunsar Bawar-cum-Jaunpur Rawain Basin of the river Jamuna in Districts Dehra Dun and Tehri (Garhwal) respectively.
7. Phulpur—District Allahabad.
8. Bhilangana, District Tehri Garhwal.

West Bengal

3 COMPOSITE BLOCKS

1. Habra Block, Sub-division Baraset, District 24-Parganas.
2. Sonamukhi Block, District Bankura.
3. Dinhata Block, District Cooch-Behar.

Mysore

2 DEVELOPMENT BLOCKS

1. Indi in Bijapur District.
2. Mercara - Bhagamandala - Napok--Ammathnad.

Rajasthan

2 DEVELOPMENT BLOCKS

1. Nagar Pahari Govindgarh (District Bharatpur, Alwar and Jaipur Division).
2. Maulasar (District Nagore-Jodhpur Division).

Kerala

1 DEVELOPMENT BLOCK

Ambalapuzha, Parkkad, Thakazhi, Nedumudi, Champakulam and Kainakari consisting of the Pakuthies of Alleppey (excluding the Municipal area), Revenue District of Quilon.

Himachal Pradesh

1 DEVELOPMENT BLOCK

Ghumarwin Block in Tehsils Sadar and Ghumarwin.

N.E.S. BLOCKS (1953-54)

The number of blocks in each State is given in brackets. They were launched on October 2, 1953. A number of these (about 150) were converted into Community Development Blocks in 1955.

Andhra (22): Gara Srikakulam, Amadalavalasa Nagarikatakam (Dist. Srikakulam); Kota Uratla Jalluru, Pendurthi and Maduravada Revenue firka, Nakkapalli (Dist. Vishakapatnam); Rajahmundry Rajanagaram, Raghudevapuram Burugupudi (Dist. East Godavari); Denduluru Bhimadole, Kamavarapukota Dharamjegudem and Chintalapudi (Dist. West Godavari); Triuvur Vissanapeta, Muzvid Muzunur (Dist. Krishna); Santanuthalapadu Doddavaram, Ongole Ammahbrole Duddukuru (Dist. Guntur); Kanpur Sarvepalle, Podalakur Chittalur (Dist. Nellore); Nagari Narayanavanam, Arugolanu Palliputtur (Dist. Chittoor); Yerrangondapalem Tripuranthakam Dornal Duped, Alur Chippagiri Holgagundi Peddahothur (Dist. Kurnool); Hindupur Parigi, Madakasira (Dist. Anantapur); Talamanchipatnam (Dist. Cuddapah).

Assam (12): Sidli-Chirang (Goalpara Dist.); Dimoria-Barpeta (Kamrup District); Dalu (Dist. Garo Hills); Majuli, Sibsagar (Dist. Sibsagar); Bhoi (Dist. Khasi Hills); Tengakhat (Lakhimpur District); Karimganj (District Karimganj), Kohima (District Naga Hills); Kathlatoli (Nowgong District); Rangiya (District Kamrup).

Bihar (14): Bodh-Gaya (Gaya District); Barlarpur (Monghyr District); Dumri (Hazaribagh District); Seraikella (Singhbhum District); Phulwari Sharif Silao (Patna District); Musheri (Muzaffarpur District), Kuchaikote (Saran District), Ramnagar (Champaran District); Sabour (Bhagalpur District); Islampur (Purnea District); Bangaon (Saharsa District); Barhee (Hazaribagh District); Panki (Palamau District).

Bombay (31): Nadiad, Kapadvanj, Mehmedabad (Kaira District); Karad, Patan, Satara (Satara North District); Karwar, Supa Mahal, Haliyal (North Kanara District)[1]; Dharwar (Dharwar Taluka)[1]; Edlabad (East Khandesh District); Mohol (Sholapur District); Nagar (Ahmednagar District); Khanapur (South Satara District); Haveli (Poona District); Kodinar-Okhamandal (Amreli District); Fabugani (Baroda District); Songadh (Surat District); Dehgam (Ahmedabad District); Deesa (Banaskantha District). Total equivalent to 31 Blocks.

Madhya Pradesh (30): Naricoli, Patharia (Distt. Sagar); Barela (Distt. Jabalpur); (Tharni, Karakhel-Gotegeon (Distt. Hoshangabad); Shahpur (Distt. Nimar); Naraingani (Distt. Mandla); Prabhat Pattan (Distt. Betul); Pandhurna, Kalanikhas (Distt. Chhindwara); Kundla (Distt. Raipur); Masturi, Lorani (Distt. Bilaspur); Patan (Distt. Durg); Charama (Distt. Bastar); Sitapur (Distt. Surguja); Sarie-Lendhara (Distt. Raigarh); Mul (Distt. Chanda)[2]; Tumsur, Tirora (Distt. Bhandara)[2]; Lanji (Distt. Balaghat); Seloo, Mandgaon (Distt. Wardha)[2]; Narkher, Kalmeshwar (Distt. Nagpur)[2]; Teosa (Distt. Amravati)[2]; Risod (Distt. Akola)[2]; Babulgaon, Umarkher (Distt. Yeotmal)[2]; Falamb (Distt. Buldana)[2].

Madras (28): Kalasapakkam-Kadalady, Thiruinjapavram—Kilpennathur (North Arcot District); Kadambulliyur-Tirunavalur, Kullanjavadi-Kurinjipadi, Chinnasalem-Vadakkanandal (South Arcot Distt.); Odappai-Tiruvallur, Mappedu-Pandur (Chingleput Distt.); Tiruppur-Avanashi, Palladam-Vellakoil-Kengayam (Coimbatore Distt.); Kumbla-Manjeshwar, Sullia-Nileshwar (Cannanore Distt.)[3]; Tirumangalam-Pannikundlu-Kaligudi, Kallupatti-Sedapati, Usilampatti-Valandur (Madurai Distt.); Tellicherry-Kuthuparamba-Mattanur, Madayi-Payyanur (Malabar)[3]; Kundah-Gudalur-Pahdalur Thuneri (Nilgiris Distt.); Malli-Nathampatti-Srivilliputhur, Edircottai-Kalayarkurchi Sivakasi (Ramnathapuram Distt.); Krishnagiri-Kaveripatnam, Veeraganur-Talaivasal-Gangally (Salem District); Vedaranyam, Telainayar—Alathambadi-Salia-mangalam (Tanjore Distt); Musiri-Thathiengarpettai-Pulivalam, Vengalam-Valikandapuram, Parnati-Chinnadarapuram (Distt. Tiruchirapalli); Sankarankoil-Nilidanallur-Vasudevanallur, Pazhamoottai-Tiruvengadam (Tirunelveli Distt.).

Punjab (7): Hansi (Hissar Distt.); Gurgaon (Gurgaon Distt.); Gulha Sub-Tehsil (Karnal Distt.); Samrala (Ludhiana Distt.); Moga (Ferozpore Distt.); Nurpur (Kangra Distt.); Una (Hoshiarpur Distt.).

Uttar Pradesh (40): Loni (Distt. Meerut); Rudrapur Terai (Distt. Nainital); Khurhand (Distt. Banda); Koraon (Distt. Allahabad); Tarikhet (Distt. Almora); North Western Trans Rapti (Distt. Basti); Captainganj (Distt. Deoria); Nichlaul (Distt. Gorakhpur); Mangrabad Shahpur (Distt. Jaunpur); Bah (Distt. Agra); Gordhanpur (Distt. Muzaffarnagar); Unchagaon (District Buland Shahr); Tappal (District Aligarh); Mathura-cum-Chhata (Distt. Mathura); Bareilly (Distt. Bareilly); Afzalgarh (Distt. Bijnor); Joya (Distt. Moradabad); Saidnagar-Tanda (Distt. Rampur); Pilibhit (Distt. Pilibhit); Ghatampur (Distt. Kanpur); Ait (Distt. Jalaun); Arazilines (Distt. Banaras), Goshaingan), Sarojininagar (Distt. Lucknow); Unnao (Distt. Unnao); Hargaon (Distt. Sitapur); Hardoi-Bilgram (District Hardoi); Kheri (Distt. Kheri); Intiathoke (District Gonda); Kaisergunjin (South of Bahraich); Lachhmanpur (Distt. Pratapgarh); Bara Banki (Distt. Bara Banki); Dhangu (Distt. Garhwal); Ghaugarh—Bishjula-Rao (Distt. Nainital); Salon (Distt. Rae-Bareli); Bahuwa (Distt. Fatehpur); Maudaha (Distt. Hamirpur); Aural (Distt. Banaras); Kara (Distt. Allahabad); Kheragarh (Distt. Agra).

West Bengal (6): Kandi, Burwan, Bharatpur (Distt. Murshidabad); Darjeeling, Jore Bunglow, Rangli Rangliot (Distt. Darjeeling).

Orissa (2): Chatrapur (Distt. Ganjam); Angul (Distt. Dhenkanal).

Hyderabad: Zaheerabad and Bidar Taluks (Bidar District--2 Blocks)[4]; Davarakonda and Miriyalguda Taluks (Nalgonda Distt. --3 Blocks)[5]; Sangareddy and Vikarabad Taluks (Medak Distt.—3 Blocks[5]); Kannad and Vijaipur Taluks (Aurangabad Distt.—2 Blocks,[5]; Omerga Taluq (Distt. Osmanabad).[5]

Madhya Bharat[6]: Dewas and a portion of Sonkatch Tehsil (Dewas District); Ranapur (District Jhabua); Jore-Morena (Morena District).

Mysore (7): Ramanagram-cum-Kanakapura Taluks (Bangalore Distt.); Gundlupet Taluk (Mysore Distt.); Holenarsipur-Arkalgud Taluks (Hassan Distt.); Koppa Narasimharajapura Taluks (Chikmagalur Distt.); Sidlaghatta Taluk (Kolar Distt.); Harihar--Devangere Taluks (Chitaldrug Distt.); Turuvekere (Tumkur Distt.).

PEPSU[7]: Rajpura Tehsil, Jind Tehsil, Sangrur Tehsil, Phagwara Tehsil.

Rajasthan (12): Shahabad, Ladpura (Kotah Distt.); Sagwara, Simulwara (Dungarpur Distt.); Pali, Desuri (Pali Distt.); Amet, Kumbalgarh (Udaipur Distt.); Mahwa (Sawaimadhopur Distt.); Jobner (Jaipur Distt.); Anta (Kotah Distt.); Bassi (Jaipur Distt.).

Saurashtra[8]: Rajula-Jafrabad (Gohilwad Distt.); Chotila (Zalawad Distt.); Babra Jasdan (Madhya Saurashtra Distt.); Kalyanpur (Halar Distt.).

Kerala (3): Muvattupuzha Taluk; Thiruvalla Taluk; Agastcoswaram Taluk[9].

Ajmer[8]: Beawar Istimrari Girdawar's Circle.

Bhopal[6]: Berasia Tehsil; Bereli; Ashta Tehsil.

Coorg[1]: Ammathi Virajpet.

Delhi (1) : Najafgarh.

Himachal Pradesh (4) : Bhattiyat Tehsil (Chamba Distt.); Pachhad Tehsil (Sirmur Distt.); Chachiot Tehsil (Mandi Distt.); Kasumpti and Sunni Sub-Tehsils (Mahsu Distt.).

Kutch[2] : Rahpar Taluka.

Tripura (1) : Dharmanagar.

Vindhya Pradesh[6] : In Sidhi District; In Shahdol District; In Datia District.

N.E.F.A. (1) : Namsang.

Jammu & Kashmir (10) : Anantanag; Kulgam; Pulwama; Badgam; Baramulla; Sopore; Handawara; Ganderbal; Srinagar. (One more.)

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[1] Now in Mysore. [2]. Now in Bombay. [3]. Now in Kerala. [4]. Now part in Andhra, part in Mysore. [5]. Now in Andhra. [6]. Now in Madhya Pradesh. [7]. Now in the Punjab. [8]. Now in Rajasthan. [9]. Now in Madras.

1954-55 BLOCKS

On October 2, 1954, 252 National Extension Blocks were launched. They covered 24,100 villages and a population of 15·91 millions.

Andhra (5) : Subbavaram and few other non-rural welfare areas, Anakapalli, Taluk (Vishakapatnam District); Palavaram, Janagareddigudem and non-rural welfare area in Jealugumalli, Palavaram Taluk (West Godavari District); Non-rural welfare areas in (*i*) Chinna Takur, (*ii*) Ulchala and (*iii*) Vervakal in Kurnool Taluk (Kurnool District); Racherla and Giddaur in Cumbam Taluk (Kurnool District); Roddam and few other non-rural welfare areas in Ponukonda Taluk (Anantapur District).

Assam (5) : Howraghat (Mikir Hills); Mikir Hills (Barapathar and Sarupathar) (United Mikir and N. C. Hills); Goalpara (Unions of Goalpara and Dudhni P.S.); Jorhat (Jorhat District); Chakesang (Kohima Hills).

Bihar (20) : Bikram (Dinapur) (Patna District); Shakra (Muzaffarpur) (Muzaffarpur District); Samastipur (Samastipur) (Darbangha District); Bagaha (Bettiah) (Champaran District); Puncha (Manbhum) (Manbhum District)[1]; Dumka (Dumka) (Santhal Pargana District); Kharswan (Seraikella) (Singhbhum District); Patepur (Hazipur) (Muzaffarpur District); Manbazar (Purulia) (Manbhum District)[1]; Topchanchi (Dhanbad) (Dhanbad District); Nala (Jamtara) (Santhal Pargana District); Jamtara (Jamtara) (Santhal Pargana District); Kundahit (Jamtara) (Santhal Parganas District); Sarath (Deoghar) (Santhal Parganas District); Chaki (Jamui) (Monghyr District); Bengaba (Giridih) (Hazaribagh District); Gonde (Giridih) (Hazaribagh District); Raniganj (Araria) (Purnea District); Purnea Sadar (Purnea District); Katihar (Purnea District).

Bombay (22) : Dhuri Taluk and Khamba Mahal (Amreli Distt.); Dhanduka Taluka (Ahmedabad Distt.); Sankheda Taluka (Baroda Distt.); Kankrej Taluka (Banaskantha Distt.); Balasinor Taluka (Kaira Distt.); Navsari Taluka (Surat Distt.); Purandhar Taluka (Poona Distt.); Wai Taluka (North Satara Distt.); Bhusawal Taluka (East Khandesh Distt.); Madha Taluka (Sholapur Distt.); Tasgaon Taluka (South Satara Distt.); Parner Taluka (Ahmednagar Distt.); Kumta Taluka (Kanara Distt.)[2]; Ron Taluka (Dharwar Distt.)[2]; Dangs (Dangs Distt.).

Madhya Pradesh (44) : Rehli (Sagar Distt.); Khurai (Sagar Distt.); Rinaika (Sagar Distt.); Batiagarh (Sagar Distt.); Murwara (Jubbulpur Distt.); Patna (Jubbulpur Distt.); Seoni-Malwa (Hoshangabad Distt.); Harrai Haveli (Hoshangabad Distt.); Khandwa (Nimar Distt.); Harsud (Nimar Distt.); Mandla (Mandla Distt.); Betul (Betul Distt.); Seoni (Chindwara Distt.); Pillari (Raipur Distt.); Rajim (Raipur Distt.); Beria (Durg Distt.); Kawardha (Durg Distt.); Nandgaon (Durg Distt.); Khairagarh (Durg Distt.); Surajpur (Surguja Distt.); Ramchandrapur (Surguja Distt.); Baikunthpur (Surguja Distt.); Khargawan (Surguja Distt.); Gharghoda (Raigarh Distt.); Raigarh (Raigarh Distt.); Bhatrawati (Chanda Distt.)[3]; Sindhewahi (Chanda Distt.)[3]; Morgaon Arjuni (Bhandara Distt.)[3]; Arvi (Wardha Distt.)[3]; Mauda (Nagpur Distt.)[3]; Kuhi (Nagpur Distt.)[3]; Nawagarh (Bilaspur Distt.); Sakti (Bilaspur Distt.); Chandur Bazar (Amravati Distt.)[3]; Akola (Akola Distt.)[3]; Balapur (Akola Distt.)[3]; Mangrulpir (Akola Distt.)[3]; Murtizapur (Akola Distt.)[3]; Darwha (Yeotmal District)[3]; Wani (Yeotmal Distt.)[3]; Kalapur (Yeotmal Distt.)[3]; Jalgaon (Buldana Distt.)[3]; Mehkar (Buldana Distt.)[3]; Nandura (Buldana Distt.)[3].

Madras (20) : Polur, Mandakulathur and Santavasal firkas in Polur Taluk (North Arcot Distt.); Uthukottai and Kannigalpair firkas in Trivellore (Chingleput Distt.); Pongalur and Varapatti firkas in Palladam Taluk (Coimbatore Distt.); Wandese and Baindur firkas in Coondapur Taluk (South Kanara Distt.)[3]; Taliparamba firka and villages of Madayi firka (Malabar)[4]; Entire area in the district not covered by 1953-54 N.E.S. Blocks (Nilgiri Distt.); Parts of Srivilliputhur Taluka not covered by 1953-54 N.E.S. Blocks (Ramanathapuram Distt.); Attur firka (Salem Distt.); Pudukottai Alangudi Vallanad and Varappur firkas of Alangudi Taluka (Tiruchirapalli Distt.); Kolipatti firka in Kolipatti Taluk (Tirunelveli Distt.).

Tanjore Development Scheme (Administrative Units: Papanasam North; Papanasam South; Kumbakonam North; Kumbakonam South; Mayuram East; Mayuram West; Sirkali.

Orissa (12) : Kendrapara (Cuttack Distt.); Varanasi (Ganjam Distt.); Boriguma (Koraput Distt.); Athagarh (Cuttack Distt.); Dasrathpur (Cuttack Distt.); Katipada (Mayurbhanj Distt.); Bhuyanpirh (Keonjhar Distt.); Bonai (Sundargarh Distt.); Padampur (Sambalpur Distt.); Pipli (Puri Distt.); Kharlar (Kalahandi Distt.); Birmahajapur (Bolangir Distt.); Bandh (Phulbani Distt.).

Punjab (8) : Outer Seraj (Kangra Distt.); Palampur (Kangra Distt.); Hamirpur (Kangra Distt.); Garhshankar (Hoshiarpur Distt.); Ludhiana (Ludhiana Distt.); Kharar (Ambala Distt.); Rohtak (Rohtak Distt.); Panipat (Karnal Distt.).

Uttar Pradesh (30) : Buland Shahr (Buland Shahr Distt.); Rudrapur (Nainital Distt.); Bakshi-ka-Talab (Lucknow Distt.); Chhgaon (Jhansi Distt.); Ghasipur (Ghazipur Distt.); Kotwali (Bijnor Distt.); Thakurdwara (Moradabad Distt.); Pukhrayan (Kanpur Distt.); Manikpur (Banda Distt.); Rath (Hamirpur Distt.); Khutand (Jalaun Distt.); Belta (Sitapur Distt.); Naghasan (Kheri Distt.); Purola (Tehri Garhwal Distt.); Muzaffarbad (Saharanpur Dist.); Chailkhas (Allahabad Distt.).

West Bengal (10) : Ratna, Sadar sub-division (Malda Distt.); Harischandrapur, Sadar sub-division (Malda Distt.); Kharba, Sadar sub-division (Malda Distt.); Raigunj, Raigunj sub-division (West Dinajpur Distt.); Kaliaganj, Raigunj sub-division; Hemtabad, Raigunj subdivision (West Dinajpur Distt.); Arambag, Arambagh sub-division (Hooghly Distt.); Khanakul, Arambagh sub-division (Hooghly Distt.); Pursura, Arambagh sub-division (Hooghly Distt.); Bolpur, near Shantiniketan (Birbhum Distt.).

Hyderabad (10) : Metpalli (Karimnagar Distt.)[5]: Adilabad (Adilabad Distt.)[5]; Medehar Taluq (Hyderabad Distt.)[5]; Sillod (Aurangabad Distt.)[5]; Shadnagar (Mahboobnagar Distt.)[5]; Yadgir (Gulbarga Distt.)[5]; Palair (Khammam Distt.)[5]; Hingoli and Kalamnoori Taluks (Parbhani Distt.)[5]; Kukatpalli (Hyderabad Distt.)[5]; Khamam, Madhira Tehsil (Khamam Distt.)[5].

Madhya Bharat[6] (7) : Alota (Ratlam Distt.); Raghogarh (Guna Distt.); Susner (Shajapuri Distt.); Shivpuri (Shivpuri Distt.); Lahar (Bhind Distt.); Ujjain (Ujjain Distt.); Badnawar (Dhar Distt.).

Mysore (7) : Holalkere (Chitaldrug Distt.); Mudigere (Chickmagalur Distt.); Arkalgud (Hassan Distt.); Siraguppa (Bellary Distt.); Srinivasapur (Kolar Distt.); Gubbi-Tumkur (Tumkur Distt.); Mallavalli (Mandya Distt.).

PEPSU[7] (6) : Jaitu-Kotkapura (Bhatinda Distt.); Saproon (Nalagarh Distt.); Barnala (Barnala Distt.); Patiala (Patiala Distt.); Sunam (Sangrur Distt.); Bhadsan (Nabha Distt.).

Rajasthan (15) : Bilara (Jodhpur Distt.); Sankra (Jaisalmer Distt.); Sivana-Samdri (Barmer Distt.); Jalore-Guda-Balotra (Jalore Distt.); Pindwar-Bhawari (Sirohi Dist.); Kanakpura (Jaipur Distt.); Basseri (Bharatpur Distt.); Todabhim (Sawai Madhopur Dist.); Karauli (Sawai Madhopur Distt.); Sawai Madhopur (Sawai Madhopur Distt.); Govindgarh (Alwar Distt.); Malpura (Tonk Distt.); Girwa (Udaipur Distt.); Garhi (Banswara Distt.); Karanpur (Ganganagar Dist.).

Saurashtra[3] (3) : Botad-Godhada (Gohilwad Distt.); Muli-Sayla (Zalawad Distt.); Jasdan Kotda Sangani (Madhya-Saurashtra Distt.).

Kerala (5) : Chittoor, Uzhavoor, Pulikeezhu, Trivandrum Rural, Mavelikara (Quilon Distt.).

Bhopal[8] (3) : Obaidullaganj (Goharganj Tehsil); Silwani (Silwani Tehsil); Ghairatganj-cum-Begamganj (Begamganj Tehsil).

Himachal Pradesh (4) : Theog (Kufri-Narkanda) (Mahasu Distt.); Chamba (Tehsil Chamba); Karsog (Tehsil Karsog and Sunder Nagar); Rohru (Tehsil Rohru and Kumarsain).

Kutch[2] (1) : Addasa Taluka.

Manipur (1) : Mao Maram Hill Area.

Vindhya Pradesh[6] (3) : Nowgong; Chittrakot; Hanuman.

N.E.F. Agency (1) : Ziro-Dolmukh Block—Subansiri Frontier Division.

Jammu & Kashmir (10) : Anantanag; Kulgam; Pulwama; Badgam; Baramula; Sopore; Handawara; Ganderbal; Srinagar; Uri.

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[1]. Now in W. Bengal. [2]. Now in Mysore. [3]. Now in Bombay. [4]. Now in Kerala. [5]. Now in Andhra. [6]. Now in Madhya Pradesh. [7]. Now in the Punjab.

N. E. S. BLOCKS 1955-56

Andhra (8) : Peddathumbalam—Kurnool (Adoni Taluk); Kosigi—Kurnool (Adoni Taluk); Nandavaram—Kurnool (Adoni Taluk); Devanakonda—Kurnool (Pattikonda Taluk); Macherla—Guntur (Paland Taluk); Talupula—Anantapur (Kadir Taluk); Karimnagar—Karimnagar; Kalwakurty—Mahbubnagar.

Assam (3) : Changtongia—Sangtam, Naga Hills; Zunheboto—Sema, Naga Hills; Wokha—Lotha, Naga Hills.

Bihar (62) : Mokameh—Patna; Ghosi—Gaya; Daudnagar—Gaya; Warisaliganj—Gaya; Dumraon—Shahbad; Behea—Shahbad; Sursand—Muzaffarpur; Banlapur—Saran; Darauli—Saran; Banka—Bhagalpur; Geogri—Monghyr; Borlo (Taljhari)—Santhal Parganas; Maheshpur—Santhal Parganas; Boraijore—Santhal Parganas; Kishanganj—Saharsa; Pratapganj—Saharsa; Simdega—Ranchi; Naugachia—Bhagalpur; Amarpur—Bhagalpur; Lakshmipur—Monghyr; Parbatta—Monghyr; Cheria Bariarpur—Monghyr; Bochacha—Muzaffarpur; Harpura—Gaya; Kawakole—Gaya; Barkatta—Hazaribagh; Barkagaon—Hazaribagh; Jamtoria—Manbhum; Kuchai—Singhbum; Balumath—Palamau; Gaya Muffasil (West)—Gaya; Chanari—Shahabad; Hajipur I—Muzaffarpur; Hajipur II—Muzaffarpur; Warisnagar I—Darbhanga; Tajpur I—Darbhanga; Lankaha—Darbhanga; Phulparas II—Darbhanga; Darauli II—Saran; Motihari I—Champaran; Motihari II—Champatan; Barbigha—Monghyr; Katihar (South)—Purnea; Raniganj (West)—Purnea; Purnea (West)—Purnea; Muriganj I—Saharsa; Chaupatan—Hazaribagh; Karra—Ranchi; Seraikella—Singhbhum; Mahuadaur—Palamau.

Bombay (9): Thasra—Kaira; Nandod—Broach; Khandola—North Satara; Malegaon—Nasik; Sakri—West Khandesh; Ashti and Patoda—Bhir; Mandvi—Mandvi.

Madras (10): Kilvaithinankuppam—North Arcot; Valathi—South Arcot; Sriperumbadur—Chingleput; Kundadam—Coimbatore; Singampunneri—Ramanathapuram; Kaveripattinam—Salem; Valliyoor—Tirunelveli; Valliyanai—Tiruchirapalli.

Orissa (21): Hindol—Dhenkanal; Gunupur—Koraput; Kaptipada Block II—Mayurbhanj; Bhuyanpirh Block II—Keonjhar; Panposh—Sundargarh; Jharsuguda-Sambalpur; Kasipur—Kalahandi; Udaigiri—Ganjam; Talcher—Dhenkanal; Nawarangpur—Koraput; Betaneti—Mayurbhanj; Anandpur Sub-Division Block II—Keonjhar; Sundergarh—Rajaganjpur; Bheden—Sambalpur; Salepur—Cuttack; Darpanarayanpur—Puri; Remuna—Balasore; Phulbani—Phulbandi; Patnagarh—Bolangir; Karanjia—Mayurbhanj; Sukinda—Cuttack.

Punjab (11): Gohana—Rohtak; Rewari—Gurgaon; Loharu—Hissar; Kangra—Kangra; Dehra—Kangra; Sirhind—Patiala; Sardulgarh—Bhatinda; Kandaghat—Patiala; Mahindragarh—Mahindragarh; Bholap—Kapurthala; another.

Uttar Pradesh (65): Doiwala—Dehra Dun; Awagarh—Etah; Jalalpur—Faizabad; Umrada—Farrukhabad; Malwan—Fatehpur; Deokali—Ghazipur; Mankapur—Gonda; Chargawan—Gorakhpur; Kaundha—Hardoi; Dobhi—Jaunpur; Jhakora—Jhansi; Kalyanpur—Kanpur; Madanpur—Mainpuri; Mathura—Mathura; Hatha—Mirzapur; Binoli—Meerut; Un—Muzaffarnagar; Puranpur—Pilibhit; Aspur Deosera—Pratapgarh; Harchandpur—Rae Bareli; Bilaspur—Rampur; Kanth—Shahjanpur; Gaurignj—Sultanpur; Fatehpur—Unnao; Jawan Sikandarpur—Aligarh; Dharchulla—Almora; Dohrighat—Azamgarh; Mahimpurwa—Bahraich; Berwarbari—Ballia; Faridpur—Bareilly; Jalilpur—Bijnor; Masodha—Faizabad; Painkhanda—Garhwal; Paraspur—Gonda; Sandi—Hardoi; Rampur—Jaunpur; Mitauli—Kheri; Naujhil—Mathura; Pilana—Meerut; Amroha—Moradabad; Bhawaniganj Kota—Pratapgarh; Gangoh—Saharanpur; Taknore—Tehri Garhwal; Sumerpur—Unnao; Bichpuri—Agra; Bahadarpur—Allahabad; Karchhana—Allahabad; Wazirganj—Budaun; Kalsi—Dehra Dun; Kasganj—Etah; Rajepura—Furrukhabad; Bajaipur—Fatehpur; Thallisan (Rath)—Garhwal; Sumerpur—Hamirpur; Kadaura—Jalaun; Akbarpur—Kanpur; Eka—Mainpuri; Robertsganj—Mirzapur; Bhukaheri—Muzaffarnagar; Bisalpur—Pilibhit; Maharajganj—Rae Bareli; Suar—Rampur; Khutai—Shahjahanpur; Sidhauli—Sitapur; Jaunpur—Tehri Garhwal.

West Bengal (16): Jalpaiguri—Jalpaiguri (Sadar Sub-division); Maynaguri—District Jalpaiguri (Sadar Sub-division); Dhubguri—Jalpaiguri (Sadar Sub-division); Patashpur—Midnapore (Contai Sub-division); Bhagabanpur Midnapore (Contai Sub-division); Khejri—Midnapore (Contai Sub-division); Bangaon—24 Parganas (Bangaon Sub-division); Bagde—24 Parganas (Bangaon Sub-division); Gaighata 24 Parganas (Bangaon Sub-division); Patrasair—Bankura (Vishnupur Sub-division); Uluberia—Howrah; Bagnan—Howrah; Shyampur—Howrah; Beldanga—Murshidabad; Polba—Hooghly; Tamluk—Midnapur.

Madhya Pradesh (14): Badnawar—Dhar; Mandsaur—Mandsaur; Mahidpur—Ujjain; Porsa—Morena; Kolaras—Shivpuri; Zirapur—Rajgarh; Kukshi—Dhar; Udaipura—Udaipura; Budni—Budni; Newari—Tikamgarh; Mathar—Satna; Jaithari—Shahdol; Manganj—Rewa; Chhatarpur—Chhatarpur.

Mysore (10): Nelamangala—Bangalore; Krishnarajpet—Mandya; Hunsur—Mysore; Hosanagar—Shimoga; Thungabhadra Project area of Hospet—Bellary; Magadi Taluk—Bangalore; Chikkanaikanahalli—Tumkur; Badami—Bijapur; Ankola—North Kanara; Humnabad—Bidar.

Rajasthan (12): Jaipur—Jaipur; Jhalrapatan—Jhalawar; Pratapgarh—Chittorgarh; Kotera—Udaipur; Bundi Talera—Bundi; Chirawa—Jhunjhunu; Neemkathana—Sikar; Nokha—Bikaner; Mandalgarh—Bhilwara; Begun—Chittorgarh; Jwaja—Bewar; Kekri—Kekri.

Kerala (9): Kottarakara—Quilon; Nemmara—Trichur; Changanacherry—Kottayam; Rann—Quilon; Aryad—Quilon; Kazhakuttam—Trivandrum; Nileshwar—Cannanore; Tellicherry—Cannanore.

Delhi (1): Shahdara—Delhi.

Himachal Pradesh (1): Rampur—Mahasu.

Manipur (1): Imphal East—Manipur.

Tripura (1): Kailasahar—Tripura.

N.E.F.A. (2): Lu Bonfera—Tirup Frontier Division.

Naga Unit (1): Noksan.

Pondicherry (1): Villianur Pondicherry.

FOREIGN AID TO INDIA

THE total foreign assistance received by India from 1951 to July 1957 amounted to Rs. 785 crores. Of this, Rs. 274 crores were utilised till the end of March 1957. This was obtained by way of loans and grants from the International Bank of Reconstruction and Development, the Commonwealth countries under the Colombo Plan, the U.S.A., U.S.S.R., Norway, and the Ford Foundation.

IBRD: As at the end of July 1957, I.B.R.D. granted 12 loans equivalent of $323·8 million (Rs. 154·1 crores) of which $122·7 million were drawn upon by June end 1957.

Details of loans extended by the IBRD are given in the Table below:

	Year of Loan Agreement.	Principal Amount* (Net of cancellations).	Purpose.	Period (In years).	Interest.	Commencement of Amortisation.
1.	1949 August	32·8 (15·6)	Railway rehabilitation	15	4 %	1950
2.	1949 September ..	7·2 (3·4)	Agricultural Development	7	3½%	1952
3.	1950 April	16·7 (7·9)	Electric Power Development (Damodar Valley Corpn.)	20	4 %	1955
4.	1952 December ..	30·0 (14·3)	Expansion of iron and steel production facilities (India Iron & Steel Co.)	15	4½%	1959
5.	1953 January ..	10·5 (5·0)	Electric Power Development, Flood Control & Irrigation (Damodar Valley Corporation)	25	4½%	1956
6.	1954 November ..	16·2 (7·7)	Electric Power Development (Tata Hydro, Andhra and Tata Power Companies for Trombay plant)	20	4½%	1958
7.	1955 March	10·0 (4·8)	Foreign Exchange for Development of private industry (Industrial Credit and Investment Corporation of India)	15	4½%	1960
8.	1956 June ..	75·5 (35·7)	Expansion of steel production (Tata Iron & Steel Co.) ..	15	4½	1959
9.	1956 December ..	20·0 (9·5)	Steel expansion (TISCO II)	12	5 %	1960
10.	1957 March ..	5·6 (2·7)	Purchase of aircraft (AII)	10	5½%	1965
11.	1957 May	9·8 (4·7)	Electric power development (Trombay II) . ..	19	5-½%	1960
12.	1957 July	90·0 (42·8)	Railway improvements	15	5-½%	1961
	Total	323·8 (154·1)				

U.S.A.: Inclusive of the proceeds of the wheat loan of 1951, $190 million, and P.L. 480 assistance ($234 million as loan $54 million as grant), the total U.S. aid allotted as at the end of June 1957 stood at $840 million (Rs. 400 crores). In the initial stages of the Indo-U.S. Aid Programme, the entire aid was offered as a grant. In 1954-55 however, it was laid down that about 75 per cent of U.S. funds were to be treated as a loan, to be expended mainly on the purchase of surplus agricultural commodities available in U.S. Accordingly, a long-term loan of $13C

* Figures are in million dollars except the figures in brackets which are in Rs. crores.

Note: Items 1, 2, 8, 5 are on Government account.

In November 1957, another loan of $ 32·5 million was granted to TISCO for the expansion of steel production facilities.

million (Rs. 61·9) crores was made available to India during the period 1954-55 to 1956-57 towards the purchase of surplus wheat and cotton as well as machinery and steel.

Since 1954-55 a distinction was made between development assistance and technical assistance. The development assistance allocation for 1956-57 was $62·5 million and the allocation for technical assistance was $10 million.

The U.S. aid is being utilised on mutually agreed projects such as import of fertilisers, iron and steel for agricultural and industrial use, construction of tube wells, and supply of essential items of equipment like locomotives and wagons for the railways, vehicles, agricultural implements and visual aid for community projects.

In August 1956, an agreement was signed between India and U.S. Governments providing a sum of $360 million (Rs. 171·5 crores) for the purchase of agricultural commodities under U.S. Public Law 480. This Agreement provides for the purchase of wheat worth $200 million, rice worth $26.4 million, cotton worth $70 million, tobacco worth $6 million and dairy products worth $3·5 million. From the sale proceeds, India will get a long-term loan of $234 million (Rs. 111·4 crores) and a grant of $54 million (Rs. 25·7 crores) towards the execution of development projects, while U.S. would retain $72 million for her use in India.

In January 1958, the U.S. Government announced a loan offer of $225 million to be met partly from the Export-Import Bank and partly from the Development Loan Fund.

Earlier in March 1957, five U.S. commercial banks jointly offered a loan of $11·2 million (Rs. 5·3 crores) to Air India International to meet a part of dollar costs involved in the purchase of three jet aircrafts from Boeing Corporation.

A new U.S. loan was arranged in March 1958 —150 million dollars from the Export-Import Bank and 75 million dollars from the Development Loan Fund. For details see under 'U.S. Aid to India'.

Canada: Capital assistance provided by Canada from 1951 amounted to $80 million (Rs. 40·9 crores). This has been used for the purchase of wheat, trucks and buses for the Bombay State Transport Corporation, locomotives and locomotive boilers for Indian railways, and heavy equipment for Mayurakshi project and Umtru- and Kundah Hydro-electric Projects. A part— of the 1956-57 allocation ($5 million) was utilised for the setting-up of an Atomic Reactor of the NRX type for the Atomic Research Centre at Bombay estimated to cost $7·5 million.

During 1957-58 besides the usual allocation, Canada has also offered a loan of approximately $25 million towards the purchase of Canadian wheat.

Australia: The total aid allocated by Australia is of the order of £A 10·4 million (Rs. 10·8 crores). In the first two years, the funds were utilised to purchase wheat and flour as well as construction equipment for the Tungabhadra Project and electrical equipment for the Ramagundam Project in Hyderabad. The allocations for the subsequent years are being used for the supply of radio equipment and diesel cars and wagons for railways.

New Zealand: At the inception of the Colombo Plan, New Zealand offered £ 1 million towards meeting a part of the capital cost of The All-India Medical Institute. A further allocation of £ 250,000 was made in 1954-55 towards the supply of equipment for dairy schemes in India. In 1955-56, an additional sum of £ 400,000 was allotted for the Delhi Milk Supply Scheme.

U.K.: Assistance from the U.K. has been offered mainly for research and demonstration equipment for the technical institutes. During the year 1956-57, the Government of U.K. granted a loan of £ 15 million (Rs. 20 crores) towards the erection of the Durgapur steel plant. The Indian Steel Consortium, London, have arranged for bank credits of £ 11·5 million (Rs. 15·3 crores) with a syndicate of British banks.

U.S.S.R.: The U.S.S.R. has granted export credit to the value of Rs. 63 crores towards the construction of the Bhilai steel plant. The rate of interest is 2½ per cent per annum and repayable in 12 equal annual instalments.

In November 1956, Russia offered a further credit of Rs. 60 crores for financing industrial projects included in the Second Plan, such as heavy machine building works, mining machinery plant, power station at Neyveli, optical glass factory and development of Korba coal fields.

Norway: Norway extended in 1953 a sum of Rs. 6·6 million (Krs 10 million) for a pilot project on fishery development in Kerala. In 1955-56 an additional sum of Rs. 10 million was offered to expand the activities of the same project as well as to develop a new fishery centre at Cochin.

Ford Foundation: From September 1951 upto July 1957 the Ford Foundation extended aid totalling $15·1 million (Rs. 6·4 crores) towards the training of personnel for rural development, encouraging small-scale industries and fostering education, research and training and cultural interchange.

France and Japan: Towards the end of 1957-58 France offered suppliers' credits totalling Rs. 28 crores. In Feb. 1958 Japan agreed to make available yen credits of Rs. 24 crores.

West Germany: Interim credit in respect of the Rourkela Steel Plant: Rs. 13·16 crores at 6 per cent interest.

Technical Assistance: India has received substantial technical assistance from Australia, Canada, New Zealand, U.K., U.S., West Germany and from the United Nations and its Specialised Agencies. Under the Technical Co-operation Scheme of the Colombo Plan, the Commonwealth countries undertook to provide books and equipment worth Rs. 6 million for technical institutes and research centres.

Training facilities for Indians Overseas are also provided by U.S., U.K., Australia, etc.

As on June 30, 1957, the U.S. provided 350 experts and training facilities for 633 Indian nationals.

The Colombo Plan provided 130 experts and training facilities for 983 persons.

The United Nations Technical Assistance Programme provided the services of 282 experts and training facilities for 589 Indian nationals. The West German Government have offered Rs. 50 lakhs in the form of plant and equipment and services of a number of German experts.

REPAYMENT OF LOANS

Mr. B. R. Bhagat, Deputy Minister of Finance, laid a statement on the table of the Lok Sabha on March 8, 1958 showing the total amount of money that would fall due for payment by India to various foreign countries from 1960–61 to 1970–71 on account of repayment of loans and deferred payment arrangements.

The statement is as follows:

(Crores of rupees)

	Repayment of Loans	Repayment on account of Deferred Payment Arrangements	
		Public Sector	Private Sector
1960–61	15·90	3·84	8·99
1961–62	3·06	5·71	8·65
1962–63	2·50	4·85	7·20
1963–64	2·50	1·13	3·04
1964–65	2·65	0·93	1·04
1965–66	2·77	0·41	0·44
1966–67	2·83	0·10	0·19
1967–68	3·62	–	–
1968–69	4·38	–	–
1969–70	4·54	–	–
1970–71	4·69	–	–
	49·50	16·97	29·55

Note:—(1) The amounts falling due for repayment of loans have been worked out in respect of loans or portions of loans actually received so far.

(2) Repayments falling due on account of deferred payment arrangements have been indicated on the assumption that the full amount arranged for with the approval of Government has been or will be utilised.

(3) The figures in the above statement are approximate.

What the total burden during the next few years would be was explained by the Prime Minister on March 11, 1958.

The "really difficult" time, Mr. Nehru said, would start after two years. While in 1958–59 and 1959–60 India would be required to pay back Rs. 23 crores and Rs. 35 crores respectively, in 1960–61 it would have to pay Rs. 92 crores, in 1961–62 Rs. 123 crores and in 1962–63 Rs. 107 crores.

The payment would thereafter taper off to Rs. 48 crores and Rs. 37 crores and "so on" in 1963–64 and 1964–65 and the subsequent years.

Mr. Nehru explained that the repayment during these three years would be heavy because the Rs. 95 crores standby credit from I.M.F. would have to be paid back.

He also explained that the liabilities he had listed related only to loans and credits already received and did not include any further assistance that might be available hereafter.

U. N. AID TO INDIA

During 1956 the sum of money allotted to India for the Expanded Programme of Technical Assistance was U.S. dollars 2,679,171 and the sum contributed by India was U.S. dollars 450,000.

The total cost of the projects undertaken under the expanded technical assistance in 1956 in U.S. dollars was 1,033,351.

The contributions pledged by the Governments for the entire Expanded Programme of Technical Assistance for 1956 and 1957 were U.S. dollars 28,833,000 and 30,794,000 respectively. Indian contribution for this period, $450,000 and $500,000 respectively.

The total amounts obligated during 1956 classified under different agencies are as follows (*figures in U.S. dollars*) :

UNTAA : 788,630 ; ILO : 67,443 ; FAO : 410,218 ; UNESCO : 243,712 ; ICAO : 19,306 and WHO : 404,042 ; Total ; 1,933,351.

During 1956 ninety-nine experts were engaged under the Expanded and Regular Programme of Technical Assistance : 17 by UNTAA ; 11 by ILO ; 30 by FAO , 19 by UNESCO ; 2 by ICAO ; 19 by WHO and 1 by WMO.

During that year, 163 experts were assigned to India : 22 by TAA , 10 by ILO ; 43 by FAO ; 19 by UNESCO ; 2 by ICAO and 67 by WHO.

The total fellowships awarded to Indians both under the expanded and regular programmes during the year were 226 ; UNTAA 129 ; ILO 20 ; FAO 12 ; UNESCO 17 ; ICAO 4 and WHO 44.

The total fellowships both under the expanded and regular programmes with tenure in India were 154 : UNTAA 24 ; ILO 28 ; FAO 8 ; UNESCO 8 and WHO 86.

Subjects in which technical assistance was offered were : urban water supply and sewage disposal, textile technology, production of structural steel, housing, fermentation industry, use of equipment for aerial survey and mapping in relation to development resources, statistics (of planning, inter-industry study, national income, quality control, national sample survey, machine tabulation, demography), dam designs at Bhakra, hydro and thermal plants, electrical machinery, leather technology, plastic and glass moulds, DDT factory, penicillin factory, inland water transport, naval architecture, highway construction, bridge maintenance, lighthouse equipment, rock salt mining, power drilling, housing research, primary metals development, water resources development, manpower organization including vocational training, national labour market and vocational guidance and apprentice legislation, development of TWI programmes, productivity centre, industrial relations and personnel management, use of farm machinery, grassland and fodder improvement, artificial insemination of animals and animal production and disease control, dairy and milk production, veterinary education, refrigeration, rinderpest vaccine manufacture, sheep and wool production, hides and skins, tanning, wool-spinning and weaving, surf boats in fishery, mechanized equipment for fishing, training in fisheries, fish harbour designing, Fishery Technological Station, forest resources and industries, erosion, soil conservation, tea-chest plywood, afforestation, nutrition, horticultural practice, fruit processing, infant foods, home economics, catering management, fundamental education, basic education, training and checking of air crews, airport lighting, environmental sanitation, public health engineering, vital and health statistics, domiciliary nursing and midwifery, T.B. control, preventive and social medicine, rehabilitation of handicapped, mining, time and motion, electronics, ship-model testing, photo-elasticity.

Among the institutions that benefited were : Indian Statistical Institute ; Roorkee University ; Indian Institutes of Technology, Kharagpur and Bombay ; Central Water and Power Commission ; National Physical Laboratory ; Central Bureau of Vocational Guidance ; Indian Institute of Science, Bangalore ; Banaras University ; Institute of Radio Physics and Electronics, Calcutta ; Engineering College, Poona ; All India Institute of Hygiene and Public Health and All India Institute of Medical Sciences.

U. S. AID TO INDIA

American aid to India, public and private, totalled $1,035,500,000 as of Sept. 1957, or nearly Rs. 518 crores †

The biggest single item under the U.S. aid programme was the $360,100,000 Agricultural Commodities Agreement signed by the Governments of India and the United States on August 29, 1956. This agreement enables India to buy needed agricultural commodities from the United States during the next two years, including 3,500,000 tons of wheat ($200 million, 500,000 bales of cotton ($70 million), 200,000 tons of rice ($26·4 million), six million pounds of tobacco ($6 million), and dairy products worth $3·5 million. It will help assure India of an adequate supply of basic agricultural commodities and aid the Government of India's efforts to keep prices stable during the Second Five-Year Plan.

All commodities are to be sold for Indian rupees, thus yielding foreign exchange to the extent of nearly Rs 170 crores. Eighty per cent of the rupee proceeds is to be used for economic development under India's Second Five-Year Plan.

The biggest transaction entered into by India and the United States before the Agricultural Commodities Agreement was the 1951 Wheat Loan of $190,000,000.

Other financial assistance to India from U.S. Government and private sources has included :

- Indo-American Technical Co-operation—$392,400,000.
- Milo Assistance in 1950-51—$12,000,000.
- Flood Relief—$6,400,000.
- Fulbright and Smith-Mundt grants for Educational Exchange—$4,500,000.
- Ocean Freight Assistance -$000,000.
- Food Distribution by American Voluntary Agencies—$61,000,000.
- Ford Foundation—$19,100,000.
- Rockefeller Foundation—$5,400,000.

During Fiscal Year 1957 the Government of India and TCM signed nine new project agreements. The largest of these provided $4,000,000 for the constfuction of a new 30 megawatt thermal power plant in Delhi. This will increase the present availability of electric power in Delhi and New Delhi by approximately 40 per cent.

The other new agreements were mostly in the field of education

The bulk of the $75·6 million provided to the Indo-American programme by TCM during FY 1957 was in the form of supplements to the already existing agreements, which numbered 63.

AGRICULTURAL COMMODITIES AGREEMENT*

The Agricultural Commodities Agreement signed in August 1956 is the largest such agreement the U.S has signed with any country. It was negotiated under U.S. Public Law 480—the Agricultural Trade Development and Assistance Act of 1954, as amended in 1956—which permits the sale of surplus agricultural commodities to foreign countries for their own currencies.

Although the U.S. law is designed to cut down on agricultural surpluses, India is not required to buy surplus products from U.S. Government storage. The agreement permits the Indian Supply Mission in the U.S. to buy the commodities from whatever source in the United States it finds most advantageous.

The agreement also includes $54,200,000 (Rs. 28 crores) for payment of half the shipping costs.

Rupee proceeds are to be used as follows :

- 65 per cent ($234 million) to be loaned to India on a long-term basis, for economic development, $55 million of which will be for the private sector ;
- 15 per cent to be given as a grant to the Government of India for economic development projects ;
- 20 per cent ($72 million) will be for U.S. Governmental expenditures in India, including purchases of Indian goods for other countries getting U.S. aid.

Both Governments will take precautions to assure that the sale of the commodities will not unduly disrupt world-price of the products. The two Governments agree that the imports of the commodities will be over and above usual commercial imports from all sources.

WHEAT LOAN

Large-scale American aid to India began in 1951, when India was faced with a threatened famine Americans in large numbers voluntarily contributed hundreds of thousands of dollars worth of foodstuffs, clothing and medicine. This aid was channelled through various relief groups, which have continued every year to send large quantities of such items since.

Also, in 1951, the U.S. Government provided a loan to India of $190 million on easy terms for the purchase of nearly two million tons of foodgrains in the United States. The loan is to be repaid in 35 years at an interest rate of 2½ per cent. with no interest due for a year and no principal due for five years.

In addition, the U.S. Government at that time specially re-activated nearly 100 World War II Liberty-type ships for quick transport of the grain to India, as there was an acute shipping shortage at that time.

The Wheat Loan agreement also provided that the first $5 million of interest paid by India to America would be set aside in a special fund in the U.S. Treasury for the support of higher education in India and to a lesser degree in the United States.

Under the India Wheat Loan Educational Exchange Programme, Indian universities and other institutions of higher education and research in all parts of the nation are now receiving American books and scientific and technical equipment. There is also provision under the programme for professional visits to the United States by Indian scholars, professors and technicians and for similar visits to India by American specialists.

The programme began operation in June 1954, and is scheduled on a five-year basis, wherein approximately $4,000,000 worth of scientific and other academic resources are to be provided to India each year.

As the greater part of the programme is designed to rehabilitate and develop Indian universities and other centres of advanced study, the Union Ministry of Education has been made the co-ordinating agency for determining the best usage of these funds for supporting and supplementing the educational development

* It is calculated that in the three years (1957-1959) about Rs. 172 crores worth of U.S. farm surplus might be imported—about six million tons.

† A new loan was arranged in March 1958—150 million dollars from the Export-Import Bank and 75 million dollars from the Development Loan. See below for details.

pattern of the five-year plans. Each year the Ministry invites eligible institutions to submit their requests for assistance under this scheme, and, after consultation with the Wheat Loan Office staff as to the various projects, the annual Government of India proposal is forwarded to the American Embassy.

In the first year's programme (1954–55), 57 universities and research centres throughout India participated. Approximately 30,000 books were provided to 31 institutions and $411,275 worth of scientific equipment was ordered for 25 institutions. In addition, five medical research stations received specialised books and laboratory instruments for use in a project of Indo-American exchange of pathological tissue specimens. Also, 12 Indian librarians went to America for a five-month study tour, and one American specialist came to India to consult on plans for the development of the National Museum in Delhi.

The second year's programme provided approximately $500,000 worth of American books to humanities and science libraries at colleges and universities throughout India. Approximately the same amount of money was allotted for procuring scientific instruments for university laboratories and other research centres. In support of and in conjunction with these allocations for material resources, 12 Indian librarians and 21 Indian scientists made professional study tours of the United States. Two American scientists came to India to lecture and to conduct seminars in their fields of specialisation. By the end of the second year, the programme provided assistance to all of the 31 universities and to 37 non-university institutions in India.

The third year's programme will provide $375,000 worth of scientific equipment to the laboratories at 15 Indian universities and 4 non-university institutions. Approximately $325,000 will purchase books for libraries at institutions of higher education. In addition, $200,000 has been allocated for an exchange of persons project which has sent 24 Indian academicians to the United States for study of the General Education movement at American universities. In return, nine leading American educators have come to India to participate in the general education programme at certain Indian universities.

TECHNICAL CO-OPERATION PROGRAMME

U.S. governmental aid to India is channelled mainly through the Indo-U.S. Technical Co-operation Programme, which has been shaped to support the objectives of India's Five-Year Plans, and is now in its seventh year. The programme has expanded steadily and now includes a wide range of activities.

The essential purpose of the Technical Co-operation Programme is to make available knowledge, techniques, men and material of one country for the economic and social development of the other. The assistance given to India is mainly technical and developmental, and comprises a five-pronged approach:

1. The use of American technicians or experts who demonstrate new techniques or methodology under the various projects; 2. The additional training of Indian technicians abroad, who upon their return to India carry forward work already undertaken by American counterparts; 3. Procurements of demonstration equipment not available with India for pilot projects; 4. Payment of costs for contracted services; and 5. Substantial assistance in the form of foodstuffs, steel and capital equipment.

TYPES OF AID

In its present form the Indo-American programme dates from the signing of the general agreement between the Governments of India and the United States on January 5, 1952. Since then the two countries have signed agreements covering a total of 72 projects in support of India's First and Second Five-Year Plans. These projects have been developed by the appropriate Ministries of the Government of India, and approved by the Planning Commission and by the U.S. Technical Co-operation Mission (TCM), representing the International Co-operation Administration of the United States.

Contributions of the Government of India to the joint effort—rupee expenditures—are mainly in payment of local construction costs, project sites, transport and handling charges within India of American-contributed commodities, and finally, salaries of Indian personnel who work side by side with Americans on the jointly administered projects.

Where imported commodities such as fertilizer and iron and steel are sold within India (commodity or development assistance) the rupee proceeds are used to finance within India other projects of economic development. For example, out of the sale proceeds under the 1954 steel agreement, $15·7 million (Rs. 7·5 crores) was provided as part of the revolving fund for the Industrial Credit and Investment Corporation of India, an agency established to assist private industrial development.

Initial emphasis of the Indo-American programme was on agriculture, since this occupied top priority in India's First Five-Year Plan. Accordingly, commodity and technical assistance stressed such activities as community development, tube-wells, river-valley development, fertilizer and steel for agricultural implements. The emphasis has now shifted somewhat from earlier problems of food, over to the problems of industrial development and transportation.

With special economic aid funds available from 1954, transport and industry received major attention, with programmes for railway equipment, steel for railways and industry, for the Rihand hydro-electric development and increased electric power facilities in the city of Madras and the State of Rajasthan.

As of June 30, 1957, U.S. technical and economic aid obligations to India totalled $392·4 million. Obligation and Expenditure totals during each U.S. fiscal year (July 1 of the previous year to June 30 of the year given) are shown below. Totals reflect expenditures against both current and prior-year obligations:

	Obligations (Millions	Expenditures. of dollars)
FY 1952	50·5	1·2
FY 1953	40·1	27·4
FY 1954	76·8	28·4
FY 1955	78·9	57·9
FY 1956 .. .	80·5	81·3
FY 1957	75·6	58·7
Total	392·4	254·9

The following table gives a summary of data showing component elements of the Indo-American programme for the fiscal years 1952–57 (as of June 30, 1957):

Participants (Indian technicians)		
Covered by Contracts ..	$ 755,944	
Outside of Contracts ..	$ 2,421,121	
		$ 3,177,065
U.S. Technicians		
Covered by Contracts ..	$ 14,634,373	
Outside of Contracts ..	$ 14,321,936	
		$ 28,956,309
Commodities		
Covered by Project Agreements	$324,199,447	
Exclusive of Project Agreements	$ 35,999,122	
Total Commodities		$ 360,198,569
Grand total of U.S. Technical and Economic Aid		$ 392,400,000

Cost-Sharing

The Indo-American Technical Co-operation Agreement provides that programmes be mutually developed and projects established for which costs are shared by the U.S. Government and the Government of India. U.S. dollar financing normally covers foreign exchange costs whereas GOI rupee financing covers costs within India. While U.S. contributions to Indo-American project costs for the period from January 1952 to June 30, 1957 totalled $392·4 million, India's contributions for the same period totalled Rs. 3,700 million, or the equivalent of $755 million.

While the U.S. contributions to Indo-American projects derive exclusively from funds appropriated by the U.S. Congress, the Indian contributions derive from a variety of sources including: (1) sales proceeds of the American Wheat Loan of 1951, (2) sales proceeds of U.S. financed fertilizer, steel and agricultural commodities, and (3) regular development budgets of operating Ministries.

TECHNICAL SPECIALISTS

Technical specialists from the United States are brought to India on agreement between the Government of India and the director of TCM to assist development work in particular fields. Specialists may be assigned to agencies of the Central Government, to the States, groups of private concerns, of educational institutions, or to TCM.

Assignments range from a few months to two years and in various cases have been renewed for additional periods. Salaries and travel of the U.S. specialists to India are paid entirely from dollar resources available to the Indo-American programme. Since the technical specialists are recruited from regular work in the United States, the level of salaries is comparable to that for similar work in the United States.

Measured in terms of activities, American assistance is a composite of the agriculturist, the doctor, the educator, the industrialist, the railroad engineer, the chemist, the nurse and the social welfare worker. As of June 30, 1957, there were 230 U.S. men and women technicians in various fields working in India.

The following table gives the number of U.S. technicians in different fields assigned as of the end of each U.S. fiscal year:

Field of Activity	1952	1953	1954	1955	1956	1957
Agriculture & Natural Resources ..	33	42	29	34	53	91
Industry & Mining	9	24	29	49	49	61
Transportation	—	—	—	1	12	8
Labour	—	—	1	2	1	2
Health & Sanitation	3	5	7	8	12	22
Education	11	1	13	20	26	14
Public Administration	—	2	2	4	5	2
Community Development, Social Welfare & Housing	3	12	18	13	10	9
General & Miscellaneous	2	5	7	3	6	21
Total	61	91	101	134	174	230

INDIAN TECHNICIANS

Under the Indo-American programme, Indian technicians study in the United States and in other countries as well.

Since 1951 there have been 642 Indian participants in this programme who have either already been abroad or are in process. The nature of participant training is very broad and goes all the way from a two-week seminar in audio-visual techniques in the Philippines to an intensive 15-month academic study programme in electronics at a leading American university. Emphasis throughout these years has continued in the agriculture and natural resources fields, with industry and mining sharing almost equally in importance. The fields of health, education, labour and transportation are also represented in the Indo-American participant programme, as vital adjuncts to India's overall economic development.

As of June 30, 1957, 498 technicians had completed their advanced training in the United States and third countries, and returned to India to carry on work in their particular fields. Also, as of that date, 66 technicians remained in training in the United States and 78 technicians were in final process for further study there.

The following table gives data on Indian technicians participating in the programme:

Field of Activity	1951–52	1953	1954	1955	1956	1957
Agriculture & Natural Resources ..	38	45	54	15	30	49
Industry & Mining	34	25	24	17	53	23
Transportation	16	2	1	1	7	23
Labour	18	7	17	4	9	9
Health	26	37	8	3	14	1
Education	12	1	5	..	13	2
Public Administration	5	—	—	—	2	6
Community Development, Social Welfare & Housing	..	3	—	—	—	0
General & Miscellaneous	8	—	—	1	3	3
Total	157	120	109	41	131	116*

* Excludes participants covered by contracts.

INDIVIDUAL PROJECTS

The 75 project agreements under the Indo-American Technical Co-operation Programme signed as of June 30, 1957, cover the fields of agriculture and natural resources, industry and mining, transportation, labour, health and sanitation, education, community development, social welfare and housing, and public administration.

The American approach and interest in India's agricultural and natural resources development are based on the conviction that the United States can make its most effective contribution by helping in the solution of basic problems and the development of basic institutions. At mid-1957 a total U.S. commitment of $73,660,340 had been reached, under the following heads:

Fertilizer

Total U.S. Commitment to June 30, 1957—$25,267,973.

Import of fertilizer, largely ammonium sulphate, was agreed in 1952 to be a primary means of increasing agricultural production in India as rapidly as possible. Since the original project was set up, India's big Sindri fertilizer plant has become the main source of supply of ammonium sulphate for India's needs.

The Indo-American programme provided for the import of fertilizer for distribution to the farmers, the sale proceeds being credited to Fund B, for the acquisition from within India and from abroad of certain types of fertilizer for demonstration purposes and for a survey of Sindri leading to its expansion. A contract for carrying out this expansion has been entered into by the Government of India, in addition to making available the services of a chemical engineer who will work on research and development problems.

The 1952 and 1953 fertilizer programmes provided 215,000 tons of fertilizer. In 1954, the programme was confined to additional types of fertilizer to be tested under Indian conditions—5,000 tons of urea and 5,000 tons of ammonium sulphate-nitrate.

The 1955 programme provided for the import of 44,000 long tons of fertilizer including urea, ammonium sulphate, sulphate-nitrate and nitro-chalk (calcium ammonium nitrate). For the demonstration aspect of the programme, import of 14,800 long tons of fertilizer was provided for.

The programme for 1956 provided for 400,000 cultivator demonstrations, compared to 100,000 and 200,000 respectively in 1954 and 1955, to acquaint Indian farmers with the importance of phosphorus for crop fertilization. It also provided for approximately 4,250 tons of fertilizer for free distribution and another 50 tons for storage experiments. This brings the total amount of fertilizer under the Indo-American programme to approximately 287,300 long tons.

Soil Fertility and Fertilizer Use

Total U.S. Commitment to June 30, 1957—$472,304.

The original soil fertility and fertilizer use project, set up in 1952, was designed to extend the work already being done at various Indian research institutes. Several thousand agronomic field trials of fertilizer experiments are now under way all over the country. Data are being assembled by technicians of the Indian Council of Agricultural Research and Indian Agricultural Research Institute.

Expansion of the present soil survey zones, establishment of 16 soil laboratories in various States of India, establishment of soil physics laboratories at two existing States' soil laboratories, and use of a mobile soil testing laboratory were subsequently provided for. It has since been agreed that soil testing laboratories are to be established in eight more States.

The 1956 programme provides for the additional procurement from outside India of soil testing, soil conservation and audio-visual equipment, books, publications and chemicals.

Locust Control and Plant Protection: The locust control project under the Indo-American programme has supplied jeeps and other vehicles, power sprayers, wireless communication sets and other equipment to augment what is already available. Originally covering locust control only, the project has been extended to cover other forms of plant protection, and a supplement during 1954 provided for fumigants for a demonstration programme on protection of grain in storage.

Total Commitment to June 30, 1957:

U.S., $631,160.

Fisheries

Total U.S. Commitment to June 30, 1957—$2,785,032.

The original fisheries agreement provided for the initial purchase of three trawlers, small diesel engines to equip small fishing craft, and for the overhaul of trawlers already in use. Later recognizing that inland waters, particularly lakes created by river development projects, would provide other sources of fish for markets, a supplement to the original Fisheries Agreement provided for procurement of equipment necessary to develop inland fisheries also.

Continuing aid in 1956 provided 20,000 pounds of nylon twine and nets to be sold, leased, or given to fisheries' co-operatives; seven audio-visual units; six jeeps; two sets of films on fisheries: scientific equipment for establishing a fisheries technological station on the west coast, and four purse-seine fisheries experts, as well as additional technical services for further improvement of the fisheries industry in India.

Ground Water Irrigation (Tubewells): Under the Indo-American programme, 2,650 tubewells were approved for construction in Uttar Pradesh, Bihar, Punjab and construction work began late in 1953. With the addition of 350 wells in 1955, the Indo-American programme now includes 3,000 tubewells.

Contracts for the construction of some of the wells were let to an American, a German, a British and a French firm; and the States of Uttar Pradesh, Punjab and Bihar received equipment for constructing some of the wells departmentally. Dollar aid is used for technical assistance as well as for specialised equipment needed for the programme.

Total Commitment to June 30, 1957:

U.S., $18,675,480

Ground Water Exploration: Under the Indo-American programme, a ground water project was set up in 1953 to drill 350 exploratory wells and collect hydrological data in 16 areas where usable supplies of ground water for irrigation are believed to exist but where there is insufficient data upon which to plan sound developments.

Drilling operations have been under way since January 1955 under the Exploratory Tubewell Organisation in the Ministry of Food and Agriculture, with the assistance of the Geological Survey of India and U.S. technicians.

In addition to technical assistance, dollar aid under the Indo-American programme has been spent on scientific field and laboratory equipment, as well as drilling equipment to be used in the exploratory projects.

Total Commitment to June 30, 1957:

U.S., $3,94,949.

Water Resources Survey and Minor Irrigation

Total U.S Commitment to June 30, 1957—$465,000.

Under this project it is proposed to assist in the development of a systematic, integrated approach towards the full utilisation of water resources with emphasis on minor irrigation. An overall survey of areas in the States of Andhra Pradesh, Madhya Pradesh and Bombay is being undertaken in order to collect basic data on rainfall, stream flow, underground water, etc. An appraisal will then be made of the total water and soil resources of water sheds or similar areas. The project is to demonstrate the development and application of necessary survey data for other areas of India through the planning and construction of selected, properly designed, minor irrigation works.

Dollar aid will be used to purchase equipment and supplies outside India for use in surface water studies, including current meters, sounding reels, sump pumps, casing pipe, heavy earth moving equipment, etc.

Agricultural Machinery Training

Total U.S. Commitment to June 30, 1957—$109,273.

To provide a centre where operators and mechanics can be trained, to demonstrate proper methods of utilising agricultural equipment and to test the suitability of various types of machinery under Indian conditions, a pilot training and demonstration centre has been set up.

Dollar funds will provide various kinds of machinery and shop equipment for the training centre. Agricultural machinery specialists requested by the Government of India also will be obtained.

Modern Storage of Food Grains: The Indo-American programme in 1954 set up a demonstration programme to provide two 10,000-ton capacity silos with elevators to handle grain in bulk. The project will permit studies in aeration, drying, disinfestation, and other techniques of this form of storage.

Experiments also will be conducted with prefabricated metal storage facilities which can be set up on short notice and which can be moved from one part of the country to another in times of emergency. Storage facilities of this type under the programme will take care of approximately 50,000 tons of grain.

A 1955 supplement to this programme provided equipment for the purpose of reducing grain damage caused by high moisture content, and dust and other foreign particles. The pilot and demonstration equipment provided under the programme is expected to assist in improving methods for handling and storing grain in the future.

Technical assistance provided under the programme includes the services of a grain storage expert, an agricultural engineer and an entomologist. Provision is also made for officers of the Union Ministry of Food and Agriculture to study grain storage in the United States.

Total Commitment to June 30, 1957:

U.S., $1,433,660

Village Worker Training: Before the broad programme of rural development embodied in Community Projects got under way in 1952, training of village workers had begun at five training centres set up by the Government of India, the States and the Ford Foundation.

Twenty-five additional training centres followed soon afterwards, with the Ford Foundation providing full operating expenses for a two-year period, and with the Indo-American programme furnishing vehicles, training aids, agricultural demonstration equipment and other supplies. American agricultural extension specialists have worked with the training centres helping the staff train the village workers who in turn carry better agricultural techniques to the farmers of India. At present there are 43 training centres and they have trained more than 5,000 village workers who are on the job in Community Projects. More than 600 supervisory personnel also have been trained.

Courses have also been set up in 25 existing training centres to train women in home economics extension work. Instructors receive part of their study course in India, part in Japan. New courses in farm leader training also have been introduced, and instructors are being sent to Denmark to study in the Danish folk schools, famous for their contribution to improving farm life.

The 1955 programme provided instruction facilities, equipment and supplies for 97 such basic agricultural schools as well as 16 additional training centres, and 16 additional home science wings to be attached to training centres.

The 1957 programme makes available funds for the acquisition from outside India of books; demonstrational supplies and equipment for the training centres, for financing motion pictures and film strips to be locally produced, the services of 24 extension specialists plus the training of 12 Indian extension personnel.

Total Commitment to June 30, 1957:

U.S., $1,036,208.

Livestock Improvement

U.S. Commitment to June 30, 1957—$329,003.

In addition to technical assistance and training opportunities abroad in animal disease control, this project will furnish pilot and demonstrational biological production equipment for the Biologic Products Division of the Indian Veterinary Research Institute. This project is associated with the work of FAO in India, which is at present concentrating on the production of a dried rinderpest vaccine and its use through a country-wide rinderpest eradication programme.

Under this programme, funds are provided for acquiring from outside India demonstrational and training equipment and the services of five experts in animal nutrition, poultry husbandry, etc. Two Indian personnel are also to be trained abroad.

Agricultural Education and Research: Agricultural research and agricultural education institutions at the college level in India are filling a vital need in training leaders and technicians. From more than 20 such colleges about 1,250 students are graduated each year. Many of these institutions do not have adequate laboratories or classroom and training equipment.

A number of institutions devoted primarily to agricultural research was assisted under the programme in 1954, and previous years, by the provision of more complete field, laboratory, classroom and training equipment, books and journals. Provision was also made for the interchange of staff personnel and advanced students between agricultural institutions in India and the United States.

In the 1955 programme further provision was made for equipment as well as the interchange of faculty and students with emphasis upon a regional programme. On this basis five United States land grant colleges and universities accredited to the Ministry of Agriculture—Kansas State College, Ohio State University, University of Illinois, University of Missouri and University of Tennessee—each cooperates with the agricultural institutions in a particular region in India to carry out an interchange of selected faculty and students, provide supporting and advisory services, as well as assist in procurement of equipment and supplies under the programme.

The 1956 programme provided for expanding the Kansas State College contract, and additional funds provided to the Universities of Missouri and Tennessee will make possible the establishment of post-graduate training courses at the Indian Veterinary Institute and the National Dairy Research Institute. Eight training grants will be given to Indian technicians for further study abroad and the services of five veterinary professors will be provided for assignments with veterinary colleges in India. Other technicians' services will be provided as needed.

Total Commitment to June 30, 1957:

U.S., $ 5,390,542.

Agricultural Information Production and Training: The provision of technical assistance, equipment and supplies in connection with the All-India Agricultural Information Programme is the main purpose of this project.

Approximately 15,000 village extension workers, plus additional extension workers in specialised fields such as home science, were at work in Community Projects and National Extension Service Development blocks by March 31, 1956. This project is to supply simple reference materials, audio-visual production and teaching aids to relay information on the latest findings in agricultural research and experience to these extension workers as well as cultivators.

Support is also being given to the Indian Council of Agricultural Research to enable the Council to perform its key role in the programme, which includes organization of national workshops, establishment of regional training courses and preparation of extension material.

Total Commitment to June 30, 1957:

U.S., $199,853.

Agricultural Economic Research: As agriculture is by far the most important means of livelihood in India, special steps are being taken to develop research in the field of agricultural economics in order to increase production and raise the standard of living of the people.

The Government of India has established four agro-economic research centres and six farm management centres which will specialise in agricultural research and farm management studies respectively and encourage research.

This project is to provide further technical assistance, training opportunities, equipment and supplies to assist in developing and implementing work in various aspects of agricultural economics, and particularly to assist in the research programme noted above in farm management and economics of agriculture. Such equipment as calculators, card punching, tabulating and verifying equipment and books on agricultural economics, will be provided from outside India for the use of the research centres.

The 1956 programme was to provide training facilities in the U.S. for an Indian production economics specialist and an agricultural production economist.

Total Commitment to June 30, 1957:

U.S., $104,891.

Pilot Project on Production, Processing and Marketing of Citrus Fruits

U.S. Commitment - $14,340.

The present project is intended to assist in the development of co-operative techniques in the production, processing and marketing of citrus products in India in the light of American experience.

Provision was made for the training of one Indian at post-graduate level in the improvement and standardisation of citrus culture, citrus research, and allied horticultural problems.

Crop Production and Development

U.S. Commitment—$83,052.

Extensive experience in the United States, Mexico and Italy with hybrid seed, accompanied by increased fertilisation and better cultural practices, has shown that increases in maize yields of up to 100 per cent are possible in India.

Although testing of hybrids has been undertaken in India at several places under the auspices of the Indian Council of Agricultural Research, the limited quantity of hybrid seed available has hindered research and developmental efforts.

This Indo-American project, initiated in 1955, is designed to support the compilation of comparative data on both grain and fodder yields, the study of the adaptability of varieties, and the determination of the best dates of planting and the best methods of culture and fertilisation. Dollar aid will be used to acquire moisture testers, corn planters, two-row cultivators, foundation stock seed and double cross seed from outside India.

Under the 1956 programme, hybrid corn and crop seeds were supplied free of charge to selected flood-stricken areas for a mass demonstration of the potential hybrid corn production in the Punjab and for demonstrating improvement of grass-lands in the hills of the Punjab and other areas. In addition, a sugarcane clone collection will be established at Coimbatore, and equipment and books supplied to the Central Rice Research Institute.

Calcutta Milk Supply Scheme

U.S. Commitment—$340,000.

Under the Indo-American programme financial assistance has been provided towards the cost of establishing a milk pasteurising and processing plant in Calcutta having a capacity of 500,000 lbs. Also, technical assistance has been provided to assist in the training of Indian technicians in the operation of the processing plant.

Dairy Development

U.S. Commitment to June 30, 1957—$575,000.

Under this project the U.S. is assisting India in its effort to increase and improve the quality and supply of milk and milk products, improve diet, afford additional income to the farmers, help stabilise prices by providing milk processing plants for the availability of dried milk, and extend the market area.

The U.S. is providing technicians to advise Indian Government officials and train personnel on the practical aspects of dairy herd management, dairy processing plant operation, and the marketing of dairy products.

Pilot demonstrational and training equipment for one milk processing plant and associated rural collection centres, three rural creameries and several co-operative milk union plants will also be provided.

INDUSTRY AND MINING

American aid is directed to those aspects of industrial and mineral development in India where technical and commodity assistance could best serve India's need. During the 1952-56 period, approximately 29 per cent of all United States assistance to India—$91·7 million—was spent to assist to the maximum extent possible India's own efforts in the field of industrial and mineral development. Project agreements in this field are:

Iron and Steel for Agricultural Purposes

U.S. Commitment to June 30, 1957 - $19,839,227

It is the intent of this project to further production of improved farm machinery and implements in India. There are at present a number of factories which produce the latest types of farm machinery, but only a portion of their total capacity is being utilized because of the acute shortage of iron and steel.

In order to partly meet these deficiencies, this project has acquired from sources outside India a total of 135,000 long tons of iron and steel. Iron and steel imported under this agreement has become part of the steel pool of India for distribution to blacksmiths and farmers as well as to farm implement factories.

Forest Research: The forest research project under the Indo-American programme is supplying various types of testing and laboratory equipment, of latest design, for use at the Forest Research Institute in Dehra Dun. Machinery and consulting services are also being supplied for completion of a pulp and paper mill.

Total Commitment to June 30, 1957:

U.S., $607,010.

Building Materials Development

U.S. Commitment to June 30, 1957—$196,817.

This project supports the work being carried on at the Central Building Institute at Roorkee, Uttar Pradesh, with the addition of laboratory and pilot plant equipment. This is for experimentation with indigenous materials, with a view to the ultimate establishment of a pre-mixed plaster industry in India.

This project will consist of a Soil Engineering Laboratory, the Concrete Engineering Laboratory and a Structural Engineering Laboratory, as well as a pilot plant for preparing light-weight aggregates and cement asbestos sheets.

River Valley Development

U.S. Commitment to June 30/1957—$9,275,844.

This project is designed to provide technical assistance and heavy equipment required for the river valley development programme. In addition, two training centres for operators and mechanics have been established to help cope with the problem of efficient utilization and maintenance of construction equipment.

Heavy equipment under this project started arriving in May 1953. At Hirakud Dam, power shovels, crawler type tractors, air compressors, dump trucks, road scrapers and other equipment are in operation. Similar equipment has been supplied for the Kakrapar, Mahi and Gangapur projects in Bombay State, Ghatprabha and Tunga Anicut in Mysore, Jawai project in Rajasthan, Chambal in Rajasthan and Madhya Pradesh, Pathri power-station in U.P., and for several projects in Saurashtra.

American engineers and river development specialists, requested by the Government of India, work with Indian counterparts of the Central Water and Power Commission. An American engineering concern working on the Damodar Valley development is also under a contract provided for under the Indo-American programme.

In the 1956 programme the United States has made available two large dragline excavators for the Chambal project, together with a factory trained erector to supervise their assembly, and two operators and one mechanic to train Indian personnel in dragline operation and maintenance.

Rihand Valley Development: Development of the Rihand River Valley in eastern Uttar Pradesh will make possible the irrigation of possibly two million acres of land in U.P. and Bihar through power for tubewells and by direct use of canal waters.

Total cost of Rihand development is some $95 million, with 47 per cent of this in foreign exchange costs. The Indo-American programme is assisting in the first phase of the project which includes construction of the dam, the initial power plant and switchyard installation, and a major portion of the transmission system. The U.S. contribution includes both economic and technical assistance funds.

Total Commitment to June 30, 1957:

U.S., $6,413,017.

Exploratory Lignite Excavation and Development: The State of Madras requires about three million tons of coal a year, but for the past several years it has been able to bring in less than two million tons. Yet the South Arcot district has a one-hundred square mile deposit of lignite or "brown coal". Estimated reserves run to 2,000 million tons.

Various exploration efforts have been under way since 1945, and from October 1951, to June 1955 Paul R. Eyrich, lignite engineer from the U.S. Bureau of Mines, worked in company with Indian mining engineers and geologists assembling data. Investigations in 1953 reached the stage where the Indo-American programme set up an exploratory excavation project, to determine the costs of mining and the most practical manner of utilising the lignite deposits. The experimental excavation has been under way for several months, with power shovels and other equipment supplied by the Indo-American programme.

Under the 1955 supplement, a pilot processing plant, a power plant, laboratory equipment, technical reference books, and other supplies and equipment were provided for as well as funds for additional technical services.

Total Commitment to June 30, 1957:

U.S., $651,322.

Augmenting Steel Supply

U.S. Commitment to June 30, 1957:

$43,100,988.

The shortage of steel is a major obstacle to the attainment of India's economic development objectives. Whereas the normal annual production is approximately 1·1 million tons, the estimated annual demand is 2·3 million tons. The United States has recognized that if economic development is to succeed in India the capacity for steel output must be increased. In the interim period U.S. assistance has provided for the import of 135,000 long tons of steel for agricultural purposes.

Under this agreement approximately 336,345 additional long tons of steel will be made available to India for use by Indian Railways, by steel processing industries such as ship-building, for the manufacture of hospital equipment, oil drums and containers, pipes and tubes and industrial machinery, and for requirements of river development and some additional agricultural purposes.

Heavy Equipment Training: For its river development projects India acquired a great deal of heavy equipment—tractors, dump trucks, shovels, graders, crushers, scrapers and the like. Both American and Indian technicians have recognised that more thorough training of operators and maintenance crews is necessary, and two heavy equipment training centres are being established—one at Hirakud Dam, in Orissa, the other at Kotah in Rajasthan, near the Chambal project, each to train at least 40 operators and mechanics a year.

Dollar aid under the programme is for heavy equipment to be used in training as well as for technical specialists.

Total Commitment to June 30, 1957:

U.S., $682,000.

Improvement of Rajasthan Power Facilities: The programme aims at meeting a particular shortage. Equipment will be obtained to renovate and augment 19 thermal stations in the State of Rajasthan and to extend transmission and distribution lines. A total of 20,000 killowatts of generating capacity is to be installed.

Total Commitment to June 30, 1957:

U.S., $1,065,000.

Industrial Research and Technical Service Organisations: To strengthen research organisations and technical service departments under the Ministry of Scientific Research, a programme for supplying technical assistance and essential items of equipment was drawn up in April 1954.

The National Physical Laboratory at New Delhi has received electronic and other precision testing instruments; the National Chemical Laboratory at Poona has received library and laboratory equipment and microfilm equipment. Pilot plant and other equipment has been provided for the Fuel Research Institute at Jealgora. Special equipment and training of engineers are provided for the Central Electronic Engineering Research Institute at Pilani.

The Geological Survey of India is to be assisted with geophysical, petrological and mineralogical equipment for its laboratories; the Survey of India with photogrammetric equipment for making maps, and the Bureau of Mines with equipment for handling low-grade manganese ore and chrome ore.

The 1955 supplement to this programme provided for additional technical assistance, equipment and supplies to the following research organisations: Leather Research Institute, Central Glass and Ceramics Research Institute, Central Food Technological Research Institute, Central Drug Research Institute, National Chemical Laboratory, and Physical Research Laboratory.

Total Commitment to June 30, 1957:

U.S., $2,356,592.

Flood Control

U.S. Commitment to June 30, 1957—$187,000.

This project provides assistance in the design and construction of major and minor flood control works in India. Financial support from the United States is used to cover technical assistance, and to meet offshore costs of equipment, including fully equipped motor launches for measuring speed of current and depth of flood waters, and helicopter services for observation and supply purposes.

Electrical Distribution Systems Maintenance Training Centres: Under this project it is proposed to establish centres in India for the training of workmen in "hot line" maintenance of electric lines in order to reduce the number of interruptions to service. Equipment to be provided at each centre under the project includes basic "hot line" tools, service vehicles and other instruction and demonstration equipment. Instruction will first be provided in the fundamentals of routine line maintenance and thereafter in "hot line" maintenance. These centres will also provide training in advanced techniques and demonstrate new tools for routine line maintenance. U.S. aid will provide specialists in "hot line" maintenance and routine line maintenance to provide instruction and advice at the training centres.

Total Commitment to June 30, 1957:

U.S., $290,373.

Industrial Technical Services

U.S. Commitment to June 30, 1957—$2,299,161.

Technical assistance has been provided to India's industrial progress by making available under the Indo-American programme productivity teams and individual experts who will assist in production technology, quality of production and industrial management. They will function among such industries as the textile, steel, cement, blocksmelting, well-drilling tools and equipment, and foundry industries.

The United States assistance also includes provision of supporting equipment, supplies and technical literature. Other assistance includes provision of training opportunities abroad and the establishment of a technical and visual aids library and a technical information unit in the Ministry of Commerce and Industry.

The 1956 programme made provision for additional specialists to aid in overcoming insufficient management and productivity skills, as well as providing mobile blacksmith and machine shop vans for demonstration purposes.

Rural Electrification

U.S. Commitment to June 30, 1957—$3,000,000.

The objective of this programme is to assist in the development of rural electrification in India by providing foreign exchange funds for purchase of materials not now available within the country. Approximately eleven million rural people will receive electric service under this project.

Tubewell Casing

U.S. Commitment to June 30, 1957—$2,000,000.

The Indo-American programme of 1952 and 1953 included financial and technical assistance to the Central and State Governments for the construction and powering of 3,000 tubewells.

Subsequently, 3,600 wells were allotted by the Central Government under the Second Five Year Plan. In 1956 Indo-American aid consisted of supplying water well casing pipe for an estimated 2,000 wells at a cost of $2 million, bringing the total aid amount for a five-year period to $21,530,000. The pipe has been allocated for the construction of wells in Uttar Pradesh, Bombay, Punjab and Bihar.

2,000 wells will provide supplementary irrigation to approximately 600,000 acres of land and are estimated to increase food-grain production by about 150,000 tons annually.

Steel Casting Foundry

U.S. Commitment to June 30, 1957—$1,341.

The establishment of a foundry for the manufacture of large steel castings in India was essential if Indian locomotive production was to be expanded to meet the railway targets of the Second Five-Year Plan.

Accordingly, the Government of India is to establish a steel foundry at Chittaranjan, West Bengal, as an ancillary project to the Chittaranjan Locomotive Works for the manufacture of steel castings: mainly locomotive underframes, twin steam cylinders, and manganese steel railway crossings and points. Heavy steel castings, all of which are now imported to India, are the main current bottleneck in locomotive production.

U.S. assistance to this project consisted of demonstration equipment.

Irrigation Research Institute

U.S. Commitment to June 30, 1957—$85,200.

Under this agreement, the U.S. will provide technical equipment and advice and information for the installation and operation of a modern construction material research laboratory and materials testing laboratory, and for the expansion of the present hydraulics laboratory at Roorkee for the Uttar Pradesh Irrigation Department. American assistance will cover, apart from the equipment, the services of a technical expert for at least one year to advise and assist in the installation of the laboratory equipment and to instruct Indian personnel in its use.

Small Industries Development

U.S. Commitment to June 30, 1957—$746,633.

Under this project the United States will contribute various items of basic machinery and equipment not available in India for the training and demonstrational units of the Delhi Industrial Estate. The United States will further make available, under contract, the services of six technical men who will advise on the planning, layout and equipment required for the pilot production and development centre; they will also advise and assist in the development of plans, programmes and construction specifications necessary for the establishment and initial operation of the component units of the Delhi Industrial Estate.

Training facilities are also provided for an Indian technician to study vocational and industrial training techniques in the United States.

Water Resources and Power Development

U.S. Commitment to June 30, 1957—$164,000.

This project is intended to assist the Central Water and Powder Commission in keeping abreast of the latest technical developments in this field.

TCM will provide funds for procurement in the United States of technical publications, documents and reports for the use of the Commission. In addition, the services of eleven engineers from abroad will be made available to the Commission. Provision is also made for the training in the U.S. of Indian personnel in engineering fields. Under another project, $100,000 is provided for technical and engineering advisory services to the Central Water and Power Commission.

Telecommunication Development

U.S. Commitment to June 30, 1957—$106,392.

The Posts and Telegraphs Department of the Government of India, Ministry of Communications, is now establishing a Telecommunication Research Laboratory to carry out design and other development research work. This project will provide assistance in the form of a nucleus of modern laboratory-type precision testing and measuring equipment for line communication systems, technical books and publications for reference purposes, and a telecommunication engineer to assist in the organization of this unit, setting up the laboratory and training research personnel.

Industrial Design

U.S. Commitment to June 30, 1957—$162,800.

The Regional Small Industry Institutes provide an extension type of advisory services to small industry in India. Industrialists in this field can obtain technical advice on such problems as production, materials, marketing and engineering.

Under this project, one industrial design specialist will be assigned to each of the initial four Regional Institutes of Delhi, Bombay, Calcutta and Madras. The specialist will evaluate local production and develop new product designs in the light of production plans, and recommend materials and distribution methods for both small industries producing mainly for internal consumption, and handicrafts producing mainly for export.

TRANSPORTATION

The urgency of helping India to resolve her transportation problems has influenced the support given by the United States for this purpose. Approximately 19 per cent of total U.S. aid given to India in the years 1952–56 was for the modernisation and expansion of her surface transport facilities. Of the $65·6 million made available for improvement of railway and aviation facilities $63 million has been apportioned for the import of new equipment to replace uneconomic, outmoded equipment; for the import of semi-finished steel products necessary to augment India's present allocation of steel for railroad purposes; and for the services under contract of a Railway Survey Team which will supplement the efforts of India's own Railway Board. Project agreements in the transportation field are:

Railway Rehabilitation and Expansion

U.S. Commitment to June 30, 1957—$78,088,742.

The railway rehabilitation project under the 1954 Indo-American programme provided for the purchase by India of 100 new locomotives, 2,500 broad gauge freight cars and 2,500 meter gauge freight cars. An additional $7,975,000 was made available by the United States Government to offset the excess cost of railway equipment procured in the U.S. under 1954 funds, but not formally covered by a project agreement.

Under the 1955 programme the U.S. provided approximately another 3,700 freight cars. Altogether the Indo-American programme will have added 8,730 freight cars and 100 locomotives to the Indian railway system.

Additional technical assistance is making possible an extensive survey of the Indian railways to suggest immediate as well as long-term recommendations necessary to meet the increasing pressure on the present inadequate system.

A study has also been made of how to achieve optimum capacity as well, by increasing certain basic capital expenditures over a five to ten-year period.

A second survey has been undertaken into the economic feasibility of utilizing combined rail-sea shipment of bulk commodities, thereby relieving pressure placed on the railway system caused largely by increasing coal traffic.

In addition to supplying locomotives and freight cars, United States assistance in 1956 provides from outside sources 255,000 tons of steel and 4,000 tons of rails for the expansion and rehabilitation of Indian railroads.

Expansion of Aviation Ground Facilities

U.S. Commitment to June 30, 1957—$2,517,751.

Radio teletype facilities established under the Indo-American programme have permitted the decommissioning of the much slower, manually-operated radio corresponding telegraph circuits.

The project has provided additional assistance for modernization and expansion of telecommunication, navigational and meteorological aids. This includes installation of 10 duplex radio teletype network terminals, one ground-controlled approach radar (GCA) facility for handling traffic in bad weather at Bombay, and at least 10 very high frequency semi-directional range (VOR) facilities for use as short-range navigational aids. A storm warning radar system has been provided at Calcutta for use by the Indian Meteorological Department.

Subsequently, it was proposed to provide modern electronics equipment for the Civil Aviation Training Centre at Allahabad in order to ensure that personnel receive training in the same type of equipment they will later have to maintain. It is expected that 200 Indian technicians will receive training at this Centre. Training opportunities in the United States will also be made available for five Indian personnel in flight inspection, electronics engineering and air traffic control.

Civil Air Transport

U.S. Commitment to June 30, 1957—$33,500.

Under this project, designed to improve Air India International, an executive of broad experience in the general management and operations of an airline is to be furnished for a four-month period and a specialist in stores and inventory management for a six-month period to examine the management, organization and operations of Air India International and make recommendations for improvement.

As a result of the recommendations to be made by the specialists, the United States may, on request, furnish additional technical assistance during a one to three-year period in order to ensure that the development of operations is on high standard, long-range basis and that adequate co-ordination is established between the various AII departments. A programme for development and training of management and supervisory personnel will also be considered; as well as the studying and improving of aircraft maintenance and utilization leading to improvement of operations in the stores department.

LABOUR

The Labour Division of the U.S. Technical Co-operation Mission is co-operating with the Government of India in the labour field by providing the services of American experts to work with officials of the Union Ministry of Labour, by sending Indian experts to the U.S. for study, and by supplying necessary commodities and equipment for use in India.

Specific projects have included assistance to the Central Labour Institute, programmes designed to improve the vocational training system and to train foremen for industry; studies in the field of industrial health, and union leadership training schemes.

Central Labour Institute

U.S. Commitment to June 30, 1957—$96,401.

This project is assisting the Central Labour Institute in Bombay, to promote industrial efficiency and increased productivity by encouraging improvement in the safety, health and welfare of industrial workers.

The Institute has a centre of visual demonstration, an industrial hygiene laboratory, a library and information bureau, and provides facilities for training. It also can serve as a meeting ground for government, management and labour groups, and provide a hostel for 25 students.

U.S. funds are being used for exhibits, equipment and apparatus for the laboratory, technical books and other supplies and equipment.

Trades Training: The Central Government and States of India have established over 570 training centres which are training annually 35,000 workers.

It is planned under the Indo-American programme to assist in co-ordinating, re-equipping and improving the standards of performance of existing centres for the training of skilled workers in the basic industrial and construction trades.

Nine key instructors went to the United States for a year's training which included a course at Cornell University, followed by training at industrial plants in the United States. These key instructors will train other instructors for India's training centres. The United States will provide a trades training expert and also other technical assistance as required under this project.

The Indo-American programme also provided among others, the following types of equipment for instruction purposes: electrical apparatus, construction equipment, lathes, drills, presses and other machine tools, metal working machinery, automotive repair and maintenance equipment, and such scientific and professional equipment as planimeters and small electric oven furnaces.

In addition, the 1956 programme provided for the contract services of a trades training adviser and for the initial funding of a contract by which 10 expert craftsmen are to be made available for setting up the second instructors' training institute.

Total Commitment to June 30, 1957:

U.S. $ 650,000.

Thermal Environment

U.S. Commitment to June 30, 1957—$15,137.

Indo-American studies in industrial hygiene were first undertaken in 1951-53. In continuation of these studies, the 1955 project provided for investigations, demonstrations and training in the measurement and regulation of the thermal environmental conditions of workers, with special reference to the textile industry.

Special laboratory equipment was installed at Ahmedabad to assist in detailed investigation of thermal environmental conditions in basic industries in various parts of India. These investigations sought to draw a relationship between thermal environment and physiological and other effects on workers and on their productivity, with a view to determining standards of industrial hygiene and efficiency ranges. Reduced labour turnover and increased production are among the other results expected. Dollar aid was used for special equipment and supplies to be used for testing purposes.

The programme also provided for additional special equipment and the services of an industrial hygienist and thermal environment consultant.

HEALTH AND SANITATION

Malaria control offers the best example of the results of Indo-U.S. teamwork in this field. The National Malaria Institute has announced that in 1955 there were more than half a million deaths and over 50 million cases of malaria *prevented* by the control programme.

In the fields of water supply and sanitation, medical education, nursing education, filaria control and health education, co-operative programmes are well under way, and although the results cannot be so clearly measured as in the malaria programme, they are all contributing heavily to building a strong, healthy people that will be the basis for a prosperous, stable nation. Projects under this category include:

Malaria Control

U.S. Commitment to June 30, 1957—$28,033,143.

The National Malaria Campaign involves the organization of control units. In the first three years of the Indo-American programme 125 units were organized, each extending protection to one million persons. The 1955 addition to the programme raised the number to 186 control units.

The 1956 programme provided for the establishment of 64 more units to cover a population of 200 million people. It is proposed to acquire from outside India 10,000 long tons of DDT powder, 200 tons of dieldrin powder, 240 trucks and 64 jeeps to meet the needs of the 64 new units as well as meeting the continuing insecticide requirements for the control units now in operation.

National Water Supply and Sanitation: After malaria, the outstanding health problem in India is the group of diseases which are water-borne or filth-borne. These include cholera, dysentery, typhoid fever and others. At present only six per cent of the total population of the country is served by adequate piped water.

For more than two years, American and Indian health authorities have been working out the details of a national programme. Plans were developed to improve water supplies and sanitation in some 10,000 villages and 25 municipalities during the first Five-Year Plan, with the expectation that a much more comprehensive effort can be undertaken by the Government of India and the States in the Second Five-Year Plan.

Dollar aid has been used to buy pumps, well drilling rigs, trucks, jeeps, air compressors, well casing, galvanised iron pipe and cast-iron water pipe. The 1955 programme provided for additional equipment, training facilities and technical services with stress on the demonstration phase of the programme.

The programme provides for continuing aid in purchasing over 8,000 tons of cast-iron pipe.

Total Commitment to June 30, 1957:

U.S. $6,376,532.

Medical Colleges and Allied Institutions: Under this project such equipment as spectrophotometers, centrifuges, incubators, blood cell calculators, ultimate analysis apparatus, vacuum ovens, extraction apparatus, sterilizers, microscopes, X-ray and other laboratory, hospital and research equipment is obtained to assist in teaching and research on diseases constituting basic health problems affecting economic development.

Classes of institutions to be aided include medical colleges, research institutes, schools of nursing, and institutions which have courses in public health engineering.

Under the 1956 supplement to the agreement, additional technical assistance, training opportunities, equipment, and supplies were provided for colleges and allied institutions.

Total Commitment to June 30, 1957:

U.S. $909,114.

Health Instruction Training Centres: The importance of training in basic public health, and of health education for instructors at village worker training centres, as well as for others dealing with health programmes in Community Projects, is recognised in a programme for setting up three health instruction training centres.

The programme was developed by the Ministry of Health of the Government of India, with the Ford Foundation and the Technical Co-operation Mission. Three health instruction training centres, are being established at Poonamallee in Madras State, Singur in West Bengal, and Najafgarh, Delhi State.

Under separate agreement, Ford Foundation made available $353,105 for construction of hostels and residential accommodations for the staff and for full operating expenses for two years, one-half of such expenses during the third year and one-third during the fourth year.

Funds available under the Indo-American programme supplement this effort with necessary equipment and supplies for the health instruction centres, such as personnel carriers, audio-visual aids, teaching materials and other equipment.

Total Commitment to June 30, 1957:

U.S. $27,556.

Control of Filariasis: Under this project assistance is provided for the development of a nucleus for a nation-wide filaria control programme to be implemented under India's Second Five-Year Plan. Objectives are reducing substantially the incidence of filariasis by providing treatment to infected persons, protecting people in endemic areas, and finally stopping the spread of the disease to new areas. It is estimated that the initial programme will provide protection to approximately four million people living in hyper-endemic filarious areas.

The U.S. has already assisted in expanding the facilities of the National Malaria Institute to enable it to provide training facilities, consultation services, research facilities and overall direction of the programme, as well as setting up 13 control and 22 survey units in 12 States. The initial survey stage has now been extended and the number of control units will be increased by 35 to 48.

The U.S. will make available additional insecticides for the 13 existing units, and insecticides, drugs and equipment (including station wagons, jeeps and microscopes) for 13 of the 35 new control units to be established. The services of a public health engineer and an entomologist will also be made available under this project. Added training facilities for Indian technicians in parasitology and entomology will aid further in the fight against filariasis in India.

U.S. Commitment—$2,435,700.

EDUCATION

The TCM is actively assisting India in the gigantic programme of reorienting, strengthening, and expanding education in India, focussing emphasis upon leadership education through demonstration, teaching and guidance, developing research programmes and extension services. Projects in this field are:

Technical Education Institutions: Technical assistance and essential items of equipment will be provided for the Indian Institute of Technology, Kharagpur, to facilitate the training of increased numbers of engineers and technologists, at post-graduate level, needed for India's industrial development.

The Indo-American programme already is financing the exchange of faculty personnel between the Indian Institute of Technology and the University of Illinois in the United States.

Inter-institutional arrangements have also been in effect between the University of Wisconsin and the Bengal Engineering College, Indian Institute of Science, Roorkee University, Indian School of Mines and Applied Geology, Birla Engineering College, and the Bihar Institute of Technology.

A 1955 supplement to this project provided for extension and expansion of the inter-institutional arrangement between the University of Illinois and the Indian Institute of Technology. It will further strengthen and activate instruction and research in the field of engineering at Roorkee University through an arrangement with the University of Illinois.

The services of specialists totalling 22-man years, and training in the U.S. for a number of Indian staff members have also been provided for.

Total Commitment to June 30, 1957:

U.S. $3,499,364.

Home Science Education and Research

U.S. Commitment—$683,000.

This project is assisting selected Indian institutions by providing home science specialists, interchanges of staff personnel and advanced students between home science institutions in the United States and India, as well as special equipment and supplies for classroom and laboratory purposes.

Secondary School Teachers

U.S. Commitment—$1,529,000.

A contract will be entered into with the University of Texas to provide technical experts in teacher education who will assist in establishing and carrying forward a strong programme of teacher training. In addition, U.S. funds will be used for books, teaching aids and audio-visual equipment, as well as supplying each of 54 participating institutions with a vehicle.

Educational Administration

U.S. Commitment—$60,000.

U.S. aid consists of the services of a highly qualified specialist in educational administration who will work directly in the Central Institute of Education in the Ministry of Education, as well as working with the State Departments of Public Instruction.

Commodity assistance will consist of professional publications in the field of educational administration, books, bulletins, periodicals and other related library material.

This project serves both as a projection of and a complement to the secondary education project, mentioned above.

Foundry Training

U.S. Commitment—$180,500.

This agreement provides for U.S. financial assistance for the purchase of essential foundry equipment and supplies not now available in India and to extend the services of a U.S. foundry technologist to the Foundry Training Centre at Kharagpur.

COMMUNITY DEVELOPMENT, SOCIAL WELFARE AND HOUSING

The Community Development Programme has been largely an Indian programme, but the American contribution in its most basic terms —the ideas of extension, the American techniques to teach the idea of extension and the jeeps to carry its benefits to the people- has played a vital catalytic role. Projects in this category are:

Community Projects

U S. Commitment —$14,589,028.

As of September 1956, there were 557 Community Development Blocks and 602 National Extension Service Blocks in India, covering 126,857 villages with a population of 82,200,000.

TCM aid which had arrived and been distributed to the States for community project use totalled $7,884,348 and the equipment included 1,994 jeeps; 236 station wagons, pickups and other trucks; 30 health vans; 34 motor graders; 163 tractors— some of them fitted with bulldozers; 38 road rollers; 350 trailers, and 1,000 film projectors.

Improved Methods of Low-Cost Housing

U.S. Commitment—$51,206.

This project aims at supplying technical advice and demonstrating materials and techniques. It is also intended to train Indian labour in the new methods and techniques. Such materials as roofing, doors, windows and chemicals for treating wood to resist damage by termites, are purchased from abroad in limited quantities with a view to their being manufactured in India if found suitable.

Social Welfare Education

U.S. Commitment—$398,280.

Initially the Indo-American programme provided the services of a child-welfare worker for the Delhi School of Social Work and short-term consultants to the Indian Conference of Social Work. The 1955 programme provided for additional specialists from outside India in social research, group and field work, medical social work, child welfare and community organisation. The specialists were assigned to various institutions in India, including schools of social work, at Delhi, Baroda, Lucknow, Bihar and Madras to assist in curriculum development, research programmes and social welfare projects. Each specialist was provided with visual aid, testing and other equipment, and pertinent technical publications. The project received continued support under the 1957 programme.

PUBLIC ADMINISTRATION

Public administration has not occupied any important place in the Indo-American programme for the reason that there have been other fields where U.S. assistance could be more meaningful. However, there have been special areas in which relatively small projects have been taken up, and more of these are likely to develop in the future. In addition to the specific projects listed below, a number of experts in administration have come to India to make suggestions for improving operational methods, and Indian administrative personnel have gone to the United States for special training. Projects in this field are:

Improved Statistics and Reports

U.S. Commitment—$13,630.

A new Statistics and Reporting Section was recently established within the Department of Economic Affairs, Ministry of Finance, for the purpose of processing operating statistics for the Foreign Aid, Economics and Budget Division of the Department, and other statistical reports required by the Government of India. This project will equip the new section with basic modern office machines to enable it to perform as efficiently as possible in tabulating, presenting and reproducing data required for projects aided by the Technical Co-operation Mission and the Government of India economic programme.

The installation serves as a demonstration unit for other departments of the Government of India, with a view to improving operating statistics and reporting, and aiding in the improvement of public administration generally.

Assistance to Indian Statistical Institute

U.S. Commitment—$2,800.

Under the present agreement a statistical quality control expert will be provided to the Indian Statistical Institute for up to one year. In addition, an electronics equipment specialist is to be provided for a short period to examine the Institute's needs.

Under another agreement the United States will provide a set of approximately 400 management books and periodicals for the particular use of the industry and management research unit of the Institute.

FOUNDATION AID

As mentioned above, major institutional aid includes programmes by the Ford and Rockefeller Foundations.

In August 1951, at the invitation of the Indian Prime Minister, Paul Hoffman, then President and Director of the Ford Foundation visited India to discuss the possibilities of financial assistance. Activities supported by the Ford Foundation in India include: rural development, development of small industry, education, public administration, research and training, and cultural interchange. As of May 15, 1957, Ford Foundation aid to various programmes in India totalled about $19 million.

Specific project allocations include: pilot extension projects, $1,200,000; training of village extension workers, $1,873,485; training of social education organisers, $375,363; training of rural public health workers, $353,105; training of women extension workers, $618,000; training of village blacksmiths and artisans, $407,575; aid to agriculture colleges, $1,360,000; training of project executive officers, $204,000; aid to regional conferences for project executives, $37,985; international planning team on small industry, $107,000; training and provision of senior technicians, $180,000; secondary education study team on teacher training and curricula, $102,500; seminars for headmasters, $58,500; study tour of rural educators, $26,000; study and planning team on rural higher education, $22,525; workshops on writing for new literates, $12,630; Institute of Public Administration, $350,000; and a Gandhi Memorial Community Centre in Delhi, $85,000.

An omnibus education grant by the Ford Foundation totalling approximately $2,000,000 in 1955 was used to support an institute for teachers and a national clearing house of information on education; to aid four technical institutes to help small scale industries; to sponsor a training programme for public health workers; and to help finance a project designed to make good books available at low cost.

The Ford Foundation announced on 13th Oct 1957 grants to India totalling approximately 2 4 million dollars, including a grant of 685,000 dollars to the Government of India to assist in the establishment of an English language training institute

Other Ford Foundation grants to India are :

The Government of India—416,000 dollars to help support the programme of the All-India Council for Secondary Education, 357,000 dollars for the establishment of departments of extension services at the secondary school teachers training colleges, 258,000 dollars for a research and action project in environmental sanitation, 36,000 dollars for strengthening the teaching of science at the secondary schools.

Agricultural missions—14,000 dollars for research and writing on changes in Indian village life and the caste system

Indian Literacy Board—69,000 dollars for training in the preparation of reading materials for new literates

Indian Council of Medical Research—291,000 dollars for teaching and research regarding the social sciences in health education

Institute of International Education—8,000 dollars for a study tour in the United States by Indian accountants

Foundation-administered projects—120,000 dollars for consultation, equipment, and training to advance the publications programme of the Southern Languages Book Trust, 73,000 dollars for advisers on small industries development, 58,790 dollars for an adviser on extension training, 35,000 dollars for a specialist and research assistant on rural development, 20,000 dollars for a consultant on extension and community development, 5 700 dollars for a consultant in industrial relations research, 2,200 dollars for a consultant on general education

The Foundation also made an appropriation of 575 000 dollars to the Indian Law Institute "to assist a co-operative programme of legal research and training on Indian legal problems" conducted by the Indian Law Institute in association with American and other non-Indian lawyers and law schools

The total grant in 1957 was 5 5 million dollars

Rockefeller Foundation Aid : The Rockefeller Foundation has also extended aid to India in the field of public health, especially training of health personnel This programme has been in existence for more than two decades The Foundation has had one or more representatives in India since 1920, helping the Government of India and State Governments, at their request, to develop public health programmes

It supplied funds for the construction and equipment of the All-India Institute of Hygiene and Public Health in Calcutta in 1932, and also aided in the setting up of seven rural demonstration health units As of mid-year of 1957, Rockefeller aid to India was estimated to total $5,400,000.

The Watumull Foundation also has a sizable programme for India in the fields of education and population control.

PRIVATE AID

Impressive though the above figures may be, it is the private voluntary aid—both from individuals and voluntary welfare agencies—that reveals the extent of good-will that ordinary Americans bear towards India.

Relief supplies of all kinds valued at about $41 million (Rs. 20 crores) have been donated by individual Americans in all walks of life during the five years from July 1951 to June 1956 for distribution to needy persons throughout India, according to the Council of Voluntary Agencies.

All supplies are expressly intended for free distribution among the poor and needy, regardless of religion, caste or creed. These gifts of late have consisted chiefly of milk powder, ghee, cheese and multipurpose food In times of emergency grains have also been imported. Having reserve stock on hand, these voluntary agencies have been able to move the relief supplies to emergency areas without any loss of time.

In addition, there have been several lakhs worth of hospital supplies and equipment, including ambulances and health vans, steel ploughs for farmers, kits to midwives, text books, clothing and blankets

The following quantities of relief and self-help goods have been distributed in India during the last five years

Year (July June)	Value in dollars
1951–52	765,365
1952–53	957,712
1953–54	1,096,192
1954–55	18,792 000
1955-56 (estimated)	18 932 000
1956 57 (estimated)	19,500,000
	60,933,269

On July 9, 1951, an agreement was signed between the Governments of India and the U S "to facilitate the flow of and to effect the efficient entry and distribution of donated goods and supplies for relief and rehabilitation" The purpose of the agreement was to assist a people-to-people movement which had spontaneously gone on for years

Under this agreement, in regard to gifts sent from the U S, the Government of the United States pays ocean freight, while the Government of India allows duty-free entry and provides for inland transportation charges.

The distribution of relief supplies under the Agreement is carried on under the aegis of certain U S. voluntary agencies approved by the Government of India and the U.S Government These are. American Friends Service Committee, American National Red Cross*, CARE† (Co-operative for American Remittances to Everywhere), Catholic Relief Services—National Catholic Welfare Conference, Church World Service, Lutheran World Relief, and Mennonite Central Committee.

The representatives in India of these seven American voluntary agencies formed a Council of Voluntary Agencies in December 1951 to share ideas and to co-ordinate their programmes. To see that supplies are directed to areas of greatest need and are otherwise efficiently distributed, the Council has the benefit of the counsel and assistance of a National Advisory Committee composed of a number of prominent Indians.

To help co-ordinate the programme at the State level, State Advisory Committees have been established

Some 19,000 Indian committees, distribution centres and agencies are co-operating in this programme. The success in distributing these foods is therefore due to the selfless service of thousands of Americans and Indians, known and unknown In every case the State Government and the district officers are informed of the receipt of the supplies and the plan of distribution to ensure the Governments of India and the U S that the terms and conditions as laid down in the agreement are fulfilled.

In the normal programme, the supplies are handled chiefly through Indian medical institutions including sanatoria and leprosy homes, welfare centres and schools.

The work of these U.S voluntary agencies in India forms part of the world-wide effort of the American people to serve the needy Since 1939, the American people have contributed nearly $2,000 million for relief abroad through scores of voluntary agencies These agencies have increasingly been instrumental in meeting emergencies arising from natural disasters, epidemics or famines

Exchange of Persons

A closely-related programme to foster closer understanding between India and the United States is the so-called Exchange of Persons Programme.

Early in 1950, the India–U S Fulbright Agreement was signed, as sequel to the Fulbright Act of the U S Congress, which provides for the use of U S receipts from sales of World War II surplus property abroad for travel grants to students.

The agreement provides for the utilisation of the rupee equivalent of up to $400,000 a year towards travelling expenses of Indian students to and from the U S. and all expenses of Americans coming to India for study, research or instruction

More than a hundred Indian students are awarded Fulbright travel grants every year, while nearly one-fourth of that number of Americans come to India annually under the programme

Another U S exchange programme under the Smith-Mundt Act enables leaders of public opinion, both American and Indian in various fields to visit each other's countries Under this programme several prominent Indians visit the United States on study-observance-lecture tours every year, and Americans come to India on similar tours.

NEW U.S. LOAN TO INDIA

A new loan was arranged on March 4, 1958 Parts of the Communique issued on the occasion are given below.

"A delegation from the Government of India, led by Mr B. K. Nehru, has had discussions during the last four weeks with the authorities of the Export-Import Bank of the United States and the Development Loan Fund in Washington. As a result, letters of commitment were exchanged on Tuesday, March 4, 1958, at Washington between Mr. B. K. Nehru and Mr. Samuel Waugh, President of the Export-Import Bank, and Mr. Dempster Macintosh, representing the Development Loan Fund.

"A credit of 150 million dollars from the Export-Import Bank will be utilised for the procurement in the United States of capital equipment, machinery and services needed by India in the next 12 months for the following programmes : Irrigation and reclamation, power, transport and communications, mining and certain selected industries, like textiles, chemical industries, the fabrication of heavy structurals and electrical equipment and machine tools.

"Payment made in the United States after February 28 for goods under these programmes will be eligible to be paid from this credit The credit will bear interest at 5½ per cent and the term will be 15 years. Repayment of principal will, however, start only on January 15, 1964

"A credit of 75 million dollars from the Development Loan Fund will be utilised for the purchase of components for the manufacture of trucks, buses and jeeps needed for India's road transport development, purchase of structural steel and other steel products required by Indian Railways and for the purchase of machinery for India's jute and cement industries. Repayment will start on March 15, 1959, and can be in rupees The credit in respect of railway purchases will bear interest at 3½ per cent and will be repaid in 40 semi-annual instalments. The other credits will bear interest at 5½ per cent and will be discharged in 30 semi-annual instalments."

* From Aug. 15, 1945 to Dec. 1, 1956 the Red Cross contributed $0,000 dollars.
† Had a two-crore programme for 1957 for free distribution of food grains, medicines, agricultural machinery and implements for cottage industries.

COLOMBO PLAN

HEADQUARTERS: P.O. Box No. 596, Colombo.

Director: R. H. Wade; *Dy., Dir*. S. A. Shereef; *Information Officer*: R. K. Chatterjee; *Asst Information Officer*: L. P. Goonetilleke.

Present Plan period: 1951-61.

Original Plan period: 1951-57.

Members of the Colombo Plan:

Australia, Burma, Cambodia, Canada, Ceylon, India, Indonesia, Japan, Laos, Malay, Nepal, New Zealand, Pakistan, Philippines, Thailand, United Kingdom (with Brunei, North Borneo, Sarawak, Singapore), U.S A, Viet Nam.

From 1951 upto Oct. 1957 about 700 experts were made available to Asian countries and training facilities were provided for nearly 5,000 selected trainees.

The value of the training equipment supplied reached a total of £1·4 million by the end of 1956.

Contributions from the Commonwealth Governments amounted to (upto the end of 1956):

Britain £662,958; Australia £522,512; Canada £72,711; New Zealand £29,094; Ceylon £97,813.

India (to Nepal): Rs. 40 mln. up to 1955-56. There is a promise of a further Rs. 100 mln.

India provided from July 1950 upto June 1957, 19 experts and 511 training places.

India received during the same period 1,011 training places and 189 experts.

The original members of the Scheme agreed to provide assistance upto the value of about £8 million made up as follows: India: £750,000; Pakistan: £161,290; Ceylon £400,000; New Zealand: £400,000; Canada (an annual): $400,000; Australia: £2 8 mln.; Britain an original £2 8 mln. and a contribution of £7 mln. over a period of seven years from April 1956.

Australia, Canada and New Zealand have pledged continuing participation.

The Colombo Plan was conceived at a meeting of the Foreign Ministers of the Commonwealth countries at Colombo in January 1950.

A consultative committee was set up to consider ways and means of carrying out the desired co-operative economic development. This committee met at Sydney in May 1950, where it was agreed that Commonwealth countries in the area should draw up development programmes covering a six-year period from 1st July 1951, and that the other countries in the area should be invited to take similar action. Agreement was also reached at the meeting on the establishment of the Technical Co-operation Scheme.

The original members were Australia, Canada, Ceylon, India, New Zealand, Pakistan and the United Kingdom, together with Malaya and British Borneo. These were Commonwealth countries, but it was contemplated from the beginning that all countries in the area should be invited to participate in the Plan on equal terms.

Subsequent meetings of the Consultative Committee were held in London (September 1950), Colombo (February 1951), Karachi (March 1952), New Delhi (October 1953), Ottawa (Oct. 1954), Singapore (October 1955), Wellington (December 1956) and Saigon (October 1957).

At the London meeting the six-year development programmes prepared by the Commonwealth countries in the area were considered and incorporated in a report (The Colombo Plan for Co-operative Economic Development in South and South-East Asia). At the Colombo meeting the Commonwealth countries announced the financial contributions they would make towards the cost of carrying out the programmes.

Five annual reports were prepared at the Karachi, New Delhi, Ottawa, Singapore, and New Delhi meetings respectively, in which attention was concentrated on the developments of the previous year and on the progress expected in the coming year.

At the London meeting of the Consultative Committee in September 1950, Burma, Cambodia, Indonesia, Laos, Thailand and Viet Nam were represented by observers. Laos, Viet Nam and Cambodia became full members in 1951.

Burma and Nepal first attended the Karachi meeting as full members; while Indonesia attended the Delhi meeting in 1953 as a full member.

The United States of America, which in 1950 had assistance programme in operation in the area, associated itself with the other members of the Committee and attended as a full member the Colombo meeting of February 1951.

Thailand sent observers to London and following meetings while the Philippines had observers at the Colombo, Karachi and Delhi meetings. At the Ottawa meeting Thailand and the Philippines attended for the first time as full members of the Plan, and Japan was also admitted as full member of the Plan.

The Technical Co-operation Scheme provides a framework for the exchange of technical assistance between participating countries. Co-ordination is provided by a Council at Colombo, on which participating Governments are represented, and by the Bureau for Technical Co-operation, located in Colombo, which reports to the Council. Representatives of the United Nations Technical Assistance Board and the United States attend as observers the meetings of the Council.

The International Bank for Reconstruction and Development has maintained close liaison with the Committee in its work and has been represented at the Colombo and later meetings.

The studies and activities of the ECAFE are related to development problems of the area and it has sent observers to the Karachi and subsequent meetings.

An Information Unit in conjunction with the Bureau of Technical Co-operation at Colombo, assists member countries in promoting in their territories knowledge of the Colombo Plan. The Unit collects information material from member Governments, collates it and distributes it in a suitable form through member Governments. It also maintains a central pool of information on the Colombo Plan.

It was agreed at the Singapore meeting that the Colombo Plan be extended from July 1957 to June 1961.

ACHIEVEMENTS OF PLAN

During this period (1951-57) national income in the region has continued to rise at a rate slightly in excess of the rate of population growth. Much effort went into this achievement as the population of the area is rising at a rate of 10 million annually.

The countries have made advances both in the planning and implementation of development programmes. India completed her first Five-Year Plan with encouraging overall results and a second Five-Year Plan has been adopted. In Pakistan, a new draft Five-Year Plan has been prepared. In Burma and the Philippines, development programmes have been adjusted in the light of the available resources, while Indonesia and Nepal have drafted their first comprehensive plans. Other countries in the area have devoted attention to the need for comprehensive planning, for example, in Ceylon, a National Planning Council has been established.

The countries of the area are also investing more and more on development, although the progress of expenditure is not uniform in all cases. For the region as a whole, development expenditure increased from £520·5 million in 1953 to £791·4 million in 1955. The estimated expenditure in 1956 is of the order £1,070 3 million or more than double three years ago.

Expenditure on development in the public sector (£ million at a constant rate of Exchange):

	1953–54 or 1953, Actual	1954–55 or 1954, Actual	1955–56 or 1955, Actual or Revised Estimates	1956–57 or 1956, Estimates
Burma	54·4	38·0	32·4	40·0
Ceylon	18·3	20·5	30·8	36·9
Federation of Malaya	17·4	16·4	15·6	28
India	237·2	365·6	502·9	622·7
Indonesia	68·0	76	40	102·7
Nepal	0·7	0·8	2·1	2·2
Pakistan *	39·9	61·3	83·7	129·1
Philippines	47·8	36·1	55·6
North Borneo	..	1·5	2·2	2·8
Sarawak	1·6	2·4	1·5	4·1
Singapore	11·4	15·6	13·5	14·8
Thailand *	23·1	38·0	24·6	31·6
Total	520·5	685·9	791·4	1,070·3

* To facilitate comparison all Pakistan and Thailand totals have been calculated at rates of exchange in force in November 1956.

Agricultural production in 1955-56, on balance, showed little improvement over the previous year. There was an increase in mining output, particularly in petroleum production. Significant progress was made in industrial production as a result of greater utilisation of existing equipment and expanded facilities resulting from new investment.

After a setback owing to unfavourable weather conditions in 1954-55, food-grain production rose moderately in 1955-56 (except in India and Pakistan) despite serious damage caused by droughts, heavy rains, and floods in most countries. The production of rice showed an increase of 6 per cent. In 1955 the production of electricity was 11,796 million kwh., representing an increase of about 12 per cent over the preceding year.

The provision of agricultural and industrial credit on reasonable terms and the organisation and efficient management of rural co-operative societies are also being increasingly recognised as essential to development.

Adequate communications have high priority in the plans of the area, and Governments have considerable achievements to their credit.

The following table shows the volume of production of certain commodities in 1954 and 1955:

(Thousand metric tons)

	1954 (thousand metric tons)	1955 (thousand metric tons)	Percentage Increase
Tea	528	540	2
Sugar	3,152	3,847	22
Natural Rubber	1,561	1,633	5
Tin concentrates	109	109	..
Crude petroleum	16,116	17,592	9
Coal	39,036	40,380	3
Cotton Yarn	794	870	10
Cotton fabrics (million metres)	4,910	5,105	4
Jute manufactures	997	1,134	14
Cement	6,328	6,467	2
Steel	1,730	1,742	1
Electricity (million KWH.)	10,548	11,796	12

(Source: Economic Bulletin for Asia and Far East (ECAFE) August 1956)

The development expenditure is met in each country largely from internal resources and by valuable assistance received from external sources.

The external sources are: grants, loans and commodity assistance, sterling balances, private foreign investment, loans floated by private investors in London and other financial centres, loans from the International Bank for Reconstruction and Development

Total Contributions to the Plan by Member Countries:

Total amount of aid offered by various countries (spent or committed to the end of the financial year 1955-56, including both capital and technical assistance) is as follows. Australia: £(A)32·2 million; Canada (by the end of the financial year 1956-57): $167 8 million; India: Till 1955-56, assistance to Nepal has been of the order of Rs. 40 million. India has further promised to help Nepal to the extent of Rs. 100 million; Japan: 98·5 million yen; Malaya: £926 (till Dec. 1956); New Zealand: £5 47 million; Pakistan: (Till Dec. 1956) £21,565; Phillippines. 100,000 pesos (1956-57); Singapore: £ 543; United Kingdom £0 86 million by way of grants, loans, credits and technical assistance excluding private investment and drawings by India, Pakistan and Ceylon on their Sterling balances. In addition U K. has authorized £·18 million to the area from her sterling subscription to the IBRD; United States of America; over $2,000 million, excluding private investment and assistance by private organisations such as Ford & Rockefeller Foundations.

TECHNICAL ASSISTANCE

Australia, Canada, Ceylon, India, Japan, New Zealand, Pakistan Philippines, Malay and Singapore and United Kingdom are contributing 9·7 million to finance the Colombo Plan Technical Co-operation Scheme.

Technical assistance consisting of provision of facilities for training, supply of experts and provision of equipment for training and research institutions, is also offered under various programmes of the United States and the United Nations and its Specialised Agencies.

Till 30 June, 1957, 12,895 places have been found for men and women of the area to receive training outside their own countries. Not all the training is arranged outside South and South-East Asia; some Asian countries are helping others in training facilities.

Approximately 6,223 experts have placed their skills at the service of the area. A number of countries have established technical schools and polytechnics in special fields such as textile and nursing education. Many countries are using the services of consultants in preparing general development plans and specifications for particular projects. Ideas are also being canvassed for the establishment of workshops, for small scale industries and also of new regional training centres, or the expansion of existing facilities, so that more than one country may benefit from institutions available for the study of common problems.

The future holds out great opportunities for technical training so essential to economic development. The United Kingdom has announced a contribution of £7 million towards the provision of technical assistance for the seven years beginning April 1956. The Canadian Government has provided a NRX atomic reactor to India. This type of reactor is a high-powered research and experimental unit. In accepting the offer the Indian Government has indicated its willingness to allow accredited foreign scientists, including those from other Colombo Plan countries in South and South-East Asia, to work with this reactor. The United States has also offered to locate an atomic research centre in South and South-East Asia.

Under the Technical Co-operation Scheme of the Colombo Plan, 792 experts and 5,622 training places had been provided to the countries of South-East Asia till June 1957. Their distribution is as follows:

	Training Awards	Experts
Australia	2,063	238
Canada	737	133
Ceylon	33	2
India	511	19
Indonesia	10	—
Japan	64	65
Malay	27	—
New Zealand	468	75
Pakistan	59	—
Singapore	34	—
Thailand	2	—
United Kingdom	1,614	260
Total	5,622	792

The following table gives the accounts of expenditure by supplying country and type of assistance, Technical Cooperation Scheme July 1950 to December 1956.

(Pound Sterlings)

Country	Actual				Firm Forward Commitments				Actual plus Commitments
	Trainees	Experts	Equipment	Total	Trainees	Experts	Equipment	Total	
Australia	1,276,740	392,932	71,910* / 460,025	2,301,607	960,000	240,000	128,000	1,328,000	3,629,607
Canada	810,321	432,662	72,711	1,315,694	218,975	146,641	69,200	434,816	1,750,510
Ceylon	5,803	1,106	97,813*	104,724	3,771	—	6,752*	10,523	115,247
India	222,974	83,057	—	306,031	82,520	27,382	—	109,902	415,933
Japan	22,206	29,049	945	51,200	36,344	8,133	—	44,477	95,677
New Zealand	264,665	146,647	29,094	440,406	—	—	—	—	440,406
Pakistan	3,952	—	8,717*	17,669	2,896	—	—	2,896	21,565
United Kingdom	920,101	869,961	662,956	2,253,010	276,856	241,517	506,027	1,024,400	3,277,410
Malaya	608	—	—	608	318	—	—	318	926
Singapore	**543	—	—	**543	—	—	—	—	**543
Total	3,692,913	1,754,406	1,404,173	6,791,492	1,582,680	663,673	709,979	2,956,332	9,747,824

* Cost of buildings and equipment, etc. ** As at 30th June 1956.

The following table shows the number of training places by subject and receiving country, which received assistance from July 1950 to June 1957 under the Colombo Plan Technical Co-operation Scheme :—

Subject	Brunei	Burma	Cambodia	Ceylon	India	Indonesia	Japan	Laos	Malaya	Nepal	North Borneo	Pakistan	Philippines	Sarawak	Singapore	Thailand	Viet-Nam	Total
Education ..	—	16	6	94	69	177	—	—	86	69	35	113	18	16	38	17	19	773
Medical and Health .	1	35	4	143	155	43	—	1	101	35	19	51	20	11	22	51	8	700
Food, Agriculture and Forestry ..	1	54	3	140	231	73	—	4	20	32	5	137	40	8	3	18	31	800
Power and Fuel	—	2	—	7	137	4	—	—	—	1	—	35	1	—	—	4	—	191
Engineering ..	2	63	—	96	88	222	—	3	84	84	19	94	33	17	48	16	23	892
Industry and Trade ..	—	86	—	103	124	22	—	3	16	2	—	82	15	1	4	5	3	466
Transport and Communications ..	—	26	—	38	89	36	3	—	19	48	1	57	6	2	6	1	19	351
Administration	3	89	—	68	61	148	—	—	33	14	8	312	23	17	23	20	1	820
Social Services	—	18	—	26	15	19	—	—	2	—	1	13	11	1	3	7	—	116
Statistics ..	—	17	—	18	1	14	3	—	2	7	—	39	26	—	2	10	—	139
Fisheries ..	—	—	1	6	10	6	—	—	4	—	—	5	—	4	6	1	—	43
Co-operatives	—	11	1	6	5	13	—	—	5	5	—	2	—	—	2	—	1	51
Banking, Finance, Accountancy, Taxation and Insurance ..	—	30	—	46	15	17	—	—	12	4	3	38	3	—	—	4	2	174
Journalism, Press, Photography and Printing ..	—	3	—	13	3	14	—	—	5	2	1	5	2	—	—	—	—	48
Miscellaneous	—	1	—	8	8	8	—	1	2	5	1	15	1	6	1	1	—	58
TOTAL ..	7	451	15	812	1011	816	6	12	391	308	93	998	199	83	158	155	107	5,622

Number of training places and experts provided, by subject and supplying country, under the Technical Co-operation Scheme, July 1950 to June 1957.

Subject	SUPPLYING COUNTRY																			
	Australia		Canada		Ceylon		India		Indonesia	Malaya	Japan		New Zealand		Pakistan	Singapore	Thailand	U.K.*		Total	
	Trainees	Experts	Trainees	Experts	Trainees	Experts	Trainees	Experts	Trainees	Trainees	Trainees	Experts	Trainees	Experts	Trainees	Trainees	Trainees	Trainees	Experts	Trainees	Experts
Education	407	33	54	20	—	1	71	4	—	—	1	—	92	18	—	—	—	148	23	773	99
Medical and Health	275	113	95	22	9	—	28	—	—	—	4	1	71	29	1	—	—	217	49	700	214
Food, Agriculture and Forestry	253	30	133	17	2	—	40	2	8	3	13	19	87	10	—	—	—	261	10	800	88
Power and Fuel	17	—	68	6	—	—	—	—	—	—	1	—	8	—	—	—	—	97	5	191	11
Engineering	414	28	101	28	1	—	98	8	—	—	9	6	100	4	1	10	—	158	40	892	114
Industry and Trade	159	10	43	3	—	—	72	3	—	—	16	14	37	5	2	—	—	137	37	466	72
Transport and Communications	100	10	50	3	—	—	51	1	—	2	7	2	16	5	38	—	—	87	51	351	85
Administration	274	3	95	2	1	—	16	—	2	7	—	—	14	—	17	19	—	375	8	820	13
Social Services	71	—	6	—	—	—	—	—	—	3	1	—	15	—	—	4	—	16	4	116	4
Statistics	4	—	12	—	—	—	115	—	—	—	—	—	1	—	—	—	—	7	3	139	3
Fisheries	1	2	20	28	—	—	—	—	—	1	10	17	—	—	—	1	—	10	—	43	47
Co-operatives	3	—	18	1	20	—	9	—	—	—	1	—	—	—	—	—	—	—	—	51	1
Banking, Finance, Accountancy, Taxation and Insurance	44	4	32	1	—	—	2	1	—	4	1	—	22	3	—	—	2	67	11	174	20
Journalism, Press, Photography and Printing	22	4	7	—	—	—	3	—	—	1	—	—	2	—	—	—	—	13	3	48	7
Miscellaneous . .	19	1	3	2	—	1	6	—	—	6	—	6	3	1	—	—	—	21	3	58	14
TOTAL	2,063	238	737	133	33	2	511	19	10	27	64	65	468	75	59	34	2	1,614	260	5,622	792

* Figures do not include aid given by United Kingdom under Colonial Development Welfare Acts to Malaya, Singapore, North Borneo and Sarawak.

Number of trainees and experts provided, by applying and supplying country, under the Technical Co-operation Scheme, July 1950 to June 1957.

Applying Country	SUPPLYING COUNTRIES																					
	Australia		Canada		Ceylon		India		Indonesia	Japan		Malaya	New Zealand		Pakistan	Singapore	Thailand	United Kingdom *		Total	
	Trainees	Experts	Trainees	Experts	Trainees	Experts	Trainees	Experts	Trainees	Trainees	Experts	Trainees	Trainees	Experts	Trainees	Trainees	Trainees	Trainees	Experts	Trainees	Experts
Brunei ..	7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7	—
Burma	186	7	42	8	9	—	30	—	10	2	—	12	35	3	14	16	2	93	17	451	35
Cambodia ..	8	5	5	4	—	—	—	—	—	2	—	—	—	—	—	—	—	—	2	15	11
Ceylon ..	166	48	55	63	—	—	103	12	—	14	23	2	69	20	10	—	—	393	96	812	262
India	248	14	228	18	—	1	—	—	—	23	7	1	59	8	—	—	—	452	91	1,011	139
Indonesia ..	492	19	110	5	5	—	11	4	—	4	—	—	69	13	19	1	—	105	4	816	45
Japan	—	—	—	—	—	—	3	—	—	—	—	—	—	—	3	—	—	—	—	6	—
Laos	1	4	10	1	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1	12	6
* Malaya ..	250	58	7	14	7	—	5	—	—	2	—	—	109	2	11	—	—	—	—	391	74
Nepal	7	—	—	—	8	—	273	—	—	—	—	—	2	—	—	—	—	18	1	308	1
* North Borneo	69	6	—	1	—	—	—	—	—	—	—	—	24	10	—	—	—	—	—	93	17
Pakistan ..	227	42	214	15	—	—	39	—	—	1	14	5	60	15	—	9	—	443	47	998	133
Philippines ..	91	3	—	—	1	—	34	—	—	7	—	—	3	—	—	—	—	63	—	199	3
* Sarawak ..	53	4	1	3	—	—	—	—	—	1	—	7	13	3	—	8	—	—	—	83	10
* Singapore ..	130	19	8	1	2	1	3	3	—	1	—	—	14	1	—	—	—	—	—	158	25
Thailand ..	82	5	1	—	1	—	10	—	—	7	17	—	11	—	—	—	—	43	—	155	22
Viet Nam ..	46	4	56	—	—	—	—	—	—	—	4	—	—	—	2	—	—	3	1	107	9
TOTAL ..	2,063	238	737	133	33	2	511	19	10	64	65	27	468	75	59	34	2	1,614	260	5,622	792

* Figures do not include aid given by United Kingdom under Colonial Development Welfare Acts.

Expenditure incurred on equipment in each year, by donor country, Technical Co-operation Scheme, July 1950 to December 1956.

Sterling

	1950-June '53	1953-54	1954-55	1955-56	1956*-57	Total 1950-56*
Australia	29,659	75,818	114,805	62,487** } 167,525 }	9,432** } 72,223 }	531,935
Canada	—	116	42,384	23,020	7,191	72,711
Ceylon	1,789**	39,707**	56,305**	—	12	97,813
Japan	—	—	—	552	393	945
New Zealand	7,732	2,666	18,146	550	—	29,094
Pakistan	1,215	—	—	7,502	—	7,502** } 1,215 }
United Kingdom	23,751	100,575	234,445	231,653	72,534	662,958
Total	64,146	218,877	466,085	493,289	161,776	1,404,173

* To 31st December 1956.

** Includes cost of buildings and equipment, etc.

INDIA

India has offered both economic and technical assistance to the countries of the region. Economic assistance has been given primarily to Nepal, upto Rs. 40 millions till 1955-56. There is a promise of a further Rs. 100 million. This assistance was for development of roads and communications, construction of an air-field, mapping and air survey work, construction of Trisuli Project and minor irrigation works. Till 1955-56 a sum of Rs. 40 million was estimated to have been spent under this aid programme.

In 1956-57, a sum of Rs. 10 lakhs was given to the Government of Nepal under the Annual Treaty payment. A similar amount was given during 1957-58, under the same Head.

An expenditure of approximately Rs. 15 lakhs was incurred for the provision of training facilities and the services of experts to member countries of Colombo Plan. Also under the Colombo Plan, technical and economic assistance of the value of approximately Rs. 1·08 crores was given to Nepal for implementing its 5-Year Plan. Both these amounts were given for the year 1956-57.

For 1957-58, a sum of approximately Rs. 9 lakhs was given upto November 30, 1957 and a sum of approximately Rs. 32 lakhs was given upto the end of September, 1957. Both these figures relate to assistance to Nepal under the Colombo Plan.

A loan of Rs. 20 crores had been advanced to the Government of Burma for the economic development of that country. Another loan of Rs. 4·93 lakhs had been given to the Government of Indonesia for training Indonesian air force personnel. This sum had been given out of an agreed loan of upto Rs. 50 lakhs.

In the technical field, India has provided 511 scholarships and fellowships to students of South-East Asia in various technical subjects at the Indian Universities, Scientific and Research institutes and in other projects up to 30th June 1957. Of this number 273 were to Nepal; the rest were for Ceylon (103), Philippines (34), Pakistan (39), Burma (30), Indonesia (11), Thailand assistance was for the development of roads and (10), Malaya (5), Singapore (3), Japan(3). The largest number of places were provided in the field of statistics (115), second came engineering (98), followed by industry and trade (78), (97), second came statistics (89) followed by education (70).

The training in statistics (89 places) have been provided by the International Statistical Education Centre, Calcutta, which is jointly sponsored by the International Statistical Institute and the Indian Statistical Institute in collaboration with UNESCO.

In addition, India has offered facilities for practical training in Civil, Mechanical and Electrical works at Hirakud Project, maintenance and operation of heavy earth moving equipment, and engineering at Bhakra-Nangal Project.

Training facilities available in the various research laboratories of India such as National Chemical Laboratory, Poona; Central Drug Research Institute, Lucknow; Fuel Research Institute, Digwadih; National Physical Laboratory, Delhi; National Metallurgical Laboratory, Jamshedpur; Central Glass and Ceramic Institute, Mysore; and Central Leather Research Institute, Madras, have been offered for junior scientists from the countries of South and South-East Asia.

Training facilities in dredging river survey, port traffic operations and management, harbour engineering works, etc. have been offered on the major ports of Bombay, Calcutta, Madras, Cochin, and Kandla and also pre-sea training in the Mercantile Marine Training Institutes in India.

Offers of training facilities in Civil Aviation and in Agriculture and Industrial fields have also been made.

To give random examples of the sort of assistance India is receiving:

Canada assists in nuclear research. About 30 nuclear scientists from India are being trained in connection with India's second research reactor which Canada is helping to build at Trombay, near Bombay.

An Australian expert is advising on the best types of boats and gear for training local fishermen of West Bengal.

For a million-ton steel plant under construction by a British consortium at Durgapur, West Bengal, 300 engineers and technicians are to be trained.

Britain has also sent two missions of experts to India, one to advise on the establishment and siting of a second ship-building yard and the other on reducing port congestion.

The provision of technical assistance by countries of South and South-East Asia to one another is an increasingly important feature of the Scheme and the level it has now attained reflects progress in the creation of technical skills.

Of 5,622 training places provided during the seven years of the Scheme 676 places were provided by countries of the region. India provided 511 of these places, 273 being for Nepal; 108 for Ceylon; 39 for Pakistan; 34 for the Philippines; 24 for Burma and the rest for Indonesia, Malaya, Singapore and Thailand.

Pakistan, Ceylon, Singapore, Malaya, Indonesia and Thailand are other countries which have provided training facilities.

India and Ceylon have also supplied experts.

INDIA'S FOREIGN LIABILITIES AND ASSETS, 1955*

THIS article presents the main results of a Survey conducted by the Reserve Bank of the country's foreign liabilities and assets as at the end of 1955. Like the two previous enquiries† in this field *viz.*, Census of foreign liabilities and assets as on 30-6-1948 and Survey of foreign liabilities and assets as on 31-12-1953, the present Survey provides an indication of the country's international investment position on long-term and short-term accounts as at the end of 1955, and an analysis of business investments from abroad, particularly in foreign-controlled enterprises.

Some 1,700 companies filed returns under the Survey. The data were supplemented by information obtained from official agencies including the departments of the Bank.

India's total liabilities and assets at the end of 1955 amounted to Rs. 766·3 crores and Rs. 1,251·8 crores respectively, indicating a net creditor position of Rs. 485·5 crores.

This net creditor position was wholly due to the official sector, which had a net creditor position of Rs. 960·8 crores, the non-official sector showing a net debtor position to the extent of Rs. 475·3 crores.

TABLE 1.—INDIA'S INTERNATIONAL INVESTMENT POSITION (SUMMARY)

(Crores of Rupees)

Period	Liabilities			Assets			Net Position
	Short-term	Long-term	Total	Short-term	Long-term	Total	
			OFFICIAL SECTOR				
30th June 1948	55·5	122·6	178·1	1,208·8	730·8	1,939·6	+1,761·5
31st December 1953	16·0	233·6	249·6	433·8	772·8	1,206·6	+ 957·0
31st December 1955	16·6	193·3	209·9	455·8	714·9	1,170·7	+ 960·8
			NON-OFFICIAL SECTOR				
30th June 1948	38·4	287·7	326·1	11·5	57·6	69·1	— 257·0
31st December 1953	35·4	441·4	476·8	11·4	66·0	77·4	— 399·4
31st December 1955	50·0	506·4	556·4	18·4	62·7	81·1	— 475·3

The country-wise details show that India was a net creditor with respect to both the United Kingdom (Rs. 408·5 crores) and Pakistan (Rs. 269·5 crores), while it was a net debtor with respect to the U.S.A. (Rs. 104·7 crores) and most of the other countries. India's position *vis-a-vis* Burma was changed from that of a net creditor as at the end of 1953 to that of a small net debtor mainly on account of the settlement of Burmese debt of Rs. 48 crores during 1954–55.

TABLE 2.—INDIA'S INTERNATIONAL INVESTMENT POSITION (COUNTRY-WISE)

A fuller table appears below.

(Crores of Rupees)

Country	30th June 1948			31st December 1955		
	Liabilities	Assets	Net Position	Liabilities	Assets	Net Position
U.K.	298·2	1,591·2	+1,293·0	443·6	852·1	+408·5
U.S.A.	20·2	15·3	— 4·9	140·6	35·9	—104·7
Pakistan	66·8	322·5	+ 255·7	50·7	320·2	+269·5
Burma	8·8	54·2	+ 45·4	5·5	3·9	— 1·7
I.M.F./I.B.R.D.‡	14·9	11·8	— 2·2	29·3	19·3	— 10·0
Others	95·3	13·7	— 81·6	96·6	20·4	— 76·2
Total	504·2	2,008·7	+1,504·5	766·3	1,251·8	+485·5

Between 30-6-1948 and 31-12-1955, India's net creditor position was reduced by Rs. 1,019 crores as a result of a fall in assets of Rs. 757 crores and an increase in liabilities of Rs. 262 crores.

Most of this change occurred during the period prior to 1953. India's creditor position was reduced only to the extent of Rs. 72 crores between 31-12-1953 and 31-12-1955 as a result of a fall in assets of Rs. 32 crores and an increase in liabilities of Rs. 40 crores.

A large part of the decline in the net assets of the country between 30-6-1948 and 31-12-1955 was accounted for by the official sector; its assets declined by Rs. 769 crores while its liabilities increased by Rs. 32 crores. At the same time, the net debtor position of the non-official sector increased by Rs. 218 crores; its foreign liabilities increased by Rs. 220 crores while its foreign assets showed a small rise of Rs. 12 crores.

Though India emerged as a net creditor country at the end of 1955 it is very likely that by the end of 1957 it has already become a net debtor country as a result of the large reduction in the country's sterling assets and substantial additions to its liabilities to the U.S.A., the I.M.F. and the I.B.R.D.

The official sector comprises the Central Government, State Governments, port trusts, improvement trusts, local authorities and statutory corporations including the Reserve Bank of India.

The table on next page gives a comparative picture of the long-term official liabilities and assets as at the end of 1953 and 1955.

* Prepared in the Division of International Finance of the Reserve Bank being a summary of a Report published by the Bank.

† Published in the form of Reports in 1951 and 1955.

‡ Capital contributions in rupee securities have been omitted from both sides.

TABLE 3.—LONG-TERM LIABILITIES AND ASSETS OF THE OFFICIAL SECTOR

(Crores of Rupees)

Head	Assets*		Liabilities*	
	1953	1955	1953	1955
1. Government securities	346·5	344·7	41·5	39·7
2. (a) Loans (excluding (b) below)	—	—	117·6	114·5
(b) Dollars purchased from the I. M. F. outstanding	—	—	47·6	6·0
3. Liabilities in respect of goods purchased abroad	—	—	0·3	7·0
4. Inter-Government debt due from Burma	48·2	—	—	—
5. Gold and dollar subscriptions to the I.M.F. and I.B.R.D.	16·9	16·9	—	—
6. Claim on the U.K. under the 1955 pensions settlement	53·3†	48·0	—	—
7. Others	7·9	5·3	9·7	5·4
Total	472·8	414·9	213·0	172·7

* Assets exclude Rs. 300 crores of partition debt due from Pakistan; liabilities exclude Rs. 20·6 crores due to the U.K. by way of World War I loan liability of which remains suspended. Both these items figure in Tables 1 and 2. †Claim as on 1st April 1955.

Two important changes have taken place during this period. On the assets side the inter-Government debt of Rs. 48·2 crores due from Burma was liquidated following certain arrangements reached with Burma in 1954. The debt was in the first instance scaled down to Rs. 20 crores, of which Rs. 15·6 crores was repaid by Burma in the form of rice shipments to India; the balance of Rs. 4·4 crores was treated as India's aid to Burma under the Colombo Plan.

As regards liabilities, India repurchased its currency from the I.M.F. to the extent of Rs. 41·6 crores. The balance of Rs. 6 crores outstanding on 31-12-1955 was repurchased in April 1956.

It may be recalled that this liability was incurred in 1948-49 when India purchased from the I.M.F. $100 million in order to ease the pressure on its reserves. In accordance with the principle of maintaining the revolving character of the I.M.F.'s resources, India commenced repurchase transactions in March 1954 and completed the repurchase in five instalments.

Another item showing a significant change in the position as compared to 1953 was the increase in the outstanding credits in respect of goods purchased from abroad, to the extent of Rs. 6·7 crores.

TABLE 4.—LONG-TERM FOREIGN LIABILITIES OF BUSINESS ENTERPRISES AS ON 31ST DECEMBER 1955

(Trade-wise Summary)

(Crores of Rupees)

Head	BUSINESS INVESTMENTS								MISCELLANEOUS LIABILITIES						Total Business Investments
	Direct Investments				Total Direct Investments	Portfolio Investments			Loans and Advances			Insurance liabilities	Total	Total Business liabilities	
	Controlled Joint-stock companies					Equity Capital	Creditor Capital	Total Portfolio	Subsidiaries	Other controlled companies	Other companies				
	Branches	Subsidiaries	Other controlled	Total											
Manufacturing	33·4	91·1	7·3	98·4	131·7	24·1	7·5	31·6	11·5	0·4	3·4	..	15·2	178·5	163·3
Trading	89·2	7·8	2·1	9·8	99·0	2·0	1·3	3·3	0·9	0·8	0·1	..	1·8	104·1	102·3
Utilities and transport	46·2	..	2·2	2·2	48·5	3·0	1·6	4·6	..	..	..	..	..	53·1	53·1
Mining	5·3	1·7	0·8	2·5	7·8	1·7	0·1	1·8	..	..	..	..	..	9·7	9·6
Financial															
(a) Banking	15·4	..	..	..	15·4	4·7	..	4·8	..	..	..	..	..	20·2	20·2
(b) Others	−3·7	8·4	3·7	12·1	8·4	9·6	1·1	10·7	..	0·1	0·2	23·0	23·2	42·4	19·1
Plantations	79·9	0·6	0·3	0·9	80·8	6·8	0·2	6·4	..	..	..	..	..	87·2	87·2
Miscellaneous	1·9	9·8	7·9	17·8	19·7	3·9	2·3	6·2	0·6	0·1	0·2	..	0·9	26·8	25·9
Total	207·7	119·4	24·2	143·6	411·3	55·3	14·1	69·4	13·0	1·3	3·9	23·0	41·2	521·9*	480·6

* This would be equal to the long-term liabilities of the Non-official sector shown in Table 1 *plus* direct Investment under "Banking" which for the purpose of Table 1 is treated as short-term liabilities.

TABLE 5.—LONG-TERM FOREIGN LIABILITIES OF BUSINESS ENTERPRISES AS ON 31ST DECEMBER 1955

(Country-wise Summary)

(Crores of Rupees)

Head	U.K.				U.S.A.				Switzerland				Germany				Other Countries			
	Direct	Portfolio	Miscellaneous	Total	Direct	Portfolio	Miscellaneous	Total	Direct	Portfolio	Miscellaneous	Total	Direct	Portfolio	Miscellaneous	Total	Direct	Portfolio	Miscellaneous	Total
Manufacturing	111·0	17·3	7·1	135·4	13·5	1·3	4·1	18·9	2·1	2·3	0·6	5·0	0·6	2·0	0·1	2·6	4·7	8·7	3·2	16·6
Trading	71·3	2·3	1·3	74·9	23·1	0·2	0·1	23·4	2·1	..	..	2·1	..	..	..	..	2·5	0·7	0·4	3·7
Utilities & Transport	49·2	1·3	..	50·1	..	0·1	..	0·1	..	..	..	..	..	..	..	..	0·2	2·7	..	2·9
Mining	7·5	1·5	..	9·3	..	0·1	..	0·1	..	..	..	..	..	..	..	..	..	0·2	..	0·2
Financial	9·4	12·6	0·9	22·8	1·6	0·7	..	2·2	0·1	..	0·1	0·2	..	..	..	..	12·8	2·3	22·2	37·3
Plantations	80·8	5·5	..	86·2	..	0·1	..	0·1	..	..	..	..	..	..	..	..	..	0·9	..	0·9
Miscellaneous	17·4	5·2	0·9	23·5	0·1	0·5	..	0·6	..	..	..	..	..	..	..	..	2·2	0·4	..	2·7
Total	345·8	46·2	10·3	402·2	38·3	2·9	4·2	45·4	4·2	2·4	0·8	7·4	0·6	2·0	0·1	2·6	22·4	15·9	25·9	64·3

Data in respect of foreign liabilities of business enterprises in India comprise (*a*) the net position of branches of foreign-incorporated companies which is a composite of short-term and long-term obligations, (*b*) all the long-term obligations of Indian joint-stock companies such as shares, debentures and loans and advances.

These liabilities have been classified under three heads, *viz.*, direct investments, portfolio investments and miscellaneous obligations.

Where foreign investments are accompanied by control and direction of the enterprises by foreign investors, such investment may be said to belong to the direct category.*

Portfolio investments comprise ordinary shares held by non-residents, other than those treated as direct-controlled, as well as preference shares and debentures held by all non-residents.

Miscellaneous obligations represent loans and advances, including inter-company/inter-branch balances, and liabilities to non-residents in respect of life and non-life insurance policies.

The combined total of direct and portfolio investments is regarded as business investments.

Total liabilities of business enterprises (*vide* table 4) as at the end of 1955 aggregated Rs. 522 crores of which business investments amounted to Rs. 481 crores.

The latter was predominantly in the form of branch investments and equity holdings while creditor capital amounted to only about 3 per cent of the total.

The bulk of the investments was of the direct category, portfolio obligations being less than 15 per cent of the total.

There are some striking differences with regard to the distribution of each type of business investment among the different business activities. The foreign branches have largely invested their capital in trading, utilities and transport, and plantations. Direct-controlled joint-stock companies, especially the subsidiaries, have concentrated their investments mainly in the manufacturing sector.

Britain continued to occupy the predominant position amongst creditor countries (*vide* table 5). Liabilities to the U.K. at the end of 1955 exceeded Rs. 400 crores or 77 per cent of the total of foreign business liabilities.

The U.S.A. accounted for some Rs. 45 crores of capital a large part of which was invested in petroleum activities.

The remaining countries taken as a whole provided Rs. 74 crores of which nearly one-half represented financial liabilities.

The long-term foreign assets of the Indian joint-stock companies as on 31-12-1955 amounted to Rs. 54 crores.

The banking and insurance companies accounted for Rs. 15 crores of this total, while other joint-stock companies had invested abroad Rs. 39 crores.

The holdings were mainly in the form of ordinary shares and immovable property (Rs. 19·2 crores), Government securities (Rs. 18·9 crores) and inter-company balances and loans and advances, etc. (Rs. 12·8 crores).

A considerable portion of the assets represented claims on the U.K. (Rs. 20·0 crores) and Pakistan (Rs. 17·6 crores); the rest of the assets were distributed among a large number of countries.

Comparing the figures compiled under the present Survey with those under the Survey for 1953 it will be seen that foreign-held business investments in India showed an increase of Rs. 61 crores during the two years, and stood at Rs. 481 crores on 31st December 1955 (*vide* table 6). Since during this period some valuation changes have also taken place, the difference of Rs. 61 crores mentioned above does not correspond to the net movement of capital. Such valuation changes can affect the balance sheet values of both fixed and floating assets.

In the recent period valuations were largely confined to the tea companies. During 1954-1955, the tea companies resorted to revaluation of their fixed assets to an unusual extent and as a result, the foreign investments in this sector were written up by as much as Rs. 20 crores. The revaluation of the fixed assets in the other industries, however, appears to be of a small order to the extent of not more than Rs. 2 crores at the most.

Valuation changes in respect of the floating assets are likely to be significant only during times of substantial price movements. The years 1953 to 1955 were a period of price stability, at any rate, for raw materials and manufactured goods, which constitute the bulk of the floating assets of business concerns. It appears that the valuation changes in respect of floating stocks are unlikely to have influenced the changes in the levels of foreign business investment to any significant extent between 1953 and 1955.

TABLE 6.—FOREIGN BUSINESS INVESTMENTS

(Crores of Rupees)

	30-6-1948	31-12-1955
Manufacturing ..	72·0	163·3
Trading ..	64·4	102·3
Utilities & Transport	31·2	53·1
Mining	11·5	9·6
Financial		
(*a*) Banking ..	31·7	20 2
(*b*) Others	6·9	19·1
Plantations	52·3	87·2
Miscellaneous ..	17·7	25·9
Total	287·6	480·6

Adjusting for valuation changes, the net change in the foreign business investment would be of the order of Rs. 30 crores as against the unadjusted figure of Rs. 61 crores. Excluding from the total some Rs. 4 crores of banking capital, which is mostly in the nature of liquid and floating assets, the non-banking business investments would amount to Rs. 35 crores.

The available data do not permit an accurate estimation of the gross movements of capital in respect of non-banking business enterprises. However, a rough estimate of the cash transfers inward and outward, and net accumulation of earnings by foreign investors in India has been made; deducting this estimated figure from the total figure for the investments in the non-banking enterprises an estimate mainly of investments in kind has been obtained.

Cash transfers on account of repatriation of foreign investments are estimated at Rs. 10 crores while inward remittances for investment purposes amounted to about Rs. 3 crores giving a net outflow of funds of Rs. 7 crores. As regards the retained earnings, it would appear that there was a net inflow of foreign capital of Rs. 23 crores; the residual capital inflow in investments in kind etc. must therefore have been of Rs. 19 crores.

Table 7 compares the 1954-1955 pattern of capital inflow with the corresponding pattern relating to the period July 1948-December 1953.

TABLE 7.—PATTERN OF CAPITAL INFLOW

(Crores of Rupees)

	July 1948 to Dec 1953	1954 and 1955
Total change in business investments ..	132	61
Estimated revaluation of assets	−12 to 15	−22
Change in banking investments	16	− 4
Estimated non-banking capital inflow ..	133−136	35
(*a*) Cash transfers (net) (excluding transfers of accumulated earnings)	−15 to 20	− 7
(*b*) Retained earnings (net) ..	70	23
(*c*) Investments in kind, etc. (derived)	85	19

Table 8 presents a classification of the changes in the foreign investments, under main business activities in a form slightly different from that given earlier.

Petroleum activities appear in the table as a separate group and are excluded from the groups 'Manufacturing' and 'Trading', with a view to showing the importance of this field of investment during the two periods.

TABLE 8.—NON-BANKING BUSINESS INVESTMENTS

(Crores of Rupees)

	July 1948 to Dec. 1953	1954 and 1955
Petroleum : trading	+ 46·1	+ 8·1
Petroleum : manufacturing	+ 8·7	+18 7
Manufacturing ..	+ 55·1	+ 8 9
Trading	− 15·7	− 0 6
Utilities and Transport	+ 19·3	+ 2·5
Mining	− 3 1	+ 1 2
Financial	+ 7·8	+ 4·4
Plantations ..	+ 19 3	+15·7
Miscellaneous ..	+ 10·0	− 1·8
Valuation changes	− 12 0 to 15·0	−22·0
Total	+132·5 to 135·5	+35·2

As in the past direct investments continued to occupy a predominant position in 1954-1955 also. Even as regards direct investments, investments in the Controlled joint stock companies were much larger than those in branches of foreign incorporated companies.

* The branches of foreign companies, the ownership and direction of which are wholly in the hands of foreign owners are the obvious instances of direct investments. The following types of Indian Joint Stock Companies are also treated as direct controlled *viz.*, (*i*) subsidiaries of foreign parent companies, (*ii*) with a few exceptions, companies 40 per cent or more of the shares of which are owned by non-residents belonging to one country, (*iii*) companies managed by foreign-controlled managing agents in terms of managing agency agreements and (*iv*) companies 25 per cent or more of whose shares are owned by another foreign-controlled company in India. Only ordinary shares are taken into account for computing direct investments in Indian joint stock companies.

TABLE 9

	July 1948 to Dec. 1953	1954–55
Direct Investments		
(a) Branches ..	+ 73·4 to 76·4	+11·8
(b) Controlled Joint Stock Companies	+ 38·1	+24·5
Total	+111·5 to 114·5	+36·3
Portfolio investments ..	+ 21·1	— 1·1
Total capital inflow	+132·5 to 135·5	+35·2

This trend is in contrast with the one witnessed during the earlier period when investment through the branches was much more important.

The available information shows that a large part of investments during 1954–55 was in companies established after 30-6-1948. As shown in the table below, petroleum-manufacturing companies accounted for most of the investment in the new companies during 1954–1955.

TABLE 10

(Crores of Rupees)

	New companies	Old companies	All companies
Petroleum: trading	—	8·1	8·1
Petroleum: manufacturing	19·5	−0·8	18·7
Manufacturing (other than petroleum)	3·4	5·5	8·9
All others	1·0	−1·5	−0·5
Total	24·0	11·2	35·2

A greater part of the investments in the old companies was concentrated in the petroleum trading companies.

The manufacturing investments (other than Petroleum) in the old companies at Rs. 5·5 crores were also somewhat larger than in new companies. In other activities, there was on the whole some repatriation of funds by the old companies as compared to an investment of Rs. 1 crore in new companies.

The foregoing estimate of the foreign business investments does not take into account certain other capital movements, affecting the joint stock companies.

These represent capital receipts and payments associated with (*a*) the borrowings abroad by way of loans and advances and (*b*) the acquisition of foreign assets of various kinds by the joint-stock companies.

Such data have been obtained only for obligations with a maturity of more than a year. The inter-company advances as well as other loans and advances obtained by the companies resulted in a capital-inflow of Rs. 5 crores part of which represented advances secured by the petroleum refining companies.

Foreign assets of the companies showed hardly any significant changes between 1953 and 1955.

Since the loans and advances obtained by the companies appear to be mainly connected with the financing of fixed capital, they are to be included while arriving at the total figure for the long-term capital obtained from abroad by the companies. Including this inflow, therefore, the foreign investments in the non-banking business enterprises in India during 1954–1955 would be of the order Rs. 40 crores.

The average annual rate of capital inflow would be Rs. 20 crores during 1954–1955, as against Rs. 25 crores during the period July 1948 to December 1953.

A country-wise breakdown of the change in business investments during the middle of 1948 to the end of 1955 shows certain interesting features.

The industrially advanced countries have, over the period, added to their investments substantially. Four industrial countries, *viz.*, the U.K., the U.S.A., Western Germany and Switzerland increased their investments by nearly Rs. 175 crores (Rs. 135–140 crores during July 1948 to December 1953 and Rs. 36 crores during 1954–1955).

In addition, resources provided by the I.B.R.D. to private companies (representing capital provided by industrial countries) amounted to about Rs. 3 crores.

The other countries, taken as a whole, reduced their investments by Rs. 7 crores. Pakistan, Ceylon and Burma were among the countries whose investments showed a considerable reduction during this period.

TABLE 11.—CHANGES IN NON-BANKING BUSINESS INVESTMENTS (COUNTRY-WISE)

(Crores of Rupees)

Country	July 1948 and Dec. 1953	1954 and 1955
U.K.	+131·7	+45·0
U.S.A.	+ 18·9	+ 9·7
Germany ..	..	+ 2·5
Switzerland ..	+ 0·6	+ 0·6
Pakistan ..	− 4·3	+ 0·2
I.B.R.D. ..	—	+ 2·7
Other countries	+ 0·6	− 3·6
Less valuation changes ..	−12·0 to 15·0	−22·0
Total	+132·5 to 135·5	+35·2

The U.K. maintained its position as the leading investor of capital during 1954–1955; however, its investment during this period was much smaller than that during the earlier period.

Adjusting for the revaluation of assets, the increase in the U.K. investments during 1954–55 was around Rs. 23–24 crores or Rs. 11 to Rs. 12 crores a year. The average annual inflow during the earlier period at Rs. 21–22 crores, however, was almost double the size of the inflow during this period.

On the other hand, there was a considerable stepping up of the rate of investment from the U.S.A. from the average of Rs. 3·4 crores (during July 1948 to December 1953) to Rs. 4·0 crores during 1954–1955; the U.S. investment during 1954–1955 however was mainly under petroleum activities.

The German investments also showed marked increases during 1954–1955, though Germany's total investments still are not very significant.

STATEMENT 1

FOREIGN BUSINESS INVESTMENTS

Trade-wise

(Lakhs of Rupees)

	30-6-1948	31-12-1955
Manufacturing		
Mineral Oils and Products ..	1,01	28,41
Electrical Goods	4,77	14,63
Matches ..	1,73	2,29
Cigarettes and Tobacco ..	6,17	24,94
Medicines and Pharmaceuticals ..	45	7,65
Iron and Steel Products ..	5,48	9,43
Food Products including Vegetable Oils ..	1,82	3,22
Others	50,52	72,75
Total ..	71,95	163,32
Trading		
Mineral Oils and Products ..	21,32	75,50
Iron and Steel Products ..	3,62	89
Jute and Coir Goods ..	2,64	48
Food Products including Vegetable Oils ..	3,49	1,19
Others	33,28	24,24
Total ..	64,35	102,30
Utilities	18,61	41,26
Transport	12,62	11,79
Mining	11,46	9,62
Financial		
Banking ..	31,74	20,15
Others	6,87	19,11
Total ..	38,61	39,26
Plantations		
Tea	50,31	86,26
Others	1,94	94
Total ..	52,25	87,20
Miscellaneous		
Managing Agency	14,40	24,62
Others	3,32	1,27
Total ..	17,72	25,89
GRAND TOTAL ..	287,57	480,64

STATEMENT 2

FOREIGN BUSINESS INVESTMENTS

Country-wise

(Lakhs of Rupees)

	30-6-1948	31-12-1955
Australia	17	39
Burma	3,00	13
Canada	51	1,45
Ceylon	2,59	28
Germany	35	2,54
Japan	22	2,46
Malaya	2,13	2,15
New Zealand ..	16	20
Pakistan	12,16	5,17
Switzerland ..	5,76	6,62
United Kingdom ..	209,95	291,99
United States ..	17,96	41,16
Other Countries ..	32,31	26,10
Total ..	287,57	480,64

STATEMENT 3

FOREIGN BUSINESS INVESTMENTS IN INDIAN JOINT-STOCK COMPANIES*

As on 31-12-1955.

Trade-wise

(Lakhs of Rupees)

	EQUITY CAPITAL				CREDITOR CAPITAL			
	Ordinary Shares (Controlled from abroad)	Ordinary Shares (Portfolio)	Deferred Shares	Total Equity Capital	Preference Shares	Debentures	Total Creditor Capital	GRAND TOTAL
Manufacturing	98,36	23,95	15	122,46	3,50	3,98‡	7,48	129,94
Trading	9,80	1,99	..	11,79	1,06	22	1,28	13,07
Utilities & Transport	2,21	2,98	..	5,19	13	1,49‡	1,62	6,81
Mining	2,52	1,73	..	4,25	5	4	9	4,34
Financial	12,06	14,32	2	26,42	49	65	1,14	27,56
Plantations	87	6,25	..	7,12	15	2	17	7,29
Miscellaneous	17,75	3,90	..	21,65	1,82	49	2,31	23,96
Total	143,59	55,12	17	198,88	7,20	6,89	14,09	212,97

* This Statement covers information shown in Columns 2, 4 and 5 of Statement 8.

‡ Includes IBRD loans of 1,97 for 'Manufacturing' and 73 for 'Utilities'.

STATEMENT 4

FOREIGN BUSINESS INVESTMENTS

As on 31-12-1955.

Country-wise

(Lakhs of Rupees)

	Manufacturing	Trading	Utilities & Transport	Mining	Financial	Plantations	Miscellaneous	Total
United Kingdom								
Direct Investments								
(a) Foreign Branches	28,97	64,06	46,20	5,28	1,71	79,89	1,80	227,91
(b) Controlled Indian Cos.	82,00	7,21	2,04	2,52	7,64	89	15,56	117,86
Portfolio Investments	17,32	2,32	1,84	1,51	12,56	5,45	5,22	46,22
Total	128,29	73,59	50,08	9,31	21,91	86,23	22,58	391,99
United States								
Direct Investments								
(a) Foreign Branches	3,84	22,60	..	..	1,59	..	—1	28,02
(b) Controlled Indian Cos.	9,63	52	..	..	..	..	10	10,25
Portfolio Investments	1,29	24	5	5	65	7	54	2,89
Total	14,76	23,36	5	5	2,24	7	63	41,16
Switzerland								
Direct Investments	2,05	2,11	..	..	8	..	..	4,24
Portfolio Investments	2,30	..	1	2	1	3	1	2,38
Total	4,35	2,11	1	2	9	3	1	6,62
Germany								
Direct Investments	59	..	..	..	..	..	..	59
Portfolio Investments	1,95	..	..	..	..	..	..	1,95
Total	2,54	..	..	..	..	..	..	2,54
Other Countries								
Direct Investments	4,66	2,53	21	..	12,76	..	2,23	22,39
Portfolio Investments	5,72	71	2,70	24	2,26	87	44	15,94
Total	13,38	3,24	2,91	24	15,02	87	2,67	38,33*
GRAND TOTAL	162,32	102,30	58,06	9,62	39,26	97,20	25,89	490,64

* Includes 5,17 from Pakistan, 246 from Japan, 2,15 from Malaya, 1,45 from Canada, 39 from Australia, 28 from Ceylon, 20 from New Zealand 13 from Burma and 2,70 from IBRD.

STATEMENT 5

DISTRIBUTION OF THE ORDINARY SHARES OF INDIAN JOINT-STOCK COMPANIES CONTROLLED ABROAD

As on 31-12-1955.

(A) Trade-wise

(Lakhs of Rupees).

	Subsidiary Companies			Managed Companies			Other Controlled Companies		
	Total Ordinary Shares Value	Controlled abroad Value	Per cent	Total Ordinary Shares Value	Controlled abroad Value	Per cent	Total Ordinary Shares Value	Controlled abroad Value	Per cent
Manufacturing									
Mineral Oils and Products	19,53	19,53	100	..	..	..	..	..	..
Cigarettes and Tobacco	26,87	24,78	92	..	..	..	..	..	..
Others	55,52	46,76	84	42,43	1,50 (8,91)	4 (21)	12,07	5,79	48
Trading									
Mineral Oils and Products	2,46	1,50	61	..	..	..	..	..	..
Others	6,40	6,25	98	49	1 (2)	2 (4)	3,75	2,04	54
Utilities and Transport	..	..	..	5,31	.. (32)	.. (6)	2,83	2,21	78
Mining	1,72	1,72	100	6,20	.. (1,30)	.. (21)	1,18	80	68
Financial	10,46	8,42	80	2,18	.. (9)	.. (4)	3,85	3,66	95
Plantations	61	57	93	21,59	2 (3,28)	.. (15)	73	28	38
Miscellaneous									
Managing Agency	10,32	9,56	93	..	..	..	14,21	7,90	56
Others	27	27	100	33	..	..	5	2	40
TOTAL	134,16	119,36	89	78,53	1,53 (13,92)	2 (18)	38,67	22,70	59
				(B) Country-wise					
U.K.	107,05	94,90	89	75,09	1,52 (12,35)	2 (17)	36,28	21,45	59
U.S.A.	10,26	10,13	99	..	..	..	16	12	75
Switzerland	2,76	2,37	86	1	1 (1)	100 (100)	12	5	42
Malaya	2,08	2,08	100	3,43	.. (1,56)	.. (45)	29	..	..
Other Countries	12,01	9,87	82	..	..	..	1,82	1,07	59
Total	134,16	119,36	89	78,53	1,53 (13,92)	2 (18)	38,67	22,70	59

Note :—1. Figures under the column 'Controlled abroad' exclude, by and large, holdings by one foreign controlled company in another.

2. Figures in brackets under 'Managed Companies' relate to the shares held by the Managing Agents and those controlled abroad.

STATEMENT 6

CHANGES IN FOREIGN BUSINESS INVESTMENTS BETWEEN JUNE 30, 1948 AND DECEMBER 31, 1955

Increase +
Decrease −
(Lakhs of Rupees).

	DIRECT INVESTMENTS						PORTFOLIO INVESTMENTS		TOTAL BUSINESS INVESTMENTS	
	Foreign Branches		Controlled Indian Companies		Total					
	1948–53†	1953–55*	1948–53†	1953–55*	1948–53†	1953–55*	1948–53†	1953–55*	1948–53†	1953–55*
Manufacturing										
Mineral Oils & Products	+ 8,51	− 79	+ 5	+ 19,48	+ 8,56	+ 18,69	+ 12	+ 3	+ 8,68	+ 18,72
Electrical Goods	+ 2,09	− 6	+ 4,46	+ 1,79	+ 6,55	+ 1,73	+ 69	+ 89	+ 7,24	+ 2,62
Matches	..	..	+ 1,08	+ 4	+ 1,08	+ 4	+ 41	− 97	+ 1,49	− 93
Cigarettes & Tobacco	+ 54	..	+ 18,76	− 55	+ 19,30	− 55	+ 18	− 16	+ 19,48	− 71
Medicines & Pharmaceuticals	+ 71	+ 43	+ 3,66	+ 1,11	+ 4,37	+ 1,54	+ 71	+ 58	+ 5,08	+ 2,12
Iron & Steel Products	− 2	..	+ 1,23	+ 1,29	+ 1,21	+ 1,29	− 1	+ 1,46	+ 1,20	+ 2,75
Food Products including Vegetable Oils	..	..	+ 1,91	− 91	+ 1,91	− 91	+ 24	+ 16	+ 2,15	− 75
Others	+ 2,95	+ 3,11	+ 10,91	+ 39	+ 13,86	+ 3,50	+ 4,59	+ 28	+ 18,45	+ 3,78
TOTAL	+ 14,78	+ 2,69	+ 42,06	+ 22,64	+ 56,84	+ 25,33	+ 6,98	+ 2,27	+ 63,77	+ 27,60
Trading										
Food Products including Vegetable Oils	+ 57	+ 60	− 3,26	+ 1	− 2,69	+ 61	− 22	..	− 2,91	+ 61
Iron & Steel Products	− 2,50	+ 1	− 14	+ 16	− 2,64	+ 17	− 29	+ 3	− 2,93	+ 20
Jute & Coir Goods	− 1,98	− 5	− 2	− 9	− 2,00	− 14	+ 18	− 20	− 1,82	− 34
Mineral Oils & Products	+ 44,68	+ 8,49	+ 1,50	− 32	+ 46,18	+ 8,17	− 10	− 7	+ 46,08	+ 8,10
Others	− 11,02	− 1,62	+ 2,75	− 27	− 8,27	− 1,89	+ 28	+ 84	− 7,99	− 1,05
Total	+ 29,75	+ 7,43	+ 83	− 51	+ 30,58	+ 6,92	− 15	+ 60	+ 30,43	+ 7,52
Utilities & Transport	+ 19,84	+ 2,51	+ 42	− 10	+ 20,26	+ 2,41	− 95	+ 10	+ 19,31	+ 2,51
Mining	− 3,84	+ 1,72	+ 1,09	− 11	− 2,75	+ 1,61	− 33	− 37	− 3,08	+ 1,24
Financial										
Banking	− 14,11	+ 3,50	..	..	− 14,11	+ 3,50	− 1,43	+ 45	− 15,54	+ 3,95
Others	+ 3,00	+ 2,17	− 4,03	+ 2,48	− 1,03	+ 4,65	+ 8,86	− 24	+ 7,83	+ 4,41
Total	− 11,11	+ 5,67	− 4,03	+ 2,48	− 15,14	+ 8,15	+ 7,43	+ 21	− 7,71	+ 8,36
Plantations										
Tea	+ 20,94	+ 16,93	− 1,57	− 1	+ 19,37	+ 16,92	+ 49	− 83	+ 19,86	+ 16,09
Others	− 12	− 24	− 24	+ 1	− 36	− 23	− 25	− 16	− 61	− 39
Total	+ 20,82	+ 16,69	− 1,81	..	+ 19,01	+ 16,69	+ 24	− 99	+ 19,25	+ 15,70
Miscellaneous										
Managing Agency	− 49	− 32	+ 6,14	+ 1,02	+ 5,65	+ 70	+ 6,15	− 2,28	+ 11,80	− 1,58
Others	− 51	− 7	− 1,60	+ 3	− 2,11	− 4	+ 31	− 21	− 1,80	− 25
Total	− 1,00	− 39	+ 4,54	+ 1,05	+ 3,54	+ 66	+ 6,46	− 2,49	+ 10,00	− 1,83
GRAND TOTAL	+ 69,24	+ 36,32	+ 43,10	+ 25,45	+ 112,34	+ 61,77	+ 19,63	− 67	+ 131,97	+ 61,10

† Between June 30, 1948 and December 31, 1953.
* Between December 31, 1953 and December 31, 1955.

Below we give some more significant tables :

STATEMENT 7

FOREIGN LIABILITIES OF THE OFFICIAL SECTOR

As on 31-12-1955.

(Lakhs of Rupees).

	Australia	Burma	Canada	Ceylon	Germany	Japan	Malaya	New Zealand	Pakistan	Switzerland	United Kingdom	United States	IMF & IBRD	Other Countries	Total
Central Government															
Government Securities	9	79	33	2,37	..	1	23	13	24,76	27	3,49	3,34	..	3,29	39,10
Loans*	..	..	..	..	..	..	..	..	..	..	23,42	91,41	26,29	..	141,12
Import Credits	..	..	..	..	..	46	..	..	..	..	1	..	..	..	47
Others	..	..	..	..	2,13	2,19	..	..	18	..	..	..	..	49	4,99
Total	9	79	33	2,37	2,13	2,66	23	13	24,94	27	26,92	94,75	26,29	3,78	185,68
State Governments															
Government Securities	..	..	..	..	..	..	..	..	3	..	3	..	..	4	10
Import Credits	..	..	..	..	1	..	..	..	..	..	..	..	..	6	7
Others	..	..	..	..	..	..	..	..	..	..	36	..	..	..	36
Total	..	..	..	..	1	..	..	..	3	..	39	..	..	10	53
Other Official															
Government Securities	..	..	..	..	..	..	..	..	2	3	30	..	..	19	54
Import Credits	..	..	..	..	1,89	..	..	..	..	..	33	84	..	3,41	6,47
Others	..	..	..	..	..	..	..	..	1	..	6	..	..	..	7
Total	..	..	..	..	1,89	..	..	..	3	3	69	84	..	3,60	7,08
GRAND TOTAL	9	79	33	2,37	4,03	2,66	23	13	25,00	30	28,00	95,59	26,29	7,48	193,92

Note : Figures in respect of 'Other Liabilities' are partly estimated.
* For details see Statement 3.

STATEMENT 8

FOREIGN ASSETS OF THE OFFICIAL SECTOR

As on 31-12-1955.

(Lakhs of Rupees).

	Australia	Burma	Canada	Ceylon	New Zealand	Pakistan	Japan	Malaya	Switzerland	United Kingdom	United States	IMF & IBRD	Other Countries	Total
Central Government														
Government Securities	..	..	..	..	..	..	..	..	..	7,20	..	2,40	..	9,60
Shares and Debentures	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Other Assets	..	7	7	..	..	300,21†	7	10	4	50,86‡	35	16,89§	35	369,01
Total	..	7	7	..	..	300,21	7	10	4	58,06	35	19,29	35	378,61
State Governments														
Government Securities	16	26	..	1	2	12	..	..	..	18	..	..	10	85
Shares and Debentures	..	..	..	1	..	7	..	..	..	2	..	..	..	10
Other Assets	..	..	..	..	..	28	..	..	..	7	..	..	..	35
Total	16	26	..	2	2	47	..	..	..	27	..	..	10	1,30
Other Official														
Government Securities	1	4	1	..	..	2	..	..	..	334,19	..	..	1	334,28
Shares and Debentures	..	..	..	1	..	..	..	..	..	5	..	..	1	7
Other Assets	..	..	..	..	..	9	..	..	..	21	28	..	..	61
Total	1	4	1	1	..	11	..	..	..	334,48	28	..	2	334,96
GRAND TOTAL	17	37	8	3	2	300,79	7	10	4	392,81	63	19,29	47	714,87

Note :—Figures in respect of 'Other Assets' are partly estimated.
† Includes Rs. 300 crores on account of Partition Debt due from Pakistan.
‡ Includes (a) claim on the U.K. amounting to Rs. 48 crores under the 1955 Pensions Settlement and (b) Rs. 2·26 crores in respect of Railway annuities.
§ Represents gold and dollar subscriptions towards India's quotas in IMF and IBRD.

STATEMENT 9
INDIA'S INTERNATIONAL INVESTMENT POSITION
By Type of Obligation

(Lakhs of Rupees)

	LIABILITIES		ASSETS		NET POSITION*	
	30-6-1948	31-12-1955	30-6-1948	31-12-1955	30-6-1948	31-12-1955
Deposits	94,85	36,47	46,36	46,99	— 48,49	+ 10,52
Loans & Advances including Inter-Company Balances	67,96	175,14	5,41	15,67	— 62,55	— 159,47
Securities	57,37	54,07	1,567,46	796,19	+ 1,510,09	+ 742,12
Shares, Debentures & Branch Investments	261,55	465,25	4,49	13,70	— 257,06	— 451,55
Residual Items	22,49	35,40	384,98	379,24	+ 362,49	+ 343,84
Total	504,22	766,33	2,008,70	1,251,79	+ 1,504,48	+ 485,46

* Excess of assets over liabilities is indicated by a + sign, while excess of liabilities over assets is indicated by a — sign.

STATEMENT 10
INDIA'S INTERNATIONAL INVESTMENT POSITION
Country-wise

(Lakhs of Rupees)

	LIABILITIES		ASSETS		NET POSITION*	
	30-6-1948	31-12-1955	30-6-1948	31-12-1955	30-6-1948	31-12-1955
Australia	45	56	52	72	+ 7	+ 16
Burma	8,84	5,52	54,19	3,90	+ 45,35	— 1,62
Canada	28	3,31	36	3,20	+ 8	— 11
Ceylon	30,14	9,79	1,28	4,13	— 28,86	— 5,66
Germany	3,16	7,17	1,07	12	— 2,09	— 7,05
Japan	3,16	2,86	1,84	17	— 1,32	— 2,69
Malaya	3,29	8,85	1,30	2,82	— 1,99	— 6,03
New Zealand	38	38	1	11	— 37	— 27
Pakistan	66,77	50,67	322,50	320,20	+ 255,73	+ 269,53
Switzerland	6,85	9,48	..	27	— 6,85	— 9,21
U.K.	298,16	443,58	1,591,19	852,13	+ 1,293,03	+ 408,55
U.S.A.	20,20	140,61	15,31	35,89	— 4,89	— 104,72
IMF & IBRD	14,90	29,27	11,75	19,29	— 3,15	— 9,98
Other Countries	47,64	54,28	7,38	8,84	— 40,26	— 45,44
Total	504,22	766,33	2,008,70	1,251,79	+ 1,504,48	+ 485,46

*Excess of assets over liabilities is indicated by a + sign, while excess of liabilities over assets is indicated by a — sign.

STATEMENT 11
INDIA'S INTERNATIONAL INVESTMENT POSITION
As on 31-12-1955.
By Type of Obligation.

(Lakhs of Rupees)

	OFFICIAL							NON-OFFICIAL						
	SHORT-TERM		LONG-TERM		TOTAL			SHORT-TERM		LONG-TERM		TOTAL		
	Liabilities	Assets	Liabilities	Assets	Liabilities	Assets	*Net Position*	Liabilities	Assets	Liabilities	Assets	Liabilities	Assets	*Net Position*
Deposits	2,28	28,26	..	2,77	2,28	31,03	+ 28·75	34,19	15,54	..	42	34,19	15,96	— 18,23
Loans & Advances including Inter-Company Balances	..	..	141,12	..	141,12	..	— 141,12	15,76	2,89	18,26	12,78	34,02	15,67	— 18,35
Securities	14,33	427,53	39,74	344,73	54,07	772,26	+ 718,19	..	..	..	23,92	..	23,92	+ 23,92
Shares, Debentures & Branch Investments	..	..	..	17	..	17	+ 17	..	..	465,25*	13,54	465,25	13,54	— 451,71
Residual Items	..	..	12,44	367,20	12,44	367,20	+ 354,76	..	..	22,96	12,04	22,96	12,04	— 10,92
Total	16,61	455,79	193,30	714,87	209,91	1,170,66	+ 960,75	49,95	18,43	506,47	62,70	556,42	81,13	— 475,29

* This would be equal to Total Business Investments *Less* net position of Branches of Foreign Banks. The latter comprises mainly Short-ter Obligations and Claims. With the help of Exchange Control Records, information in regard to Banking Liabilities and Assets have been obtained o a gross basis and entered appropriately under different heads.

STATEMENT 12

INDIA'S INTERNATIONAL INVESTMENT POSITION

As on 31-12-1955.

(Lakhs of Rupees)

	SHORT-TERM							LONG-TERM						
	Official		Non-official		Net Position			Official		Non-official		Net position		
	Liabilities	Assets	Liabilities	Assets	Official	Non-official	Total	Liabilities	Assets	Liabilities	Assets	Official	Non-official	Total
Australia ..	..	..	6	11	..	+ 5	+ 5	9	17	41	44	+ 8	+ 3	+ 11
Burma	41	..	2,63	9	— 41	— 2,54	— 2,95	79	37	1,69	3,44	— 42	+ 1,75	+ 1,33
Canada ..	..	2,51	1,00	28	+ 2,51	— 72	+ 1,79	33	8	1,98	33	— 25	— 1,65	— 1,90
Ceylon ..	1,09	..	1,49	10	— 1,09	— 1,39	— 2,48	2,37	3	4,84	4,00	— 2,34	— 84	— 3,18
Germany ..	..	..	49	..	..	— 49	— 49	4,03	..	2,65	12	— 4,03	— 2,53	— 6,56
Japan	..	..	2	..	..	— 2	— 2	2,66	7	18	10	— 2,59	— 8	— 2,67
Malaya ..	..	..	3,00	1,68	..	— 1,32	— 1,32	23	10	5,62	1,04	— 13	— 4,58	— 4,71
New Zealand ..	..	..	5	..	..	— 5	— 5	13	2	20	9	— 11	— 11	— 22
Pakistan ..	13,85	43	1,65	1,15	— 13,42	— 50	— 13,92	25,00	300,79	10,17	17,83	+ 275,79	+ 7,66	+ 283,45
Switzerland ..	..	..	1,76	..	..	— 1,76	— 1,76	30	4	7,42	23	— 26	— 7,19	— 7,45
U.K.	1	422,04	18,88	10,04	+ 422,03	— 8,84	+ 413,19	28,00	392,81	396,69	27,24	+ 364,81	— 369,45	— 4,64
U.S.A. ..	..	30,81	1,06	3,66	+ 30,81	+ 2,60	+ 33,41	95,60	63	43,95	79	— 94,97	— 43,16	— 138,13
IMF & IBRD	29	..	..	..	— 29	..	— 29	26,29	19,29	2,69	..	— 7,00	— 2,69	— 9,69
Other Countries	96	..	17,66	1,32	— 96	— 16,54	— 17,50	7,48	47	27,98	7,05	— 7,01	— 20,93	— 27,94
Total ..	16,61	455,79	49,95	18,43	+ 439,18	— 31,52	+ 407,66	193,30	714,87	506,47	62,70	+ 521,57	— 443,77	+ 77,80

GOVERNMENT INDUSTRIAL UNDERTAKINGS

IN the following pages we give short notes on Government industrial undertakings.

The following are under the Ministry of Commerce and Industry: Hindustan Insecticides, Bharat Electronics Ltd, Hindustan Machine Tools Ltd., Nahan Foundry Ltd, National Instruments Factory, Hindustan Antibiotics, Sindri Fertilisers and Chemicals Ltd, Hindustan Cables Ltd.

The following factory is under the Ministry of Defence: Hindustan Aircraft Ltd.

The following factory is under the Ministry of Communications: Indian Telephone Industries.

The following factories are under the Ministry of Atomic Energy Indian Rare Earths Ltd.; Thorium Plant.

The following factories are under the Ministry of Railways: Chittaranjan Locomotive Works; Integral Coach Factory.

The following factory is under the Ministry of Steel, Mines and Fuel: Hindustan Steel Ltd.

The following factory is under the Ministry of Finance (Dept. of Economic Affairs), Govt. of India: India Government Silver Refinery Project.

The following is under the Ministry of Transport.

Hindustan Shipyard (Private) Ltd

ATOMIC REACTOR

(Trombay, Bombay 38)

The Indian Atomic Reactor went into operation on 4th August 1956 at the Atomic Energy Establishment at Trombay, though the formal inauguration by the Prime Minister took place on 20th January 1957.

The Reactor is of the swimming pool type and derives its name from the fact that the core of the Reactor—a number of fuel elements on an aluminium grid plate—is suspended in a large pool of ordinary water.

There are 30 fuel elements and they are closely positioned on an aluminium grid plate about six inches thick. These fuel elements are made of an alloy of enriched uranium and aluminium sandwiched between two aluminium sheets. The size of the core is about 18" x 18" x 24" and requires nearly 3·5 kgs. of uranium 235 to start operation, or to use more technical language to reach criticality.

There are cadmium rods in the reactor which can be moved in and out so that the power of the reactor can be maintained at any desirable level.

The water in the pool acts as a moderator to slow down neutrons to thermal energies and as a coolant to remove heat of fission. It also serves as a shield against radiation. The pool is 10 feet wide, 28 feet long and 28 feet deep. The core of the reactor can be moved to any position in the tank by means of a trolley from which the core is suspended.

The sides of the tank are made of 8½ feet thick concrete walls which act as protection against radiation to personnel working around the reactor.

The reactor is designed to operate at a maximum power level of 1,000 kW.

Channels of cast iron with diameters of 1" by 6" are provided through the concrete through which neutron beams can be obtained for experiments in neutron physics.

At another end of the pool there is what is known as a shielding corner. Here the concrete wall is replaced by a one inch thick aluminium panel. This is for testing the shielding property of any material. The testing is done by putting the material on one side of the panel and the core of the reactor on the other.

Besides the swimming pool reactor, there are other research reactors under construction in the Atomic Energy Establishment.

One of these is the Canada-India Reactor, a gift of the Canadian Government under the Colombo Plan. This was expected to go into operation early in 1958. This is designed to operate at a maximum power level of 40,000 kW and gives high neutron intensities for research purposes It is housed in 130 feet diameter steel pressure shell rising about 140 feet above the ground This is a heavy water moderated natural uranium reactor.

It will produce significant amounts of radio isotopes and small amounts of plutonium 239 and uranium 233.

The reactor will also make possible the study of various reactor systems for use in power reactors.

A third reactor named Zerlina is in the design stage. Here buckling of new reactor assemblies using various materials can be studied. It is a zero energy reactor and will be used in the first instance for reactor systems containing mixed lattices of uranium and thorium in heavy water

All these research reactors can be used for training personnel and for a wide range of experiments in physics, engineering and biology —such as nuclear reactions, neutron scattering, absorption cross-sections effect of radiation at high intensities, crystallography, determination of 'danger coefficient'

The choice of reactor-types for power production is largely dependent on the availability of material For the production of enriched uranium, for example, expensive plant is necessary. In India this will have to be imported. Consequently power production would be based on reactors using natural uranium as large uranium bearing ores are available This means that only three moderators are possible namely graphite, heavy water and beryllium oxide Design studies for a prototype power reactor based on beryllium oxide and natural uranium to generate 5,000 kW of power are being done.

It is planned to set up large power stations in the country during the Second Five-Year Plan. These would probably be obtained from abroad, though substantial parts including graphite moderator and uranium would be produced in the country. Investigations are under way about the choice of suitable sites.

The Reactor is under the control of the Atomic Energy Department of the Government of India.

BHARAT ELECTRONICS (PRIVATE) LTD.

(Jalahalli P.O., Bangalore)

The establishment of a factory to produce electronic equipment was envisaged in April 1948 in the Industrial Policy Resolution of the Government of India. In pursuance of this policy leading radio manufacturers throughout the world were invited to prepare project reports for the establishment of a factory in India; and after these reports had been examined by Indian experts, the French firm Compagnie Generale de Telegraphie Sans Fil of Paris was selected as technical advisers to the Government of India

Bharat Electronics was registered as a private limited Company in April 1954 with its headquarters at Jalahalli, Bangalore. The authorised capital of the Company is Rs. 10 crores of which Rs. 5 crores has been subscribed. The entire capital is held by the Government of India.

The capital expenditure upto March 1958 was Rs. 243·48 lakhs

The factory began production in the latter half of December 1955. The production programme included manufacture of 400 Watt HF Transmitters and HF Communication Receivers. These were required for Civil Aviation, P. & T., Railways, etc. They have already supplied a number of receivers to the railways.

The present production programme includes VHF Trans-receivers, Rawin Transmitters for the India Meteorological Department and Consoles for the All India Radio in addition to the equipments that are already in production.

About 20 Indian engineers were sent to France and put through a training course in the factories of the French consultants. On their return, some of them are holding responsible posts in BEL, while others have been engaged in training local recruits at the Technical Training Centre of the factory, so that properly trained technicians may be available when required.

The present strength of the employees is approximately 1,200. When the factory is in full production, it will employ about 5,000 persons and will produce electronic equipment worth Rs 5 crores annually

The actual production was valued at Rs. 1·47 lakhs in 1955-56, Rs. 20·42 lakhs in 1956-57 and Rs. 48 33 lakhs in 1957-58.

The Company is run by a Board of nine Directors.

Chairman, Board of Directors, O Pulla Reddy, I.C.S. (Defence Secretary, Government of India)

Board of Management: A. K. Ghosh, I.C.S (General Manager and Managing Director); K. N Nair (Controller of Finance); C B Cariapa (Deputy General Manager), T. T Joseph (Commercial Manager); S S Moorthy Rao (Officer on Special Duty)

CHITTARANJAN LOCOMOTIVE WORKS

(Chittaranjan, Burdwan Dt., West Bengal)

Branch Office: Hindustan Buildings, 4, Chittaranjan Avenue, Calcutta 13)

The works are under the Ministry of Railways.

Construction started on April 1, 1948 and was completed on September 30, 1952.

Production started on January 26, 1950. The first locomotive rolled out on November 1, 1950

The total estimated cost is Rs. 14·93 crores.

The total number of workers (under Factory Act), 4,136; apprentices, 413; total, 4,749 (corrected up to August 1956).

A monthly out-turn of 14 W. G locomotives has been reached since August 1956 equivalent to 17·5 average-sized locos

The revised target for the Works is 200 locomotives per year.

Till the end of the First Plan period Chittaranjan had manufactured 341 W G locomotives

Upto March 31, 1958, 663 locomotives had been put into service

The out-turn for the financial year 1957-58 was 164 locomotives

Given the necessary raw or basic materials, Chittaranjan today can manufacture 100 per cent of the components it was designed to manufacture.

It is expected that by 1961—the end of the Second Plan—it would be possible to manufacture all the components of a locomotive in this country. At the end of 1957 the cost of the imported components was about Rs 50,000 per locomotive. The items imported consisted mainly of Bar frames, boiler plates, tyres and axles.

The production schedule has been as follows

Year	No. of locomotives
1951	15
1952	30
1953	54
1954	86
1955	128
1956 (upto end of December)	150

General Manager, K. Ramachandran.

HEAVY ELECTRICALS (PRIVATE) LTD.

(Ministry of Commerce and Industry)

A factory for the manufacture of heavy electrical equipment in the country is being set up near Bhopal in Madhya Pradesh by the Government of India with the technical collaboration of Messrs Associated Electrical Industries Ltd , of U K.

A Private Limited Company, known as Heavy Electricals (Private) Limited, with an authorized capital of Rs. 30 crores was incorporated on 29th August 1956 to control and manage this project

The factory is scheduled to start production in 1960 and gradually attain full production as envisaged in the first phase, by 1968 The full production of the second phase is expected to be reached by 1973 The factory will manufacture a large range of heavy electrical equipment for hydro electric projects and other power schemes and electrical traction equipment for the Railways

The items to be manufactured will include electrical generators of the water wheel driven type synchroniser condensers diesel generators industrial motors D C generators and motors crane motors power transformers high voltage switch gears, industrial control gears and water turbines

The capital cost of the Project anticipated in the first phase of development is about Rs 40 5 crores inclusive of the working capital An annual output of the factory expected on full development in this phase is Rs 12 5 crores The second phase of development envisages raising of the annual output to Rs 21 87 crores The additional capital expenditure involved in this phase is about Rs 10 crores

The man power employed in the Project at the end of the first phase is expected to number about 9 000 It will be double that figure at the end of the second phase

HEAVY PLANT AND MACHINERY

(Ministry of Commerce and Industry)

After obtaining expert technical advice from friendly countries the Government of India have decided to set up (1) a heavy machine building plant (2) a heavy foundry and forge plant (3) a mining equipment plant (4) a heavy machine tool factory, (5) a heavy structural works and (6) a heavy plate and vessel works

The proposed heavy machine building plant expected to be located at Ranchi in Bihar will have an initial capacity of 45 000 tons of machinery per year which can be raised later to 80 000 tons With that capacity the factory would be in a position to turn out every year two steel plants which can produce one million tons of steel each per year The principal items to be manufactured in the initial stage will be blast furnaces steel melting furnaces coke ovens and by-products plants, rolling mills cranes etc The estimated cost of the plant during the first stage will be about Rs 20 crores

The foundry forge project, which will have to be located in the vicinity of the heavy machine building plant, will manufacture heavy castings and forgings, i e metal parts required in heavy machines This is also likely to cost about Rs 20 crores and it will manufacture 28 000 tons of steel castings weighing up to 100 tons per piece It will besides, produce 30,000 tons of iron castings of the same weight per piece and over 27 000 tons of forgings per year, weighing up to 30 tons per piece This capacity could be doubled at a later stage.

The mining machinery plant will have an annual output of 80,000 tons per year of mining machines and equipment and will cost about Rs 13 crores. The principal items proposed to be manufactured are coal cutters, coal loaders, conveyors and conveyor drives, winders, haulages, mine locomotives, mine pumps and fans, etc.

The heavy machine tool factory, which will manufacture the machine tools required by the heavy machine building plant and other heavy engineering works, will be able to make 3,500 to 4 500 tons of machine tools per year on a single shift basis Its cost is estimated at Rs 5 crores The other two projects, i e heavy structural works and plate and vessel works will cost between them about Rs 6 3 crores and turn out 10 000 to 12,000 tons of structurals and 10,000 to 12,000 tons of plates and vessels required in heavy chemical industries

The heavy machine building plant and the mining equipment plant are proposed to be set up in collaboration with the Soviet Union while discussions for foreign collaboration for the other four projects are still going on All these projects will be in the public sector

Government have decided to establish a new company which will be called the Hindustan Heavy Engineering Corporation (Private) Ltd with an authorized capital of Rs 50 crores

HINDUSTAN AIRCRAFT (PRIVATE) LTD.

(Hindustan Aircraft P O , Bangalore District, Mysore

Tel & Cable address Aircraft, Bangalore)

The company is managed by a Board of Directors under the Ministry of Defence

Founded in 1940 the Hindustan Aircraft, Ltd is one of the largest aircraft manufacturing repairing and overhauling organisations in the East It has succeeded in establishing a sound aeronautical industry in the country, and in 1957 it was expected to take steps for the manufacture of jet engines and high speed fighter and trainer aircraft

Aviation Activities Production of Percival Prentice D H Vampire & HT 2 Trainers, Repair and Overhaul of Tigermoth Chipmunk and Dove aircraft Overhaul and Conversion of DC 3 aircraft Repair and Overhaul of P & W De Havilland and Bristol Engines and accessories C A A approved repair station Manufacture of Gnat Aircraft and Orpheus Aero Engines

In 1957 the Government concluded an agreement with the Bristol Aeroplane Company under which India obtained a licence to make the full range of Bristol Orpheus turbo jet engines Licence negotiations have also been completed with the Holland Aircraft Company for the manufacture by H A L of Britain's latest jet fighter the Gna The De Havilland Enterprises have appointed H A L as their repair and service agents in India The factory has also been approved by the Civil Aeronautical Administration of the U S A for the repair and overhaul of Dakota aircraft and engines

H A L built Vampire jet fighters today form part of the fleet of the Air Force The factory is also building jet trainers thus helping the Service in its transformation into an 'all jet' fighting force

Other activities H A L has since 1947, been building all metal third-class broad gauge railway coaches and acquired a capacity for 15 coaches a month More than 1,000 such coaches, with several new amenities, like night-lights electric fans sleeping accommodation and wash basins have been delivered to the Indian Railways and proved very popular with the travelling public One of the projects recently undertaken under the second Five-Year Plan is the manufacture of light-weight integral coaches in collaboration with MAN, a leading German firm, the target being 300 coaches a year H A L has also been manufacturing bus bodies and bus-body kits of its own design for several transport authorities in the country

Board of Directors

Chairman, O Pulla Reddy, I C S , Secretary, Ministry of Defence

Directors, J. R D. Tata; Air Marshal S Mukerjee (Chief of Air Staff, Indian Air Force); S Jayasankar (Financial Adviser, Ministry of Finance (Defence), Government of India); K. Narayanaswamy, I.A.S. (Director of Industries and Commerce, (Mysore)); J M Shrinagesh, C I E , I C S (General Manager and Managing Director)

Board of Management·

Chairman, J M Shrinagesh, C I E , I C S. (General Manager and Managing Director)

Members, V G Kamath (Finance Manager)· Dr V M. Ghatage (Chief Designer), A Zampolino (Factory Manager), J J M Dziewonski (Production Adviser), Dr K W Tank (Director of Engineering), S L Saksena, M B E (Deputy General Manager (Railcoach)) P M Reddy (Deputy General Manager (Engines))

HINDUSTAN ANTIBIOTICS (PRIVATE) LIMITED

(Pimpri, Poona District)

The Government of India Penicillin Plant now known as Hindustan Antibiotics (Private) Ltd is located at Pimpri, nine miles from Poona. It is a private limited company of the Government of India with all the shares held by the President of India and his nominees It is being managed by a Board of Directors with Col J R Dogra as the Managing Director

Starting in March 1952, the factory is now complete It went into full production in August 1955 On 12th September 1955 the first batch of Indian penicillin manufactured at the Pimpri Plant and bottled at its Bottling Plant in Bombay was put on sale On 11th December 1955, Rajkumari Amrit Kaur, then Union Minister for Health formally inaugurated the first bulk sales when 148 000 mega units of Pimpri manufactured penicillin were sold to leading pharmaceutical houses in India

The factory is located on a 200-acre site in Pimpri, about nine miles from Poona on the Poona-Bombay Road It was constructed on the basis of a tripartite agreement between the Government of India, the World Health Organisation (Since transferred to United Nations Technical Assistance Administration) and the United Nations Children's Emergency Fund The Indian Government provided the land, the buildings, equipment procurable locally, the electric sub-station, water supply system, sewage disposal unit and quarters, at an estimated overall cost of Rs 1 5 crores

The UNICEF supplied equipment to the value of $850,000 The WHO provided technical 'know-how' and training facilities abroad to Indian scientists involving an expenditure $350,000

The designed capacity of the plant is 9 million mega (9,000 billion) units per year but the plant is now producing at the rate of 15 million mega units per year as a result of the improvements in penicillin technology A Pilot Plant, a workshop and all essential services have been arranged for The Clinical Products Section at Pimpri is now complete and large-scale bottling operations at Pimpri commenced in March 1956 In addition, the former Indian Penicillin Committee's Bottling Plant at Bombay has been taken over and continues to bottle Pimpri made penicillin * There is also provision in the plant for further expansion by about 60 per cent in the Second Five Year Plan In addition to penicillin manufacture of Streptomycin is under consideration

In 1957 the production was 23 6 million mega units In 1956 it was 14 1 million In terms of finished product for clinical use the production was 17 9 million mega units in 1957 as compared with 5 2 million in 1956

During the financial year 1956-57 the factory made a small profit

The factory employs 700 workers including the staff at the bottling plant in Bombay.

Equipped with the latest scientific equipment, a model Research Laboratory built at an approximate cost of Rs. 15 lakhs has been put alongside the factory. There are plans to develop this

* The bottling plant is due to be moved to Pimpri in April 1958.

Research Laboratory into a sizable Research Centre on antibiotics offering large-scale research opportunities to Indians and qualified scientific men from all over the world. There is also a provision to establish a statistical quality control unit to ensure quality of the best Indian Penicillin product.

Mg. Director, Col. J. R. Dogra, M.D., I.M.S.

HINDUSTAN CABLES (PRIVATE) LIMITED

(P. O. Hindustan Cables,

Rupnarainpur, Burdwan Dt., West Bengal)

With a view to manufacturing telephone cables in this country, the Government of India have set up the Hindustan Cables Factory at a capital cost of Rs. 125 lakhs, under the technical assistance of Messrs. Standard Telephones & Cables Ltd., London. The Company is entirely owned and financed by the Government of India and is under the over-all control of the Ministry of Commerce and Industry.

The factory started regular production on Sept. 1, 1954 and manufactured 112 miles of underground telephone cables upto the end of March 1955. 591 miles of telephone cables were manufactured during the year 1956-57, the sale value of which was about Rs. one crore.

The proposal to double the capacity of the factory is already in hand and when this expansion is completed, it will be possible to manufacture 1,000 miles of cables annually when the country's total requirement for telephone cables would be met as well as partial export of this commodity will be possible.

Keeping pace with the demand of the Indian Posts & Telegraphs Department embodied in the Second Five-Year Plan, the expansion of the factory for manufacture of co-axial cables has already been taken in hand and orders have been placed for purchase of machineries required for the manufacture of co-axial cables.

Chairman, Board of Directors, A. Nagaraja Rao.

Members, M. P. Birla; D. C. Driver; G. D. Ambaar; V. Nilakantan, Mg. Director, Sindri Fertilisers and Chemicals Ltd., Sindri; C. A. Cornelius; B. R. Nijhawan; B. D. Kalelkar; V. N. Rajan, I.C.S.; B. R. Murgai; K. N. R. Pillai, Managing Director, Hindustan Cables (Private) Ltd.

HINDUSTAN HOUSING FACTORY (PRIVATE LIMITED

(Jangpura, New Delhi)

The Hindustan Housing Factory Private Ltd. was taken over completely by the Government of India with effect from 16th August 1955.

The present Directors of the Company are :—

Chairman, K. S. Krishnaswami; *Directors*, A. P. V. Krishnan; O. V. Ramadorai.

General Manager, R. P. Mhatre, C.E.S.I.

Since taking over, for the period ending 31st July 1956, it made a small profit of Rs. 6,000. During this period production worth Rs. 31·0 lakhs has been carried out in the various departments.

For the year ending 31st July 1957, the factory achieved a production of Rs. 38·0 lakhs and it was anticipated that the factory would make a small profit during 1957-58.

For the year ending 31st July 1958 (1957-58) the factory had secured orders to the extent of Rs. 35 lakhs in Prestressed Concrete Department and Rs.10 lakhs in the Woodwork and Rs.3 lakhs in the Foam Concrete Department so far. Further orders to the extent of Rs. 10 to 15 lakhs were expected during 1957-58. The major orders are for transmission poles, street light poles, heavy industrial beams, prefab roofs, fencing poles, etc. in the Prestressed Concrete Department and softwood doors and windows for low cost houses and utility furniture in the Woodwork Department and partition and insulation blocks for cold storage in the Foam Concrete Department.

The factory was intending to establish a Seasoning Kiln & Treatment plant of timber during 1957-58 to improve the production in the Woodwork Department. 4 new tables have been constructed in the P.C. Department to cater for the increased production. The possibility of manufacture of prestressed concrete and precast concrete railway sleepers is also being investigated.

The factory is due to be reorganised in accordance with the suggestions of a group of experts by about June 1958. The authorized share capital under the new set-up will be Rs. 75 lakhs and the paid up capital Rs. 40 lakhs.

HINDUSTAN INSECTICIDES (PRIVATE) LIMITED

Industrial Area, New Delhi 15.

A site adjacent to D.C.M. Chemical Works was chosen for the factory.

The factory is managed by Government through a private limited company with a Board of Directors under the Ministry of Commerce and Industry.

The factory went into production on March 25, 1955.

The production in 1955 was 172 tons, in 1956 it was 492 tons and in 1957 623 tons. The factory has reached its rated capacity of two tons a day.

The plans are based on an agreement concluded between the Government of India, WHO and UNICEF on 19th July 1952 on no-profit basis without cost to the ultimate beneficiary.

Under the plan of operations the UNICEF was to supply all imported equipment involving an expenditure of about $250,000, WHO to arrange and provide all technical assistance for the Factory involving an expenditure of about $100,000 and the Government of India to arrange for the provision of land, buildings, steam, water, electricity, etc., at an expenditure of Rs. 22,45,000. The UNICEF contributions to the Plant have already been fulfilled.

Since the commencement of operations in March 1955, the production has been slowly stepped up and the present output is about two tons of Technical D.D.T. per day. The problems arising from tropical climate with high ambient temperatures and the non-availability of spares stultifying the overall production are being overcome steadily and it is hoped that things will be smooth before long. The output of the factory till the end of September 1957 was 1,100 tons of Technical D.D.T. and 1,425 tons of 50 per cent wettable D.D.T. powder formulated to WHO specification. The formulated D.D.T. is distributed to various State Governments through the Director, Malaria Institute of India for the Anti-Malaria campaign. The factory employs approximately 250 men.

Expansion : The designs for doubling the capacity of the plant having been drawn up by the factory staff in consultation with U.N.T.A. advisers, the installation was in full swing and production on the expanded unit was scheduled to commence about the middle of 1958.

The work on the installation of the Second D.D.T. Factory at Alwaye, Kerala State, as part of the Second Five Year Plan was going apace according to schedule. This factory, with the rated capacity of 1,400 tons of technical D.D.T. has begun trial production and would be completed by the middle of 1958.

A contract on a turnkey basis for the complete job of setting up and commissioning of the plant at a cost of about Rs. 36 lakhs was drawn up with Messrs. Singmaster and Breyer and Technical Enterprises Incs. of U.S.A.

The entire cost of the factory will be met by the Government of India.

When at full production the factory expects to employ about 250 men in all.

Between them these two factories will produce all the D.D.T. required by the Government for its Malaria Control Programme.

Chairman, U. L. Goswami, I.C.S.

Managing Director, S. S. Jaggia.

HINDUSTAN MACHINE TOOLS (PRIVATE) LIMITED

(Jalahalli, Bangalore)

This is a private limited company under the Ministry of Commerce and Industry registered in Mysore on February 7, 1953.

The Registered Office of the Company and the factory are located at Jalahalli, Bangalore.

The authorised share capital of the Company is Rs. 12 crores.

The plans are based on an agreement between the Government of India and Messrs. Oerlikon Machine Tool Works, Buehrle & Co., Zurich, Switzerland, originally concluded in April 1949 and later revised by a new agreement signed in March 1957. The Swiss Company does not now hold any shares in the Hindustan Machine Tools (Private) Ltd. The shares worth Rs. 30 lakhs originally held by the Swiss Company were transferred to the Government of India.

The Company produces eight types of machine tools. It manufactures high speed lathes and under a programme of diversified production, Milling Machines of three types—Universal, Vertical and Horizontal in 2 sizes each have already started coming off its production lines. This diversified programme, will, however, include the manufacture of Radial Drills and heavier lathes. Negotiations for technical collaboration in respect of this are already in progress. Government have approved, in principle, of the establishment of a Foundry and initial planning and layout of the Foundry has since been completed.

The Company employs 2,236 skilled and semi-skilled workers and is expected to employ 3,000 by 1960-61.

Upto September 1957, the Company produced 262 lathes and 15 milling machines.

The Company was expected to produce 400 machines during the financial year 1957-58 against the original target of 131 machines. By October 1957 already 324 machines had come off the assembly lines of the factory.

The introduction of multiple shift system has resulted not only in increased production but also in a considerable reduction in the cost of production per machine and a saving of a large amount of foreign exchange.

The increased production of the factory has also boosted the total output of machine tools in India. Against an output of the value of Rs. 42·5 lakhs in the first half of 1956, the country produced machine tools valued at Rs. 1 crore during the corresponding period in 1957.

For 1957 the output was much more than 300 machines worth Rs. 1·24 crores. The production of the country as a whole was worth Rs. 2 crores.

The profit for 1956-57 was computed at Rs. 4 lakhs.

Chairman, Board of Directors : Sir Raghavan Pillai.

Managing Director : M. K. Mathulla.

Members : C. M. Poonacha; L. K. Jha, I.C.S.; S. Ratnam; R. L. Kirloskar; E. W. Isaacs.

HINDUSTAN SHIPYARD (PRIVATE) LIMITED

(Vishakapatnam 5, Andhra Pradesh)

This is located at Vishakapatnam in Andhra Pradesh. It was originally designed by the firm of Sir Alexander Gibb and Partners.

The original design envisaged the provision of eight berths but the shipyard now has four building berths to build ships ranging from 320 to 550 ft. in length, and from about 5,000 tons to about 15,000 tons deadweight capacity.

A fifth berth suitable for building small crafts has also been constructed.

It has also a fitting-out wharf 1,200 ft. long which permits fitting out of 6 large ships and 3 medium-sized ships in one year.

There are about 5,000 technicians, workers and staff.

There is a housing colony for employees on a site of 145 acres of land, provided with electricity, water supply, playgrounds, parks, school and hospital buildings, where about 2,000 families of the staff, workers and officers are accommodated.

The yard is being managed by Hindustan Shipyard (Private) Limited since the 1st of March 1952, a company in which the Government of India have a controlling interest.

The Board of Directors consists of eight Government nominees including the Chairman and the Managing Director and four nominees of Scindia Steam Navigation Co. Ltd.

The authorised capital of Rs. 10 crores is divided into 100,000 ordinary shares. Issued and paid-up capital is Rs. 4,76,25,000 in which the Government's contribution is Rs. 3,72,00,000.

Technical assistance was provided by Societe Anonyme des Ateliers et Chantiers de la Loire, Paris, a French firm of ship-builders under an agreement entered into with them.

This was due to expire on 15th July, 1958.

So far (end of December 1956) 12 steam ships of 8,000 DWT. each and three diesel ships of 7,000 DWT. each and one diesel ship of 8,000 DWT. have been built.

Orders to build eighteen more ships are under execution. This number includes a survey vessel for the Indian Navy and a passenger-cum-cargo vessel for the India-Andamans trade.

In 1956-57 two ships, one 7,000 tonner and one 8,000 tonner were completed and delivered.

Keels were laid during the year for the following: M. V. Jalavikram, M. V. Jalaveera, and a survey vessel for the Calcutta port.

The two following were launched: M. V. Andamans, M. V. State of Orissa.

In Sept. 1957 'Adyar', a steam tug, was delivered to the Madras Port Trust.

A provision of Rs. one crore has been made for further development of the shipyard in the Second Plan.

The following table gives details about the ships built at the shipyard:

	Name of ship	Date of laying keel	Date of launching	Date of completion and sailing	To whom sold
1.	"Jalausha" (8,000 DWT) ..	22- 6-46	14- 3-48	15-10-48	Scindia S. N. Co. Ltd.
2.	"Jalaprabha" ..	22- 8-46	20-11-48	31- 3-49	"
3.	"Kutubtari" (245 DWT) ..	23- 5-47	18-12-48	19- 5-49	"
4.	"Jalaprakash" (8,000 DWT)..	27- 5-48	8- 8-49	14-12-49	"
5.	"Jalapankhi" " ..	7- 1-49	6-12-49	31- 3-50	"
*6.	"Jalapadma" " ..	26- 1-50	14- 9-50	14- 1-51	"
*7.	"Jalapalaka" " ..	26- 1-50	27-12-50	29- 3-51	"
*8.	"Jalputra" " ..	28- 9-50	26- 3-51	28- 6-51	Bharat Line Ltd.
*9.	"Jagrani" " ..	9- 5-51	15-12-51	4- 6-52	Great Eastern Shipping Co. Ltd.
*10.	"Jalapratap" " ..	9- 5-51	27- 2-52	31- 7-52	Scindia S. N. Co. Ltd.
*11.	"Jalapushpa" " ..	26-12-51	9- 7-52	30- 9-52	"
*12	"Bharatratna"	22- 7-52	26- 8-53	21- 6-54	Bharat Line Ltd.
*13.	"Jalaputra"	22- 7-52	9-11-53	12- 8-54	Scindia S. N. Co. Ltd.
14.	"Jalavihar" (7,000 DWT.) ..	1- 8-53	16- 8-54	14- 6-55	"
15.	"Jalavijaya" " ..	30- 9-53	26- 3-55	17-12-55	"
16.	"Jalavishnu" " ..	16-12-53	2-11-55	16- 5-56	"
17.	"State of Kutch" " ..	2- 9-54	29- 3-56	1-11 56	Eastern Shipping Corporation.

* These eight ships were ordered by Government.

The company is managed by a Board of Directors, as already mentioned, under the Ministry of Transport. *Chairman*, N. R. Pillai, I.C.S. *Officiating Managing Director*, C. R. Reddy, I.A.S.; *Members*, Mon. J. M. Charpentier (Officiating Technical Director); R. L. Gupta, I.C.S., Tulsidas Kilachand; Michael John, M.P.; Lalchand Hirachand, M.P.; Shantikumar N. Morarjee, T. M. Goculdas; Nagendra Singh, I.C.S.; Commodore Daya Shankar; S. D. Nargolwala, I.C.S.; Dr. M. V. Krishnarao.

HINDUSTAN STEEL (PRIVATE) LIMITED

Hindustan Steel (Private) Limited was incorporated on 19th January, 1954 as a private limited company with an authorised capital of Rs. 100 crores with the object of establishing a steel plant at Rourkela in Orissa State.

With effect from the 1st April, 1957, the Bhilai and Durgapur Steel Projects were also transferred to the management of Hindustan Steel (Private) Limited.

The company is entirely owned by the Government of India and has a Board of Directors of which the Secretary, Ministry of Steel, Mines & Fuel (Department of Iron & Steel), is the Chairman.

The annual output expected at Rourkela is about one million tons of steel ingots capable of being turned into about 720,000 tons of finished plates, sheets, strips, and tinplate.

The capacity of the plant can be expanded with a few additions to 1·3 million tons. The layout provides for an ultimate expansion to two million tons.

The Plant is expected to go into production late in 1959.

A new process of making steel by blowing oxygen known as the L-D process will be adopted for three-quarters of the steel output; the remaining will be produced in open hearths. A Semi-Continuous Strip Mill, the first of its kind in India will be put into commission in the Works. The strength of the personnel is expected to be about 8,000.

The overall cost of the steel works is estimated at Rs. 170 crores.

In 1957-58 the Government of India spent about Rs. 62·33 crores. In 1956-57 the investment was Rs. 19 crores.

Meanwhile, contracts for all sections of the steel plant have been placed with German suppliers. The deliveries of plant and construction schedules have been so co-ordinated that the first blast furnace would go into production in Oct. 1958 and the steel plant will be in operation by the end of 1959.

Contracts have been placed for the civil engineering work for the blast furnace and steel melting shop. The site for the steel melting shop and the ingot yard is being prepared.

A number of suppliers of plant and equipment have opened their offices at Rourkela.

Nearly 1,515 houses have been completed in the township. Electricity and water supply is available. Another 2,088 houses are under construction.

A 300-room hostel has also been completed. This is actually meant for the apprentices who will be trained in the steel works in future. In the meantime, the hostel will accommodate German personnel.

Managing Director: P. G. Bhagat; *Technical Adviser:* Dr. H. Klinar.

Bhilai Steel Project: An agreement was entered into between the Governments of India and the U.S.S.R. on 2nd February 1955, providing for technical and economic assistance in the erection of an integrated Steel Plant at Bhilai in Madhya Pradesh. The Plant is designed to produce about 750,000 tons of heavy and medium structural steel and 300,000 tons of foundry pig iron.

The capacity of the plant can be expanded with a few additions to 1·25 million tons. The layout provides for an ultimate expansion to to 2·5 million tons. The plant is expected to produce iron by the end of 1958 and steel by by the end of 1959.

A Project Division of the Ministry of Steel, Mines and Fuel, Government of India, under the charge of a General Manager, is looking after the construction of this Project.

The estimated cost is about Rs. 131 crores exclusive of the cost of township, ore mines, and such other ancillary expenditure. In 1957-58 about Rs. 63·33 crores were spent on the project as against an expenditure of Rs. 9 crores in 1956-57.

Durgapur Steel Project: The Steel Plant which is proposed to be set up at Durgapur in West Bengal will be the third one in the public sector (besides Bhilai and Rourkela). This will produce about 750,000 tons of light and medium sections and bars, in addition to about 350,000 tons of pig iron.

There is room in the layout for expansion of the plant to produce 2·5 million tons per year. The contract for the construction of the steel plant was signed on the 31st October, 1956 with Messrs Indian Steel Works Construction Co. Ltd., London and the work is in progress. The pilot plant furnace is expected to go into production by October 1959 and the entire project will be completed by the end of July 1961.

The estimated cost is about Rs. 138 crores.

In 1957-58 about Rs. 31·69 crores were spent as against 13·42 crores in 1956-57.

This Project also is being managed by a Chief Project Officer under the direct control of the Ministry of Steel, Mines and Fuel, Government of India.

Each of the Plants, when completed, will employ about 5,000 skilled technicians below the foreman category and about 700 supervisory staff of foreman upwards. Except for a few at the very top level, most of the technicians will be Indians.

The total cost of all the three Steel Plants in the public sector is estimated at over Rs. 400 crores.

Washeries

Government have decided to set up, besides the one in Kargali, three more coal washeries to supply washed coal to steel plants. The first of these washeries will be in Dugda in Bihar. It will have a capacity of 500 tons an hour. This will wash Jharia coals for Bhilai and Rourkela Steel Plants. The other two washeries are likely to be set up at Patherdih and Bhojudih.

These washeries will supply about 4·6 million tons of washed coal to the steel plants.

INDIA GOVERNMENT SILVER REFINERY PROJECT

47, Strand Road, Calcutta 7.

This project is under the Ministry of Finance (Department of Economic Affairs), Government of India. It is under construction. Erection and installation of specialised plant and machinery have been undertaken. Commencement of operation of the project was expected by March/April 1958.

A sum of Rs. 88 lakhs was initially estimated to cover capital expenditure.

The number of persons employed at present is about 160. The project is expected to operate in three shifts round the clock with officers and staff numbering about 600.

The project is intended for the extraction and refining of silver from the Q.A. cut and defaced coins and recovery of copper as by-product.

Production has not yet started.

The process of refining is a new patented process, the joint authors of which are Mr. G. C. Mitter, late Master, Assay Deptt. and Silver Refinery Project and Messrs. Demag Elektrometallurgie G.m.b.H., W. Germany.

Master, Assay Deptt. and Silver Refinery Project, Benoy Kumar Bose.

INDIAN RARE EARTHS (PRIVATE) LIMITED

Udyogamandal P.O.
(Alwaye, Kerala)

This factory is owned jointly by the Government of India and the Government of Kerala.

The subscribed capital is Rs. one crore, of which the Government of India's share is 64 per cent and of the Kerala Government 36 per cent.

The factory started production in July 1952. The Plant has a rated capacity to process 1,500 tons of Monasite per annum. The main product is Rare Earths Chloride. Rare Earths Carbonate could also be produced in the factory. Trisodium Phosphate is obtained as a by-product.

The chlorides and carbonates which are exported are used in the manufacture of aerial camera lenses, cinema projector carbon arcs, special optical glasses and so on.

The phosphates which are a substitute for soda ash can be used in textile mills, soap factories, and for general cleaning purposes in mills and factories.

Chief Administrative Officer, G. Rajagopal Menon.

Works Manager, H. N. Sethna.

Deputy Chief Administrative Officer, K. V. N. Nayar.

Deputy Works Manager, C. M. Mani.

INDIAN TELEPHONE INDUSTRIES (PRIVATE) LIMITED

(Duravani Nagar P.O., Bangalore Dt., Mysore State)
Railway Station: Krishnarajapuram
(Southern Railway)

City Office: No. 5, Kensington Road, Bangalore.

Tel. Address: "Phonindustry."
Telephone: 5111 (4 lines).

Branches: National Insurance Bldg., 1st floor, 27, Bastion Road, Bombay 1; 22, Chittaranjan Avenue, United India Life Assurance Bldgs., Calcutta 13; 12-B, Faiz Bazar, Daryaganj, Delhi; No. 2, Armenian Street, Catholic Centre, 1st floor, Madras 1; C/o The High Commission of India in U.K., India House, Aldwych, London W.C. 2.

Total Investment:

Authorised Capital.. ..	Rs.	4 Crores.
Subscribed and Paid-up Capital	,,	4 Crores.

Bankers: State Bank of India; Central Bank of India.

Board of Directors:

B. N. Jha, I.C.S. (*Chairman*); R. C. Vaish; Sir V. N. Chandavarkar; J. J. Eades; D. S. Tod (*Alternate Director*); S. Visvanathan; S. M. Ramakrishna Rao; K. Narayanaswami; Jagdeesh Prasad (*Managing Director*).

Administration:

General Manager, N. K. Sen Gupta.
Manager, K. D. Vaidya.
Secretary, D. V. M. Rao.

The I.T.I. (Private) Ltd., the first industrial concern in the Public Sector after achieving independence, was originally started as a Government department in 1948 under the Ministry of Communications. On February 1, 1950 it was converted into a private limited company with the Government of India as the major share-holder.

The Company has acquired about 372 acres of land and has got its own railway siding. It is the sole agent for its associate—the Automatic Telephone & Electric Co., Ltd., Liverpool, England.

Facts and Figures

Present Production: 50,000 telephones per annum; 35,000 exchange lines per annum; 30 single channel systems; 12 3-channel systems; 3 12-channel systems.

The annual sales turnover is approximately Rs. 3 crores.

Production target (1960-61): 80,000 telephones per annum; 50,000 exchange lines per annum; 30 single channel systems; 24 3-channel systems; 5 12-channel systems; 4 4-channel systems; 12 group modulators.

Number of persons employed: 4,500.

The factory normally works a single shift, 8-45 a.m. to 5-15 p.m. with a recess of half an hour. Some sections are however at present working two or three shifts.

Amenities:

Three fully equipped canteens and two lunch sheds are provided for the benefit of the workers and staff. Two of the canteens are run by the Employees' Co-operative Society. The Society also runs a provision shop for the benefit of the residents of the Township.

Other amenities include a well-equipped dispensary and a separate first-aid centre, a well-organised sports club, a joint library and reading room, a Fine Arts Society, publication of the I.T.I. Magazine, a primary school, separate rest room for female employees, supply of free milk to employees doing hazardous work, supply of overalls to factory workers at 50 per cent of the cost, free film shows at frequent intervals, etc.

The employees themselves have organised a voluntary fund for giving financial aid to needy employees in emergencies.

The construction of residential quarters for employees has progressed considerably. Several of them have already been occupied by the families of employees of the Company. More tenements and bungalows are under construction. The construction of buildings for a fully equipped general hospital and a school is also going ahead at quick pace.

In co-operation with the Hindustan Aircraft (Private) Ltd., transport facilities have been provided for about 2,000 employees at subsidised rates.

INTEGRAL COACH FACTORY

Perambur, Madras.

The Integral Coach Factory Project at Perambur, a suburb of Madras on the Madras-Bombay line, is Asia's largest Coach Building Unit and perhaps one of the largest of its kind in the world. It is an important endeavour of the Ministry of Railways included in the first Five-Year Plan, and is a significant step forward in the attainment of self-sufficiency in rolling stock. The factory when in full production will produce coaches worth about Rs. 4 crores per annum and will thus result in a considerable saving in foreign exchange.

The factory structures, which cover an area of 850,000 sq. ft. and concrete roadways totalling 3·5 miles in length are very modern and have been designed and constructed by Indian engineers with an eye to provide the worker ideal working conditions.

Construction started in the latter half of 1952. During the construction stage of the project covering about three years, employment was provided for 3,000 men. The factory, when in full production, will have a labour strength of over 4,000 men in the various categories. The first coach was turned out in October 1955.

The factory has been equipped with the latest machine tools, and during the fourth year of production, it is expected to reach the full production target of 350 coaches per year on single shift working.

The factory is designed to produce coach shells only. Fitting up of the interior with seats, racks, amenities, etc., will be done in the Furnishing Factory to be located near the main factory. For the present, the coach shells produced will be fitted with interior fittings, some in the coach factory itself and others in the various railway workshops.

The type of coach to be manufactured in the factory called the "integral coach" is of a modern design developed by a Swiss firm, Messrs. Swiss Car and Elevator Manufacturing Corporation Ltd., Schlieren, Zurich. As compared to the conventional coach consisting of a wooden body secured to a steel frame, in the integral coach the all-steel body and frame form one piece, one being welded to the other, becoming a rigid body of tubular design. This type of construction results in the forces sustained by the coach being taken by the entire body, including the skin. The ends of coaches are specially designed to prevent telescoping, a potential source of loss of life, in train accidents. Particular care has been given to ensure smooth running and affording of greater comfort to the travelling public. These coaches are also lighter in weight compared to conventional coaches and this enables a larger number of coaches being attached to a train leading to the easing of congestion.

A Technical Aid Agreement has been entered into with the above firm for successfully establishing production of this new type of coach and imparting the "know-how" to the Indian personnel. A team of Swiss engineers and technicians are already in position. Every Swiss engineer has an Indian counterpart attached to him so that right from the beginning Indians are associated in the production methods.

The Government of Madras have given assistance to the Project in agreeing to provide the total electrical energy requirements of the Factory and in constructing a 11 K.V. line from their Electricity Grid.

Technical training: A Technical School to train all the skilled workmen of the factory was established in March 1954, 18 months ahead of production.

The first batch of 70 apprentices was available on the Shop floor by about the end of 1954. Seven more batches consisting of 1,100 apprentices have now been turned out from the school of which 560 have been absorbed as skilled workmen after 12 months training on the Shop floor.

A hostel to accommodate 250 boys has already been completed and the boys have moved into the hostel from 1st August 1956.

A proper theoretical Training School was completed subsequently and has been functioning since November 1956.

Furnishing Unit: Due to the increased load thrown on the Railway Workshop it was considered necessary by the Government of India that a Furnishing Annexe should be attached to

the Integral Coach Factory for furnishing the body shells. Necessary arrangements are being done to expedite bringing the furnishing unit into full production and also to have additional coach building capacity. Arrangements to commence furnishing work were made early in 1957. Development of technique and staff is taking place. Limited temporary accommodation for the work has been arranged using some second hand military sheds. 19 body shells have already been furnished in this interim furnishing unit.

Technical Assistance to Indigenous Industries : The purchases of the Integral Coach Factory have gone up from Rs. 14·71 lakhs in 1951-52 to Rs. 4,43·58 lakhs in 1957-58 and by 1960-61 it is expected that the purchases will go up further to Rs. 8,66·36 lakhs. These purchases include production tools, pneumatic tools, small tools, and hand tools, raw materials such as steel for coaches, coach components like axle boxes, wheels and axles, roller bearings, steel tubes, draft castings, M. I. castings, brake blocks, vacuum brake cylinders and reservoirs, interior fittings, stainless steel screws, bright screws and nuts, etc. 500 different firms in the country have benefitted from these purchases. Several industries are developing in the country to meet Integral Coach Factory requirements. A department has been organised to give technical assistance to such firms as are anxious to make supplies to I.C.F.

Design Drawing Office : The Design Drawing Office has now been fully developed and approximately 50 Draftsmen are in position. Full advantage is being taken of the presence of Swiss designers to train as many Draftsmen as possible and, with this object, 20 Draftsmen have been placed in the Design Office for training purpose. The factory has now started designing a TLR in light weight construction and the job is nearing completion. It has completed the vestibuled-end for the III class coaches, designed new safety window catches for the windows and is designing balances for the windows in order to make them work more easily and eliminate the risk of accidents through falling of windows.

The Factory (Shell Side) will employ 4,000 men when in full production. The Furnishing Side will employ 2,500 men. For the Second Shift, a similar complement of staff would also be required.

Amenities : A Colony of 400 quarters has been provided to accommodate the essential staff. All the modern amenities are included in this Colony, which has a Primary School, a Children's Park, a Recreation Club and a Co-operative Store.

For the Furnishing Annexe a colony of 200 quarters has been sanctioned. This colony is being planned contiguous to the ICF Colony and suitable expansions of amenities by way of Children's School, Recreation area, Marketing area and so on are also being contemplated.

It has been the aim of this administration to provide good working conditions for workmen in the factory. Lighting and ventilation of the shops have been given special attention. Staff Canteens run on a co-operative basis have been provided near the main entrance as well as in the office. Water coolers to supply cooled drinking water have been installed in the shops. Bathing places and lavatories have been provided at convenient places.

The total number of employees (permanent and temporary) on the rolls as on 31st March 1957 was 2,542 as compared with 1,663 as on 31st March 1956.

Chief Administrative Officer : K. Sadagopan ; *Deputy Chief Mechanical Engineer :* K. Swarup ; *Deputy Financial Adviser and Chief Accounts Officer :* B. Bhattacharya ; *Deputy Chief Mechanical Engineer (Furnishing) :* R. Rajagopalan ; *Deputy Controller of Stores (Officiating) :* A. Sugavaneswaran.

NEYVELI LIGNITE CORPORATION (PRIVATE) LTD.

(Ministry of Steel, Mines and Fuel, Government of India.)

In view of the importance of developing an economic source of fuel and power for south India which is at present handicapped by an acute shortage, a high degree of priority has been given in the Second Five Year Plan to the mining, utilisation and processing of the extensive lignite deposits which occur at Neyveli in the South Arcot District of Madras.

Preliminary investigations of these deposits were undertaken first by the Madras Government and then by the Central Government from the 1st of January 1955, in consultation with Messrs. Powell Duffryn Technical Services Limited, a U.K. firm of technical consultants, whose services were made available to the Government of India under the Colombo Plan.

These preliminary investigations, including large-scale pumping tests, having proved the feasibility of economic mining and utilisation of the Neyveli lignite, Government have accepted, in principle, the execution of the Integrated Lignite Project at an estimated cost of Rs. 68·8 crores and have sanctioned the mining part of the Project at a cost of about Rs. 17 crores.

The Integrated Project envisages the mining of 3·5 million tons of lignite per annum to be utilised for :

(a) production of 200,000 kW of power in a thermal power station using lignite as fuel ;

(b) production of fertilizers with a nitrogen content of 70,000 tons per annum, in the form of urea ; and

(c) manufacture of 714,000 tons of raw lignite briquettes per annum to be processed in a low temperature carbonising plant to yield 380,000 tons of carbonised briquettes per annum for use as domestic and industrial fuel.

A detailed mine plan involving an estimated expenditure of Rs. 17 crores for the development and production phases of the mine submitted by the technical consultants was sanctioned by the Government. The scheme was inaugurated by the Prime Minister of India on April 20, 1957. Messrs. P.D.T.S. Ltd. have been appointed consultants for the Mining Scheme. Orders for Rs. 5·5 crores worth of conventional and specialised machinery required for removing and specialised machinery required for removing the overburden and developing the mine for full production have been placed.

All the conventional equipment have already arrived at site and items of specialised mining machinery are beginning to arrive. The estimated cost of production of lignite has been worked out at Rs. 8 to Rs. 10 per ton which compares favourably with the price at which coal is available in south India. In accordance with the time schedule for the mining project, the mine will be in full production by the 31st of December 1960.

The Central Water and Power Commission have drawn up the Project Report for the 200 MW. thermal station, the most important constituent scheme in the Integrated Lignite Project. The Thermal Station Scheme is one of the schemes to be financed from the credit offered by the U.S.S.R. in respect of which an agreement was signed in Delhi in 1957.

The Project Report for the Fertilizer Unit has also been drawn up. The total capital cost of the scheme has been estimated at Rs. 21 crores.

Tests conducted on bulk samples of Neyveli lignite in West German laboratories have established that the lignite is of a high quality, capable of yielding satisfactory briquettes, both raw and carbonised on a commercial scale.

Further tests on a pilot plant scale are to be conducted at Neyveli with the help of pilot plant equipment, promised under the T.C.M. aid, for determining the optimum conditions under which the lignite should be briquetted and carbonised. Thereafter the question of the type of press to be used and the choice of consultants will be considered.

This component of the project is estimated to cost Rs. 10 crores and will be commissioned in accordance with the time-schedule by the 31st of December 1961.

Key officers of the Project have returned from a study tour abroad.

Construction of residential quarters for the project staff is now in progress. Detailed layout and block layout plans for the new lignite township have been completed and the construction of quarters in the new township is expected to commence shortly.

As the mining gains momentum, the labour force of Project will go up. A full time labour welfare officer has been appointed to look after the interests of the workers. An Information Officer has also been appointed.

The Corporation has opened a middle school and an elementary school for the benefit of the children of its employees. There is a dispensary at Neyveli with facilities for maternity cases. When the township is constructed, there will be a fully equipped hospital.

The ownership, management and administration of the Neyveli lignite project has been entrusted to a Government of India-owned private limited company, Neyveli Lignite Corporation (Private) Ltd., which started functioning on 6th December 1956.

Chairman, Board of Directors, M. K. Vellodi, I.C.S.

Managing Director, T. M. S. Mani, I.C.S.

MACHINE-TOOL PROTOTYPE FACTORY, AMBERNATH

The Machine-tool Prototype Factory at Ambernath near Bombay, started in 1953, was the first installation of its kind for developing new weapons and equipment and at the same time, providing the ordnance factories and other industries with machine-tools. To overcome the shortage of skilled artisans necessary for the production of armaments, a Training School has been attached to M.T.P.F. since its inception.

NAHAN FOUNDRY LTD.

(Nahan, Sirmoor District, Himachal Pradesh).

This was started in 1875 and has been continuously expanded.

The authorised capital is Rs. one crore and the paid-up capital Rs. 40 lakhs. The number of persons employed is 500 at Nahan and about 150 in the agencies.

Production consists of improved type of cane crushers, bullock and power driven; centrifugal pumps in different sizes; paddy-thrashers; ploughs; corn-sheller machines (a new patented machine for separating maize corn from their cobs); chaff-cutters of different types; boiling pans; cast iron sheets; flour mills, power and bullock driven; and miscellaneous items.

The company has a net-work of about 90 agencies in north India with mobile workshops which cater to the needs of the cultivator in the villages in respect of machines, and also undertake repairs at site.

It is managed as a private limited company (which took over on Jan. 1, 1953) with the President holding all the shares. The affairs are looked after by the Ministry of Commerce and Industry. It is a pioneer industry in northern India for the manufacture of cane crushers and "Sultan" is a speciality all over India.

General Manager, S. D. Joshi.

NANGAL FERTILIZER—HEAVY WATER PROJECT

(Ministry of Commerce and Industry, Government of India).

The control and management of Nangal Fertiliser Heavy Water Project were formally transferred to Messrs. Nangal Fertilisers and Chemicals (Private) Limited, a company entirely owned by the Government of India, on April 20, 1956. The authorised capital of this company is Rs. 30 crores.

The factory which will be located at Nangal, on the right (western) bank of Sutlej, will produce nitro lime stone fertiliser with an annual capacity of about 3·95 lakh tons. It will also produce 12 to 15 tons of heavy water for the use of the Department of Atomic Energy.

Messrs. Vitro Engineering Division of New York (U.S.A.) have been engaged as Technical Consultants for the project.

The contract for electrolysers, which constitute the first large section of the plant, has been given to an Italian firm. An order was placed in 1957 with a French firm for the supply, erection and commissioning of the fertiliser group of plants for the project. Half of the fertiliser plants are due to be erected and put into commission by the end of 1959 and the remaining half by the end of March 1960.

Tenders for the supply of electrical equipment for the factory were under examination while those for the heavy water plant have been invited and received.

A detailed programme of recruitment of engineering and technical personnel for the project has been chalked out. It has been arranged to train at the Sindri Factory, 95 apprentices for the project in different branches of engineering.

NATIONAL INSTRUMENTS (PRIVATE) LTD.

(15, Wood Street, Calcutta 16).

Total investment Rs. 1,00,00,000. Value of production and repair for 1956-57 Rs. 23·04 lakhs. Number of persons employed 1,074.

This is a Government owned Company under the Ministry of Commerce and Industry.

It is one of the oldest if not the oldest factory in India engaged in the manufacture and repair of scientific and mathematical instruments in India.

It manufactures prismatic compasses, theodolites, levels and other survey instruments, prismatic binoculars, telescopes, thermometers and hydrometers of various types, excise apparatus, barometers and other meteorological instruments, profile projectors, students' microscopes, demonstration eyepieces, sextant, drafting machine and other drawing office equipment and repairs all types of scientific and aircraft instruments.

The Planning Commission had provided Rs. 180 lakhs for the first plan period to reorganise the factory, the first phase of reorganisation being complete. A number of sections have been shifted to the new building at Jadavpor.

Under the Second Five-Year Plan, the manufacture of the following has been included: Special microscopes, medical diagnostic instruments, clinical thermometers and pressure & vacuum gauges.

The setting up of an Optical Glass and Ophthalmic Glass Factory in collaboration with foreign manufacturers has also been included in the second Five-Year Plan period.

Chairman, N. Subramaniam, I.C.S., Joint Secretary to the Government of India, Ministry of Commerce and Industry.

Director-in-Charge, S. D. Joshi, B.Sc. (Hons.), D.Phy.Tech. (U.K.).

General Manager, P. C. De, B.Sc. (Eng.), C.P.E. (Glasgow).

Works Manager, P. C. Mahajan, M. Sc. (Lond.), Tech. Opt. M. Sc. (Punj.).

OPTICAL AND OPHTHALMIC GLASS FACTORY

(Ministry of Commerce and Industry).

The recommendation made by a team of Soviet experts for the establishment of an optical glass plant has been accepted in principle by the Government of India. It is proposed to execute this project from the long-term credit offered by the Soviet Union. The estimated cost of the project is Rs. 2 crores. The factory will be capable of producing 50 tons of optical glass and 250 tons of ophthalmic glass per year, which is expected to cover more or less the local requirements.

The Soviet team submitted its preliminary project report after visiting Dehra Dun, Agra, Calcutta, Trivandrum, Benares, Allahabad and Lucknow. Preliminary preparations for the establishment of the factory were nearing completion and it was expected a beginning would be made in the year 1958.

The type of further assistance the Soviet Union will offer to India in the setting up of the factory now found feasible by the experts will be discussed by the Government of India with the Soviet Embassy here after it had examined the report.

In their report, the Soviet experts have stated that the rich deposit of minerals necessary for the manufacture of optical glass as well as the existence in the country of a research institute for glass and glass technology departments in some Indian universities were sufficient prerequisites for the establishment of such a factory in India.

The experts feel that an output of 50 tons of optical and 250 tons of ophthalmic glass annually will be sufficient to meet the demand for such glass in India for the next five or ten years.

They have recommended Asansol area, in Bihar, as the most suitable site for the factory as the best quarts for manufacturing this type of glass is quarried in Jagadishpur area, in Bihar. They have suggested that the Indian Glass and Ceramic Research Institute should conduct experiments to find out whether Indian clays are suitable for optical glass melting.

As regards the requisite Indian personnel for the factory, the experts have recommended that 18 to 23 engineers would have to be trained abroad for a period of 12 to 18 months in technology, organisation and production. Another 35 to 40 persons would also have to be trained abroad in melting and processing of optical glass.

SINDRI FERTILIZERS AND CHEMICALS (PRIVATE) LIMITED

(Sindri, Bihar)

This is a State-owned and State-managed private limited company, in which all shares are held by the Government of India. The Company was registered on December 18, 1951.

Sir Shri Ram, a leading industrialist, is the Chairman of the Board of Directors.

Authorized share capital—Rs. 30 crores; paid up—Rs. 17 crores. A further sum of Rs. 7·5 crores was invested by the Government as a loan at 4½ per cent interest.

Higher profits, increased production and larger despatches of fertilizer and a well-planned expansion, designed to increase the factory's rated capacity by over 60 per cent, are some of the outstanding features of Sindri's progress as revealed in the fifth annual report of the Directors of Sindri Fertilizers & Chemicals (Private) Limited for 1956-57. This was mainly due to larger production and also due to larger despatches of fertilizer during the year.

According to the annual report, the gross profits of the organisation for the year amounted to Rs. 4 09 crores which showed an increase of Rs. 34,42,095 over the preceding year. After providing for depreciation, interest, reserve for repairs and renewals, dividend to share-holders etc., there was a net profit of Rs. 20,49,260 as against Rs. 18,06,048 during the previous year

Sindri had, during the year 1955-56, repaid the loan from the Government of India to the extent of Rs. 2 crores.

Sindri has set up a record for efficient production and successful working. Sindri exceeded its production target of 330,000 tons for 1956 by about 1,725 tons. It also exceeded its production target for the financial year 1956-57 by 3,705 tons, the target being 330,000 tons. The total quantity despatched during 1956-57 was also the highest on record namely 361,082 tons as against 317,534 during 1955-56.

Total production of ammonium sulphate till September 1957 has been 16,16,609 tons equivalent to a saving of over Rs. 54 crores in foreign exchange.

Good progress has been made with Sindri's 11-crore-rupees expansion scheme. Under the expansion scheme, Sindri will produce two new types of nitrogenous fertilizers, 70 tons of urea and 400 tons of ammonium sulphate-nitrate per day. This will increase Sindri's existing production by over 60 per cent. The expansion scheme will be completed in 1958.

The factory consists of coke oven, gas, ammonia, sulphate plants; power from 30,000 kW Power House water (some 12 million gallons a day under full production condition). Adequate arrangements have been made to ensure this large supply of water from the Damodar river for the factory and connected activities.

A barrage has also been thrown over the Gowai, a tributary of the Damodar, impounding about 1,000 million gallons of water as a stand-by.

There are a bagging plant, marshalling yards and 12-mile railway track.

The factory was 100 per cent complete at the end of 1951; it started production 31st October 1951; gas plant started 18th April 1951; production of anhydrous ammonia started 28th August 1951; marshalling yards completed 30th August 1951; bagging plant commissioned 4th February 1952; bags of ammonium sulphate went out of the factory 7th February 1952.

The Coke Oven Plant built at a cost of Rs. 2·81 crores and designed to produce 600 tons of coke per day and other important by-products of industrial importance, went into production on September 1, 1954.

The cement factory built by the A.C.C., with an installed capacity of 600 tons of cement a day for the utilisation of Sindri's by-product—chalk sludge—went into production on 1st September 1955.

The township designed for 5,000 employees families or 25,000 persons is about 1,700 acres; has six groups of composite and self-sufficient colonies; all modern amenities (electricity, water supply, sanitary services, roads).

There are also a 100-bed modern hospital, four branch dispensaries, one first-aid post, two high schools for boys and girls, one middle school, three primary schools and one Kindergarten school, three post offices, three recreation centres and several shopping centres.

The Government of India, according to the annual report, sanctioned during the year 1956-57 the payment of an ad hoc monetary award to the staff. Out of a total of Rs. 16 lakhs set apart for this purpose, Rs. ten lakhs were disbursed in cash and Rs. six lakhs were earmarked for workers amenities fund.

The annual report said that a dividend of Rs. 85 lakhs at five per cent. on the invested capital of Rs. 17 crores had been declared as against Rs. 68 lakhs during the previous year. A monthly production of 32,397 tons was achieved in October 1956, establishing a record daily average of 1,045 tons.

Sindri has developed into an important training centre for young engineers and technicians. Sindri has already provided several trained technicians and engineers for other industries recently set up by the Government. Training facilities are being expanded with a view to training more technical personnel to man supervisory posts as a result of Sindri's expansion and the setting up of new fertilizer factories during the Second Five-Year Plan period.

Imports of fertilisers for 1956 and 1957 were as follows The figures are in tons. The first figure shows the imports for 1956 and the second for 1957:

Ammonium and Sulphur Nitrate: 14,000 and 29,074; Urea: 10,000 and 59, 322; Ammonium Sulphate: 1,96,000 and 3,14,742; Calcium Ammonium Nitrate: 6,243(1957); Muriate of Potash: 200 and 100.

Price—The selling price to the Central Fertilizer Pool is Rs. 280 per ton.

Board of Directors:

Chairman, Sir Shri Ram.

Members, J. J. Ghandy; S. B. Vasavada; B. C. Mukherji, I.C.S.; Dr. A. Nagaraja Rao, T. C. Puri, I.C.S.; U. L. Goswami, I.C.S.; K. L. Ghei; Digvijaya Narain Singh, M.P.

Mg. Director, V. Nilakantan.

THORIUM PLANT

(Trombay, Bombay 38)

The plant went into production in August 1955.

It is expected to produce a few hundred tons of thorium and a few tons of uranium a year which is equivalent in fuel value to roughly 1,000 million tons of coal. This is about thirty times the present annual production of coal in India

STATE-OWNED OR STATE-AIDED

GOVERNMENT CEMENT FACTORY
Churk, Mirzapur, U.P.

The Government Cement Factory was established at Churk in Mirzapur District at an initial cost of Rs. 4·5 crores. The factory went into production in September 1954. Its installed capacity is 700 tons per day. The factory employs over 2,000 persons.

In 1956-57 the cement production in the factory touched a new height of 1·96 lakh tons. The factory also supplied over 40,000 tons of cement for the construction of Rihand Dam during the same period.

The expansion programme, costing over Rs. 2 crores, is being implemented and the factory will start producing 1,400 tons of cement per day from October 1959.

GOVERNMENT PRECISION INSTRUMENTS FACTORY
Lucknow, U.P.

The factory was established in 1950 at Lucknow, for the manufacture of water meters, microscopes and other precision instruments and went into production in 1952, when the turnover was nearly 300 water meters per month. The present production of water meters is 1,600 per month, including ½" inferential dry dial water meters of horizontal and vertical types and ¾" and 1" dry dial water meters of horizontal type. Till March 1957, in all 53,070 water meters had been produced most of which was sold in various parts of the country. In terms of money, the factory saved valuable foreign exchange worth nearly Rs. 32 lakhs.

The total number of microscopes produced till March 1957, was 360 out of which 305 microscopes have already been sold to various institutions.

The demand for water meters has considerably increased. Since the present limited equipment and working space of the factory had put a ceiling on production, it was decided to expand it appropriately at a cost of Rs. 13 lakhs during the Second Five-Year Plan. The new building has since been constructed and some additional machinery procured at a total cost of Rs. 7·80 lakhs. Preliminary arrangements to shift the factory to the new premises had started and shifting was expected to be completed in a short time. The expanded factory will turn out 36,000 water meters of different sizes annually.

The production of microscopes, which is confined to about ten to twelve pieces a month at present, will be raised to 25 microscopes on completion of the expansion programme.

Besides the established lines of production of water meters and microscopes, manufacture of various types of pressure gauges and surgical instruments is also contemplated.

The factory, now a self-supporting economic unit, showed a net profit of Rs. 57,400 in 1955-56 as against the corresponding figure of Rs. 47,132 for the year 1954-55.

KOLAR GOLD MINING UNDERTAKINGS
Kolar Gold Fields, Mysore State.

Total investment : Rs. 164,00,000.

No. of Mines and their location : 3, all located in K.G.F.

Total annual output and average value : Gold, 1·90 lakh fine ozs.—Rs. 488 lakhs.
Silver, 14,380 fine ozs.—Rs. 54,000.

No. of workmen : About 25,000.

Names of companies taken over : (1) The Mysore Gold Mines ; (2) The Champion Reef Gold Mines ; (3) The Nandydroog Mines.

During November 1956, the gold mines in Kolar Gold Fields, established in 1880, passed from the private sector to the public sector under the provisions of the Kolar Gold Mining Undertakings (Acquisition) Act, 1956. The total compensation fixed under the Act is Rs. 164 lakhs, a major portion of which has already been paid to Messrs. John Taylor & Son, the former company.

Board of Management appointed by the Government of Mysore : The Chief Minister (*Chairman*) ; S. Muninanjappa (*Vice-Chairman*) ; G. Mathias, Finance Secretary ; T. P. Krishnachar, Director of Geology and Mines ; a representative of Messrs. John Taylor & Son who continue their association with the mines as Consultant Engineers.

THE MYSORE IRON AND STEEL WORKS
(Bhadravathi, Shimoga Dist., Mysore State).

This Mysore State Government project for the establishment of the industry was worked out during the years 1914-18, and the basic industrial enterprise started operations in 1923.

The present total investment is Rs. 6·1 crores.

The works produce pig iron, cast iron pipes, plate sleepers, general foundry castings, merchant steel sections, steel castings, portland cement, ferro-alloys. The turn-over amounts to over Rs. four crores per annum.

The manufacture by electric process is a noteworthy feature.

The annual production of pig iron is 90,000 tons ; of cement about 78,000 tons ; of ferro-silicon 5,000 tons ; of steel about 30,000 tons.

The production in the General Foundry is about 2,500 tons of general castings ; 600 tons of grinding bodies and 4,500 tons of plate sleepers a year.

The annual output of the Rolling Mill is about 30,000 tons of mild steel sections.

The Rod and Strip Mills produce 40 to 45 tons of rods or 30 to 35 tons of strips per day.

The Electric Steel Furnace produces annually about 4,500 tons of ingots and 600 tons of rough castings of which 200 tons are machined castings.

The output of the Structural Shop is about 100 tons a month.

In the expansion scheme of the works, a Cast Iron Spun Pipe Plant for manufacture of pipes upto 12" diameter was under installation and was expected to come into production by end of 1957.

Production of ferro-manganese in 2 Fuedle Furnaces with a capacity of 1,500 tons per year commenced during 1956-57.

The works have their plans for the Second Five-Year Plan period, to increase the steel ingot capacity from 30,000 tons to 1,00,000 tons and ferro-silicon production to 20,000 tons. A scheme for the manufacture of tool and alloy steel, stainless steel sheet and silicon steel is under consideration.

The labour employed : monthly rated about 1,800 and daily rated about 6,500.

Director and Vice-Chairman, T. Shamanna, I.A.S.
General Manager, T. Krishnappa, M.Sc, (Met.).
Addl. General Manager, B. Seshadri Sharma, B.E.

THE NATIONAL NEWSPRINT AND PAPER MILLS LIMITED
(Nepanagar, Nimar Dist., Madhya Pradesh).

The mills are situated on the main line Bombay-Itarsi, about 27 miles from Khandwa and 17 miles from Burhanpur.

The construction of the mill started in 1948, and the installation of the Paper Machine and Ground Wood Mill was completed by January 1955. The mill had a trial run on 11th January 1955 for the first time manufacturing newsprint from indigenous groundwood pulp and the imported chemical pulp.

The Chemical Plant was put into commission and newsprint manufactured from cent per cent indigenous raw materials on 29th December 1955.

The rated capacity of the plant is 100 tons per day. Present production is 60 tons a day. The target production of 100 tons per day is likely to be reached by 1959.

The production during 1956 was 13,683 tons.

The total revenue from sales during 1956-57 was Rs. 106 lakhs.

The Project has cost about six crores of rupees.

1,100 workers are working on permanent monthly wages.

The Company is a limited concern with about 22,000 shareholders. The major portion of the investment; however, has been raised by way of loans from the Government of M.P. and the Central Government through the M.P. State Government.

At the head is a Board of Directors who are elected at the annual general meeting of the Company by the shareholders.

Chairman, Board of Directors, Sir A. Ramaswami Mudaliar.
Managing Director, Ragho Raj Singh.
Works Manager, S. R. Krishnaswami.
Secretary, B. V. Deo.

The First-Five Year Plan had an allotment of Rs. 200 lakhs for the Mills.

SIRPUR PAPER MILLS LTD.
(Sirpur-Kaghaznagar, Central Railway, Andhra Pradesh).

The managing agents are Messrs. Birla Brothers Ltd., 8, India Exchange Place, Calcutta ; and the registered office is at Ali Villa, Somajiguda, Hyderabad.

Production started in 1942. The total capacity of the mill is 18,000 tons per year and actual production in 1955-56 was 14,200 tons. The mill employs about 2,100 workers. The authorized capital of the company is Rs. 8·85 crores, issued capital Rs. 2·91 crores and the paid-up capital Rs. 2·59 crores.

For the year ended 30th June 1956, the profit was Rs. 18·20 lakhs.

The Company had on hand plans to raise production capacity to 100 tons a day by the end of 1957.

Chairman, Board of Directors, G. P. Birla.

Secretary-General, P. R. Biyani ; *Secretary*, P. L. Bhandari ; *Commercial Manager*, G. N. Kabra ; *Factory Manager*, N. N. Agarwal ; *Technical Adviser*, H. Zuckerbaecker.

THE SIRSILK LTD.
(Sirpur-Kaghaznagar, Central Railway, Andhra Pradesh).

The managing agents are Messrs. Birla Brothers (Private) Limited, 8, India Exchange Place, Calcutta ; and the registered office is at Ali Villa, F-2-655, Somajiguda, Hyderabad.

The authorized capital is I. G. Rs. 10·80 crores, issued and subscribed capital I. G. Rs. 3·346 crores, and called and paid-up capital I. G. Rs. 3·02 crores.

The profit and loss account for the year ended September 30, 1956 shows a gain of Rs. 23·6 thousand. The working of the year 1957 has also shown an improvement.

The capacity is five tons of yarn at present (September 1957) and the company has obtained a licence to raise the capacity to ten tons. Out of the 480 looms received, 468 were installed and were working on double shift (September 1957).

Chairman, Board of Directors, G. P. Birla.

ANDHRA PRADESH

THE ANDHRA PAPER MILLS
(Rajahmundry).

The capital investment was Rs. 25 lakhs and production capacity is 10 tons a day. The Government proposes to increase the present production capacity of the Mills from 2,000 tons to 8,000 tons of paper a year at a total capital cost of Rs. 190 lakhs during the Second Five-Year Plan period. It has also been proposed to manufacture better quality of paper. A sum of Rs. 14·08 lakhs was provided in the State budget estimates for 1957-58 for the purchase of equipment required by the existing mills to increase the production.

THE GOVERNMENT CERAMIC FACTORY
(Gudur, Nellore Dist.).

The Government Ceramic Factory, Gudur is at present confined only to the production of crockery and sanitary ware. It is proposed to expand the factory during the 2nd Plan period at a total cost of Rs. 12·60 lakhs in order to take up the manufacture of Electrical Insulators as additional line of production, to meet the requirements of Government Electricity Department, etc. A sum of Rs. 4·27 lakhs was provided in the State budget for 1957-58 for the expansion of the factory. After the expansion of the factory is given effect to, it is expected that the production will be trebled.

HYDERABAD TANNERIES LTD.
(Hyderabad).

The investment is Rs. 13 lakhs. The production is temporarily suspended. The issue of reorganisation is under active consideration for hitting the targeted production envisaged in the tannery.

PRAGA TOOLS CORPORATION
(Hyderabad).

The authorised capital is Rs. one crore. The Union Government has agreed to invest another Rs. 75 lakhs to Rs. one crore for expanding the production which includes setting up of a modern foundry and a heavy forge shop.

THE SRI VENKATESWARA STRAWBOARD MILLS
(Tirupati).

This was originally a private company which the State Government has purchased. It has been proposed to start the Sri Venkateswara Strawboard Factory at Tirupati as a State enterprise at an estimated cost of Rs. 10·35 lakhs during the Second Plan period with a production capacity of 10 tons of strawboard per day. A sum of Rs. 2·35 lakhs was provided in the State budget estimates for 1957-58 for this scheme.

ASSAM

THANGA MILL
(Spun Silk Mill).
Jagi Road, P.O. Jagi Road,
Nowgong Dist., Assam.

The mill has not been started. Arrangements are in progress. The total investment proposed is Rs. 54·7 lakhs.

The Second Five-Year Plan target is 225,000 lbs. of spunyarn and 117,000 lbs. of Noil.

When the mill is in full production 600 unskilled and 400 skilled workers will be employed.

ASSAM CO-OPERATIVE SUGAR MILL LTD.
(P.O. Baruabamungaon, Golaght).

The mill was expected to go into production during the crushing season 1957-58.

The total investment is Rs. 90 lakhs.

When the mill is in full production about 600 persons will be employed.

The Second Five-Year Plan target for the mill is 13,000 tons of white refined sugar.

ASSAM SPUN SILK MILL
(Jagi Road, Nowgong Dist.).

The mill was expected to start functioning by the end of 1957.

The total estimated cost of the project is Rs. 54·7 lakhs.

It is estimated that about 400 skilled workers and 600 unskilled workers will be employed when the mill is in full production.

TEXTILE MILL
(Pandu)

The mill is expected to start functioning in 1958-59.

It is estimated that about Rs. 1·17 crores would be invested in the mill.

About 2,000 unskilled and 100 skilled and supervisory staff will be employed when the mill is in full production.

BIHAR

BIHAR STATE SUPERPHOSPHATE FACTORY
(Sindri).

The factory was still under erection and was expected to go into production by about the end of 1957. Some details relating to the factory are given below:

Capacity of production: Single superphosphate —15,000 tons per annum.

Installed capacity of plants: (i) 240 tons superphosphate per day; (ii) 25 tons sulphuric acid 98 per cent per day.

Total investment: Rs. 60 lakhs.
No. of workers expected to be employed: About 100.

At present State-owned, but may be made a private limited company.

The factory is capable of producing 240 tons of superphosphate per day or about 70,000 tons per annum of 300 working days, provided an additional 50-ton per day capacity sulphuric acid utilizing iron pyrites is installed for which a provision has been made in the Second Five-Year Plan. The production of the factory is expected to be mostly marketed within the State of Bihar.

The First Five-Year Plan had an allotment of Rs. 54·55 lakhs for the factory. The Second Five-Year Plan has allotted Rs. 20 lakhs for the expansion of the factory.

Works Manager, B. A. Sundara Moorthy, B.E., A.M.I.E. (Ind.); *Senior Works Chemist*, R. Jagannathan, M.A., A.R.I.C., A.M.I.Chem.E.; *Chief Engineer*, S. Kumar.

JAMMU & KASHMIR

GOVERNMENT DRUG RESEARCH LABORATORY
(Canal Bank, Jammu).

The Laboratory was started in 1943. Total investment is Rs. 18 lakhs. The number of persons employed is 300. The present production is valued at Rs. 12 lakhs and the Second Five-Year Plan target is Rs. 25 lakhs.

GOVERNMENT DRUG RESEARCH LABORATORY
(Raj Bagh, Srinagar).

The Laboratory was started in 1956. Total investment is Rs. 3·9 lakhs and the number of persons employed is 60. The present production is valued at Rs. 2 lakhs and the Second Five-Year Plan target is Rs. 15 lakhs.

GOVERNMENT SILK WEAVING FACTORY
(Raj Bagh, Srinagar).

The factory was started in 1938-39 with 33 looms and 1,872 spindles. It is now equipped with 124 looms and an uptodate Throwing Plant of 5,616 spindles.

Total investment: Rs. 12·34 lakhs odd. The factory employs 553 persons (479 labour and 74 establishment).

The present production is four lakh yards per annum. The target for the Second Five-Year Plan is six to seven lakh yards.

GOVERNMENT WOOLLEN MILLS
(Srinagar, Kashmir).

The mill was started on 7th December 1950. The total investment is Rs. 17,43,534-5-4. The number of persons employed is 570. Average production is 18,660 yards or 29,647½ lbs. per month. The Second Five-Year Plan target is 1,425,000 yards.

KERALA

GOVERNMENT CERAMIC CONCERNS
(Kundara, Quilon Taluk).

The factory was started in 1940 and has been functioning under direct management of Government. The factory consists of two sections, *viz.* (1) The mining and refining of China Clay and (2) The manufacturing section.

China clay is mined in the vicinity by open cast system from a deposit averaging upto 60 ft. from the ground level. There are very few places in India where such superfine china clay of equally good quality is available. China clay produced at Kundara is being supplied mainly for use in textile, paper, pottery and rubber industries, throughout India.

In the manufacturing section a good variety of electrical goods, refractories, pipes, etc. are being produced.

Total investments: Present factory—Rs. 13,80,329 (at the end of 1955-56); New factory —Rs. 32,43,865 (at the end of 1955-56).

Total number of employees: Pensionable staff 30; Non-pensionable staff 23; Contingency 7; Workers about 400.

The factory produces porcelain, crockery goods, refractories, etc.

Second Fiver-Year Plan target: Construction of slip tank, drying yard, etc. and purchase of machinery during 1956-57 and 1957-58 so as to commence production of additional quantity of 1,000 tons of china clay annually so as to raise the yearly production to 3,500 tons in 1958-59. Some items of machinery have been received and orders have been placed for some other items. Quotations have been invited for the remaining items except Bulldozer the supply of which is being considered by the Government.

GOVERNMENT HYDROGENATION FACTORY

The work on the building was started in 1949 and completed in 1956. An expenditure of Rs. 17,65,400 has been incurred for the factory. The production capacity of the plant is 15 tons per day. Groundnut oil is the essential raw material. Due to dull market then prevailing for Vanaspathi, the Government of Madras decided not to start production on a commercial basis. The Kerala Government are now considering proposals for re-opening and working this factory.

GOVERNMENT OIL FACTORY
(Kozhikode).

Regular operation of this factory started from the year 1943. The capital invested by the Government comes to about Rs. 4,55,541-15-8. The Oil Chemist is in immediate charge of this Institute. The Director of Industries & Commerce has the overall control of this institution. Various types of oils as Seagold Adamine, stayfit are manufactured here. Messrs. Parry & Co., Madras are the present Selling Agents for the products of this factory.

KERALA SOAP INSTITUTE
(Kozhikode).

Regular operation in this institute began in the year 1923. The institute manufactures several varieties of toilet soaps including the Kerala Sandalwood, Rose soaps etc. as also Wash-well and other varieties of bar soaps. The work of training of students in soap making is also undertaken.

The capital investment alone comes to Rs. 7,10,886-0-5.

The capacity of the factory is about 450 tons per annum. But it is now being increased.

The Oil Technologist is in immediate charge of the Institute. The Director of Industries & Commerce has an overall control. Agents have been appointed in all parts of India.

S.K.V.G.A. PHARMACY
(Trichur).

S.K.V.G.A. Pharmacy, Trichur, functions as a commercial concern under the Director of Indigenous Medicines.

Main products manufactured in the pharmacy are Ayurvedic Medicines, *viz.* Asavams, Arishtams, Thylams, Lahyams, Ghritams, Pills and Choornams, etc., etc.

SHARK LIVER OIL FACTORY
(Trivandrum).

This factory was started by the University of Travancore and was functioning from the end of 1950. Government has invested Rs. 2 lakhs in the factory. The main products manufactured in the factory are: (1) First Grade Shark Liver Oil (Sharliverpil) 5,000 units per gram; (2) Second Grade Shark Liver Oil 2,000 to 3,000 per gram; (3) Stearine and fish oil soap.

The factory has an installed capacity of 10,000 gallons and production is being increased by new methods of manufacture.

KERALA GOVERNMENT CERAMICS

This is a new factory commissioned in January 1957. The capital invested is about 35 lakhs. This is a scheme completed under the First Year Plan of the State. The production of white ware hitherto attended by the Ceramic Factory has been taken over by the new Concerns. The latest type of Electric Double Tunnel Kiln has been installed in this factory, and quality goods, mainly tea sets are being produced.

PALLATHRA BRICKS & TILES LTD.
(Kottayam District, Kerala).

Management: Cherian & Co. (Private) Ltd., Chingavanam P.O., Kottayam, Kerala.

Capital: Rs. 11 lakhs (Rs. 5 lakhs to be subscribed by Kerala Government).

Labour: About 350 workers.

Probable date of commencement of production: end of 1957.

Initial target: 20,000 bricks per shift of 8 hours in one unit. Only one unit is proposed to be started now.

TRAVANCORE MINERALS PRIVATE LTD.
Head Office: Quilon, Kerala State.

Works: Chavara, Quilon Dt., Kerala State.

Date when started: January 1932—successors of Travancore Minerals Company, a private limited company incorporated in England; fully nationalised in June 1949. Pioneers in beach mineral dressing.

Total investments: Rs. one crore.

Present production: Daily average subject to climatic conditions: Ilmenite—600 tons and two tons rutile per day. Also monazite.

The present constitution of the Company consists of a Board of three Directors, one representing the Government of India, one the Kerala State, and the Chairman being nominated by the Government of India.

This new set-up commenced functioning in May 1957. The Company is being administered by a Chief Administrative Officer, Lt.-Col. J. N. Zutshi, formerly of the Defence Department, Government of India. A reorganisation of the industry has recently been undertaken by the present Board of Directors.

Second Five-Year Plan target: No scheme for the expansion of the production schedules of ilmenite and monazite is included in the Second Five-Year Plan. A scheme for the production of rutile with the latest type machinery is however included in the Plan with a physical target of 7,000 tons at an estimated expenditure of Rs. 12.86 lakhs. A sum of Rs. 1,70,000 has been provided in the current year's budget and a High Tension Electro Static Separator from Florida, U.S.A., has arrived. Employment of the required staff is being considered.

TRAVANCORE PLYWOOD INDUSTRIES

This is a factory started as a Public Company with Government support. Finally in 1947, Government purchased all the shares of the company and became sole proprietor. The Capital investment in buildings and machinery is about Rs. six lakhs. The factory is now mainly producing plywood for tea chests. The installed capacity of the machinery for the production of plywood is 3 million s.ft. of 4 m.m. plywood a year. The soft wood logs required for the manufacture of plywood are being delivered to the factory by the Forest Department. The tea chest panels now produced in the factory find ready sales. Commercial plywood also is in good demand.

TRAVANCORE RUBBER WORKS
(Chackai, Trivandrum 7).

The factory was started on 17th August 1935 as Travancore Govt. Rubber Factory (later leased to the Travancore Cables & Rubbers Ltd. from January 1937 to March 1938). Subsequently the factory was working on partnership basis between the Travancore Government and Sir Chinubhai Ranchodlal Madhowlal from 10-2-1940 to 8-10-1949. The concern was finally taken over by the Govt. of Travancore-Cochin on 9-10-1949.

The capital investment by the Government is Rs. 4,80,875-5-5. The factory consumes about half to three quarter ton of raw rubber per day and the production capacity is about two tons of goods worth Rs. 4,000 to Rs. 5,000 per day.

The factory employs about 250 persons: Staff about 45. Workers about 205 (30 on monthly wages and about 175 on daily wages).

The production capacity of the factory is 25,00,000 lbs. per year.

The main products manufactured in the factory are cycle tyres and tubes and various types of rubber sheeting, hoses, tubings, rings, bushes, gharry and sponge and latex cushions, ebonite rods, blocks, sheets, latex and sponge toys, etc.

Under the Second Five-Year Plan, a cycle rim plant is under construction and a scheme of modernisation and expansion of the whole factory has also been taken up. Increased output of up-to-date finished goods and increased profits are expected by the mechanisation and modernisation.

MYSORE

THE GOVERNMENT CENTRAL INDUSTRIAL WORKSHOP
(Post Office Road, Bangalore).

Established: 1897.

Capital invested: Rs. 5,90,554 (fixed).

No. of persons employed: 192.

Annual outturn: Rs. 4·5 lakhs (1956-57).

The process of shifting the factory to new premises and amalgamating the mechanical department of the Government Electric Factory with it is under way. The scheme is estimated to cost Rs. 9·5 lakhs. The shifting was expected to be completed by the middle of 1958. A production target of Rs. 16 lakhs per annum is expected to be reached by the end of the Second Five-Year Plan.

GOVERNMENT ELECTRIC FACTORY
(Mysore Road, Bangalore).

Established: 1934.

Capital invested: Rs. 60 lakhs.
No. of persons employed: 1,000.
Annual outturn: Rs. 70 lakhs.

A scheme is under way to expand the factory during the Second Five-Year Plan and a sum of Rs. 125 lakhs has been granted by the Centre under the Central Aid Scheme. Negotiation for collaboration of the factory with a famous engineering firm, Messrs. A. E. G., Germany, has been concluded. The expansion scheme envisages (1) production of transformers of capacities up to 10,000 KVA and of voltage rating up to 66,000 volts, recording an annual output of 200,000 KVA, (2) restarting the manufacture of electric motors with a capacity up to 250 hp and the ultimate annual output of 60,000 hp and (3) manufacture of switch-gear like the iron clad switches, a variety of fuse cartridges, group operated isolators, oil circuit breakers, etc. up to a rupturing capacity of 250,000 KVA and voltage rating up to 33 KV.

GOVERNMENT PORCELAIN FACTORY
(Malleswaram, Bangalore).

Established: 1932.

Capital invested: Rs. 70,70,600.
No. of persons employed: 415.
Annual outturn: Electro-porcelain: 300 tons; Crockery: 24 tons.

The Government Porcelain Factory is the only State-owned industry of the type in India. In order to meet the growing demand for insulators, bushings, etc., an expansion scheme estimated to cost about Rs. 84 lakhs is under way in technical collaboration of Messrs. Nippon Gaishi Kaisha Ltd., Nagoya, Japan. This scheme envisages an output of 2,500 tons of production per annum. Since this scheme could not be completed within the end of the First Five-Year Plan, it had to be included in the Second Five-Year Plan.

GOVERNMENT SANDALWOOD OIL FACTORY
(Mysore South & Shimoga Town).

Established: 1916.
Capital: Rs. 9,68,385.
Number of persons employed: About 100.
Annual outturn: 1,40,000 lbs. of sandalwood oil.

A programme of replacing the existing equipment and machinery by uptodate and modern ones is in hand. Details are being worked out. It is also proposed to develop the factory at Shimoga into a full-fledged and self-contained unit.

GOVERNMENT SOAP FACTORY
(Rajajinagar, Bangalore).

Established: 1918.

Capital invested: Rs. 10,45,060.
No. of persons employed: 233.
Annual outturn: Rs. 32 lakhs.

The factory shifted to its new premises at Rajajinagar, Bangalore's industrial suburb, in March 1957; is expected to produce 1,500 tons of soap per year which can be further increased to 3,000 tons. A glycerine recovery plant and a rectification plant are also being erected in the new premises. This will have an output of 75 tons of chemically pure glycerine a year.

MYSORE GOVERNMENT SILK WEAVING FACTORY
(Mysore).

Established: 1932.
Capital invested: Rs. 15,20,975
Number of persons employed: 193.
Annual outturn: Rs. 10,00,000.

MYSORE IMPLEMENTS FACTORY
(Hassan).

Established: 1939.
Capital invested: Rs. 10,87,000.
No. of persons employed: 254.
Annual outturn: Production Rs. 7,00,000 (1956-57). Sales Rs. 5,06,000.

A scheme for mechanisation and development of the factory with a capital cost of Rs. 14 lakhs is being executed.

RESEARCH

RESEARCH in pure science is carried out mainly in the universities and in some research institutes. The Council of Scientific & Industrial Research (C.S.I.R.) and the Department of Atomic Energy provide facilities for fundamental or basic research in their laboratories and institutes, and also sponsor such research in universities and research institutions all over the country.

Research in applied science and for industrial development is done mainly under the auspices of the C.S.I.R., the Co-operative Research Associations, and the laboratories attached to a few industrial concerns.

Research in engineering subjects is undertaken in the Indian Institute of Science, Bangalore, Central and State Hydraulic Engineering Research Stations, Indian Institute of Technology, Kharagpur, and in a few engineering colleges, such as the College of Engineering and Technology, Jadavpur.

The Council of Scientific & Industrial Research, also sponsors engineering research in various institutions through its research committees.

Medical research is mainly in the charge of the Indian Council of Medical Research.

Agricultural research is looked after by the Indian Agricultural Research Institute, Delhi, and the various Central Committees for agricultural commodities like the Indian Central Cotton Committee, Indian Central Jute Committee, etc. and the research institutes functioning under the Ministry of Food and Agriculture. (See article on agriculture.)

The Indian Veterinary Research Institute, Izatnagar (U.P.) is concerned with veterinary diseases. The National Dairy Research Institute at Karnal in the Punjab works on dairy research.

Research for defence purposes is undertaken in the Defence Science Laboratory at New Delhi. Some amount of work is carried out also in ordnance laboratories at Kanpur and elsewhere.

Research in the humanities—literature, language, the arts, etc.—is done at individual institutions scattered throughout the country.

It may be mentioned here that the Central Government has a Scientific Liaison Officer in the U.K. He keeps in touch with scientific developments in Europe, arranges for the training of Indians at research centres in Europe, and helps to promote personal contacts between Indian and foreign scientists.

The Indian National Documentation Centre at New Delhi helps to keep Indian scientists in touch with research work done in foreign countries.

Allotment for C.S.I.R. alone for research and development under the Second Five-Year Plan is Rs. 33·36 crores.

SCIENTIFIC SOCIETIES

The National Institute of Sciences, New Delhi, is the premier scientific society recognised by the Government of India. It enjoys the same status in India as the Royal Society of London in U.K. or the National Academy of Sciences, Washington in U.S.A.

Two all-embracing science societies are:

The Indian Science Congress Association, Calcutta, under whose auspices Indian and foreign scientists meet every year to exchange ideas; and

The Indian Association for the Cultivation of Science, Calcutta.

Two all-India academies are:

The Indian Academy of Sciences, Bangalore; and

The National Academy of Sciences (India), Allahabad.

Other scientific societies are: (for notes on these societies, where they are available, see under appropriate State): Architectural Society of India, Bombay; Aeronautical Society of India, New Delhi; Agricultural and Horticultural Society of India, Calcutta; Agri-Horticultural Society, Madras; Anatomical Society of India, Calcutta; Anthropological Society, Bombay; Asiatic Society of Bengal, Calcutta; Association of Microbiologists of India, Calcutta; Banaras Mathematical Society (Bharat Ganita Parshad), Lucknow; Biological Society of Assam, Gauhati; Bombay Natural History Society, Bombay; Bombay Sanitary Association, Bombay; Botanical Society of Bengal, Calcutta; British Medical Association, Bombay Branch, Bombay; Calcutta Geographical Society Calcutta; Calcutta Mathematical Society, Calcutta; Calcutta Statistical Association, Calcutta; Christian Science Society, Calcutta; Concrete Association of India, Bombay; Congress of Theoretical & Applied Mechanics, Kharagpur; Engineering Association of India, Calcutta; Geological Institute, Calcutta; Geological, Mining and Metallurgical Society of India, Calcutta; Gujerat Research Society, Bombay; Helminthological Society of India, Calcutta; Horticultural Society of India, Calcutta; Indian Anthropological Institute, Calcutta; Indian Botanical Society, Calcutta; Indian Ceramic Society, Banaras; Indian Chemical Society, Calcutta; Indian Council of Geographers, Calcutta; Indian Dairy Science Association, Bangalore; Indian Ecological Society, Calcutta; Indian Institute of Architects, Bombay; Indian Institute of Chemical Engineers, Calcutta; Indian Institute of Metals, Calcutta; Indian Mathematical Society, Madras; Indian Medical Association, Bombay; Indian Meteorological Society, New Delhi; Indian National Society of Soil Mechanics & Foundation Engineering, New Delhi; Indian Pharmaceutical Congress Association, Calcutta; Indian Physical Society, Calcutta; Indian Physiological Society, Calcutta; Indian Phytopathological Society, Calcutta; Indian Roads and Transport Development Association, Bombay; Indian Science News Association, Calcutta; Indian Society for Agricultural Statistics, New Delhi; Indian Society of Engineers, Calcutta; Indian Society of Genetics and Plant Breeding, New Delhi; Indian Society for Quality Control, Calcutta; Indian Society of Soil Science, Calcutta; Institute of Engineers, Calcutta; Institute of Chemists, Calcutta; Institution of Military Engineers, New Delhi; Institution of Surveyors, New Delhi; Institution of Telecommunication Engineers (India), New Delhi; International Society of Plant Morphologists, Delhi; Maharashtra Association for the Cultivation of Science, Poona; Mechanical Engineers' Association (India), Bombay; Mining, Geological and Metallurgical Institute of India, Calcutta; Mysore Geologists Association, Bangalore; National Horse Breeding and Show Society of India, New Delhi; Oil Technologists' Association, Kanpur; Palaeobotanical Society of India, Lucknow; Physiological Society of India, Calcutta; Psychoanalytical Society, Calcutta; Rajasthan Academy of Sciences, Pilani; Royal Agri-horticultural Society of India, Calcutta; Society of Biological Chemists, Bangalore; Sugar Technologists' Association, Kanpur; Tropical Diet Research Society, Calcutta; Vijnana Parishad, Allahabad; Zoological Society of Bengal, Calcutta; Zoological Society of India Calcutta.

COUNCIL OF SCIENTIFIC RESEARCH

The major part of applied research in India is now carried on under the auspices of the Council of Scientific and Industrial Research (Ministry of Education and Scientific Research).

The Council of Scientific & Industrial Research was established in 1942 by the Government of India as an autonomous body registered under the *Registration of Societies Act XXI of 1860*. The functions of the Council include: the promotion, guidance and co-ordination of scientific and industrial research in India; the establishment, maintenance and management of laboratories and institutes to further scientific research; and the collection and dissemination of scientific information. Research work under the Council is carried on in its own laboratories and extra-murally in universities and other institutions under a grants-in-aid scheme.

The Council is administered by a Governing Body with the Prime Minister as President, the Minister for Education and Scientific Research as Vice-President and representatives of science, industry and certain Government departments as members. The Board of Scientific & Industrial Research advises the Governing Body on research and development proposals and also as to the lines on which scientific and industrial research ought to be conducted and the channels into which it should be guided for ensuring co-ordinated development of science and industry in the country. The Board initiates, guides and supervises research projects and examines and co-ordinates schemes of research.

The Board consists of representatives of science, engineering, industry and appropriate departments of State Governments and of the Government of India. It functions in two working parties (*i*) scientific and technical subjects; and (*ii*) engineering subjects. The Board is advised by a number of Research Committees, which keep a watch on the progress of research schemes falling within their scope, formulate long-range research projects on specific subjects and recommend to the Board necessary grants-in-aid and block grants for research work in universities and other institutions scattered in the country. The number of Research Committees at present is 25 as follows:

Aeronautics; Applied Mechanics; Atmospheric; Biochemical; Biological; Biophysics; Building; Cellulose; Chemical; Geological & Mineralogical; Electrical & Wind Power (including Wind Power Sub-Committee); Essential Oils; Metals; Mining; Pharmaceuticals & Drugs (with Medicinal Plants Sub-Committee); Physical; Plastics; Public Health Engineering; Radio; Internal Combustion Engines & Gas Turbines; Road; Science Instruments; Soil Mechanics & Foundation Engineering; Vanaspati; Vegetable Oils.

The budget grant for 1957-58 was Rs. 5 crores.

In 1956-57 Rs. 25,60,000 were granted by the Council to 278 scientists for research in various institutions.

NATIONAL LABORATORIES

There are 16 national laboratories functioning under the Council.

The National Physical Laboratory in New Delhi and the National Chemical Laboratory at Poona stand on a special footing.

The former is equipped for the maintenance of and research in fundamental and derived standards. It also undertakes research in industrial standards of performance and practice.

The National Chemical Laboratory is concerned with investigations embracing all the chief applications of chemistry. In the areas not covered by the activities of other institutions this Laboratory has a special responsibility.

The National Metallurgical Laboratory, Jamshedpur;

The Central Fuel Research Institute, Jealgora;

The Central Glass & Ceramic Research Institute, Calcutta;

The Central Food Technological Research Institute, Mysore;

The Central Drug Research Institute, Lucknow;

The Central Leather Research Institute, Madras;

The Central Building Research Institute, Roorkee;

The Central Road Research Institute, New Delhi;

The Central Salt Research Institute, Bhavnagar;

The National Botanic Gardens, Lucknow;

The Electronics Engineering Research Institute, Pilani;

The Indian Institute for Biochemistry & Experimental Medicine, Calcutta;

The Central Mining Research Station, Dhanbad,

The Central Electro-Chemical Research Institute at Karaikudi.

These institutes are concerned with problems of specific industries which are rapidly developing in the country.

The Council has set up laboratories for the investigation of problems of particular regions.

A Regional Research Laboratory has been set up at Hyderabad. The Council is now planning to establish similar laboratories in other parts of the country.

The following laboratories are in the process of establishment:

Central Mechanical Engineering Research Institute at Calcutta;

Research Station for the utilization of Sambhar bitterns.

A Committee presided over by the British scientist Sir Alfred Egerton reported on the working of the national laboratories in 1953.

The Council of Scientific and Industrial Research encourages the formation of co-operative research associations for the purpose of conducting research for industry by industry. Where recognition is given Government may make a money grant. Examples of industries which have set up such associations are:

Ahmedabad Textiles (Ahmedabad Textile Industry's Research Association); the Silk and Art Silk Mills' Association, Bombay; Bombay Textiles (Bombay Textile Industry's Research Association); Coimbatore Textiles (The Southern India Textile Research Association); and Jute Mills, Calcutta (Indian Jute Mills Research Association).

The Shri Ram Institute for Industrial Research, Delhi, undertakes on a 'not-for-profit' basis, research in and investigation of projects sponsored by industrial concerns, groups of companies, individuals and government agencies.

RESEARCH SCHEMES

In 1957 there were about 250 research schemes in progress sponsored by the Council. As a result of help from the Council schools of research have come into existence at some Indian universities, *e.g.* a school in geophysics at Andhra University, one in dye-stuffs at Bombay and another in nuclear and ionospheric research at Calcutta.

The schemes cover research in such subjects as radio, instrumentation, dye-stuffs, coal tar products, vegetable and essential oils, processing of food stuffs and leather, plastics, ceramics, cellulose, insecticides and antibiotics.

About biological sciences, the Council has appointed a Committee to report on what measures might be taken to encourage research in them. There is special investigation of plant material with the view to the production of antibiotics.

Research in cloud physics with a view to producing artificial rain is carried out at a research unit at the National Physical Laboratory at New Delhi in co-operation with the Indian Meteorological Department and the Ministry of Defence.

The investigations in connection with the International Geographical Year were also conducted under the auspices of the council.

There is much investigation into ores, metals and alloys for the purpose of up-grading ores, discoveries of new processes of smeltings, and of metal coating to resist corrosion. The aim is to eliminate the use of elements that are scarce in this country. Experiments are conducted at Jamshedpur for the production of iron by using non-coking coals, a process that will save better grade coal reserves.

Four research centres are likely to be established for research in essential oils. Perfumery material, now largely imported, is sought to be produced by the cultivation of the Johore Patchouli plant and the linaloe tree. Experiments in this connection are being conducted at the Indian Institute of Science, Bangalore and in Madras.

A survey of cellulose raw material has shown that bagasse, eeta reeds and bamboo could be used with success in the manufacture of rayon. It is also clear that news-print can be produced on a commercial scale by the use of mixed bamboo fibre and bagasse.

In the tanning of leather an effort is made to substitute indigenous vegetable tanstuffs (babul, divi-divi) for wattle bark which is imported. A number of foreign tanning processes have been adapted to conditions in this country. An effort is made to manufacture glazed kid in India as well as to standardize buffalo hides.

In geology there are investigations to determine the age of rocks by examining their radio content. The Andhra University is conducting research in oceanography—temperature, salinity, mineral content of sea water.

In the matter of food the main research is in relation to the nutritional values of certain food-stuffs including palm gur and the preservation of neera.

Of general interest are experiments in low-cost housing and the production of an experimental National Calendar for five years 1954-55 to 1958-59 by the Calendar Reform Committee of the Council. This calendar has now been used for certain official purposes from March 22, 1957.

To try out new inventions with a view to their commercial possibilities a National Research Development Corporation has been set up.

This started functioning in Dec. 1953 and upto the end of March 1957, 388 inventions were reported for development. The number reported in 1956-57 was 134.

ATOMIC ENERGY

The Department of Atomic Energy was constituted by the Government of India in 1954 with Bombay as its headquarters.

The Department is under the Prime Minister. The present Secretary of the Department is Dr. J. H. Bhabha.

The Department has an executive branch called the Atomic Energy Establishment. The Chief executive official of the Establishment is designated Controller.

The Atomic Energy Commission is a much older body. It was set up in August 1948 under The Atomic Energy Act, 1948 with the object of developing atomic energy for peaceful purposes. It had three members then: Dr. J. H. Bhabha, the late Sir S. S. Bhatnagar and Dr. K. S. Krishnan. At the time of writing (Feb. 1958) the commission was in the process of reformation and Mr. Bhabha had been named Chairman. The Atomic Energy Department could therefore be regarded as the body actively in charge of affairs connected with atomic energy.

The Department normally discharges four duties. It conducts surveys for the discovery of minerals useful in the production of atomic energy. It processes the minerals on a large industrial scale. It undertakes research in atomic energy. It promotes fundamental research in nuclear physics. And it trains scientific personnel.

A Board of Research and Cosmic Ray Committee help the Department in the discharge of some of its functions.

Research on atomic energy for peaceful purposes is conducted in the laboratories of the Department of the Tata Institute of Fundamental Research, Indian Cancer Research Centre, Bombay, and also at the universities.

The Department of Atomic Energy also looks after the Indian Rare Earths Ltd., located at Alwaye in Kerala State for processing monozite. It is a joint enterprise of the Governments of India and of Kerala.

A factory has been set up in Bombay for extracting uranium and thorium from the waste thrown up by the Alwaye works. Some of the rare earth salts produced by this plant will be used by the gas mantle industry.

The first atomic reactor designed and built by Indian scientists and engineers has been in operation since Aug. 4, 1956. This reactor combines experimental facilities for pure research as well as shielding studies for advanced power reactors. It will train personnel for bigger and more complicated reactors that are to follow and also produce isotopes useful in agriculture, industry and medicine.

The Department of Atomic Energy finances cosmic ray research at various universities, and especially at the following institutions: Institute of Nuclear Physics, Calcutta; Bose Institute, Calcutta; Physical Research Laboratory, Ahmedabad.

SCIENCE RESEARCH BODIES

There is a whole host of research organizations (besides the ones mentioned above) engaged in scientific research of one sort or another.

The Geological Survey of India at Calcutta maps out the mineral resources of the country. The Indian Bureau of Mines, the Mineral Information Bureau at Delhi, the National, Metallurgical Laboratory at Jamshedpur and the Indian School of Mines at Dhanbad also help in the prospecting and working of minerals.

The Botanical and Zoological Surveys both at Calcutta conduct systematic surveys of the animal and plant resources of the country.

The Birbal Sahani Institute at Lucknow carries on research in plant fossils.

The Meteorological Departments of the Government of India at Delhi and Poona are concerned with meteorological, climatological, hydro-meteorological and snow surveys.

The Bose Research Institute in Calcutta conducts research in physics, chemistry, zoology and plant breeding.

Research in radio physics and electronics is in progress at the Indian Institute of Radio Physics and Electronics in Calcutta, while research in cosmic rays and theoretical physics is carried on at the Physics Research Laboratory in Ahmedabad.

The Indian Association for the Cultivation of Science at Calcutta is engaged in research in many fields relating to physics and chemistry both in their theoretical and applied aspects.

The Forest Research Institute at Dehra Dun does research in the improvement and utilization of forest produce and more especially in timber for constructional purposes.

ENGINEERING RESEARCH

The Indian Standards Institution at New Delhi lays down specifications for materials, tools and products.

About fifteen engineering institutions provide facilities for research:

All India Institute of Hygiene and Public Health, Calcutta: sanitary engineering.

Annamalai University, Annamalainagar (Madras State): structural and agricultural engineering, public health.

Baroda University, Baroda: civil, mechanical and telecommunication engineering.

Bengal Engineering College, Sibpur, Calcutta: mechanical; civil and electrical engineering (sp. gas turbines and jet propulsion).

Bihar College of Engineering, Patna: Civil and electrical engineering.

College of Engineering and Technology, Jadavpur, Calcutta: mechanical, electrical and civil engineering.

College of Engineering, Poona: structural and electrical engineering.

Government College of Technology, Coimbatore: heat engineering, hydraulic engineering, soil mechanics.

Indian Institute of Technology, Kharagpur: mechanical engineering.

Madras Institute of Technology, Madras: aeronautical and automobile engineering and soil mechanics.

Morvi Technical Institute, Morvi: wind power engineering.

University College of Science and Technology, University of Calcutta: heat and illumination engineering.

University of Roorkee, Roorkee: Civil, mechanical and electrical engineering.

Victoria Technical Institute, Bombay: Mechanical and electrical engineering.

A number of Ministries and Departments of the Government of India have development and research sections:

The Indian Agricultural Research Institute, New Delhi has a Division of Agricultural Engineering which is concerned with agricultural equipment.

The Ministry of Communications has a Research and Development Directorate in the Directorate-General of Civil Aviation which sees to the specifications, certification and manufacture of aircraft and aircraft material.

The Technological Development Wing of the Ministry of Heavy Industries offers advice on engineering equipment in general and more especially on machine tools and internal combustion engines.

The Central Board of Irrigation and Power conducts eleven research stations the chief of which are in Poona, Amritsar and Poondi (Madras State). The one at Khadakvasla near Poona is the most important. It conducts research in hydraulic engineering, soil mechanics, concrete materials and navigation.

The All India Radio has a research unit of its own in New Delhi.

The Railway Board has centres in Lucknow, Lonavla and Chittaranjan to investigate problems connected with railways.

Questions connected with roads, bridges, ports, harbours are taken up for investigation by the Roads Organization under the Ministry of Transport.

MEDICAL RESEARCH

Medical Research is conducted chiefly under the auspices of the Indian Council of Medical Research, New Delhi. The Council also grants research fellowships. There is a Scientific Advisory Board which deals with technical questions and publishes reports of research carried on at the centres under its charge.

The Council spent over Rs. 33 lakhs on research in 1956-57. In 1957-58 the expenditure was expected to exceed Rs. 50 lakhs.

The outstanding research institutions in medicine are:

The School of Tropical Medicine, Calcutta: diseases peculiar to tropical climate.

The All India Institute of Hygiene and Public Health, Calcutta: preventive and social medicine.

The Indian Cancer Research Centre, Bombay: cancer.

The Vallabhbhai Patel Chest Institute, Delhi: Tuberculosis.

The Central Leprosy Research Institute, Madras: leprosy.

The Haffkine Institute, Bombay: Plague, malaria, virus diseases, nutrition. It also manufactures vaccine and sera.

The Central Research Institute, Kasauli: microbiology, bio-chemistry, serology.

The Pasteur Institute, Conoor: Rabies, influenza, tropical eosinophilia, anti-venom serum, serological reactions.

The King Institute of Preventive Medicine, Guindy, Madras: vaccines, specially against small pox and therapeutic sera.

The Bengal Immunity Research Institute, Calcutta (Private): prevention, control and cure of disease, and anti-malarial drugs.

The Central Drug Research Laboratory, Calcutta: biological and Chemical assays of drugs. It also gives technical advice to drug manufacturing firms.

The Drug Research Laboratory, Jammu: research in medicinal plants. Has two farms, Promotes standardization of indigenous drugs.

The Virus Research Centre, Poona: Virus-caused diseases.

The Indian Council of Medical Health initiates research in a large number of specific questions at medical colleges and hospitals in the country including the institutions mentioned above.

The questions are too technical to be mentioned here. But in general they relate to in the 1957-58 series, besides clinical research covering a large area, haematology, cardio-vascular diseases and hypertension, liver diseases, cholera leprosy, malaria, tuberculosis, venereal diseases, dental health, environmental sanitation and hygiene, industrial health, maternal and child health, mental health, nutrition, protein foods, human lactation, protein metabolism, energy metabolism, metabolism, nutritive value of certain food stuffs, food technology, growth and physical development of Indian infants, lathyrism, fluorosis, physiology and pharmacology, physiology of human reproduction, virus diseases.

RESEARCH IN HUMANITIES

Anjuman-i-Islam Urdu Research Institute, Hornby Road, Bombay 1; Anthropological Society of Bombay, C/o K. R. Cama Oriental Research Institute, 136 Apollo Street, Bombay; Bangiya Sahitya Parishad, 243-1 Upper Circular Road, Calcutta; Bhandarkar Oriental Research Institute, Poona; Bharatiya Itihasa Samshodhaka Mandala, Sadashiv Peth, Poona; Bharatiya Vidya Bhawan, Chowpatty, Bombay; B. J. Institute of Learning and Research, Bhadra, Ahmedabad; B. M. Institute of Child Development, Pharmacy College, Navrangpura, Ahmedabad; Bureau of Psychology, Allahabad; D. A. Memorial Institute, C/o Bharatiya Itihasa Samshodhaka Mandala, Poona; Deccan College of Post-Graduate and Research Institute, Poona; Department of Anthropology, Indian Museum, 27 Chowringhee Road, Calcutta; Department of Archaeology, Ministry of Education, New Delhi; Department of Historical and Antiquarian Studies, Gauhati; Dharmakosha Mandal (Vedic Research Institute), C/o Prajna Pathshala, Wai, Dt. North Satara, Bombay; Ganganath Jha Research Institute, Allahabad; Gokhale Institute of Politics and Economics, Poona; Gujarat Research Society, Bombay; Hindi Vidya Pith, Deoghar, Bihar; Indian Institute of Education, 11 Horniman Circle, Bombay; Indian Institute of Philosophy, Amalner, East Khandesh, Bombay; Kannada Research Institute, Dharwar; Karnatak Research Society, Dharwar; K. P. Jayaswal Research Institute, Patna; K. R. Cama Oriental Institute, 136 Apollo Street, Bombay; Kuppuswami Sashtri Research Institute, Mylapore, Madras; Mandir Vidya Pith, Bhagalpur, Bihar; Marathi Sanshodhan Mandal, Mumbai Marathi Granth-sangrahalaya, Thakurdwar, Bombay; Mithila Institute of Post-Graduate Studies and Research in Sanskrit Learning, Darbhanga, Bihar; Nalanda Pali Institute, P.O. Nalanda, Patna; National Archives of India, Ministry of Education, New Delhi; Oriental Research Institute, Mysore; Rajasthan Vishva Vidya Peeth, Udaipur; Rajwade Samshodhan Mandal, Dhulia, Bombay; Scindia Research Institute, Ujjain; Shri G. K. Institute of Rural Education, Gargoti, Kolhapur Dt., Bombay; Sheth Bholabhai Jeshingbhai Institute of Learning and Research, Bhadra, Ahmedabad; Shri Farbes Gujarati Sabha, Bombay; Tata Institute of Social Sciences, Chembur, Bombay; The Asiatic Society, 1 Park Street, Calcutta; Vachana Mantapa (Kannada Research Institute), Belgaum; Venkateswara Research Institute, Tirupati; Vaidika Samshodana Mandal, Tilak Memorial, Poona; Vaishali Prakrit Institute, Muzaffarpur; Vishveshwaranand Vedic Research Institute, Hoshiarpur, Punjab.

INDIAN NATIONAL DOCUMENTATION CENTRE

The Indian National Documentation Centre fulfils an important role in research. This body was set up in 1952 with technical help from UNESCO, and is housed in the same building as the National Physical Laboratory at Hillside Road in New Delhi and is in the charge of the Director of the Laboratory.

The Documentation Centre receives and retains scientific periodicals required by research bodies in India.

It maintains an index of all journals received.

It supplies photostats and translations of articles required by research workers.

It supplies the rest of the world with information about scientific research done in India.

It undertakes to answer queries on scientific questions.

The Centre has a catalogue of scientific journals and research institutions.

CIVIL AVIATION

ALLOTMENT under the Second Five-Year Plan, Rs. 43 crores.

Compensation to former air companies Rs. 5·16 crores.

Part of the compensation has been paid in cash, and the balance has been paid in the form of bonds redeemable at the end of five years.

The budget estimates for 1957-58 for the Civil Aviation Department were: Revenue Expenditure: Rs. 3·55 crores; Capital Expenditure: Rs. 2·67 crores; Revenue from landing, etc. at civil aerodromes: Rs. .81 lakhs.

India's air transport services were nationalised by an Act of Parliament called the Air Corporations Act, 1953 which received the President's assent on May 28, 1953. The Act came into force on August 1, 1953.

The internal air services and services to neighbouring countries are now managed by a corporation called Indian Airlines Corporation, and the external services by Air-India International Corporation. According to the Act the number of members of a Corporation cannot be less than five and not more than nine. Each of the Corporations has a general manager. In the case of Indian Airlines Corporation the Chairman exercises the functions of the General Manager also.

The Central Government has authority to give the Corporations directions about opening a new transport service, closing an existing service, or other changes in schedule. At the end of a financial year the Corporations must present a report to the Central Government which will be laid before Parliament.

Private agencies can use aircraft for purposes of instruction, rescue or relief, air survey, fire fighting, crop dusting, locust control or for providing joy rides.

An Air Transport Council has been established for discussing certain points of common interest to different departments.

An Advisory Committee for each Corporation was appointed in Feb. 1958.

A Labour Relations Committee for each Corporation consisting of representatives of the Corporation and of employees, was formed early in 1956. The Committee has been formed in such a way that the representatives of employees are not less than the representatives of the Corporation. This Committee will give advice to the Corporation on matters of labour.

In addition to the two Corporations, there were 12 flying clubs and six transport companies, the latter holding permits for non-scheduled services on June 30, 1957.

In February 1958 three major private airline operators formed one company for carrying on non-scheduled operations in India and abroad. These were Indamar Company (Private) Ltd., Bombay, Jamair Company (Private) Ltd., Calcutta, and Darbhanga Aviation, Calcutta.

The companies had a combined asset of over Rs. 30 lakhs with 15 aircraft, mostly Dakotas. They signed an agreement to operate as Kalinga Airways (Private) Ltd., New Delhi.

They will operate charter services, will lift freight from India and will also take over aircraft no longer required by the I.A.C.

On August 1, 1953 when the Indian Airlines Corporation started functioning, it took over all the services operated by the internal airlines in the country on that date.

The names of the then existing air companies taken over by the Indian Airlines Corporation as mentioned in the Act are:

The Air India Ltd.; The Air Services of India Ltd.; The Airways (India) Ltd.; The Bharat Airways Ltd.; The Deccan Airways Ltd.; The Himalayan Aviation Ltd.; The Indian National Airways Ltd.; The Kalinga Airlines.

The Air-India International Corporation took over the Air-India International Ltd.

INDIAN AIR LINES CORPORATION

(Thapar House, Janpath, New Delhi.)

INDIAN AIRLINES CORPORATION was formed on 1st August, 1953, as a State Corporation under the provisions of the Air Corporations Act, 1953.

The present fleet consists of 6 DC-4, 62 DC-3, 12 Vickers' Vikings and 8 DH Herons (Total: 88) operating a network of 22,700 route miles throughout India, Afghanistan, East and West Pakistan, Nepal, Burma and Ceylon.

In addition 10 Vickers' Viscounts are on order. The delivery of the first Viscount was taken on August 15, 1957 in England. Five more Viscounts were scheduled to be delivered by the end of 1957. The balance of five were to come by May, 1958.

The members of the Indian Airlines Corporation (Thapar House, New Delhi) are:

Shankar Prasada, I.C.S. (Chairman), J. R. D. Tata, M. L. Khaitan, Michael John, Air Marshal S. Mukerji, Commandant General M. J. B. Maneckji, S. Ratnam; B. R. Patel; Air Commodore P. C. Lal.

Secretary: Vacant.

The operations of the Corporation have been divided into three Areas, namely Delhi, Bombay and Calcutta. Each Area is under the charge of an Area Manager who is responsible to the Chairman for the proper administration and co-ordination between different departments in the Area. The Headquarters Office of the Corporation has, besides the Chairman, Departmental Heads.

The total number of staff employed by the Corporation is about 9,000 (out of which 274 are aircraft Captains).

The crew strength of the Indian Airlines Corporation is 221 Commanders and 113 Co-pilots.

The loss incurred by I.A.C. in 1956-57 was Rs. 108·79 lakhs as against Rs. 119·40 lakhs in 1955-56.

Capital: Rs. 9,66,49,671 (from Govt. of India: Rs. 7,03,15,000).

Revenue: Rs. 861·35 lakhs (night air mail service: Rs. 138 lakhs).

The following is the list of officers working at the Headquarters and areas of the Indian Airlines Corporation:—

Headquarters

Chairman, Shankar Prasada, I.C.S.
Financial Comptroller, J. S. Parakh.
Chief Traffic Manager, J. M. Gupta.
Engineering Manager, T. D. Kumar.
Chief Public Relations Officer, Someshwar Dayal.
Controller of Stores, C. L. Kejriwal.

Delhi Area

Area Manager, Jagdish Prasad.
Traffic Manager, H. E. Daruwala.
Chief Engineer, R. S. Bahadur.
Operations Manager, Capt. Huilgol.
Chief Accounts Officer, R. S. Sandill.

Bombay Area

Area Manager, Capt. G. C. Arya.
Traffic Manager, S. C. Mukherji.
Chief Engineer, H. M. Kelawalla.
Operations Manager, D. A. Samant.
Chief Accounts Officer, M. V. Row.

Calcutta Area

Area Manager, J. M. Engineer.
Traffic Manager, V. N. Nayar.
Chief Engineer, Dr. H. M. Wadia.
Operations Manager, R. C. Patwardhan.
Chief Accounts Officer, S. C. Roy.

AIR-INDIA INTERNATIONAL

The members of the Air-India International Corporation (New India Assurance Bldg., Bombay 1) are:

J. R. D. Tata (Chairman), Shankar Prasada, I.C.S., K. C. Mahindra, Michael John, Air Marshal S. Mukerji, B. R. Patel, I.C.S. (Vice-Chairman), S. Ratnam; Commandant-Gen. M. J. B. Maneckji; Air Commodore P. C. Lal.

Principal Executives:

General Manager ..	B. R. Patel, I.C.S.
Technical Director ..	A. C. Gazdar.
Commercial Director ..	S. K. Kooka.
Financial Controller ..	N. J. Pavri.
Controller of Stores & Purchases	A. M. Kelkar.
Chief Administrative Officer	R. Doraiswamy, I.A.S.
Secretary	R. N. Gundil.
Personnel Manager, ..	A. S. Banavalikar.

Personnel: 3,846.

Unduplicated route mileage: 21,252.

Fleet: Three 749 Constellations.*
Two 1049-C Super Constellations.
Three 1049-E Super Constellations.
Three 1049-G Super Constellations.
One DC-3C Freighter.
Three 707 Boeing Aircraft on order.

The three Boeing 707 Inter-Continental Jet Airliners will be delivered early in 1960. The Inter-Continental Jet Airliners will not only reduce the present flying time by half, but will also offer greater seating capacity.

Plans are under way to enlarge and strengthen the run-ways at Palam, Santa Cruz and Dum Dum at a cost of Rs. 14 crores.

The Corporation has steadily stepped up its frequencies on the India/UK, India/Tokyo and India/Nairobi routes. Air-India International now operates a daily service to U.K., twice a week to Tokyo, thrice a week to Nairobi and once a week to Sydney via Madras, Singapore and Darwin.

Traffic Headquarters: 4th Floor, Bank of India Building, Mahatma Gandhi Road, Fort, Bombay-1. Cable: AIRINDIA.

Net profit for the year ending March 31, 1957: Rs. 38·42 lakhs.

Revenue: Rs. 964·88 lakhs.

FACTS AND FIGURES, I.A.C. (1956-57)

Some basic facts about the Indian Airlines Corporation for 1957 are as follows:

Service	Route Miles	Hours Flown	Miles Flown	Passengers Carried	Freight Carried lbs.	Mail Carried lbs.
Scheduled Services (including N.A.S.)	—	113180-35	17,603,346	499,321	89,117,523	11,628,282
Night Airmail Services ..	—	9491-50	1,661,554	44,693	2,674,285	3,861,012
Non-Scheduled Rev. Services	—	10970-55	1,598,557	71,785	23,315,223	68,106

* Now sold (April 1958).

AIRCRAFT

There were 527 aircraft of different types registered in India on 1st Sept. 1957 of which [illegible] held current Certificates of Airworthiness.

As already mentioned, of the 527 aircraft 18 were owned by Air-India International and 88 by Indian Airlines Corporation.

AERODROMES

There were 84 aerodromes maintained and operated by the Civil Aviation Department in Sept. 1957.

The following aerodromes (3) are classed as International Aerodromes:

Bombay Airport (Santa Cruz); Calcutta Airport (Dum Dum); Delhi Airport (Palam).

The following aerodromes (8) are classed as Major Aerodromes*

Agartala (Tripura); Ahmedabad; Begumpet (Hyderabad), Delhi (Safdarjung), Gauhati; Madras (St Thomas Mt); Nagpur; Tiruchirapalli.

The following aerodromes (38) are classed as Intermediate Aerodromes:

Allahabad, Amritsar, Aurangabad (Bombay); Baghdogra (West Bengal); Balurghat (West Bengal), Banaras; Baroda; Belgaum; Bhavnagar; Bhopal; Bhuj (Kutch); Bombay (Juhu)*; Chandigarh, Coimbatore, Cooch-Behar, Cuttack Bhubaneswar)*, Gaya, Gorakhpur (Kusmi)*, Indore, Jaipur, Junagadh (Keshod)*, Kailashahar (Tripura), Kamalpur (Tripura), Khowai Tripura), Kumbhirgram (Assam), Lucknow Amausi)*, Mangalore (Bajpe)*, Mohanbari Assam); North Lakhimpur (Lilabari)*, Pasighat (N E F A), Patna, Porbandar (Bombay), Rajkot; Rupsi (Assam), Tezpur (Assam), Trivandrum, Vijayawada, Vishakapatnam

The following aerodromes (35) are classed as Minor Aerodromes:

Akola; Asansol; Bareilly; Belonia (Assam); Bilaspur; Chakulia (Bihar), Cuddappah Andhra), Donakonda (Andhra), Jhansi, Jharsuguda (Orissa), Jubbulpore, Kanpur Civil) (Uttar Pradesh), Khandwa, Kolhapur, Kotah (Rajasthan), Lalitpur (U P), Madura, Manipur Road (Assam), Muzaffarpur (Rewahat)*, Mysore, Palanpur (Deesa) (Bombay), Panagarh (W Bengal) Panna (M P), Raipur, Rajahmundry, Ramnad, Ranchi, Satna (M P)* Saharanpur (U P.), Shella (Assam), Sholapur, Tanjore, Udaipur, Vellore; Warangal

The new aerodromes at Kandla and Udaipur Dabok) are expected to be ready by the end of 957. The work in connection with the construction of new aerodromes at Raxaul, Jogbani Bihar), Haldwani (U P), Tulihal (Manipur) and Malda (West Bengal), was in various stages of progress in Nov 1957

Eight new aerodromes are to be constructed during the Second Plan; at Calcutta, Hubli, Shillong, Nowgong, Ratnagiri, Bhagalpur, Behala (W Bengal), Kozhikode

AIR TRAINING

There were 12 flying clubs centrally subsidized and two satellite centres at the end of 956—Delhi, Bombay, Madras, Barrackpore, Patna, Bhubaneswar, Nagpur, Juliundur, Jaipur, Lucknow (with satellites at Allahabad and Kanpur), Bangalore, Indore

These flying clubs trained 131 'A' and 16 'B' pilots in 1956. On 31st Dec. 1956 there were 335 trainees for 'A' Licence and 6 for 'B' undergoing training

The number of aircraft on charge on July 1, 1957 was 125, 28 belonged to the Government and 97 to the clubs.

The number of pilots employed was 43, aircraft maintenance engineers 41, mechanics 182.

The aircraft flew 1,744 10 hours in June 1957.

There were three Government Gliding Centres at Poona, Allahabad and Bangalore and one centrally subsidized Gliding Club at Delhi in operation at the close of 1956. These centres and the Club trained 67 Gliding Pilots during the year ending 30th June 1957.

The number of gliders on charge on July 1, 1957 was 28, all of which belonged to the Government of India.

The total subsidy granted to flying and gliding clubs in 1956-57 was Rs. 16,99,230. Under the free flying scholarship scheme 50 scholarships were awarded to trainees at flying clubs during 1956-57. Training was imparted upto 50 hours free of cost to the trainees. Another 50 scholarships were awarded during 1957-58.

The Civil Aviation Training Centre at Allahabad opened in 1948 trains commercial pilots, II class navigators, aircraft maintenance engineers, aerodrome control officers and operators, fire operators, radio operators and technicians

Facilities for training in flying, aircraft engineering, communications and air traffic control available at the Civil Aviation Training Centre, Allahabad comprise the following four wings, *viz* :—

(1) Flying School; (2) Aerodrome Training School; (3) Engineering School; (4) Communications School.

In addition a Repair and Overhaul Organisation is also attached to the Centre for carrying out repairs and overhaul of the Centre's aircraft.

At the end of 1956, 107 trainees were under training at the Centre.

The Centre has acquired the reputation of being the best of its kind in the East.

The Government of India have set up a school of aviation medicine in the premises of the Hindustan Aircraft Ltd, Bangalore

TELECOMMUNICATIONS

The aeronautical telecommunications service of the Civil Aviation Department came into existence in 1946 At the end of 1956 there were 72 stations.

The aeronautical communication stations provide facilities for air/ground communication, radio aid to navigation, point to point communications and Met broadcasts for the benefit of aviators

The facilities include up-to-date radio navigational aids and communication facilities, electronic aids, such as very high frequency automatic visual direction finder, standard instrument landing system, airfield control radar, radar responder equipment of the Eureka Mark VII type, long range high frequency radiotelephone air/ground channels, radio-tele-typewriter fixed telecommunication circuits and multi-channel automatic speech recorders

For purposes of organization, India has been divided into four regions (Bombay, Calcutta, Delhi, Madras), each under the charge of a Controller of Communication, who is responsible for the maintenance and operation of the communication stations in his region.

The communication organization has the following ancillary units:—

The Radio Construction Unit; The Radio Development Unit; The Radio Stores Depot.

Research and development for civil aviation is undertaken by The Research and Development Organization of the Civil Aviation Department.

The work of the R & D Organization is in New Delhi at a research and test laboratory, known as the Technical Centre, opened in 1949. The Centre is being staffed and equipped in gradual stages in order to realize the objectives of the Organization.

The principal objectives of the Research and Development Organization are as follows —

1. Participation in design and development work on gliders, sailplanes and light trainer aircraft.
2. Objectional [illegible] with particular reference to India [illegible] and the development of safety devices.
3. Research on problems of airworthiness and safety in operation; examination of prototype civil aircraft for airworthiness and for their type certification.
4. Structural testing and research relating to major modifications, repair and construction of aircraft.
5. Development of aircraft materials of indigenous origin; preparation of standard specifications for these materials in co-operation with the Indian Standards Institution.
6. Study of current developments in aviation technology with special reference to new types of civil aircraft and engines and new operational techniques.
7. Encouragement and promotion of fundamental research and advanced scientific and engineering training in aeronautics, and advice on advanced education in aeronautical engineering
8. Co-operation with international scientific bodies, in initiating research on various aeronautical subjects

The need for aircraft manufacturing was keenly felt immediately on the outbreak of the war and the Hindustan Aircraft Company was established in the year 1940. Aircraft, aeromaterials, accessories and parts are now being manufactured in the country.

India is a member of the International Civil Aviation Organization and has been elected to its Council.

AIR AGREEMENTS

India has entered into bilateral air agreements with the following 14 countries on the dates shown against each :—

France	16-7-1947
Sweden	21-5-1948
Pakistan	23-6-1948
Ceylon	21-12-1948
Switzerland ..	24-6-1949
Australia .. .	11-7-1949
The Philippines .	20-10-1949
Netherlands	24-5-1951
U K.	1-12-1951
Afghanistan .	26-1-1952
Egypt	14-6-1952
Iraq	27 7-1955
Japan . . .	26-11-1955
U S A.	3-2-1956
Thailand ..	12-6-1956
Lebanon	13 3 1958

The Agreement with Sweden is not operative at present.

Arrangements under temporary authorisations for the operation of scheduled air services exist with Italy, Burma, Norway, Denmark, Iran, Sweden, Nepal, Indonesia and West Germany.

An air agreement with the U S S R was under negotiation in Feb 1958

NATIONALIZATION

Authorized capital of the companies taken over	Rs 21,40,71,429
Paid-up Capital	Rs. 6,97,33,849
Total staff	9,500
Govt. loan to Deccan Airways at 4½ per cent interest ..	Rs. 19·5 lakhs

"The Indian Airlines were nationalised on 1st Aug 1953 Two Corporations *viz* Indian Airlines Corporation and Air-India-International Corporation were formed—one for operating the internal services and services to the neighbouring countries, and the other for operating long-range international services.

The compensation payable to the Air Companies taken over by the two Corporations was of the order of Rs 616 lakhs. Part of the compensation was paid to the companies in cash and the balance in the form of bonds redeemable at the end of five years.

Fares at present obtaining in India, even for day services, are among the lowest in the world.

* Name of aerodrome or location.

JANUARY TO JUNE 1957—A REVIEW

The Air-India International and the Indian Airlines Corporation between them carried 309,048 passengers and flew 11,587,929 miles during the half year ending on June 30, 1957.

Air-India International alone flew on its scheduled services 8,021,556 miles carrying 41,582 passengers, 1,773,024 lbs. of cargo and 732,836 lbs. of mail during the first half of 1957, as against 2,933,400 miles flown, 39,074 passengers and 1,593,575 lbs. of cargo and 672,110 lbs. of mail carried during the preceding six months.

During the period under review, Indian Airlines Corporation flew 8,506,373 miles, carrying 267,466 passengers, 46,612,080 lbs. of cargo and 5,748,104 lbs. of mail. The respective figures for the preceding six months were 8,929,211 miles, 242,802 passengers, 47,077,105 lbs of cargo and 5,921,985 lbs. of mail.

During this period, the Night Airmail Services carried 31,967 passengers, 1,406,529 lbs. of cargo and 2,113,967 lbs. of mail.

On non-scheduled services operated by Indian air-carriers, 3,146,580 miles were flown and 74 728 passengers and 56,826,083 lbs of cargo were carried during the half year ending June 30, 1957

The number of aircraft holding current Certificates of Registration at the end of June 1957, was 538, of which 199 held current Certificates of Airworthiness.

The number of persons holding current Pilot's 'A' licences increased from 528 at the end of December, 1956, to 715 at the end of June, 1957. There was, however, no change in the number of 'B' pilots holding current licences which stood at 586.

The number of Aircraft Maintenance Engineers holding Indian licences increased from 870 in December, 1956, to 903 in June 1957.

During the period under review, the number of Aeronautical Tele-Communication stations, communication facilities and Radio Navigational Aids increased from 72, 403 and 134 to 73, 482, and 137, respectively.

There were sixteen major accidents to Indian registered aircraft during the period under review In addition, three Gliders were also involved in accidents

None of the accidents related to aircraft engaged in scheduled operations.

Four of the accidents proved fatal and resulted in the loss of eight lives (five crew and three others). There was no fatal accident involving a glider Eleven of the aircraft involved in major accidents were engaged on instructional flights, two in non-scheduled freighter service, one in non-scheduled passenger flight and the remaining two on private flights.

At the Civil Aviation Training Centre, Allahabad, 21 trainees completed the Dakota Conversion Course, two All-through Flying Course, eight Second Class Navigator's Course, ten Aerodrome Officers' Refresher Course, 46 Aerodrome Operators' Course, 35 Crash Fire Rescue Course, 20 Radio Technicians Advanced Refresher Course, 18 Specialist Course and 17 Radio Operators long-range course. Three Nepalese nationals were provided training at the Centre under the Colombo Plan. At the end of June, 1957, there were 182 trainees undergoing training in the various courses at the Centre.

One hundred and forty-one trainees obtained Pilots 'A' licences and 28 pilots 'B' licences through the twelve Flying Clubs in the country during the period under review. The clubs logged a total of 12,809 hours of flying.

In addition, the three departmentally run Gliding Centres at Poona, Allahabad and Bangalore and the Delhi Gliding Club trained 31 Glider pilots and logged 719 hours of flying.

In order to promote air-mindedness among the youth of the country, it was decided to award 50 Free Flying Training Scholarships during the first half of 1957.

PORTS

ALLOTMENT under First Five-Year Plan . . . major ports: Rs. 43·35 crores; minor: Rs. 2·41 crores.

Allotment under the Second Plan: major ports: Rs. 43·5 crores; minor ports: Rs. 5·36 crores.

There are six major ports in India.

For the rest, the ports declared open under the Ports Act are as follows. The figures in brackets give the number of working ports.

Andhra 13 (6); Orissa 9 (3); Madras 20 (14); Kerala 23 (11); Mysore 23 (10); Bombay 138 (approx. 111); Total 226 (approx. 150).

The following are classed as major ports: Bombay, Calcutta, Cochin, Madras, Kandla, Vishakapatnam and Karwar. They are directly under the Central Government. The rest are classed as Minor Ports and are under the administrative control of State Governments.

Technically a Major Port (as defined by the Ports Technical Committee) is one which is capable of taking in ocean-going steamers with a registered tonnage of 4,000 or more and berth them along wharves.

Mr. S Nanjundiah, officer in charge of Vishakapatnam Port, who made a special survey of minor ports for the Government of India suggested the following further classification of Minor Ports: Intermediate Ports, Minor Ports and Sub-Ports. Ports which have handled one lakh tons or more of cargo should be Intermediate Ports; ports which have handled cargo of less than one lakh but more than 1,500 tons should be Minor Ports; the remaining ports should be Sub-Ports or Petty Ports.

INTERMEDIATE AND MINOR PORTS

According to this classification of Mr. Nanjundiah the Intermediate Ports will be as follows:

In Andhra: Kakinada, Masulipatnam.

In Madras: Cuddalore, Nagapattinam, Tuticorin.

In Kerala: Kozhikode, Alleppey.

In Bombay: Okha, Broach, Ratnagiri, Bhavnagar, Verawal, Porbunder, Bedi, Navalakhi, Mandvi.

In Mysore: Karwar.

The Minor Ports will be as follows:—

In Orissa: Chandbali, Puri, Gopalpur.

In Andhra: Bhimlipatam.

In Madras: Calingapatam, Porto Novo, Pamban, Dhanushkodi.

In Kerala: Quilon, Cannanore, Tellicherry, Badagara, Ponnani, Kasargod.

In Mysore: Malpe, Hungarkatta, Coondapur, Tadri, Ankola, Honavar, Bhatkal, Kumta, Belikeri.

In Bombay: Gogha, Dholera, Kavi, Surat, Bulsar, Billimora, Navsari, Dahanu, Umbergaon, Rajpuri, Vassawa, Revadanda, Bankot, Dhabhol, Devghad, Jaighad, Mora, Achra, Vengurla, Vijaydurg, Jaitapur, Malvan, Dwarka, Kodinar, Cambay, Nangaon, Rajpuri, Harnai, Dehej, Kalyan, Panvel, Karanja, Murud, Sadashivghad, Mahuwa, Talaja, Victor, Jaffarabad, Sika, Salaya, Jodiya, Nawabundar, Mangrol, Mundra.

With a view to advising the Govt. on matters of general policy relating to port management and development including their effects on industry, commerce, shipping, railways, etc. so as to ensure integrated consideration of all port matters, in August, 1960, the Govt. of India constituted the National Harbour Board under chairmanship of the Minister of Transport. The Board is represented by the Central Ministries concerned, the maritime State Govts., Major Port Authorities and a representative each of the following non-official bodies:—Trade & Industry, Sailing Vessels industry, Shipping and Labour.

As most of the minor ports were in a deteriorating condition during the British regime, the Board at its very first meeting in 1960, recommended the appointment of an officer to carry out a survey of the minor ports and to recommend measures to improve them. In pursuance thereof the Govt. appointed Mr. S. Nanjundiah, Port Administrative Officer, Visagapatam Port, as Officer on Special Duty, who after an on the spot study of the various minor ports, recommended certain essential improvements costing in all about Rs. 2·5 crores.

The maritime State Govts. accepted the necessity for effecting improvements on the lines recommended by Mr. Nanjundiah and included development schemes relating to minor ports in their respective jurisdictions in the First Five-Year Plan. As the State Govts. did not find it possible to finance all the works from their Port Funds, and as the Govt. of India was interested in ensuring the co-ordinated development of these ports, it was decided to give central assistance to the State Govts. in the form of loans on concessional terms to the extent of Rs. 1 crore for this purpose. As some of the works were not completed during the First Plan period, the actual amount of loan utilised was only Rs. 67·24 lakhs.

A more careful study was undertaken of the requirements of minor ports in the Second Plan period and a provision of Rs. 5·36 crores has been made in the Plan for this purpose. The Central assistance started in the First Plan period is also being continued under the Second Plan. Okha, Bhavnagar, Navlakhi, Mangalore, Nagapattinam, Cuddalore, Kakinada, Masulipatnam, Quilon, Badagara and Paradip are some of the more important ports covered by the programme of development. The construction of a new pier at Pondicherry estimated to cost Rs. 36·75 lakhs has also been undertaken by the Central Government.

PORT DEVELOPMENT

Among the recommendations of the Nanjudiah report (May 1951), are the following: 1. The existing Minor Ports should be classified into Intermediate, Minor and Sub-Ports. 2. An early decision should be taken about the construction and use of small size steam ships for the coastal trade. 3. Country craft industry must be fostered. Ports should provide facilities for their laying up, repairs, etc. 4. A certain measure of uniformity in Port dues may be brought about.

Among the recommendations of the West Coast Major Port Development Committee (April 1948) are the following: 1. There is an immediate need for a major port in the area covered by Kathiawad and Kutch. 2. This major port should be at Kandla. 3. The existing ports in Kathiawad should be placed under one Port Commission.*

Among the recommendations of the same Committee (July 1949) about a major port between Marmugao and Cochin are the following: 1. A deep-sea port for ships of large size and tonnage at all seasons of the year is necessary. 2. The port should be at Malpe. 3. A rail link should be provided from Malpe to the industrialized region centred on Bhadravati in Mysore. 4. The broad-gauge railway linking Madras and Mangalore should be extended to Malpe.

The Kandla port was expected to be completed by the beginning of 1957.†

FIVE-YEAR PLANS

Major Ports, First Plan: The Development programme in the First Plan, besides the various works designed to replace obsolete equipment, improve worn-out facilities, housing etc. included the following additions:—

Calcutta: Remodelling of 4 berths in the King George's Docks (2 for general cargo, one for black oil and one mechanical ore berth); A heavy lift yard with a 200 ton crane; River training works designed to improve navigation depths, purchase of tugs, launches, dredgers and other harbour craft; A new suction dredger with dredging capacity of 5,000 tons per hour.

Bombay: Reconstruction of 12 transit sheds destroyed in the 1944 explosions; New Marine Oil Terminal with 3 berths; 34 electric wharf cranes in Alexandra Docks.

Madras: 8 additional berths (1 for coal, 1 for ores and 1 passenger-cum-general cargo).

Visakhapatnam: A new oil terminal with 2 berths and widening and deepening of the entrance channel.

Cochin: 4 new berths;

Kandla: A new major port to be developed.

The abovementioned works could not be completed during the First Plan period with the result that there was a carry over of Rs. 37 crores to the Second Plan.

Second Plan: Besides the completion of the above projects, the Second Plan comprises, among others, the following works:—

Calcutta: A new general cargo berth at King George's Docks; A new tea warehouse; A new bucket dredger, 100 ton floating crane, salvage tug and despatch vessel and other floating craft totalling Rs. 4·8 crores; Remodelling of the Port Commissioners' Railway.

Bombay: Provision of 54 more electric cranes in Alexandra Dock; A new grab dredger; Dredging of the main harbour channel; A new 125 ton floating crane.

Madras: A new wet dock for 6 berths; A new dredger; Mechanical handling of coal and ore.

Visakhapatnam: 2 new berths (later revised to 5)—3 for general cargo and 2 for ores.

Kandla: 2 additional berths for ore traffic.

Cochin: 1 floating crane; 1 dredger.

The total estimated cost of the development works in the Second Plan was Rs. 79·9 crores, of which central assistance will be restricted to Rs. 43·5 crores. Rising costs and certain alterations and additions which have been found necessary will increase the total cost of the schemes to Rs. 95 crores.

The more important schemes already completed or nearing completion are the construction of four berths and allied works at Kandla, the Marine Oil Terminals at Bombay and Visakhapatnam, reconstruction of 12 transit sheds in Bombay, installation of 34 electric wharf cranes in Alexandra Docks, Bombay, an oil tanker berth with pipeline connections in Cochin and the erection of a coal loading plant and construction of a heavy lift yard with a 200 ton crane in Calcutta.

The actual traffic handled by the Major Ports during 1956-57 was 27·6 million tons.

LIGHTHOUSES

Lighthouses are divided into general and local according to the utility of a particular lighthouse to navigation. The superintendence and management of general lighthouses is vested in the Union Government while the local lighthouses are managed by local lighthouse authorities such as State Governments, Port Trusts, etc.

A statutory body—the Central Advisory Committee for Lighthouses has been appointed under the Indian Lighthouses Act, which advises the Union Government on matters connected with the erection, additions, alterations, improvements etc. of lighthouses. The Chairman of the Committee is the Secretary to the Government of India, Ministry of Transport or the officer deputed by him to act as Chairman on his behalf. The members are: The Director-General of Shipping, Bombay (*ex-officio*); Nautical Adviser to the Government of India (*ex-officio*); A representative of the Ministry of Finance, Government of India; A Deputy Secretary to the Government of India, Ministry of Transport (*ex-officio*); G. T. Kamdar, representative of the Federation of Indian Chambers

* Both the recommendations have now been put through.

† Now almost completed.

of Commerce and Industry; J. R. Galloway, representative of Associated Chambers of Commerce; T. M. Goculdas, nominated by Government to represent Indian Shipping Interests; B. P. Singh Roy, representative of Indian National Steam-ship Owners' Association; Jaldu Manikyala Rao, Government nominee representing Indian Sailing Vessels' interest; Director-General of Lighthouses and Lightships, New Delhi (*ex-officio*), *Member Secretary*.

There are 183 lighthouses, 9 lightvessels, 101 lightbuoys, 282 unlighted buoys, 190 beacons, 299 land marks and 713 other marks, making a total of 1,777 aids to navigation strewn over the coastline of approximated 4,340 miles including Andaman Island. 35 lighthouses were erected/improved during the First Five-Year plan period. The Second Five-Year Plan envisages the improvement of aids to navigation at an estimated cost of Rs. 400 lakhs. A summary of the programme under the Second Five-Year Plan is given below:—Construction of lighthouses, towers, buildings and jetties, 100 nos.; Purchase and installation of optical equipment apparatus and machinery, 100 nos.; Establishment of M.F. and V.H.F. Radio Station, 15 nos.; Establishment of Decca Navigator Stations, 8 nos.; Purchase and installation of harbour and ship borne Radars, 15 nos.; Installation of sound signals, 50 nos.; Purchase and installation of electric power generator equipment and machinery, 75 nos.; Purchase and establishment of lightships, 10 nos.; Purchase of ships, tenders, lifeboats, motor launches, etc., 35 nos.; Purchase and establishment of buoys and other floating aids, 150 nos.

During the year 1956-57, 11 new lighthouses and 21 lightbuoys have been established and improvements were effected to 9 lighthouses. Of these, the new lighthouse at Dolphin's Nose (Andhra State) with a beam intensity of over 5,000,000 candles and range of 35 miles, started functioning with effect from the 15th June 1957. This is one of the most powerful lighthouses in the world. Electric power to this lighthouse is being supplied by five generators installed at the station. The new lighthouse at Pentakotta (Andhra State), with a range of 10 miles started functioning with effect from 1st June 1957. The lighthouses at Bhatkal (Mysore State) and Puri (Orissa State) have been improved. A new lighthouse with a beam intensity of 2,17,000 candles and a range of 20 miles, installed on a new lighthouse tower, started functioning at Bhatkal with effect from 11th June 1956. A new lighthouse with electric source and having a range of 14 miles, was put into service at Puri with effect from 1st December 1956.

Some of the new and important lighthouses, the construction of which is now in progress are those at Uttan, Deograh, Tolkeshwar, Rajapur, Tarapore, Gogha, Tapti, Mandvi, Diu Head and Jaffarabad in Bombay State, Vakalapudi in Andhra State, Alleppey and Koilthottam in Kerala State and False Point in Orissa State.

The Department of Lighthouses & Lightships is maintained on a self-supporting basis and its revenue is derived from the light dues levied on ships visiting Indian ports. The entire revenue is utilised for the maintenance and development of lighthouses and any balance left is accumulated in a reserve fund known as the General Reserve Fund for financing the projects in future. The balance in the General Reserve Fund stood at Rs. 94 lakhs on 1st April 1957. The present rate of lightdues is four annas per ton on steamships and one anna per ton on sailing ships.

This Department is also responsible for the administration of the Fairways Act.

The Quilon lighthouse, has a beam intensity of 1,000,000 candles and a range of 15 to 20 miles. The 200,000 candle earlier nineteenth century lighthouse at Quilon has been stepped up to 1,000,000 candles by making use of a new electricity process evolved by the Union Lighthouse Department. By utilising the process, a saving of about Rs. 3 lakhs is expected to be effected.

BOMBAY

The Port of Bombay is over 25 square miles in extent.

The Bombay Port Trust, which was constituted by Government in 1873, is administered by a Chairman appointed by Government and a Board of 24 Trustees, 10 of whom are nominated by Government, 2 elected by the Bombay Chamber of Commerce, 6 by the Indian Merchants' Chamber, 1 by the Maharashtra Chamber of Commerce, 2 by the Municipal Corporation, 1 by the Millowners' Association, 1 by the Indian National Steamship Owners' Association, Bombay, and 1 by the East India Cotton Association Limited, Bombay.

The entire administration is subject to the provisions of the Bombay Port Trust Act, 1879.

The main channel, which is approximately 1½ miles in width, has silted recently and the controlling depth is now 28 feet.

Anchorages in the harbour with a depth of upto 34 feet below chart datum can be obtained.

Mean range at springs is 12 feet.

Passenger Facilities.—Trans-oceanic passenger traffic is mostly dealt with at the Ballard Pier Station. Coastal and Harbour Passenger traffic is dealt with at the New Ferry Wharf.

The total number of overseas passengers embarking and disembarking at Bombay in 1956-57 was 146,546 while the number of passengers carried by the coastal services was 767,903.

Wet Docks.—There are three wet docks, the main features of which are as follows:—

Number of Berths (excluding Harbour Walls).

Prince's Dock	..	12
Victoria Dock	..	13
Alexandra Dock	..	17

The three Docks together have a water area of 104½ acres and about 4½ lineal miles of quayage; extensive open storage and shed and warehouse accommodation for the reception and storage of goods, exists.

Dry Docks.—The dimensions of the two Dry Docks are as follows:—

Dry Docks	Length—(1) Caisson in Inner Groove, (2) Caisson in Outer Groove.	Width at entrance.	Normal minimum depth of water over silt.
Merewether Dock.	(1) 500'-0" (2) 525'-0"	65'-6" ..	22'-0" ..
Hughes Dock.	1000'-0" (divisible into two compartments of varying lengths)	100'-0"	33'-0"

The Bunders.—Besides the wet docks described above, there are along the harbour front a number of 'bunders' or open wharves and basins where the traffic carried by sailing vessels is handled. These bunders, which provide an aggregate quayage of 41,000 lineal feet, are equipped with cranes and other facilities for loading, unloading and storing cargo. The extensive TIMBER PONDS at Sewri, covering an area of over 60 acres, form an important feature of the bunders. The total cargo handled at the bunders amounted to about 6·58 million tons during 1956-57.

Ballard Pier.—Is a 1,500 ft. extension of the harbour wall on the west side of the Alexandra Dock entrance lock and is the arrival and departure berth for the foreign mail steamers and other large passenger liners. The station building comprises three platforms for tourist and other trains, a handsome concourse with waiting and refreshment rooms and a spacious baggage and customs hall.

Bulk Oil Facilities.—Till recently the dangerous petroleum imported at Bombay was all handled at the Pir Pau Oil Berth. Non-dangerous petroleum was also handled at the Alexandra Dock Harbour Wall Berths. With the installation of two Oil refineries at Bombay, these facilities became inadequate and a New Marine Oil Terminal equipped with all modern facilities for the speedy discharge and loading of oil is under construction within the Bombay Harbour. The new terminal is expected to meet the requirements of the bulk oil trade at this port for many years to come.

The Depots.—The more important depots are:

Grain Depot, containing over a million square feet of shed accommodation and about 90,000 square feet of plinth area, is designed primarily for the storage of grain and seeds in bags.

Cotton Depot, is one of the largest and most up-to-date Depots of its kind in existence, and covers an area of 432,500 square yards of reclaimed land on which the Port Trust has erected 178 fireproof ferro-concrete godowns equipped with sprinkler protection, 16 open sheds on plinths and 225 open plinths.

It has 16 covered platforms and 4 open plinths for Railway reception and despatch, and a Railway Yard with 8 miles of track. There are within the Depot a Fire Brigade Salvage Corps Station, Dispensary, Canteen, Grain Shop and other facilities for the Trade.

Manganese Ore Depot, provides open storage accommodation of about 70,000 sq. yds. in 32 plots each fully equipped with Railway Sidings. The Depot has a weighbridge.

There are also special depots for coal, charcoal, iron, timber and other building materials, *etc.* several of which not only have railway facilities but also wharf fronts.

In addition, there are several large warehouses and godowns in the vicinity of the docks available for renting out for storage of grain, tobacco and other trade purposes, the largest of these godowns is the RYAN GRAIN MARKET providing storage accommodation of 225,000 sq. feet.

Port Trust Railway

The Port maintains its own railway system which handles more than 59 per cent of the railborne goods traffic of Bombay. The traffic to and from the trunk railways during the year 1956-57 amounted to 3,474,000 tons, and its local station-to-station traffic is about 3,47,900 tons. The principal commodities carried are cotton, grain and seeds, oil-cake, manganese ore, sugar, kerosene and other bulk oils, coal, charcoal and china clay.

Though only 7·755 miles in actual length, it comprises over 134 miles of main lines and sidings all directly linked with the inter-railway exchange yard at Wadala, the various storage depots and the docks and wharves.

REVENUE AND EXPENDITURE FOR THE YEAR 1956-57

Revenue	.. Rs. 11,27,20,998	Total of general and pilotage accounts only.
Expenditure	.. ,, 8,87,32,636	

Statistics showing the number of vessels (exclusive of ferry steamers) which entered the docks and went alongside Harbour Walls or Pir Pau Oil Pier during the period 1952-53 to 1956-57 are given in the table below:

Year	Number	Net registered Tonnage
1952-53 ..	2,561	8,446,538
1953-54 ..	2,663	8,720,375
1954-55 ..	2,534	8,375,811
1955-56 ..	2,528	9,342,179
1956-57 ..	2,667	9,556,633

The number of passengers excluding those handled by country craft and harbour ferries was 914,449.

Board of Trustees (1957-58)

Nominated by Government: *Chairman*, L. T. Gholap, I.C.S., K. D. Billimoria, I.F., A. V. Venkateswaran, M. N. Chakravarti, M. Ganapati,

V. L. Gidwani, I.C.S., Brig. M. M. Badshah, Commodore B. S. Soman, I.N., S. V. Kailasapathy, H. N. Trivedi, G. H. Kale.

Elected by the Bombay Chamber of Commerce: S. M. Scott; E. A. Jenkins.

Elected by the Indian Merchants' Chamber, Bombay: B. D. Somani, Devji Rattansey, Ambalal Kilachand, Gordhandas Jadavji, Mathradas Haridas, C. H. Bhabha.

Elected by the East India Cotton Association Ltd., Bombay: Madanmohan R. Ruia.

Elected by the Indian National Steamship Owners' Association, Bombay: H. M. Desai.

Elected by the Maharashtra Chamber of Commerce, Bombay: K. V. Apte.

Elected by the Municipal Corporation of Greater Bombay: Dr. S. G. Patel, R. S. Pandey.

Elected by the Millowners' Association, Bombay: Sir Vithal Chandavarkar, Kt.

PRINCIPAL OFFICERS

Secretary, E. H. Simoes.
Chief Accountant, I. B. Das Gupta.
Chief Engineer, S. B. Dalal.
Deputy Chief Engineer, K. G. Sarma.
Docks Manager, V. Vas.
Addl. Docks Manager, A. M. Shaikh.
Railway Manager, J. N. Adaggra.
Deputy Conservator, W. E. Brown.
Harbour Master, H. Lloyd Jones.
Estate Manager, N. D. Baria.
Controller of Stores, P. V. Thadani.
Chief Medical Officer, Dr. N. V. Nene.
Chief Labour Officer, Batuk H. Mehta.
Legal Adviser, S. D. Nariman.

STATISTICS SHOWING CARGO HANDLED AT THE DOCKS AND BUNDERS DURING THE PERIOD 1952-53 to 1956-57

Year	Imports	Exports	Total
	Tons	Tons	Tons
1952-53	4,965,000	1,943,000	6,638,000
1953-54	4,775,000	1,951,000	6,727,000
1954-55	5,630,000	1,954,000	7,584,000
1955-56	6,707,000	3,599,000	10,306,000
1956-57	8,239,000	3,740,000	11,979,000

CALCUTTA

The Port of Calcutta is situated on the left bank of the River Hooghly which is formed by the uniting of the three offtakes from the parent river Ganges. The port is about 80 miles from the mouth of the river and 126 miles from the Western Channel Light Vessel at Sandheads. The Port is administered by a Port Commission with jurisdiction under the Calcutta Port Act from Budge Budge to Konnagar.

The chief exports from Calcutta are coal, tea, jute, gunnies, bone and bone-meal, skins, hemp, iron and steel manufactures, lac oil other than petroleum, scrap, ores, pig iron, hides and mica. The principal imports are salt, foodgrains and flour, machinery, petroleum, iron and steel, metals other than iron and steel, lubricating oil, cement, rubber, chemical products, soda, sugar, timber, tobacco, paint, varnish, etc.

STATISTICS SHOWING CARGO HANDLED BY CALCUTTA, THE NUMBER OF PASSENGERS EMBARKED AND DISEMBARKED AND THE RECEIPTS AND EXPENDITURE, DURING THE PERIOD 1953-54 to 1956-57:

Year	Imports Tonnage	Exports Tonnage	Total Tonnage	Passengers Embarked	Passengers Disembarked	Revenue Income Rs. in lakhs	Expenditure Rs. in lakhs
1953-54	2,723,062	5,336,037	8,059,099	15,710	16,299	818	900
1954-55	3,240,436	4,573,377	7,813,813	11,854	11,673	883	921
1955-56	3,409,062	4,621,673	8,030,735	18,523	18,638	997	934
1956-57	4,352,958	4,516,252	8,869,210	17,554	15,437	1,087	960

The number of vessels that entered the port during the year was 1,383 (1956-57).

The largest vessel to enter the Port was 16,736 tons gross tonnage but speaking generally the ideal ship for the Port is a ship of under 550 feet in length, broad in beam and loading to a maximum of about 26 feet.

Berths and Anchorages.—Anchorages are available at Saugor Roads, Haldia, Kalpi Diamond Harbour, Royapur, Ulubaria, Buj Buj and Garden Reach of which Royapur, Ulubaria, Buj Buj and Garden Reach are available only for deep laden vessels outward bound or in emergency. The other anchorages are used by ships on passage to and from the Port.

In the port ships lie to moorings when in the stream or alongside jetties with cables forward and aft. The largest man-of-war so far accepted in the Port has been 10,000 tons cruiser class and one berth is available for this class of ship.

Accommodation (Kidderpore Docks).—These consist of Nos. 1 and 2 Docks and Turning Basin. Dock No. 1 is 2,700 feet in length by 600 feet wide, with a depth of 30 feet of water and has twelve berths serving single-storey cargo sheds. Dock No. 2 has a length of 4,500 feet by 400 feet and also provides a depth of 30 feet of water. It has eight general berths serving single and double storeyed sheds and six coal berths including three mechanical loading berths.

King George's Dock.—This Dock comprises a lock entrance 700 feet long by 90 feet wide, four general cargo berths, a heavy-lift yard berth with one 200 ton crane, and a semi-mechanical ore berth. Provision has been made in the Five Year plans for the construction of three additional general cargo berths, one by converting the existing oil berth at 'B' berth and two more at 'D' and 'H' berths and also for the conversion of existing 'C' berth into an oil-cum-laying up berth and for the conversion of 'E' berth as a laying up berth.

Dry Docks.—Five dry docks, owned by the Port Commissioners, are available for the use of shipping, three in Kidderpore Docks and two in King George's Dock.

Jetties.—The Garden Reach Jetties consist of a coaling jetty for ships up to 460 feet in length and three jetties for ships up to 600 feet. One jetty which was burnt down by fire in 1951 is being restored with the provision of a single storied shed. The transit sheds are double storeyed. Calcutta jetties are situated on the riverside below Howrah Bridge. There are nine jetties with a total length of 4,735 feet, but only five of them *viz.* Nos. 2, 3, 7, 8 and 9 are available for ocean-going steamers.

Wharves.—Petroleum Wharves at Budge Budge are situated some 14 miles below the entrances to the docks.

Warehouses.—The Commissioners provide extensive warehouse accommodation consisting of two Tea Warehouses with extension having a storage area of 416,000 sq. ft., a grain and seeds depot at Kantapukar comprising 37 sheds with a storage area of about 1,053,168 sq. ft., two sheds at Jhinjerapul with a storage area of 70,200 sq. ft., A and B Sheds at Kidderpore, and the Fairlie, Clive, Canning and Strand Warehouses situated close to the Calcutta Jetties with a total floor area of about 292,200 sq. ft. Provision has been made for the construction of another six-storied warehouse for tea at Lybian Depot with 600,000 sq. ft. of covered accommodation.

Coal.—There are at present six coaling berths at Kidderpore Dock No. 2 and one at Garden Reach Jetty.

Overall Capacity of Port.—Calcutta with the existing facilities has handled a sea-borne traffic of nearly 11 million tons a year without congestion or delay.

The total number of cargo boats licensed in the Port is 6,966, of which about 2,106 are steel lighters with a carrying capacity of about 130,825 tons.

The Port Trust Railway.—Communication between the various points in the Docks and Jetties including all the Commissioners' warehouses is maintained by the Commissioners' Railway which has 206 miles of permanent way and connects with the two main railway systems serving Calcutta. Goods can therefore be railed from any point on the Commissioners' premises to any part of India.

Commissioners

R. K. Mitra, I.C.S., *Chairman*; D. P. Anand; Comdr. B. K. Gupta; A. Mitra, I.C.S.; B. C. Mallik; S. Sarangapany; B. K. Sen; Brig. M. C. Mehta; Dr. S. B. Dutt; J. N. Mookherjee; S. C. Gupta; A. N. Laha; M. L. Shah; Lal Chand Kanoi; Matadin Khaitan; W. R. B. Sample; N. Stenhouse; P. L. Saraogi; Biswanath Mukherjee; Jitendriya Bonnerjee; I. N. Wankawala; Kali Mukherjee; A. C. Banerjee.

ADMINISTRATIVE STAFF

Secretary.—P. C. Mitter; *Traffic Manager.*—L. M. Hogan; *Chief Accountant.*—T. Eastment; *Chief Engineer.*—T. M. Malkani, B.Sc. (Hons.) (Lond.), M.Inst.C.E., M.I.E. (Ind.), A.C.G.I., D.I.C.; *Controller of Stores.*—S. C. Das; *Chief Mechanical Engineer.*—S. K. Mitra; *Deputy Conservator.*—Comdr. C. J. Mohan, I.N. (Retd.); *Harbour Master.*—H. B. Kelly; *Port Pilotage Officer.*—P. G. Mcfarlane; (*Offg.*) *River Surveyor.*—T. M. Ashton; *Medical Officer.*—Dr. K. Nundy, M.B.; *River Consulting Engineers and London Agents.*—Messrs. Rendel Palmer & Tritton. *Docks Manager*, A. P. McMahon.

COCHIN

The Port of Cochin, one of the six major ports of India is a natural harbour lying on the direct route to Australia and the Far East from Europe. It is open for deep-water traffic in the worst monsoons and provides a splendid anchorage at all times of the year. Any ship passing through the Suez Canal can enter the port even in the roughest weather.

The Port consists of an extensive area of 120 sq. miles of sheltered navigable backwaters behind an opening, 440 yards wide.

The Cochin Harbour Railway is connected with the Broad Gauge System of the Southern Railway. The construction of a metre gauge railway connecting Cochin with Quilon in the south is nearing completion.

The part of the railway line connecting Cochin and Kottayam is now open to traffic. The work in connection with the extension of the metre gauge system to the Cochin Harbour Terminus will be taken up shortly.

The entrance channel of the harbour is 450 ft. wide and about 4 miles long, buoyed on both sides according to regulations. The activities of the port are mainly centred in Willingdon Island which has been reclaimed from the backwaters by dredged soil from the inner channels.

Inside the harbour there are thirteen stream berths, one coal berth, four wharf berths and two tanker berths. Of the thirteen stream berths, one is a swinging berth capable of accommodating vessels upto 650 ft. overall in length and 28 ft. draft. Twelve are fore and aft berths in the Mattancherry channel. The tanker berths are in the Ernakulam channel which are provided with dolphins and connecting jetty and pipe line to the Ernakulam shore to facilitate the pumping of oils direct from vessels to the oil installations at Ernakulam.

The Boat Train Pier Jetty at the north end of Willingdon Island has now been converted into an oil berth with additional dolphins and a jetty for carrying the pipelines, and pumping oils from and to the oil installations on shore. Facilities have also been provided to supply bunkers from the shore installations direct to vessels working at the Deep Water Warf.

The deep water wharf which is 2,200 ft. long with a reinforced concrete frontage can accommodate at a time 4 vessels of 450 ft. in length.

A new deep water wharf on the eastern side of Willingdon Island, facing the Ernakulam Channel, to accommodate 4 vessels at a time with transit sheds, warehouses, broad and metre gauge railway sidings, cranes, offices, etc. is under construction. The work on the construction of a second coal berth on the western side of Willingdon Island facing the Mattancherry channel has been started.

The principal imports are food grains, mineral oils, coal, cashewnuts, hardware and chemicals.

The principal exports are coir and coir products, tea, rubber, cashew kernels, coconuts and spices.

Statistics showing the growth of the Port from 1952-53 to 1956-57.

Year	Imports	Exports	Total
	Tons	Tons	Tons
1952-53 ..	1,224,851	326,443	1,551,294
1953-54 ..	1,233,501	323,681	1,557,182
1954-55 ..	1,197,956	353,663	1,551,619
1955-56 ..	1,220,836	387,851	1,608,687
1956-57 ..	1,308,014	418,991	1,727,005

The total number of passengers embarked and disembarked in 1956-57 was 1,409. Receipts and Expenditure in the same period were Rs. 98·51 lakhs and Rs. 88·00 lakhs respectively.

The administration of the Port is in the hands of an Administrative officer working directly under the Ministry of Transport of the Government of India. He is assisted by an Advisory Committee consisting of the representatives of the Government of India, the Government of the State of Kerala, and the local Chambers of Commerce and Municipalities.

Administrative Officer.—M. S. Venkataraman, B.A.; *Chief Engineer.*—C. V. Venkateswaran, B.E.; *Deputy Conservator.*—B. M. Cholkar; *Traffic Manager.*—Topen Bhose, B.A.; *Chief Accountant.*—A. N. Aiyaswami, M.A.; *Secretary & Statistical Officer.*—J. Cyril Raj, M.A.; *Senior Medical Officer.*—Dr. V. K. Menon, M.B.B.S.; *Port Health Officer.*—Dr. K. Bhaskaran, M.B.B.S., D.P.H.

KANDLA

The major port of Kandla which is nearing completion consists of the following important units :—

An Oil Berth capable of taking Oil Tankers of about 16,000 tons deadweight capacity alongside it with two pipe lines 16" × 12" laid from the Oil Berth to the Oil Installations over a distance of 6 miles, for carrying black and white oils respectively.

A tidal basin 500' × 300' for lighters and sailing vessels with a provision of heavy lift gantry crane capable of lifting 60 ton lifts with two mooring berths opposite to it. The lighter wharf has alongside it 7 electric level luffing cranes of 3 tons, 6 tons and 10 tons capacity. There are spacious transit sheds and open stacking areas, on both the lighter and sailing vessel wharves.

A Floating Dock Berth with provision for mooring alongside it an R.C.C. Floating Dry Dock, with the necessary workshop facilities for repairing small crafts like tugs, dredgers, lighters etc.

Two passenger Landing Stages for passenger ferries with necessary facilities for passengers to move by railway trains from a railway station near the landing stages.

A Cargo Jetty 2,700' long with a provision for four 600' long deep water steamers with electric level luffing cranes, on the quay, of 3 tons, 6 tons and 10 tons capacity.

Three large transit sheds each 450' × 140' with large open stacking areas around them and electrical lifts, chutes and other mobile mechanical handling equipment. Transit sheds are both road and railway served.

Four double storied warehouses each 500' × 120' with electrical lifts, chutes and other mobile mechanical handling equipment inside. Warehouses are connected to the transit sheds by wide bridges to enable the cargo to be removed in trolleys from the transit sheds to warehouses and *vice versa* with convenience. Warehouses are also both road and railway served.

All structures mentioned above except the installation of quay cranes and some finishing items, have been completed and are under operation..

All the items of harbour works at Kandla have already been pressed into service. The oil jetty was completed in November 1955; the bunder (lighter basin) was opened for traffic on June 29, 1955, the passenger berth catering for the launch traffic between Naviakhi and Kandla was declared open on October 1, 1956 and the floating dock berth completed in December 1956.

Mr. Jagjiwan Ram, Minister for Railways inaugurated on March 3, 1957, two cargo jetty berths at Kandla to usher in the final phase of the Rs. 14·1 crore major port project on the West Coast. The remaining two berths, have since been completed in most respects.

The Government of India have also sanctioned the construction of two additional berths, as a part of the Second Five Year Plan schemes of the Port. Work on these has already commenced.

Kandla port, the first major port to be constructed since independence, will serve a hinterland of 275,000 square miles with a population of 60 millions.

With the opening of the Bhildi-Baniwara track Kandla is now connected also with Rajasthan and southern Punjab. A national highway to connect it with Ahmedabad is expected to be completed by 1959.

Estimated cost of the project: a little over Rs. 14 crores. Amount spent on this project till 30th Nov. 1957: Rs. 12·2 crores.

Statistics of revenue and expenditure of Kandla Port during 1956-57:

Revenue: Rs. 29,51,765.

Expenditure: Rs. 16,85,703.

Large open stacking areas with necessary railway sidings and extensive lands for industries, workshops, etc. will soon become available.

The initial traffic of the port on completion of the works is likely to be 1,000,000 tons of cargo annually, of which 500,000 tons will be oils. The present tonnage that could be handled is 700,000 tons.

The traffic at the Port of Kandla during the year 1956-57 is as under :—

(*a*) Total imports during the year..	327,829 tons.
(*b*) Total exports during the year ..	145,657 tons.
(*c*) No. of passengers embarked and disembarked ..	168,180 persons.
(*d*) The total volume of the cargo trade during the year..	473,486 tons.

The Major Port of Kandla and the Kandla Port Project are under the administrative control of the Government of India in the Ministry of Transport. The Development Commissioner, Kandla is the head of these Organisations. He is assisted by a Port Advisory Committee consisting of four non-official and three official members, to advise him on all matters relating to the Port and the Port construction.

Principal Officers.—*Development Commissioner*, P. N. Saxena; *Financial Adviser & Chief Accounts Officer*, V. N. Singh; *Superintending Engineer (Harbour)*, M. Ramabrahmam; *Superintending Engineer (General)*, R. R. Sukhrani; *Deputy Conservator*, Capt. D. V. Singh; *Traffic Manager*, R. Srinivasan; *Secretary to the Development Commissioner and Town Development*, Shivakumar Dhindaw.

MADRAS

The Madras Harbour is an artificial one formed by two arms projecting from a low, sandy coast.

The affairs of the Port are administered by a Board of Trustees which function under the Madras Port Trust Act. The Chairman is the Chief Executive Officer of the Board

The Port is about 3/5 mile square (excluding boat basin, etc.) with an area of approximately 200 acres. Width at entrance 400 ft.; depth of water at entrance at high water 37 ft. and at low water 34 ft. Practically the whole of the enclosed harbour has a depth of 30 ft. at I.S.L.W. There are no navigational difficulties and the Port is approached direct from the open sea.

There is accommodation for 18 vessels inside the harbour, 9 at Moorings and 9 at Quays. The depth at moorings ranges from 28 ft. to 31 ft. 6 in. and at quays from 26 ft. to 30 ft. Pilotage is compulsory.

The Income and Expenditure for the year 1956-57 were Rs. 2,45,18,436 and Rs. 2,56,71,218 respectively.

Number of passengers embarked during 1956-57 was 29,119 and of passengers disembarked 33,125.

The chief imports are coal and coke, foodgrains, mineral oils, metals, timber, textiles, machinery, hardware, hides and skins, paper including old newspapers, dyeing and tanning substances, chemical manures, sugar, asphalt, chemicals, cotton, etc.

Ores, piecegoods, hides and skins (raw and tanned), onions, raw tobacco, twist and yarn, mica, etc. form the principal exports.

The export of groundnut oil is also an important item and three oil tanks have been erected for storing the oil.

Statistics showing the growth of the Port from 1951-52 to 1956-57.

Year	Imports	Exports	Total
	Tons	Tons	Tons
52 ..	1,854,682	300,138	2,154,820
53 ..	1,869,082	335,685	2,204,767
1953-54 ..	1,641,315	494,610	2,135,935
..	1,716,301	485,069	2,201,370
1954-55 ..	1,833,874	627,737	2,461,611
..	2,033,402	632,426	2,665,828
1955-56			
1956-57			

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Trustees of the Port: *Appointed by Government.*—G. Venkateswara Ayyar, I.C.S., *Chairman*; A. C. Whitcher, Collector of Customs; T. A. Joseph, General Manager, Southern Railway; T. K. Palaniappam, M.A., L.A.S., Director of Industries and Commerce; D. Balasundaram, I.A.S., Commissioner, Corporation of Madras; Capt. S. K. Kumarhia, Principal Officer, Mercantile Marine Department, Madras; Maj. Genl. Ghyanshayam Singh, The G.O.C., Madras Area; C. Govindarajulu, *Representative of Labour.*

Elected by Commercial Bodies, etc.—(Representing Corporation of Madras): P. N. Lakshmipathy; (Representing Madras Chamber of Commerce, Madras): J. R. Galloway and E. J. M. Leigh; (Representing Southern India Chamber of Commerce): P. Maruthai Pillai, A. Nagappa Chettiar, B. N. Patel, Laldoss Govindoss and K. R. Sundaram Aiyer; (Representing the Andhra Chamber of Commerce): J. V. Somayajulu and Ch. Ramabrahmam; (Representing the Indian National Steamship Owners' Association, Bombay): M. M. Syed Mohamed.

Administration

Principal Officers.—*Chief Engineer.*—K. N. Srinivasan, B.E., A.M.I.E.; *Deputy Chief Engineer.*—V. S. Ananthanarayanan; *Mechanical Engineer.*—P. C. Martin; *Electrical Engineer.*—V. R. Srinivasan; *Deputy Port Conservator.*—W. B. Vangeyzel; *Chief Accountant and Financial Adviser.*—K. Rangaswamy, M.A.; *Harbour Master.*—V. V. Seshadri; *Traffic Manager.*—V. A. Jaywant, B.A.; *Medical Officer.*—Dr. T. S. Subramaniam, M.B.B.S., F.R.F.P.S., D.T.M., D.T.H.; *Secretary.*—T. K. Parameswaran Nambiar, B.A.

VISHAKAPATNAM

Vishakapatnam Harbour was created in order to supply an outlet for a large area of fertile country adjacent to the east coast of India, and for Madhya Pradesh with considerable mineral resources and no alternative access to the outside world. In 1933, the harbour was first opened for ocean-going vessels, and ships drawing upto 28 ft. 6 in. and having a length up to 550 ft. can now enter and leave the harbour at all times of the year. Under favourable states of tide, however, ships drawing 30 ft. can enter or leave the harbour by prior arrangements.

The harbour now provides the following facilities:

The inner harbour consists of a turning basin, four quay berths each 500 feet long and equipped with portal electric cranes, transit sheds, and railway lines, both behind and on the quay-side of the transit sheds and three concrete jetty and wharf berths for coal and oil. Besides, there are four mooring berths which are served by a fleet of lighters owned and operated by the port authorities and shallow water channels with timber jetties for lightering work. The quay berths No. 1 and 2 are specially equipped and reserved for the expeditious handling of manganese and iron ore: on an average, approximately 3,000 tons are loaded in a day.

A 1,200 ft. long quay berth, capable of accommodating two oil tankers simultaneously has been constructed to provide the necessary Port and Harbour facilities for the Caltex Oil Refinery at Visakhapatnam which is in full operation.

A Dry Dock 366 ft. by 60 ft. with a depth of 14 ft. below low water has been in use at the Port for the docking of vessels, but ordinarily only small craft not exceeding 300 ft. in length can be docked.

The Port has a Floating Crane capable of dealing with heavy lifts up to 50-ton capacity.

Income and Expenditure of the Port for the year 1956-57.

	Receipts.	Expenditure.
	Rs.	Rs.
Port Fund ..	96,54,650	79,28,978
Pilotage Fund	1,78,394	1,87,579

Statistics showing total imports and exports handled during the five years from 1952-53 to 1956-57.

Year	Imports	Exports	Total
	Tons	Tons	Tons
1952-53 ..	152,554	1,047,741	1,200,295
1953-54 ..	185,824	1,205,015	1,390,839
1954-55 ..	230,510	795,725	1,026,235
1955-56 ..	228,406	1,094,648	1,323,054
1956-57 ..	494,121	995,683	1,489,804

The Port is administered by the Government of India, Ministry of Transport, New Delhi.

Principal Officers.—*Port Administrative Officer and Port Conservator.*—S. Nanjundiah; *Deputy Port Conservator.*—E. H. (Hassup; *Traffic Manager.*—M. R. Malhan; *Superintendent, Mechanical.*—A. W. De Lima.

EAST COAST PORTS*

Ports.	Receipts for 1956-57. Rs. nP.	Expenditure for 1956-57. Rs. nP.	No. of passengers embarked and disembarked 1956-57.	Imports in tons 1956-57.	Exports in tons 1956-57.	Weight of Cargo in tons handled in 1956-57.	Officer-in-Charge of Port.
Balasore ..							
Bimlipatam ..	1,124·87	7,896·56	Nil	Nil	232	232	K. V. Subba Rao.
Chandbali‡ ..							
Cuddalore ..	35,617·59 (Minor Ports Fund) 1,72,782·32 (Landing and shipping fund)	94,393·45 (Minor Ports Fund) 2,53,733·78 (Landing and shipping fund)	Nil	1,77,715	4,596	1,82,311	Capt. A. Sivaraman.
Dhanushkodi ..	2,402·39	3,468·71	87,928	881	5,832	N. A.	B. V. Sarma.
Kakinada ..	4,59,480·00	6,04,640·00	Nil	2,800	2,77,054	3,79,854	L. T. Yettie.
Masulipatam ..	2,44,461	1,16,173	Nil	144	2,70,817	2,70,961	V. Jagannadhachari.
Nagapattinam	58,204·52 (Landing and shipping fund)	60,625·96 (Landing and shipping fund)	26,004½	2,332½	18,215½	20,548	G. M. Chikhalikar.
Tuticorin ..	9,66,457·00	5,76,257·00	363	2,78,861	3,07,585	5,86,286	G. M. Chikhalikar.

* Where no information is available the columns have been left blank.

‡ Imports and exports negligible. Development projects with regard to improvements at Chandbali will commence from 1957 financial year. Revival of sea-borne trade at Gopalpur is under the consideration of the Government. Schemes are being finalised for establishing a port at Paradip on the mouth of the river Mahanadi.

SAURASHTRA AND KUTCH PORTS

Ports.	Receipts for 1956–57. Rs.	Expenditure for 1956–57. Rs.	No. of passengers embarked and disembarked 1956–57.	Imports in tons 1956–57.	Exports in tons 1956–57.	Weight of Cargo in tons handled in 1956–57.	Officer-in-Charge of Port.
Bhavnagar group of Ports ..	13,06,710	18,61,850	2,703	1,22,570	2,78,246	4,00,816	D. Y. Virkar.
Bedi group of Ports ..	17,11,125	12,19,260	1,916	49,025	4,26,127	4,75,152	C. P. Adalja.
Navlakhi group of Ports ..	7,54,427	7,39,475	1,68,453	9,499	87,520	97,019	V. G. Mankad.
Veraval group of Ports ..	6,12,305	5,20,490	5,905	74,462	99,612	1,74,074	T. V. Oza.
Porbander group of Ports ..	4,67,094	3,95,235	4,421	49,390	86,342	1,35,732	D. V. Bara.
*Kutch Group of Ports ..	2,99,231	1,47,042	50,408	36,335	89,915	1,26,250	R. K. Budhbhatti.
Headquarters Office, Rajkot ..	1,315	1,54,860	—	—	—	—	—
TOTAL ..	51,52,207	50,38,212	2,33,806	3,41,281	10,67,762	14,09,043	

Total receipt for Saurashtra and Kutch Region Ports for the year 1956-57 Rs. 51,52,207.

Total Revenue Expenditure for Saurashtra and Kutch Region Ports for the year 1956-57 Rs. 50,38,212.

Total Capital Expenditure for Saurashtra and Kutch Region Ports for the year 1956-57 Rs. 52,42,279.

Principal Port Officer and Engineer, Saurashtra and Kutch Region Ports, Headquarters, Rajkot, H. P. Oza.

* Mandvi figures are given separately under West Coast Ports

WEST COAST PORTS

Ports.	Receipts for 1956–57. Rs. nP.	Expenditure for 1956–57. Rs. nP.	No. of passengers embarked and disembarked 1956–57.	Imports in tons 1956–57.	Exports in tons 1956–57.	Weight of Cargo in tons handled in 1956–57.	Officer-in-Charge of Port.
Alleppey ..	2,00,864 01	2,15,527 00	Nil	2,920	23,525	26,445	M. Raja Raja Varma, B.A.
Kozhikode ..	3,42,413 02	2,09,035 09	208	96,288	2,15,179	3,11,467	P. Parameswara Prasad.
Mandvi ..	1,26,653 06	†	50,408	30,560	5,491	36,051	Janakrai P. Pandya.
Mangalore ..			*See separate note below.*				
Port Okha ..	10,66,762 00	12,17,267 00	154	2,44,888	1,86,849	4,31,737	Capt. D. K. Tambhane, F.G.M.
Quilon ..	19,711 00	3,874 00	Nil	20,258	2,750	23,008	A. Ebrahim Kunju.
Surat	20,000 00	Nil	Nil	25,000	(Import & export)	25,000	H. R. Amarnani.
Tellicherry ..	29,680 00	26,299 00	4	8,319	7,566	15,885	V. D. Peter.

† Expenditure figures included in the figures given for Kutch group of ports under Saurashtra and Kutch Ports.

BROACH PORT

The following are figures for the year 1956-57 :

Number of passengers embarked and disembarked : Nil.

Imports : 30,349 tons ; Value of imports : Rs 77,29,834.

Exports : 15,580 tons ; Value of exports : Rs. 66,36,475.

Total Income : Rs. 9,335.16 nP. (Customs import duty Rs. 245.50 nP. ; Landing and wharfage fee Rs. 30.50 nP. ; Port dues Rs. 6,703.91 nP).

Customs Miscellaneous recoveries Rs. 1,853.50 nP. Light dues Rs. 501.75 nP.

Total expenditure : Rs. 12,230 (Pay and allowances Rs. 10,500 : Overtime allowances Rs. 1,530 ; Travelling allowance Rs. 200).

MANGALORE PORT

Lat. : 12° 51' 40" North ; *Long.* : 74° 49' 55" East on the west coast of India between Calicut and Goa.

Authority : Mangalore Port Trust Board.

Accommodation : Open roadstead. Steamers anchor in 4 to 6 fathoms due west of entrance and are loaded and discharged by lighters. Approximately 50 lighters suitable for landing and shipping cargo with average capacity of 35 tons each are available at the port. Bar opposite Railway Bridge. Depth on bar : 7-9 ft. Low water Spring Tide ; at quay 7 feet L.W.O.S.T. During South-west monsoon (Mid May to Mid September) no communication with shore. Dry-Dock for Port Trust Craft. 110 feet by 30 feet. depth on sill 4 ft.

Equipment : One 5 ton, one 2 ton and one 1 ton hand cranes. Cranage fee Rs. 1.15 nP. per ton. No repair facilities except minor repairs to ships gear on shore. No bunkers.

Lighthouse and Signal Station opposite Bar.

One Steam Tug and one Motor Launch available for towage on hire.

Revenue & Expenditure : The particulars of Revenue receipts and expenditure of funds administered by the Mangalore Port Trust Board during the year 1956-57 were as follows :

	Receipts. Rs.	Expenditure. Rs.
1. Mangalore Port Trust Fund	2,80,938	2,41,065
2. Mangalore Port Fund	81,438	30,337
3. Mangalore Pilotage Fund	4,695	4,067

Passengers embarked and disembarked during 1956-57 : 5,728 passengers embarked and 5,864 passengers disembarked.

Tonnage of Trade handled (1956-57) :

(i) Imports : The Imports during the year amounted to 91,672 (approx.) tons.

(ii) Exports : The Exports during the year amounted to 1,96,452 (approx.) tons.

(iii) The total approximate weight of cargo handled at the Port during the year was 2,88,124 tons.

Names of officials : *Chairman*, Y. C. Honnallah, Collector of South Kanara ; *Vice-Chairman*, V. S. Kudva ; *Conservator of Port*, The Mangalore Port Trust Board.

RAILWAYS

THE total route mileage of all the railways in India on March 31, 1957 was 34,744 05 The total electrified route mileage was 244 24

The total route mileage is made up of the following

Govt railways—34 290 81
Non-Govt railways—453 24

The total capital at charge on March 31, 1957 was Rs 1 078 23 crores. On other than Government railways the capital at charge was Rs 45 21 crores

There are three kinds of gauge, broad (5 ft. 6 in.), metre (3 ft 3⅜ in) and narrow (2 ft 6 in) There is also a light gauge usually laid on the mountains (2 ft) An example of this last is the Darjeeling-Himalayan

The total route mileage by gauge was as follows

Broad gauge	16 108 68
Metre gauge	15 387 40
Narrow gauge	3 187 97

The fares (pies per mile) on March 31 1958 were as follows —

Air conditioned	1—300 (miles)	34
	301 and over	32
Second class	1—150 (miles)	18
	151—300 ,,	16
	301 and over	15
Inter (Mail & Expr.)	1—150 (miles)	11
(Ordinary)	,, ,,	9½
(Mail & Expr.)	151—300 ,,	10½
(Ordinary)	,, ,,	9
(Mail & Expr)	301 and over	9½
(Ordinary)	,,	8½
Third (Mail & Expr)	1—150 (miles)	6½
(Ordinary)*	,, ,,	5½
(Mail & Expr)	151—300 ,,	6
(Ordinary)	,, ,,	5
(Mail & Expr)	301 and over ,,	5
(Ordinary)	,, ,,	4½

* For under 50 miles 5

ZONAL ADMINISTRATION

The entire Government railway system is now grouped into eight administrations: the Southern Railway, the Western Railway, the Central Railway, the Northern Railway, the Eastern Railway, the South-Eastern Railway, the North-Eastern Railway and the North-East Frontier Railway

The headquarters of the Southern Railway are at Madras, of the Western Railway at Bombay, of the Central Railway also at Bombay, of the Northern Railway at Delhi, of the Eastern Railway at Calcutta, of the South-Eastern Railway also at Calcutta, of the North Eastern at Gorakhpur and the North East Frontier Railway at Pandu

The highest administrative authority for the railways is the Railway Board.

The Indian Railway Conference Association, New Delhi, is a sort of clearing house for all railways

The railways are now organized on a Divisional basis

There are a number of Committees which have been associated with the Railway Administration Standing Finance Committee, Central Advisory Council, Railway Rates Tribunal, Indian Railway Fuel Committee

There are also a number of standardization Committees such as for bridges, structure, track, signalling and inter-locking, building, locomotive, carriage and wagon, electrical, specifications

There are also Railway Users' Consultative Committees at the zonal, regional and national level.

There are Railway Service Commissions in Bombay Calcutta, Allahabad and Madras

There is a training college for railway officers and staff at Baroda

STATISTICS

The principal statistics for the year 1956 57 are given below The first column shows the position for all railways, the second only for Government railways

—	All Railways	Government Railways
Capital at charge (Rs crores)	1,078 23	1,033 02
Route mileage (March 31, 1956)	34,744 05	34,290 81
Gross earnings (Rs crores)	350 55	348 89
Total working expenses (Rs crores) .	280 13	278·76
Operating ratio (per cent)	79 91	79 90
No. of passengers originating (million)	1 382 54	1,359 68
Passenger miles (million)	42,194 47	41,878 83
Earnings from carriage of passengers (Rs crores)	117 50	116 32
Average earnings per passenger mile (pies)	5 34	5 33
Freight tons originating (million)	125 38	124 07
Freight ton miles (million)	40 224 69	40,185 74
Earnings from carriage of goods (Rs crores)	201 69	200 58
Average earnings per freight ton mile (pies)	11 1	11 7
Total train miles (million)	217 89	215 59
Gross earnings per train mile (Rs)	17 0	1, 1
Working expenses per train mile (Rs)	13 8	13 8
Net earnings per train mile (Rs)	3 24	3 26
Net earnings per mean mile worked (Rs)	20,238	0,414

Other statistical information about Indian Railways for 1956-57 is given below —

New Lines opened to Traffic	95 82
Lines under Construction	491·94
Total No of Locos (March 31, 1956)	9,719
No of Steam Locos ..	9,563
No of Diesel Electric Locos	77
No. of Electric Locos ..	79
No. of Passenger Carriages (March 31, 1957) ..	17,804
Total No. of Seats (March 31, 1957)	11,44,401
No. of 1st Class seats ..	66,139
No of 2nd Class Seats ..	71,771
,, ,, *3rd Class* ,,	1,004,966
No of Goods Vehicles (March 31, 1957)	229,854
Total carrying Capacity in tons	4,613,997
Total No. of Passengers Carried (Crores) . ..	138·25
No. of A.C. .. .	109,200
No. of 1st Class Passengers (Million)	21 07
No. of 2nd Class Passengers (Million)	18·14
No. of 3rd Class Passengers (Million)	1,343·23
Total Passenger Miles (Crores)	4,219·45
Average Miles per Passenger	30·5
Total Earnings from Passengers (Rs. in Crores)..	117·39
Earnings from A.C. Passengers (Millions)	9·33
Earnings from 1st Class Passengers (Rs in Million)	64 45
Earnings from 2nd Class Passengers (Rs. in Crores)	6·17
Earnings from 3rd Class Passengers (Rs. in Crores)	103·85
Goods Carried (Million tons)	125·38
Net ton Miles (Crores) ..	4,022 17
Average Miles a Ton of Goods was Carried .. .	320·8
Earnings from Goods Carried (Rs in Crores)	201·09
Average rate Charged for one Ton one Mile (Pies)(1956)	10·8
Average receipts per freight ton mile	11 1 pies
Earnings per passenger per mile	5 34 pies
Capital at charge Chittaranjan Works (Rs lakhs)	19 93 (19,8 50)
Capital at charge, Integral Coach Factory (Rs lakhs)	12 18 (1958-59)
Capital at charge Locomotive component works Banaras (Rs lakhs)	1 58
Capital at charge Metre Gauge Coach Factory Bareilly (Rs Lakhs)	11

STAFF

The total strength of Staff (March 31, 1957)	1,06 1,047
Position on Government Railways	
Class I and II Staff	3,670
Class III Staff .	386,759
Class IV other than Workshop and artisan	495,300
Class IV Workshop artisan	158,614
The total cost of all Staff (Rs in Crores) .	155 74
The total cost of Class I and Class II (Rs. in Crores)	3 84
The total cost of Class III staff rising to above Rs 250 per month (Rs in crores)	8 81
The total cost of Class III staff, rising to not more than Rs 250 per month other than workshop and artisan (Rs in crores)	52 31
The total cost of workshop staff plus artisan staff, Class III (Rs in Crores)	23·84
The total cost of Class IV staff other than workshop and artisan (Rs in Crores)	49 98
Class IV, workshop and artisan (Rs in Crores)	16 97
Total cost of workshop and artisan staff (Class III or IV (Rs in Crores)	40 80
Man-days lost due to Sickness	9,942,218
Man-days lost due to Strikes or Lock-outs	229,563
Total Man-days lost .	10,171,781
Total No of Female Employees (March 31, 1957)	8,823
Class I and II Officers ..	2
Class III Staff :	
Clerks	1,502
Stenographers	79
Nurses	530
Teachers	533
Others	694
Class IV Staff	5,444

ACCIDENTS

Accidents 1956-57:

	Killed	Injured
Passengers	645	3,621
Railway Servants ..	253	26,292
Other Persons ..	4,156	2,428
TOTAL ..	5,054	32,341

1. No. of Collisions in which Passenger Trains were involved	23
2. No. of Derailment to Passenger Trains	207
3. No. of Train wreckings ..	6
4. Attempted Train wreckings ..	78
5. Flooding	278
6. Failure of bridges, tunnels ..	3
7. Trains running into road traffic at level crossings	123
8. Broken rails	53
9. Failure of axles	7
Total of all accidents .. .	9,543

CENTRAL RAILWAY, 1956-57

(Victoria Terminus, Bombay 1)

Total Route Mileage		5,295·02
Broad Gauge		3,798·45
Metre Gauge		772·49
Narrow Gauge		724·08
New Construction in Hand, Mileage		187·23
Mileage Electrified		184·85
Capital at Charge (Rs. in crores)		197·45
Gross Revenue Receipts (Rs. in crores)		69 27
Working Expenses „ „ „		49·52
Net Revenue Receipts „ „ „		19·75
No. of Locos actually running on March 31, 1956	*Steam*	1,312
	Electric	73
Diesel		23
Total No. of Passenger Carriages (in units) actually running on March 31, 1957 ..		2,135
Passenger Carrying Capacity—		
Seats by Classes—		
Air Conditioned		472
First Class		10,920
Second Class		5,542
Third Class		123,873
No. of Passengers Carried (in millions)		281·2
No. of Wagons actually running on March 31, 1957	*Covered*	25,080
	Open	8,881
Tonnage lifted (in millions) ..		23·85
Total No. of Staff on March 31, 1957		182,774

EASTERN RAILWAY, 1956-57

(Esplanade Mansions, Calcutta 1)

Total Mileage		2,321·43
Broad Gauge		2,304·29
Metre Gauge		*Nil*
Narrow Gauge		17·14
Capital at Charge (Rs. in Crores) .. .		144 95
Gross Traffic Receipts (Rs. in Crores)		47 22
Working Expenses (Rs. in Crores)		40·42
Net Traffic Receipts (Rs. in Crores)		6 80
	B. G.	N. G.
No. of steam locomotives	1,477	4
No. of passenger coaches	2,237	21
No. of goods wagons (traffic)		
(a) Covered ..	33,016	1
(b) Open	19,873	7
(c) Special ..	2,564	..
Passenger carrying capacity (seats)		
(a) Air-conditioned	720	Nil
(b) 1st Class ..	8,270	36
(c) IInd Class ..	13,751	80
(d) IIIrd Class ..	151,441	618
No. of passengers carried	184,205,798	638,100
Total tonnage lifted (originating) ..	30,401,748	..
Staff (total) ..	159,686 (approx.)	

The Railway has no electric or diesel locos.

NORTHERN RAILWAY, 1956-57

(Baroda House, New Delhi)

Total Mileage			6,338·63
Broad Gauge			4,171·75
Metre Gauge			2,005·05
Narrow Gauge			161·83
New Construction			*Nil*
Mileage Electrified			*Nil*
Capital at Charge (Rs. in Crores)			164 01
Working Expenses (Rs. in Crores)			43·13
No. of Passengers Carried on the System (in million)			185·29
Net receipts (Rs. Crores) .			11·21
No. of Locos:	*B.G.*	*M.G.*	*N.G.*
Steam	1,258	279	51
Diesel	10	Nil	5*
Electrical .. .	Nil	Nil	Nil
No. of passenger coaches	1,686	562	119
Passenger carrying capacity:			
Air-conditioned ..	103	24	Nil
1st Class . ..	6,305	1,543	399
2nd Class ..	9,513	1,248	264
3rd Class	1,21,845	24,810	2,925
No of Goods Wagons, open:			
High sided . ..	9,992	647	75
Low sided . ..	973	312	34
No. of Goods Wagons, covered . ..	18,296	4,159	130
Tonnage lifted (in million) ..			21 35
Staff total			1,58 095

* Not in service.

NORTH-EASTERN RAILWAY, 1956-57*

(Gorakhpur)

Total Mileage		4,788·30
Broad Gauge		2·15
Metre Gauge		4,794·18
Narrow Gauge		51·97
New Construction in Hand ..		*Nil*
Mileage Electrified		*Nil*
Capital at Charge (Rs. in Crores)		120 63
Gross Earnings (Rs. in Crores).		29 45
Working Expenses (Rs. in Crores) . .		32 56
Net Earnings (Rs. in Crores).		3 11
Total No. of Engines on line (in units)		1,233
No. of Trees (Electric) .. „		*Nil*
No. of Passenger Coaches .. „		3,069
Passenger Carrying Capacity:—		
(a) *Air Conditioned* ..		126
(b) *1st Class*		6,640
(c) *2nd Class*		14,359
(d) *3rd Class*		148,142
Total		161,273
No. of Passengers Carried (in hundred)		1,806,905
No. of Goods Wagons, Covered (in units)		26,875
No. of Goods Wagons, Open „		6,779
No. of Goods Wagons, Special		2,582
Tonnage lifted (tons in thousand)		10 271
No. of Staff (Total) (in units)		129,000

*Before the bifurcation into North-Eastern and North-East Frontier Railways

SOUTHERN RAILWAY, 1956-57

(Madras Central, Madras)

Total Mileage	6,109·04
Broad Gauge	1,807·25
Metre Gauge	4,197·09
Narrow Gauge	95·70
New Construction in Hand— Quilon-Kottayam section —M.G. (in miles)	59·32
Mileage Electrified	18·14
Capital at Charge (Rs. in crores)	146·10
Gross Revenue Receipts (Rs. in crores)	50·18
Working Expenses (Rs. in crores)	44·26
Net Revenue Receipts (Rs. in crores)	5·92
Average no. on line daily:	
No. of Locos (Steam)	1,452
No. of Locos (Electric) ..	4
No. of Passenger Coaches ..	3,361
Air Conditioned Passenger Seating Capacity	218
I Class	10,718
II „	11,769
III „	213,463
No. of Passengers Carried (in thousand)	226,191
No. of Goods Wagons (Covered)	20,662
No. of Goods Wagons (Open) ..	7,309
Tonnage lifted (tons in thousand)	16,488
Staff (Total)	158,556

SOUTH-EASTERN RAILWAY, 1956-57

(Garden Reach, Calcutta 23)

Total mileage		3,424
Broad gauge		2,499
Metre gauge		.
Narrow gauge		925
Mileage electrified		Nil
Mileage under construction ..		(*B.G.*) 498
Number of Locos:		
Steam		957
Diesel		*Nil*
Electric		*Nil*
Railcars		2
No. of passenger coaches ..		1,364
No of Goods wagons:		
Covered		10,572
Open		16,998
No. of staff		116,269
Passenger carrying capacity		
Air-conditioned . ..		372
1st class		4 544
2nd class		6,326
3rd class		75 608
No. of Passengers carried ..		66 715,465
Tonnage of goods lifted .		24,520 067
Capital at charge ..	Rs.	114,55,91,522
Gross earnings ..	Rs.	41,89,50,695
Working expenses ..	Rs.	30,42,52 872
Net earnings	Rs.	11,46,97,823

WESTERN RAILWAY, 1956-57

(Churchgate, Bombay)

Total Route Mileage	6,012·93
Broad Gauge	1,586 06
Metre Gauge	3 068 59
Narrow Gauge	758·28
Mileage electrified	37·25
Capital at Charge (Rs. in Crores) .. .	145 34
Gross Revenue Receipts (Rs in Crores) . ..	55 70
Working Expenses (Rs. in Crores)	38 60
Net Revenue Receipts (Rs. in Crores) . .	17 10
No. of Locos (Steam)	1,350
No of Locos (Diesel Electric)	17
No. of Locos (Diesel Mechanical)	27
Rail Motor Coaches	66
No of Passenger Coaches ..	2,851
Passenger carrying capacity Air conditioned—	
Broad Gauge	662
Metre Gauge	120
Passenger carrying capacity (1st Class)—	
Broad Gauge . ..	7,750
Metre Gauge	4,823
Narrow Gauge	745
Passenger carrying capacity (2nd Class)—	
Broad Gauge	3,036
Metre Gauge	5,230

Passenger carrying capacity (3rd Class)—	
Broad Gauge	60,363
Metre Gauge	68,113
Narrow Gauge	9,570
No. of Passengers carried (in thousand)	3,17,853
No. of Goods Wagons (covered)	19,131
No. of Goods Wagons (open)	6,848
Tons carried (in thousand) ..	19,213
No. of staff	1,36,789

COMPANY RAILWAYS JAN. 1958

We give some particulars about company railways in India below :

Company	Gauge	Length in miles	Designation of man in charge	Head-quarters
Bukhtiarpur - Bihar Light (B.B.L.)	Narrow	33	Chairman	Patna
Bombay Port Trust (B.P.T.) ..	Broad	8	Chairman	Bombay
Calcutta Port Commissioners (C.P.I.)	,,	198	Chairman	Calcutta
Dehri-Rohtas Light (D.R.L.) ..	Narrow	24	Manager	Dalmianagar
Madras Port Trust (M.P.T.) ..	Broad and Metre	4	Chairman	Madras
Martin Burn Ltd. Rys. ..	Narrow	248	General Manager	Calcutta
McLeod & Co's Rys.	,,	126	Advisory Officer	Calcutta
Total mileage		641		

RAILWAY BUDGET

(Rupees in Crores)

	Actuals 1956-57	Revised Estimate 1957-58	Budget Estimate 1958-59
Gross Traffic Receipts ..	347·57	384·40	407·48
Working Expenses	233·94	259·16	268·35
Net Miscellaneous Expenditure	9·92	14·01	16·99
Appropriation to Depreciation Reserve Fund	45·00	45·00	45·00
Payment to Worked Lines ..	·33	·33	·22
Total ..	289·19	318·50	330·56
Net Railway Revenues ..	58 38	65·90	76·92
Dividend to General Revenues	38·16	44·24	49 58
Net Surplus	20·22	21 66	27·34

Some individual items on the expenditure side are given below :

(In crores of rupees)	Budget Estimate 1958-59
Demand No. 4.—Administration	32·73
Demand No. 5.—Repairs and Maintenance	104·30
Demand No. 6.—Operating Staff	63·81
Demand No. 7.—Operation (Fuel)	57·21
Demand No. 8.—Operation other than Staff and Fuel	18·84
Demand No. 9.—Misc. Expenses	26·35
Demand No. 10.—Labour Welfare	7·89
TOTAL ..	311·13
Credits or recoveries	— 42·78
TOTAL ..	268·35

Other categories of expenditure in Rs. lakhs : Rolling stock : 87.95 ; track renewals : 34,77 ; traffic facilities : 5,94 ; staff quarters : 8,03 ; amenities for staff : 3,11 ; passenger and other railway users' amenities : 2,50 ; new lines : 14,05.

Some individual items on the receipts side are given below :

(In crores of rupees)	Budget Estimate 1958-59
Passenger Earnings—	
Upper	14·06
Third	110·67
Other Coaching Earnings	24·65
Goods Earnings	250·50
Other Sundry Earnings	8·45
Total Earnings	408·33
Suspense	— 0·85
Gross Traffic Receipts ..	407·48

The programme of new acquisition under rolling-stock for 1958-59 is given below. The first figure in brackets shows the number to be acquired from abroad and the second figure the number to be acquired indigenously :

Steam locomotives : 255 (23,232) ; boilers (steam) : 10 (all indigenously) ; Carriages : 2,355 (all indigenously) ; wagons in terms of four-wheelers : 18,994 (all indigenously).

Two items that can also be mentioned here (1956-57 actuals): Operating ratio : 80·3 per cent. Ratio of net revenue to Capital-at-charge : 5·4 per cent.

BUDGET SPEECH

Below we give points from the budget speech :

The Minister said that an examination of the Railway Freight Structure Committee's recommendations regarding revision of the rates structure "is now in the final stages, and decisions thereon are expected to be taken and implemented in the near future".

Operational efficiency during the current year had touched new high levels.

Vigorous measures continued to be taken to increase efficiency of operation and better utilisation of rolling stock.

The figure of net ton miles per wagon day, universally accepted as a reliable index of operational efficiency, had increased from an average of 570 miles in 1956-57 to 630 miles on B.G. and from 210 miles to 228 miles on M.G., for the period from April 1957 to November 1957.

It was expected that in 1958-59 the railways would be called upon to carry about 12 million tons of additional traffic, raising the total traffic to 145 million tons as against the total Plan provision of 162 million tons. Most of the additional traffic would be on account of the expansion of the steel industry and the additional coal raisings.

Giving a picture of the large-scale development works now in hand, the Minister disclosed that at present a labour force of 150,000 was engaged on a number of railway projects in different parts of the country.

The construction of over 500 miles of new lines is in progress. Work is also proceeding on 800 miles of doubling, of which 385 miles are on the South-Eastern, 115 miles on the Southern, 135 miles on the Western, 100 miles on the Northern and 45 miles on the Central Railways.

The budget discloses that the total expenditure for the works, machinery and rolling stock programme has been placed at Rs. 260 crores, as against the revised estimate of Rs. 235 crores in the current year's budget.

The major items of expenditure during the new year will be : rolling stock Rs. 88 crores (out of which Rs. 60·17 crores will be spent within the country and Rs. 27·78 crores on imports, including customs, freight, handling and other charges) ; the construction of new lines and restoration of dismantled lines Rs. 20 crores ; track renewals Rs. 33 crores ; and other open line works about Rs. 100 crores.

While the Ministry's total receipts have increased by only Rs. 6·50 crores during the year, the total ordinary working expenses have gone up by Rs. 15·31 crores. The biggest slice of the increase, Rs. 4·5 crores, representing 29 per cent of the total increase, is accounted for by the interim increase of Rs. 5 in the dearness allowance to staff sanctioned by Government on the recommendation of the Pay Commission.

Other reasons for increased expenditure are : the enhancement of the price of coal, higher repairs and maintenance bill of the railways, etc.

NEW LINES

Two important new lines have been included in the next year's programme : the 100-mile Robertsganj-Garha Road line on the Northern Railway costing Rs. 17 crores and the 40-mile long Muri-Ranchi connection on the Eastern Railway costing Rs. 5·9 crores.

The Northern Railway line is required as an alternative route from the Barkakana coal fields to north India to reduce the ever-increasing pressure *via* Moghalsarai and also for opening up of the Rihand Dam area in Uttar Pradesh.

The Eastern Railway line is part of the Chandrapura-Muri-Ranchi-Boudamunda project intended to serve the steel plants at Rourkela and Bhilai. The first phase of this project, the Chandrapura-Muri link is already in progress

A Rs. 7·80-crore scheme doubling the 68-mile line between Drug and Kamptee (S.-E.R.), doubling of Vizianagram-Gopalapatnam section (S.-E.R.) at a cost of Rs. 3·80 crores ; and doubling of the Anuppur-Katni section costing Rs. 6·7 crores.

The highest priority will be given during the year to the electrification of the sections from Asansol to Tatanagar (S.-E.R.) and Rourkela and Rajkharswan to Barajamda (S.-E.R.).

It is expected that the electrification of these important trunk routes will be completed before the end of the Second Plan period, well in time before the full load of traffic develops.

Electrification of the line from Howrah to Moghalsarai is also included in the programme.

In all, for all electrification projects on Indian railways, the 1958-59 provision in the budget is Rs. 16·29 crores.

Conversion of the Gudivada-Bhimavaram section (S.R.) from metre gauge to broad gauge costing Rs. 2·25 crores. Work on electrification of Madras-Egmore-Tambaram-Villupuram section was slowed down as there were difficulties

of foreign exchange required by the Madras Electricity Grid to run the transmission lines. The latest development is that electric power will be available and the work will now progress on the A.C. single phase 25 K.V. system. However, some technical studies will have to be undertaken.

Extension of electrification on the Bombay-Delhi main line from Igatpuri to Bhusaval on the busy Ghat section has become an operating necessity, but there are difficulties in regard to obtaining power supply immediately. In the meantime, the civil engineering portion of the work, which takes a long time to complete, will be taken in hand.

The budget makes provision for the doubling of Khagaria-Katareah section (N.-E.R.) between Katihar and Barauni at a cost of Rs. 1·88 crores.

The creation of the eighth railway zone, the North-East Frontier Railway, was necessitated by many considerations—strategic, administrative and operational.

Measures are in hand to strengthen the Assam Rail Link and there was no serious breach in the Link and no hold-up of traffic during the 1957 monsoon. Rs. 3·5 crores had been allotted for these works most of which will be completed before the 1958 monsoon. The remaining works will also be completed during the working season of 1958-59.

A preliminary engineering survey is being concurrently carried out for alternative alignment, taking off from the Mal-Domohani section and joining again at Alipurduar.

The preliminary measures for the construction of the bridge across the Brahmaputra are sufficiently advanced and work is expected to commence on the sub-structures in the 1958 working season.

A considerable improvement in the suburban passenger services in the Bombay area has taken place. During 1956-57, the railways introduced 65 new trains and extended the runs of 33 trains. During 1957-58 up to December 1, 1957, they had introduced 86 new trains and extended the runs of 16 trains.

From April 1, 1959, the Integral Coach Factory at Perambur will start double shift working in order to make more intensive use of the available plant and also to reduce the cost of production. This will result in the production of 180 more coaches per year by the end of the Second Plan period, in addition to the existing target of 350 coaches per annum.

SELF-SUFFICIENCY

Capacity for production of rolling stock within the country had shown a further improvement during the current year

The import of general service wagons was discontinued quite a long time ago and that of steam locomotives has now been stopped except for a few required for narrow gauge lines.

Out of the total provision of Rs. 87·95 crores for rolling stock during 1958-59, Rs. 60·17 crores will be spent within the country and the balance on imports from abroad, including customs, freight, handling charges, etc.

Chittaranjan produced 156 locomotives in 1956-57 and is expected to produce 168 locomotives in the current year and an equal number next year. TELCO delivered 78 locomotives last year, while the number expected in the current year and the next year was 90 and 100 respectively.

The output of the Integral Coach Factory was expected to increase from 88 unfurnished coaches last year to 180 this year and 295 next year. The full production of 350 coaches under single shift working was expected to be achieved in 1959-60. It is proposed to introduce double shift working from April 1, 1959, resulting in the production of 180 more coaches by the end of the Second Plan.

Work on a permanent furnishing unit attached to the Integral Coach Factory at a cost of Rs. 3·69 crores had also been taken in hand.

It was proposed to continue with the programme of providing passenger amenities in spite of other pressing demands, consistent with economy in the use of cement, iron and steel.

MISCELLANEOUS

The problem of overcrowding, the Minister remarked, was still far from being solved. He referred to the difficulties of finance, limited capacity for building coaching stock, and shortage of line capacity and said: "I am afraid these difficulties will continue to be as formidable as ever."

Regarding departmental catering, the Minister stated: "I have no doubt that, by and large, departmental catering has been well-received by the public."

The number of cases of alarm chain pulling continued to be very high.

During the past 12 months the number was as high as 40,000, of which only less than one-tenth could be justified.

Ticketless travelling was another evil which could not be effectively checked without public support.

The problem of corruption on the railways was being tackled vigorously. Measures like special watchers at important stations, raids for locating corrupt practices and watching of placement and delivery of wagons had been intensified. Here, again, the Minister said, it was the awakening of the social conscience of the users as well as the railwaymen that could effectively liquidate corruption.

Claims for compensation which during the past few years had been showing a persistent tendency to increase appear now to be on the decline, indicating that the activities of the claims prevention organisation created in 1955 and the reorganisation of the Railway Protection Force were bearing fruit.

WELFARE

Referring to staff welfare, the Minister said that in addition to 81 hospitals and 434 dispensaries at the end of 1956-57, 3 more hospitals and 11 dispensaries had been added and a further addition of 9 hospitals and 59 dispensaries was planned for the next three years. The number of beds had increased from 3,543 to 3,936 and would ultimately be 5,230. In addition to 646 T.B. beds reserved at the end of 1956-57, 273 more had been sanctioned, and it was expected to increase the total to 1,350.

About 2,000 quarters were built last year and 16,000 were expected to be built during 1957-58, while provision had been made for another 15,000 in 1958-59.

In all, during the Second Plan period, 64,500 new quarters would have been constructed. In addition, improvements to existing quarters had been undertaken on a large scale and these will continue next year also.

1957-58 was another year of fruitful co-operation between labour and management. Periodical meetings between the Railway Board and the National Federation of Indian Railwaymen were resumed in July 1957 and agreements were reached on a number of points brought up by the Federation.

The *ad hoc* Tribunal had resumed work, and was expected to complete its work shortly.

Differences within the National Federation of Indian Railwaymen seemed to have widened and the All India Railwaymen's Federation was revived during the year. Government had consistently emphasised the need for unity and had appealed to them to have only one Federation.

It was heartening that in November last they had agreed to implement by July 31, 1958 the Unity Agreement reached by them in March 1956. The Minister said that he understood that the progress so far made in this direction was satisfactory.

1956-57—A REVIEW

SECOND PLAN

The year under review (1956-57) was the first year of the Second Five Year Plan. Compared to 1955-56, the last year of the first Plan, goods traffic during 1956-57 on Government railways showed an increase of as much as 10 per cent—from 113 million tons to 124 million tons

The actual expenditure during the year was Rs. 179·09 crores. It may be mentioned that out of the total Plan allotment of Rs. 1,125 crores, the railways themselves are expected to find one-third—Rs. 225 crores from the railway Depreciation Fund and Rs. 150 crores from current railway revenues. The balance of Rs. 750 crores is to be made available from the general revenues.

Goods traffic touched a new height of 125 million tons and 40,225 million ton miles, breaking the previous year's record of 115 million tons and 36,472 (revised) million ton miles.

The number of originating passengers rose from 1,297 million in 1955-56 to 1,383 million in 1956-57. Passenger miles increased from 39,083 million to 42,194 million.

Revenue loadings (wagons loaded for the public etc., excluding those on account of the railways' own service needs) averaged 12,168 per day on broad gauge and 7,819 on metre gauge, as against 11,374 and 7,263 on broad and metre gauges respectively during the previous year, marking an increase of 6·69 per cent on broad gauge and 7·36 per cent on metre gauge.

Taking into account non-revenue loadings also, an average of 14,275 broad gauge and 8,670 metre gauge wagons were loaded every day, as against the corresponding figures of 13,407 and 8,026 during the previous year—registering increases of 6·19 and 7·72 per cent respectively.

OPERATIONAL EFFICIENCY

Another indication of the improvement effected during 1956-57 is afforded by the net ton miles per wagon day index, which rose from the previous year's figure of 541 to 570 on broad gauge and from 203 to 210 on metre gauge, an increase of 5·36 and 3·45 per cent respectively.

Passenger train miles increased during the year by 2·70 per cent to 118·75 million, as compared with an increase of 8·01 per cent in passenger miles. Goods train miles totalled 86·64 million, representing an increase of 4·85 per cent over the previous year's figure, the comparable increase in ton miles being 10·4 per cent.

The report also brings out the fact that each wagon was hauled daily an average of 47·7 miles on broad gauge and 28·7 miles on metre gauge, as against 46·3 and 28·5 miles respectively during 1955-56.

Special attention continued to be paid to the provision of amenities for passenger and other railway users at stations and in trains. Works undertaken with the object of making rail travel more comfortable and safe were particularly watched and progressed with care.

Vestibuled de luxe trains between Delhi and Howrah, Delhi and Bombay and Delhi and Madras were introduced during the year and more new stock with improved amenities for upper as well as lower class passengers specially on the long distance trains was placed in service.

During the year, 1,301 new coaching vehicles were placed on line—565 broad gauge, 704 metre gauge and 32 narrow gauge. Of these, 910 were lower class coaches built to improved specifications, 371 being broad gauge, 507 metre gauge and 32 narrow gauge.

Also, 322 broad gauge, 254 metre gauge and 3 narrow gauge new locomotives were placed on the line.

A total of 1,306 third class coaches were fitted with fans during the year.

During the year, departmental catering was introduced on all the Zonal Railways on which it did not exist.

During the year under report, sleeping accommodation for third class passengers was provided on seven pairs of trains, including four pairs of Janata trains. Arrangements were also made for

reservation facilities for third class seating accommodation a week in advance of the date of the journey, from starting stations, from intermediate stations from where sectional coaches run and also from certain other selected intermediate stations subject to a mileage limit generally of not less than 200 miles on broad gauge and 150 miles on metre gauge.

A length of 115·89 miles was opened, of which 95·82 miles represented new lines and 20·07 miles represented restoration of lines dismantled.

569·45 miles of lines were still under construction, including the Khandwa-Hingoli link (187·23 miles), Quilon-Ernakulam (50·32 miles), Indore-Dewas-Ujjain (49·23 miles), Rentwara-Bhildi (43·61 miles), Etah-Barhan (36·27 miles) and certain lines in the steel plant areas.

STORES PURCHASES

Railway purchases during 1956-57 showed a significant increase over the previous years.

The total purchases showed a rise of about 36 per cent to Rs. 171·37 crores during the year, of which the value of indigenous materials amounted to Rs. 125·82 crores. Stores worth 19·85 crores were imported direct while Rs. 25·70 crores worth of foreign stores were purchased through agents in India.

While most of the increase was on indigenous purchases, it was not possible to reduce imports primarily because of increased purchases having to be made for workshop machinery, permanent way material, specialized rolling stock, hardware and electrical equipment not available in the country.

There was a substantial increase in the purchase of Khadi. The total value of purchases of Khadi during the year amounted to Rs 53·99 lakhs as against Rs. 34 50 lakhs during the previous year. Similarly purchases from cottage and small scale industries recorded an improvement of 18 per cent over the previous year, to Rs. 3·78 crores.

The value of railway equipment and stores ordered by the railways during the year amounted to Rs. 248·25 crores, of which Rs. 71·92 crores worth of stores were ordered directly by the railways.

Equipment and stores valued at Rs. 81·01 crores were ordered by the Railway Board, while orders for stores valued at Rs. 68·18 crores were placed through the Ministry of Works, Housing and Supply. The balance of the stores were placed through other Ministries.

The supply position of timber particularly that of teak both from within the country and from imports continued to cause anxiety.

The cement supply position was also not satisfactory. The total allotment stood at roughly 60 per cent of the railways' demands. The steel supply position was equally critical and the back-log of steel requirements continued to mount. It was, therefore, decided that in order to ensure fulfilment of the Plan, the Railway Board would take over procurement by import of track materials with effect from April 1, 1957.

The railways settled 492,962 claims during the year, as compared with 435,694 during 1955-56. The number of claims which remained outstanding at the end of the year stood at 56,891 as against 73,609 at the end of the previous year.

The net amount paid on account of goods or parcels lost or damaged was Rs. 3 33 crores against Rs. 2·56 crores during 1955-56.

No. of passengers detected travelling without tickets: 7,353,340.

Amount of fare and excess realized: Rs. 1,58,02,951.

STAFF MATTERS

The Indian railways are the largest single employers in the country. The total staff on Government railways—permanent, temporary, open line and construction—was 1,054,343 on March 31, 1957, as against 1,024,828 (revised figure) on March 31, 1956. The increase is due principally to the setting up of an organization to cope with various developmental works and projects in connection with the railways' second Five Year Plan.

Salaries including allowance, provident fund and gratuity paid to the staff of the Government railways during 1956-57 totalled Rs. 155·74 crores as against Rs. 148·22 (revised figure) crores during the previous year. The increase was due to the increase in the number of staff, annual increments, contributions to provident fund, special contribution to provident fund, gratuities, etc.

During the year, 9,645 quarters of different types for various categories of staff were constructed.

The medical organization of the railways continued to look after the health of, and provide medical aid to railway servants and their families. In all, 81 well-equipped and adequately staffed hospitals and 434 dispensaries with 3,543 beds provided medical attention and treatment to railway employees and their families. In addition, the maternity and child welfare centres continue their activities, including personal visits by health visitors and supply of milk in certain cases to undernourished children and expectant mothers.

During the year were added 8 new health units, 153 additional indoor beds and 3 mobile vans for the benefit of railway staff working in places away from dispensaries and where train services were not frequent.

Relations between railway administrations and labour were generally satisfactory.

The permanent negotiating machinery set up in 1952 with a view to maintaining contact with labour and resolving disputes and differences which may arise between staff and the administration continued to function satisfactorily during the year under review.

The National Railway Users' Consultative Council met twice during the year and made recommendations on a variety of subjects.

At the railway level, the Railway Users' Consultative Committees representing local interests, held in all 103 meetings.

FIRST FIVE-YEAR PLAN

The target set and the total spent during the First Five-Year Plan is given below:

Rs. crores

	Targets	1951-56 Expenditure
Rolling stock and machinery	207·96	242·09
Track and Bridges ..	70·47	68·03
Other structural engineering works (Perambur Coach Factory, Chittaranjan, collieries, port, etc.)	69·99	68·10
New lines, dismantling, electrification	34·18	33·35
Passenger amenities ..	15·00	13·34
Miscellaneous items ..	2·40	—1·17
	400·00	423·73

The rolling stock acquired during the plan came to 1,586 locomotives, 61,254 wagons, 4,758 coaches. In spite of the large procurement the proportion of over-aged locomotives and wagons was higher at the end than at the beginning of the plan on the broad gauge, though it was lower on the metre gauge. In the position of the coaches there was however, an improvement.

Track renewal was in arrears to the extent of 7,000 miles for rails and 7,000 miles for sleepers.

Dismantled lines with a total mileage of 429·87 were restored and new lines with a total mileage of 379·98 opened for traffic. In addition about 453 miles of new lines were under construction. About 46 miles of narrow gauge lines were converted into metre gauge, and the conversion of 52 miles of metre into broad gauge was in progress.

Electrification of the Howrah-Burdwan main line and of the Tarakeswar branch was also started during the period. The Ganga Bridge project was also taken in hand at a cost of Rs. 16·20 crores and is expected to be completed and open for traffic in 1959.

The most important project completed during the Plan was the Chittaranjan Locomotive Works which during the period produced 341 locomotives. The Integral Coach Factory at Perambur the construction of which was taken in hand in July 1953 at a cost of Rs. 7·35 crores went into production in 1955-56 and had turned out 12 coaches during that year.*

The drive towards self-sufficiency which was one of the main objectives of the Plan had a great measure of success in that indigenous production increased from 3,707 wagons, 673 coaches and 27 locomotives in 1951-52 to 14,314 wagons, 1,221 coaches and 179 locomotives in 1955-56. A start had also been made with the development of indigenous capacity for manufacturing electrical multiple unit coaching stock by placing such orders with an Indian firm †

As a result of certain measures taken there has also been a general improvement in operational efficiency: On the broad gauge, for instance, number of tons originating increased from 70·70 millions in 1950-51 to 87 in 1955-56, wagon miles per day from 38·7 to 46·3, engine miles per engine day from 107 to 111, net ton miles per wagon day from 434 to 541, percentage of engine under repair (fell) from 18·95 to 16·8, number of wagons per goods train (rose) from 47 to 49, net weight in tons per goods train from 479 to 528, train miles per running track mile per day fell from 17·0 to 11·7.

Traffic receipts rose from about Rs. 247 crores in 1950-51 to Rs. 316 crores in 1955-56. Ordinary working expenses rose from about Rs. 165 crores to about Rs. 212·95 crores. The dividend on capital rose from about Rs. 32½ crores in 1950-51 to over 36 crores in 1955-56, reflecting the increase in the capital at charge from Rs. 827 crores to Rs. 969 crores. The depreciation reserve fund fell from Rs. 124 crores to Rs. 103½ crores. The Railway Reserve Fund rose from Rs. 14·4 crores to Rs. 46·9 crores.

Of the Rs. 423·73 crores spent on the First Plan, Rs. 284 crores were provided by the railways from their own resources, which was Rs. 36 crores short of the original figure of Rs. 320 crores planned to be found for them.

* On April 12, 1957, the Factory turned out the 100th coach.

† It is expected that at the end of the Second Plan the Railways would be self-sufficient in locomotives and wagons.

ROADS

THE position of extra-municipal roads metalled and unmetalled as on March 31, 1956 (latest available) was as follows (in miles):—

Metalled				Unmetalled	Total
Bituminous	Concrete	Water-bound macadam	Total surfaced		
28,877	2,363	90,377	121,617	195,051	316,668

The mileage of the national highways is 13,800. The four great trunk roads are 5,000 miles long.

The four great trunk roads, stretching diagonally across the country form the framework with which most of the important subsidiary roads are linked. The most famous is the ancient marching route—known as the Grand Trunk Road - which stretches right across the northern part of the country from Delhi to Calcutta; the other three connect Calcutta with Madras, Madras with Bombay and Bombay with Delhi, and the four of them together account for about 5,000 out of the 121,617 miles of surfaced roads in the country.

The national roads are not "all weather" roads according to modern standards. The Madras-Calcutta Road in particular is far from being bridged throughout its entire length. The missing bridges will not be complete till 1967.

As regards subsidiary roads, the best and most numerous are in South India. The worst served regions are Rajasthan and parts of the Punjab on the one hand, and Orissa and West Bengal on the other, the former owing to its aridity and sparse population, and the latter because of the numerous unbridged and mostly unbridgeable waterways which traverse it. In addition there are numerous other parts of the country, such as the lower Himalayas, which suffer from a dearth of communications owing to difficult terrain.

Besides surfaced roads, there is a very large mileage of "kutcha" roads amounting to approximately 195,051 miles, some of which are good for motor traffic during the dry weather. Of the total length of kutcha roads, 38,130 miles or nearly 20 per cent were constructed under the Community Project and National Extension Schemes during the First Five Year Plan ending March 1956.

The road mileage per 100,000 persons is 82, and per square mile 0·25.

The department in the Central Government which deals with the overall direction of the roads plan and co-ordination of State planning is the Roads Wing under the Ministry of Transport and Communications. The chief official is the Consulting Engineer (Road Development) who is also Joint Secretary to the Ministry of Transport and Communications.

The Roads Wing gives technical advice and arranges for the allocation of Central Road Fund reserves among the States.

An Inter-State Transport Commission has been set up to develop, coordinate and regulate operation of motor vehicles in area or route common to two or more States. Mr. Nagendra Singh, Joint Secretary in the Ministry of Transport is their first chairman.

DEVELOPMENT COMMITTEE

The Road Development Committee of 1928 recommended the creation of a Road Development Fund out of a two-anna share per gallon of the proceeds of the import and excise duties on motor spirit, whose unexpended balances should not lapse at the end of the financial year. The share was later raised to two and a half annas per gallon.

The resolution dealing with the disposal of the Road Development Account at present in force in India was passed by the Indian Parliament in 1960. It says that the special tax on petrol introduced in 1929 shall continue to be levied for road development, the proceeds of which, after retaining a reserve of 20 per cent for administration, research and special grants-in-aid, shall be allocated for expenditure in the different States in the ratio of the petrol consumption in the various areas. These sums may be spent on the construction, reconstruction or substantial improvement of roads and bridges including the cost of preparation of road schemes —but not for ordinary road upkeep or maintenance—on interest and amortization charges on road loans sanctioned hitherto by the Government of India and also on administration of State Boards of Communications and establishment connected with the control of motor transport.

Upto the end of March 1955 total receipts in the Central Road Fund since its inception were about Rs. 534 crores and those in the Central Road Fund Reserve since its inception were about Rs. 10 crores.

In the beginning of 1958 the annual revenue accruing to the Fund amounted to roughly Rs 54 crores including credits to the Special Reserve of about Rs. 1 crore per annum For the first 15 years after its inauguration the Central Road Fund was the main source of revenue for the construction of new roads or the improvement and modernisation of existing ones However in the beginning of 1958 this Fund represented hardly 7 per cent of the total tax revenue from motor transport. 10 per cent of the total expenditure on original road works provided for in the Second Five Year Plan and 7 per cent of the gross expenditure on roads inclusive of the maintenance cost of the road system.

On the administrative side roads except for the small mileage of National Highways described later are a State subject and may be divided into two main classes, State Roads under the Public Works Department and Local Roads in charge of local bodies.

India's road system is grossly inadequate for the country's needs and a comparison with other advanced countries will show how great is the leeway that has to be made.

For example, the road mileages per 100 square miles of area are 304 in the United Kingdom, 300 in France, 100 in the U.S.A., 80 in Italy and 38 in Ceylon. India's road mileage for the same area is 25, representing less than one-twelfth of the U.K. and two-thirds of Ceylon

NAGPUR PLAN

Following persistent representations from the Indian Roads and Transport Development Association of Bombay, the need for a more adequate programme of road development than could be carried out from the Central Road Fund was accepted by the Government of India in 1943.

In December 1943 the Chief Engineers of the various States met in conference at Nagpur and evolved a road plan based on the minimum needs of the country. Adopting as their objective the very modest proposition that no village in a well-developed agricultural area should remain more than 5 miles from a metalled road, the Chief Engineers recommended the increase of Indian Union's road mileage from 220,000 to 331,000 of which 123,000 miles would be metalled.

The net increase in road mileage under this Plan, now known as the Nagpur Plan works out at 50 per cent.

While the Government of India as well as the State Governments endorsed these recommendations in general terms, there was no general acceptance of a time-limit for the implementation of the plan.

However, five-year programmes for commencement from April 1947 and representing varying proportions of the Nagpur scheme were prepared by the States for their respective areas as part of their post-war reconstruction programmes.

These Programmes, exclusive of National Highways were estimated to cost nearly Rs. 120 crores over a five-year period, and were intended to embrace the construction or improvement of 80,000 miles of roads as under:

State & District Roads.

Mileage improvement	33,393
Mileage, new construction	17,509

Village Roads.

New construction & improvement ..	30,098

Progress in the implementation of this post-war reconstruction Plan was however most disappointing. Owing first to shortage of material and later of funds Uttar Pradesh, the Punjab, Orissa and many other States had to abandon large portions of their plans. Consequently development works on the scale required by the Nagpur Plan could not be undertaken till the First Five Year Plan of 1951.

During the eight years ending March 1951, India's road mileage increased by just 28,509 miles or roughly 13 per cent. Thus at the beginning of the First Five Year Plan, India had 248,509 miles of roads, of which 97,546 miles were metalled and the remaining 150,963 miles unmetalled

FIRST FIVE YEAR PLAN

A provision of Rs 156 crores was made for road development during the First Five Year Plan period ending March 1956 Physical achievements during the 5-year period consist of 24,071 miles of new metalled roads, and 44,088 miles of new unmetalled roads making 68,159 miles of new roads in all In addition 17,311 miles of existing roads were also improved to better standards Of the new roads, 23,900 miles were constructed by Public Works Departments or Local Boards, while 44,259 miles were constructed by Community Project and N.E.S. Administrations.

At the beginning of the Five Year Plan, the mileages remaining to be constructed, in order to reach the targets of the Nagpur Road Plan, were 25,454 miles of metalled roads and 57,037 miles unmetalled roads, making a total of 82,491 miles in all.

SECOND FIVE YEAR PLAN

The provision for road development in the Second Five Year Plan is Rs. 269 crores, against Rs. 156 crores in the First Plan. Details are as under: –

(Rs in Crores)

	2nd 5-Year Plan April 1956 to March 1961	1st 5-Year Plan April 1951 to March 1956
National Highways ..	55	27·00
State Roads financed by the Union Government	9	4·24
Central Aid for roads of inter-State or economic importance ..	18	10·00
State Roads	162	89·75
Central Road Fund ..	25	25·00
Total ..	269	155·99

During the Second Plan it is expected that 22,000 miles of metalled roads and 40,000 miles of unmetalled roads will be added to the road system, thereby completing the Nagpur Plan in terms of total mileages, taking India as a whole but the actual position will be that a few areas will have road systems slightly larger than the minimum size laid down in the Nagpur Plan while many other areas will still be short of the Nagpur targets. Moreover at the end of the Second Plan there will be hundreds of unbridged river crossings whose number, on National Highways alone, will be 56.

NATIONAL HIGHWAYS

The Central Government, as part of their contribution towards post-war development accepted liability for the construction and maintenance of the National Highways with effect from 1st April 1947.

On 1st April, 1947 the total length of the roads provisionally accepted as national highways was 13,400 miles. Consequent on partition and the integration of the former princely states with the Indian Union the total length of these roads increased to about 13,800 miles. On the 1st of April 1947 the selected national highway routes had approximately 1,600 miles of missing road links and thousands of missing culverts and bridges out of which about 150 were bridges on large rivers. In addition, about 9,000 miles of these roads had low-grade surface.

Up to the beginning of the First Five Year Plan, i.e. up to the end of 1950-51 about 110 miles of missing links and 3 large bridges were constructed and about 1,000 miles of existing roads improved. A total expenditure of Rs. 623·49 lakhs was incurred on the development of National Highways from 1947-48 to 1950-51.

During the 5 years ending March 1956, 636 miles of missing links and a large number of culverts and bridges including 30 major bridges were constructed, about 4,000 miles of existing sections improved and provided with one lane asphalted carriageway, and about 400 miles of the improved sections made fit for two-lane traffic.

At the end of the First Plan, work was in progress on the construction of 614 miles of missing links and hundreds of culverts and bridges, including 42 major bridges, the improvement and asphalting of nearly 3,000 miles and the provision of two-lane carriageway on about 300 miles of National Highways.

About 1,200 miles of missing links and new diversions (including 614 miles in progress at the end of the First Plan period) were proposed to be taken in hand under the Second Plan. Out of these 1,200 miles, about 900 miles are expected to be constructed during the Second Plan period. The balance of work will be carried over to the Third Plan period. With the construction of 900 miles of new lengths in the national highways system, the actual length of National Highways will rise from 12,900 miles as at the end of the First Plan period to 13,800 miles by the end of the Second Plan period. That is to say, all missing road links in the national highway system are expected to be constructed by the end of the Second Plan period.

Besides the construction of the missing links, it is proposed to take in hand during the Second Plan period the construction of 116 major bridges (including 42 bridges in progress at the end of the First Plan), the improvement and asphalting of 4,700 miles of existing sections (including 3,000 miles in progress at the end of the First Plan) and the widening of 3,300 miles (including 300 miles in progress at the end of the First Plan) of the improved sections of National Highways to two-lane carriageway. It is expected that during the Second Plan period, 60 major bridges will be completed and 1,500 miles of improved sections widened to two-lane carriageway. Work on the improvement and asphalting of 4,700 miles of existing sections of National Highways is expected to be completed during the Second Plan period.

Road Mileage in States added during the First Five-Year Plan Period ending 31st March 1956

(Including Community Project and N.E.S. Block Roads)

States*	Mileage added during the First Plan Period.		
	Surfaced	Unsurfaced	Total
Andhra		Included in Madras.	
Assam	112	4,855	4,967
Bihar	1,441	2,556	3,997
Bombay	2,136	1,049	3,185
Madhya Pradesh	1,816	695	2,511
Madras	4,687	1,929	6,616
Orissa	599	2,057	2,656
Punjab	1,020	3,108	4,128
Uttar Pradesh	1,492	9,196	10,688
West Bengal	1,235	1,943	3,178
Hyderabad	576	833	1,409
Jammu & Kashmir	423	881	1,304
Madhya Bharat	1,018	441	1,459
Mysore	2,839	1,306	4,145
PEPSU	314	858	1,172
Rajasthan	2,006	4,357	6,363
Saurashtra	628	1,076	1,704
Travancore-Cochin	518	557	1,075
Ajmer	17	476	493
Bhopal	231	1,085	1,316
Coorg	206	2,103	2,309
Delhi	47	140	187
Himachal Pradesh	149	1,055	1,204
Kutch	24	327	351
Manipur	221	311	532
Tripura	42	187	249
Vindhya Pradesh	254	707	961
Andaman & Nicobar Islands	—	—	—
N.E.F.A.		Included in Assam.	
Total	24,071	44,066	68,159

* Pre-reorganization.

Progress of Development Expenditure on Roads in the First Five-Year Plan.

(In lakhs of rupees)

Authority	1951-52 Actuals	1952-53 Actuals	1953-54 Actuals	1954-55 Actuals	1955-56 Revised Estimates	Total 1951-56
Central Government	383·8	414·8	581·2	651·8	1,422·7	3,454·3
*States**						
PART 'A'						
Andhra	88·1	53·2	35·0	25·7	20 5	22·5
Assam	2·4	15·9	55·7	77·4	123·2	274 6
Bihar	202·1	202·4	115 4	185·2	384 0	1,089·1
Bombay	173·2	398·5	534·2	641·7	692·5	2,440·1
Madhya Pradesh	45·2	44·6	41·0	38·8	35 9	205·5
Madras	92·7	72·9	48·8	25 6	57·4	297·4
Orissa	17 7	24·4	40·7	60·3	76 8	219·9
Punjab	21·3	22·8	54·7	173·9	143·6	356·3
Uttar Pradesh	101·3	106·2	106·4	111 8	116 2	541·9
West Bengal	212 6	251·4	347·5	227·1	330·1	1,368·7
Total	956·6	1,192·3	1,379·4	1,507 5	1,980 2	6,816·0
PART 'B'						
Hyderabad	28·7	17·4	26·9	37·6	22 9	133·5
Madhya Bharat	15·2	31·2	32 8	47·8	93·9	220·9
Mysore	37·5	60·9	102·9	12·4	37·0	250·6
PEPSU	6·6	23·7	32·4	53·5	75·6	191·8
Rajasthan	15·5	38 4	105·3	169·2	195·8	524·2
Saurashtra	24·5	69 0	43·3	97 0	194 6	428·4
Travancore-Cochin	17·7	43 1	51 9	66·5	85·2	264 4
Jammu & Kashmir	9 0	14·2	45·8	76·4	110 3	255·7
Total	154·7	297 9	441·3	560·4	815·3	2,269·5
PART 'C'						
Ajmer	0·6	1·2	3·2	6·2	10·5	21·7
Bhopal	2·8	5·1	10 6	14 6	9·1	42·2
Coorg	2·3	0·9	5 4	8·7	12·7	30·0
Delhi	0·5	2·0	6·7	7 6	6·0	22 8
Himachal Pradesh	9 6	26·4	67 5	41·1	74·8	219·4
Kutch	4·8	15·7	5·9	7·0	13 9	47·3
Manipur	..	11 6	13·7	14·1	15·9	55 3
Tripura	3·7	9·9	15 0	15·0	29·3	72·9
Vindhya Pradesh	12·2	10·2	13·8	29 3	38·9	104·4
Total	36·5	83·0	141·8	143·6	211·1	616·0
Total: Part A. B: & C, States	1,147·8	1,573·2	1,962·5	2,211·5	3,006·6	9,701 5
Andaman & Nicobar Islands	.	..	..	..	..	..
Pondicherry	..	..	..	0·8	10·0	10·8
N.E.F.A.	11·7	8·2	18·5	17·6	24·6	80·6
Total Other Territories	11·7	8·2	18·5	18·4	34·6	91 4
Total: States	1,159·5	1,581·4	1,981·0	2,229·9	3,041·2	9,992·9
Central Road Fund	304·5	388·0	335·62	585·62	595·0	2,208·7
GRAND TOTAL Centre and States	1,847·8	2,384·1	2,897·8	3,467·3	5,058·9	15,655·9

* Before the re-organization in Nov. 1956.

REVENUE FROM MOTOR TRANSPORT

In 1955-56 the expenditure on roads, it is estimated, amounted to Rs. 73 crores made up of Rs. 52 crores on construction works and Rs. 21 crores on road maintenance. The Governments at the Centre and in the States realized in the year an equal amount of revenue from motor transport, as under :—

	Revenue, approx. 1955-56 (Rs. in Crores)
Central Revenues.	
Motor Spirit and Diesel Oil Duties	32·26
Tyre Excise and Import Duties	5·65
Vehicle Parts Imports Duties	10·26
	48·17
State Revenues.	
Vehicle Taxes and Petrol Sales Taxes, etc.	25·25
	73·42

MOTOR VEHICLES

The number of motor vehicles in use in India in March 1956 was 418,067. In terms of the population of the country, this represents 89 vehicles per lakh of inhabitants. Corresponding figures for some of the other countries are: Ceylon, 803; Spain, 809; Great Britain, 9,595 and France, 9,079. These figures show how inadequate is the volume of motor transports in India.

The 418,067 vehicles operating in India in March 1956 were distributed among the various States as shown in the table on next page.

STATEMENT SHOWING THE NUMBER OF DIFFERENT TYPES OF VEHICLES IN INDIA

Motor Vehicles, 31st March 1956.

Name of State ‡	Motor Cycles	Auto-rick-shaws	Jeeps	Private Motor Cars	Motor Cabs			Buses			Goods Vehicles			Miscellaneous Vehicles			Total
					Petrol	Diesel	Others	Petrol	Diesel	Others	Petrol	Diesel	Others	Petrol	Diesel	Others	
Andhra (1954-55)† ..	1,092	..	.	6,336	52	..	..	1,964	496	..	2,477	843	..	160	42	..	13,462
Assam (1954-55)† ..	544	..	..	5,103	956	..	..	701	59	..	4,972	25	..	2,416	152	..	14,928
Bihar	1,799	32	.	7,641	424	..	..	1,352	345	..	4,812	43	..	396	..	..	16,844
Bombay	8,307	741	1,225	44,421	4,143	..	85	1,603	4,029	71	20,024	1,816	..	1,220	1,142	79	88,904
Madhya Pradesh .	2,061	1	1,001	7,305	337	..	..	1,592	348	..	4,652	379	..	762	142	113	18,753
Madras†	3,702	..	.	20,101	1,042	1	..	2,128	2,543	..	4,940	2,335	..	601	63	..	37,456
Orissa	800	.	8,331	2,251	3	..	..	808	86	110	3,237	183	179	94	2	22	8,608
Punjab†	1,318	..	..	3,366	109	..	..	1,769	239	..	2,815	718	..	284	406	..	11,024
U.P.	3,591	1	909	13,225	307	..	..	4,269	447	13	9,614	1,003	..	1,294	4	..	34,737
West Bengal(1952-53)†	2,831	..	..	27,278	5,387	..	..	8,425	..	..	25,918	..	..	74	..	..	69,913
Hyderabad	3,027	65	624	7,566	273	..	..	752	704	24	3,428	1,049	2	210	37	..	17,761
Jammu and Kashmir (1954-55)†	42	..	..	624	61	.	..	524	8	..	1,249	66	..	4	1	..	2,579
Madhya Bharat ..	358	18	192	2,308	53	..	..	691	99	..	1,579	222	..	157	295	..	5,972
Mysore	1,795	156	182	5,722	179	..	..	1,368	195	..	2,994	140	..	18	..	..	12,749
PEPSU (1953-54)† ..	441	..	..	1,709	16	..	..	844	6	..	896	8	..	1,239	2	..	5,161
Rajasthan .. .	992	..	379	6,607	120	..	..	2,527	50	..	4,112	110	..	1,374	368	51	16,690
Saurashtra	542	159	..	2,014*	378	..	..	460	123	..	2,461	108	..	..	147	..	7,292
Travancore-Cochin† ..	382	..	..	8,906	457	..	..	1,056	153	..	1,978	183	..	1	..	..	8,116
Ajmer (1954-55)† ..	118	..	..	1,147	26	..	..	126	2	..	207	..	..	1	32	..	1,659
Bhopal . ..	105	..	266	349	2	.	..	105	3	..	518	6	..	2	96	..	1,452
Coorg	41	..	57	264	28	..	..	79	26	..	424	54	..	..	..	50	1,023
Delhi	4,071	666	492	8,775	1,115	..	..	317	386	20	1,936	327	41	..	..	15	18,161
Himachal Pradesh ..	11	..	..	213	31	..	..	70	11	..	122	20	..	19	..	..	497
Kutch	90	..	..	421	75	..	..	80	..	..	378	..	..	43	..	..	1,087
Manipur	36	..	139	36	3	..	..	32	..	..	381	10	..	83	..	..	720
Tripura	9	..	164	77	23	..	..	140	1	..	298	..	..	..	6	41	759
Vindhya Pradesh ..	76	..	..	457	3	..	..	214	8	..	600	8	..	..	176	..	1,542
Andamans and Nicobar Islands ..	29	..	14	21	11	..	..	11	..	..	87	..	..	44	1	..	218
Grand Total ..	38,210	1,839	6,475	1,80,203	15,674	1	85	34,007	10,367	238	1,07,100	9,656	222	10,496	3,114	371	4,18,067

* Including jeeps

† Auto-rickshaws and jeeps not indicated separately.

Corrigendum in Nov. 1956

MILEAGE OF EXTRA-MUNICIPAL ROADS IN INDIA AS ON 31st MARCH 1956.
(Including Community Project & N.E.S. Roads).

States*	Black topped	Concrete	Water-bound macadam	Total surfaced	Unsurfaced	Total
Andhra	1,162	146	11,879	13,187	4,119	17,306
Assam	1,210	1	270	1,481	14,854	16,335
Bihar	3,374	12	1,370	4,756	31,844	36,600
Bombay	1,676	796	12,119	14,591	12,415	27,006
Madhya Pradesh	1,062	1	7,220	8,283	6,289	14,572
Madras	4,732	222	13,138	18,092	10,528	28,620
Orissa	572	..	2,661	3,233	8,079	11,312
Punjab	3,036	2	630	3,668	9,719	13,387
Uttar Pradesh	3,195	537	7,940	11,672	34,481	46,153
West Bengal	2,460	154	2,116	4,730	22,152	26,882
Hyderabad	208	62	5,712	5,982	2,653	8,635
Jammu & Kashmir	439	..	680	1,119	1,429	2,548
Madhya Bharat	550	25	4,458	5,033	675	5,708
Mysore	1,294	164	8,378	9,836	4,314	14,150
PEPSU	815	1	94	910	1,114	2,024
Rajasthan	1,725	22	3,611	5,358	11,775	17,133
Saurashtra	84	165	2,257	2,506	2,521	5,027
Travancore-Cochin	105	45	2,854	3,004	4,451	7,455
Ajmer	170	..	231	407	522	929
Bhopal	128	..	528	656	1,571	2,227
Coorg	151	..	391	542	2,153	2,695
Delhi	268	5	37	310	146	456
Himachal Pradesh	61	..	147	208	3,988	4,196
Kutch*	39	.	238	277	399	676
Manipur	207	..	46	253	501	754
Tripura	18	..	134	152	533	685
Vindhya Pradesh	190	3	1,238	1,471	1,826	3,297
Total	28,877	2,363	90,377	121,617	195,051	316,668

* Prior to reorganization

NATIONALISED TRANSPORT

Programmes for nationalisation of road transport have occupied a prominent place in the plans of State Governments from 1946 onwards. In April 1951 nationalised bus services had a total fleet of about 8,000 vehicles. By the end of the first Five Year Plan, *i.e.*, in March 1956, the total number of such vehicles increased to approximately 11,000 representing about 27 per cent of the passenger services in the country and 2 per cent of freight transport.

Nationalised bus services are estimated to cover in 1958 the whole of Bombay State and Himachal Pradesh as they existed prior to the States' reorganisation.

No nationalisation has taken place in the areas covered by the old States of PEPSU, Ajmer, Bhopal, Coorg, Tripura and Vindhya Pradesh but in the remaining parts of the country the extent to which services have been nationalised varies from one State to another, some having started only experimental nationalisation while in others anything up to half of the bus services are under State ownership.

Uttar Pradesh, which, next to Bombay, has the largest nationalised fleet, operates buses on half the mileage of metalled roads of the State, spread over, more or less uniformly, from one end of the State to the other. Nationalised buses in U.P. represent a little over one-third of the total number of buses in operation. Next in importance is the area covered by the old Hyderabad State where roughly half the bus routes were operated by the nationalised services. In Travancore-Cochin, now part of Kerala, arterial routes covering a mileage of 700, out of 4,500 miles of motorable roads in Travancore and Cochin were operated by State buses. In Madras, nationalisation is confined to the limits of Madras City. Likewise West Bengal has nationalised transport in and around the city of Calcutta in addition to the Cooch Behar area. In Bihar, State services operate in areas around Patna, Jamshedpur, Gaya, Ranchi, Monghyr and Bhagalpur. In Orissa they are operated around Puri, Bhubaneshwar, Balasore, Berhampur and Koraput. Similarly in Punjab, Jullundur, Ambala and Amritsar are centres of nationalised services. In addition to the City of Delhi, nationalisation has also taken place in parts of Assam, the old Madhya Pradesh, Madhya Bharat and Mysore.

Freight transport is operated by certain State Transport organisations such as those in Assam, Bombay, Uttar Pradesh, Jammu & Kashmir and Himachal Pradesh. While these freight lorries as a rule operate on charter basis or on scheduled parcel services without monopoly, the State Transport in Assam has a monopoly of the truck traffic on 68 miles of roads.

Expansion of nationalisation during the Second Plan period ending March 1961 will be confined to passenger services. The allocations in the Second Plan will permit of the number of nationalised vehicles being increased from 11,000 to 16,000. Of the additional 5,000 vehicles, 781 are expected to go to Bombay, 753 to West Bengal, 460 to Travancore-Cochin (now Kerala), 430 to Bihar, 334 to Delhi, 278 to Orissa, 237 to Assam and 101 to Uttar Pradesh.

NUMBER OF NATIONALISED VEHICLES, 1954

The following table gives details regarding the number of nationalised vehicles in the States as in 1954.

States*	Buses	Goods Trucks	Taxis	Total
PART 'A'				
Assam	143	92	14	249
Bihar	275	—	—	275
Bombay	3,813	835	—	4,648
Madhya Pradesh	260	—	—	260
Madras	382	—	—	382
Orissa	127	—	—	127
Punjab	235	6	—	241
Uttar Pradesh	1,538	218	50	1,806
West Bengal	316	—	—	316
PART 'B'				
Hyderabad	775	—	—	775
Jammu and Kashmir	52	369	29	450
Madhya Bharat	268	—	—	268
Mysore	196	—	—	196
Rajasthan	14	1	1	16
Saurashtra	78	—	—	78
Travancore-Cochin	452	—	—	452
PART 'C'				
Bilaspur	3	7	—	10
Delhi	304	—	—	304
Himachal Pradesh	229	82	—	311
Kutch	77	—	—	77
Manipur	19	32	—	51
Nationalised vehicles in 21 Administrations	9,556	1,642	94	11,292
Non-nationalised vehicles in the same Administrations	26,426	85,825	13,492	1,25,743
Total, nationalised and non-nationalised vehicles in the same Administrations, estimated excluding miscellaneous vehicles	35,982	87,467	13,586	1,37,035
Percentage of nationalised to total	26·55	1·88	0·69	8·24

* Pre-reorganization.

INLAND WATER-WAYS

IN pre-railway days inland navigation played an important role in the transport system of the country. The decline began with the construction of railways in 1855. While the railways received every assistance the water transport was allowed to languish.

Part of the reason for the decline was that large volumes of water were drained off for irrigation thus helping to depress the level of the water. This happened more particularly on the Ganga.

Inland water transport has remained essentially within the sphere of State control. To some extent this is inevitable. Short distance waterway cannot be usefully controlled by a Central authority.

But the position of water-ways traversing more than one State or connecting economically important regions with major ports appears to be different. The State Governments may not have the necessary resources for development. Whether inland water transport can compete with other quicker modes of transport is doubtful. But there are regions such as Assam, for example, where the economy depends to a great extent on water transport. There are also areas where water transport can help relieve congestion in rail transport.

It has come to be recognised that the most rational way to deal with a river is to treat it as a unit from the source to the mouth irrespective of administrative boundaries. Also the utilisation of the water resources of a river should, as far as possible, be on a multi-purpose basis.

Some canals constructed for irrigation have included provision for navigation.

The present constitution, therefore, provides for control by the Central Government of navigation on inter-State rivers and national water-ways. Besides, the Central Water and Power Commission has assisted in the co-ordinated multi-purpose development of the water resources of the country.

The Inland Steam Vessels Act of 1947 was amended in 1951 so that now there is compulsory registration of all inland steam vessels.

Government set up the Ganga-Brahmaputra Water Transport Board in 1952 which co-ordinates and stimulates the navigational activities of the States of U.P., Bihar, West Bengal and Assam.

The whole problem of the development of inland water transport is now under examination by an Enquiry Committee under the chairmanship of Mr. B. K. Gokhale, I.C.S. (Retd.).

Looking back on the state of navigation on the main rivers about a hundred years ago, it is noticed that large steamers plied on the Brahmaputra upto Dibrugarh; on the Ganga as far as Gurmukteshwar, over 700 miles above Patna; and Kanpur, *en route*, presented the appearance of a large port; on the Yamuna as far as Agra; and on the Ghagra, only 30 years ago, a regular service was maintained upto Ayodhya, 200 miles upstream of its confluence with the River Ganga.

Today long stretches of rivers formerly navigable have become shallow and are not used for navigation. Navigation can be restored only by deepening the channel or by using craft specially designed for shallow waters.

PRESENT POSITION

At present steamers ply regularly on the Brahmaputra river upto Dibrugarh but on the Ganga as far as Patna only with feeder services upto Buxar on the Ganga and Barhaj on the Ghagra.

There are other parts of the country where canal navigation is still active. In Andhra and Madras States for instance, the Godavari Canals, including the Dummagudu Canal, the Kistna Canals, the Buckingham Canal and the Vedaranniyam Canals are important highways for water-borne traffic.

The Godavari and Kistna Delta canals in Andhra are indeed an important means of transport in that region and afford a cheap and ready mode of access to all markets.

The Buckingham Canal in Madras has played an important part in the trade of the country traversed by it, and in particular during the last war when the traffic was heavy it afforded appreciable relief to the railways.

On the west coast in Kerala the backwaters form the chief means of communication and transport.

In Orissa, too, there are some 200 miles of navigable canals in use.

Then there are the important water-ways of West Bengal, comprising besides the delta river system, also the canals around Calcutta.

The records of imports and exports into and from Calcutta show the extent to which the largest seaport in India depends upon its water-way communications. Post-partition figures show that 12 per cent of the trade of the port arrives and leaves by water-ways.

By far the greater proportion of the water-borne traffic of the country is carried by the unorganised country-boats. Reliable figures are not available as to the total ton-miles of traffic thus moved.

It has been estimated, however, that this would amount to only about one per cent of the total railway traffic of the country.

The approximate length of navigable water-ways at present in India is as follows:—Uttar Pradesh, 745 miles; Bihar, 715 miles; West Bengal, 777 miles; Assam, 920 miles; Orissa, 287 miles; Madras and Andhra, 1,700 miles; Total, 5,144 miles.

The above mileages are approximate and take into account only the main water-ways navigable by steamers and large country-boats. They do not include the numerous tidal creeks on the coasts which are not connected to an inland water-ways system.

Out of 5,144 miles of navigable water-ways 1,762 miles are navigated by steamers, details of which are given below:—

	Miles
River Ganga—Patna to Laigola (Border)	315
Patna to Buxar (Feeder service)	100
River Ghagra—Confluence Ganga, Ghagra to Barhaj	97
River Hooghly—Calcutta to Sundarbans (Border)	150
River Brahmaputra—Dibrugarh to Dhubri (Border)	400
(Feeder services on tributaries) ..	375
(Feeder service in Surma Valley) ..	85
River Bhagirathi—Calcutta to Ganga River (during rains only).	180
River Brahmaputra—Dibrugarh to Sadiya (during rains only) ..	60
Total	1,762

FUTURE

1. **Uttar Pradesh**: (*a*) Revival of navigation of the Ganga river, Patna-Buxar-Allahabad. (*b*) Revival of navigation on the Ghagra river upto Bahram Ghat.

2. **Bihar**: (*a*) Navigation on the Kosi river is included in the programme of the Kosi Dam Project. (*b*) Development of navigation on the Ganduk river. (*c*) Development of navigation on the Son river, feasible with the construction of the Rihand Dam.

3. **West Bengal**: (*a*) The construction of a navigation canal from Durgapur to the Hooghly river to connect the coal-fields in West Bengal and Bihar with the port of Calcutta, is included in the programme of the Damodar Valley Project. (*b*) Resuscitation of the Bhagirathi route affording a direct and much shorter navigation connection from the port of Calcutta to Bihar and U.P.

Work on (*a*) is in progress.

4. **Orissa**: (*a*) Resuscitation of the Orissa coast canal to restore the connection between the Hooghly and Dhamra rivers. (*b*) The Mahanadi Valley Project makes provision for the development of navigation on the Mahanadi river upto Hirakud dam, about 300 miles from the sea.

5. **Assam**: The various tributaries of the Brahmaputra offer considerable scope for development of navigation.

6. **Madhya Pradesh**: Provision for navigation of the Narmada river is aimed at in the investigations in progress on the Narmada Valley projects.

7. **Bombay**: The construction of dams on the Narmada and Tapi rivers will provide navigational facilities on these rivers. The Kakrapar dam will help provide navigation in the surrounding area.

8. **Andhra**: Development of the Kistna, and Godavari rivers could also provide navigational facilities.

A priority list has been drawn up in accordance with which it is proposed to develop navigation. In the first stage it is proposed to extend navigation on the Ganga river above Patna as far as Allahabad.

An Inland Water Transport expert, Mr. J. J. Surie of Holland who visited India, inspected the waterways of the Ganga, Ghagra and Brahmaputra rivers, suggested a shallow-craft push two pilot projects comprising a fleet of two 250 B.H.P. tugs and eight 100-tow barges. On the basis of his recommendations, further surveys were undertaken at the instance of the Ganga-Brahmaputra Water Transport Board by the Central Water and Power Commission on the Ganga and Ghagra rivers. He also prepared the designs. Orders for the craft have been placed and on their procurement the project will be started. The cost of the craft is about Rs. 26 lakhs. This is being met out of a special grant given by the Government of India.

Mr. Surie had also recommended two other projects *viz.*, a project for the development of shallow draught navigation with smaller craft on the feeder rivers of the Brahmaputra and of a diesel operated ferry vessel on the Brahmaputra. These have been included in the scheme of financial assistance agreed to by the Planning Commission during the Second Five-Year Plan period.

Surveys are now in progress for drawing up specifications of the craft required for the Assam Feeder river project. The specifications for the diesel ferry vessel across the Brahmaputra have been finalised.

In addition to these two projects, it is proposed to execute development works to the extent of Rs. 150·22 lakhs in the Ganga-Brahmaputra region as a part of the Second Plan. These include dredging of important waterways, provision of aids to navigation such as radio telephony and automatic beacons, and the development of inland port facilities at selected places such as Gauhati, Pandu, Dhubri, Karimganj, Patna and Manihari.

Survey work at Pandu is finished. A scheme has been prepared for building a modern port there for inland craft. The scheme is likely to be implemented in stages.

Arrangements are also being made to provide automatic beacons on the Sundarbans during 1957.

The Ganga-Brahmaputra Water Transport Board has to meet a recurring expenditure of about Rs. 50 lakhs during the five-year period.

For South India, the following schemes have been selected for investigation and provision as shown against each has been made in the Second Five-Year Plan:—

Development of the Buckingham Canal including the linking up of the canal with the Madras Harbour .. .. Rs. 115 lakhs.

Development of West Coast Canals.. .. .. .. Rs. 43 lakhs.

Investigations relating to the first project are in progress.

OVERSEAS COMMUNICATIONS SERVICE

Allotment under the First Five-Year Plan . . . Rs. one crore.

Allotment under the Second Five-Year Plan . . Rs. 2 crores.

Overseas Communications Service is a State activity working directly under the Ministry of Communications and Transport on commercial lines, with the Head Office at Bombay. Its functions are provision, operation and development of all facilities for communication between India and the outside world.

The chief administrative head of the Service is the Director General, Overseas Communications Service.

The Service has two main branches, *viz.* Traffic and Engineering. The Traffic branch is under the control of the Dy. Director General (Traffic) and the engineering branch is under the control of the Chief Engineer.

The Overseas Communications Service has four gateway centres for handling international communications. The Bombay Centre has its transmitting station at Kirkee, receiving station at Dhond and the Central Traffic Office at Bombay. The transmitting and receiving stations as well as the Central Traffic Office are interlinked by wired wireless circuits.

Calcutta centre has its transmitting and receiving stations at Halishahar and Hatikanda about 30 and 36 miles respectively from the main Traffic Office at Dalhousie Square, Calcutta.

Delhi Centre is still worked on a temporary basis but it will have soon its main transmitting station at Kalkaji* and receiving station at Chattarpur* connected to the Traffic Office at Connaught Circus, New Delhi.

Madras is a cable station but it will soon have a radio centre with its transmitting station at Korattur and receiving station at Padianellur connected to the Central Traffic Office in the General Post Office buildings, Madras.

The following radio services are now operated by India :—

	Date of Inauguration
1. India-United Kingdom Wireless Telegraph Service	23-7-27
2. India-United Kingdom Radio-Telephone Service	1-5-33
3. India-Australia Wireless Telegraph Service	14-1-42
4. India-China Wireless Telegraph Service	25-2-42
5. India-United States of America Wireless Telegraph Service (*via* Mackay)	15-8-44
6. Delhi-London Wireless Telegraph Service	29-8-44
7. India-United Kingdom Radio-Photo Service	29-4-48
8. India-United States Radio-Photo Service	29-4-48
9. India-Afghanistan Wireless Telegraph Service	12-1-50
10. India-Japan Wireless Telegraph Service	17-8-50
11. India-Indonesia Radio-Telephone Service	2-10-50
12. India-Indonesia Wireless Telegraph Service	1-2-51
13. India-Thailand Wireless Telegraph Service	15-3-51
14. India-Russia Wireless Telegraph Service	18-6-51
15. India-Egypt Radio-Telephone Service	2-7-51
16. India-United States of America Wireless Telegraph Service (*via* RCA)	2-7-51
17. India-Iran Radio-Telephone Service	1-8-52
18. India-Japan Radio-Telephone Service	14-8-52
19. Calcutta-London Wireless Telegraph Service	12-3-53
20. India-East Africa Radio-Telephone Service	18-8-53
21. India-Hongkong Radio-Telephone Service	23-12-53
22. India-Switzerland Radio-Telephone Service	1-3-54
23. India-Bahrain Radio-Telephone Service	15-5-54
24. India-Malaya Radio-Telephone Service	16-6-54
25. India-Aden Radio-Telephone Service	15-10-54
26. India-Saigon Wireless Telegraph Service	18-10-54
27. India-China Radio-Photo Service	19-10-54
28. Delhi-Peking Wireless Telegraph Service	3-1-55
29. India-China Radio-Telephone Service	2-3-55
30. Delhi-London Radio-Photo Service	2-3-55
31. India-Burma Radio-Telephone Service	24-3-55
32. India-Russia Radio-Telephone Service	4-6-55
33. India-Russia Radio-Photo Service	8-6-55
34. India-Poland Wireless Telegraph Service	21-6-55
35. India-Poland Radio-Telephone Service	22-6-55
36. India-Yugoslavia Wireless Telegraph Service	30-6-55
37. India-Burma Wireless Telegraph Service	15-8-55
38. Calcutta-London Radio-Telephone Service	30-12-55
39. Calcutta-Saigon Radio-Telephone Service	12-1-56
40. India-Japan Radio-Photo Service	25-1-56
41. India-Iran Wireless Telegraph Service	16-2-56
42. India-Australia Radio-Telephone Service	19-7-56
43. India-Hanoi Wireless Telegraph Service	2-9-56
44. India-France Wireless Telegraph Service	25-10-56
45. India-France Radio-Telephone Service	25-10-56
46. Delhi-London Radio-Telephone Service	26-10-56
47. India-Egypt Wireless Telegraph Service	5-11-56
48. India-Ethiopia Radio Telephone Service	25-11-56
49. India-Saudi Arabia Radio Telephone Service	30-3-57

DIRECT RADIO-TELEGRAPH SERVICES

The following links are in operation :

(*a*) Bombay-London ; (*b*) Delhi-London ; (*c*) Bombay-Shanghai ; (*d*) Bombay-New York ; (*e*) Bombay-Melbourne ; (*f*) Bombay-Tokyo ; (*g*) Delhi-Moscow ; (*h*) Bombay-Kabul ; (*i*) Bombay-Djakarta ; (*j*) Bombay-Bangkok ; (*k*) Calcutta-London ; (*l*) Bombay-Saigon ; (*m*) Delhi-Peking ; (*n*) Bombay-Warsaw ; (*o*) Bombay-Belgrade ; (*p*) Calcutta-Rangoon ; (*q*) Bombay-Teheran ; (*r*) Bombay-Hanoi ; (*s*) Delhi-Paris ; (*t*) Bombay-Ethiopia ; (*u*) Bombay-Saudi Arabia ; (*v*) With Italy.

Services to other countries are provided through the international trunk routes *via* London.

DIRECT RADIO-TELEPHONE SERVICES

India today operates twenty direct services :

(*a*) Bombay-London ; through London calls are extended to the following countries : Australia, Barbados, Bahrain, Belgium, Bermuda, Canada, Cuba, Czechoslovakia, Denmark, Finland, France, Gibraltar, Hungary, Iceland, Israel, Italy, Luxemburg, Mexico, Netherlands, Northern Rhodesia, Norway, Saar, Spain, South Africa, Eire, South Rhodesia, South-West Africa, Sweden, U.S.A., Vatican City, East and West Germany, Brazil, Argentina, Yugoslavia, Japan and Austria.

This service is also available to the following ships at sea *via* London :—

British Registered :—Queen Elizabeth, Queen Mary, Caronia, Queen of Bermuda, Mauretania, Saxonia, Ivernia, Empress of Britain, Nevasa, Reina Del Mar, Pretoria Castle, Oxfordshire, Corinthia, Orion, Capetown Castle and Stirling Castle, Orcades, Oronsay, Orsova, Sylvania.

U.S.A. Registered :—America, Constitution, United States and Independence.

Dutch Registered :—Nieuw Amsterdam, Rijndam Oslof-Jord and Maasdam.

Greek Registered :—Olympia Elir.

Panamanian Registered :—Eastriver.

Israeli Registered :—Israel and Zion.

(*b*) Bombay-Djakarta ; (*c*) Bombay-Cairo ; (*d*) Bombay-Teheran ; (*e*) Bombay-Tokyo ; (*f*) Bombay-Nairobi ; (*g*) Bombay-Hongkong ; (*h*) Bombay-Berne ; (*i*) Bombay-Bahrain ; (*j*) Bombay-Singapore ; (*k*) Bombay-Aden, (*l*) Bombay-Shanghai ; (*m*) Bombay-Rangoon ; (*n*) Bombay-Moscow ; (*o*) Bombay-Warsaw ; (*p*) Bombay-Belgrade ; (*q*) Calcutta-Saigon ; (*r*) Calcutta-Sydney ; (*s*) Delhi-Paris ; (*t*) Delhi-London ; Delhi-Jedda and Bombay-Ethiopia.

These Radiophone facilities are also used for inter-continental interviews, discussions and programme material for purposes of re-broadcast both in India and abroad.

OVERSEAS RADIO-PHOTO SERVICE

This service enables signalling by radio a manuscript, photograph, drawing—in fact anything that is in black and white on paper and reproduction as a photo replica of the original.

The following circuits are now in operation :

(*a*) Bombay-London, is also extended to : Australia, South Africa, Canada, Egypt, Finland, Norway, Sweden, Belgium, Portugal, Greece, Denmark, Germany, Italy, Czechoslovakia.

(*b*) Bombay-New York, and *via* New York to San Francisco. The service is regularly used by the business interests for the exchange of balance sheets, specifications and drawings of machinery, etc.

(*c*)	Delhi-Shanghai		19-10-54
(*d*)	Delhi-London		2-3-55
(*e*)	Delhi-Moscow		8-6-55
(*f*)	Bombay-Tokyo		25-1-56
(*g*)	Delhi-France		3-12-56
(*h*)	Delhi-Poland		27-3-57

OVERSEAS SUBMARINE CABLE SERVICE

The cable chains are :—

(*a*) Bombay—Aden — Alexandria—Malta—Gibraltar—London.

(*b*) Bombay—Aden—Mombassa—Zanzibar—Seychelles.

(*c*) Madras—Penang—Singapore—East Asia.

These submarine cables provide many complementary services thus providing telegraph service to other parts of the world.

MULTI-ADDRESS BROADCASTS

Overseas Communications Service handles news transmissions on behalf of the Government of India to consular posts abroad. The transmissions from New Delhi are picked up by the follow-

* Opened on Feb. 6, 1956.

ing consular posts in Asia, Europe, Australia and America: Khatmandu, Rangoon, Singapore, Djakarta, Bagdad, Teheran, Ankara, Paris, Cairo, London, Brussels, Rome, Berne, Prague, Moscow, The Hague, Bonn, Tokyo, Canberra, Peking, and Nairobi.

The transmissions from Bombay are picked up by Buenos Aires and Rio De Janeiro.

Transmissions are also made on behalf of certain Press Agencies to different areas.

FIVE-YEAR PLANS

The First Five-Year Plan allocated one crore of rupees for development.

The plan covered modernising and expanding the existing Bombay and Delhi radio centres and opening similar centres at Calcutta and Madras.

The Second Five-Year Plan has, with an allocation of two crores of rupees, the following long range objectives in view:—

(1) to provide expanding facilities of direct communications with more foreign centres commensurate with the growing needs of the country;

(2) to provide improved grade and standard of service—greater mechanisation and improved modern techniques;

(3) to provide more powerful service for Multi-Address Broadcasts for Government and Press; and

(4) to provide leased channels to private agencies and teleprinter-call service to big business houses and for the press.

BUDGETS

The revenue for the year 1957-58 was estimated at 154·06 lakhs.

The profit of the O.C.S. for the year 1956-57 was 49·16 lakhs, i.e., 30·33 per cent of Government capital.

The table below shows the revised estimates for 1956-57 and the budget estimates for 1957-58 on the expense side.

	Revised Estimate 1956-57	Budget Estimate 1957-58
	Rs.	Rs.
Pay of officers	5,15,000	5,98,100
Pay of establishments	18,60,000	24,62,600
Allowances, honoraria	17 70,000	20,99,300
Other charges	12,14,000	14,14,300
Interest on capital (Charged)	5,57,000	6,73,000
Depreciation (Voted)	9,97,000	10,70,700
Payments to other Government Departments, etc.	34,80,000	37,50,000
Charges in England	91,000	91,000
Total	1,04,84,000	1,21,59,000
Capital Budget	30,16,900	36,00,000

BROADCASTING

In 1957 three new developments have to be noted.

An all entertainment programme called Vividha Bharati (All-India Variety Programme) broadcast simultaneously from Bombay and Madras on two 100 K/W short-wave transmitters was started on October 3, 1957.

In July, the 30th anniversary of AIR was observed with a variety programme provided to listeners from all stations.

Conflicting views on the introduction of television (in Bombay and Delhi) were expressed by the Prime Minister and the Minister for Information and Broadcasting. This ultimately resulted in the abandonment of the project.

Equipment already secured is however being used for training the staff in the techniques of TV, with a long-range view.

With 100 K/W short-wave transmitters working in Bombay and Madras, the pressure on transmission on the External Services in Delhi was reduced when some items were diverted to State capitals.

Broadcasting in India began as a private venture in 1927, in Bombay and Calcutta. In 1930, the Government of India were approached to take over the concern as private resources were found to be inadequate. At first, it was the department of Industries and Labour that looked after the new function of entertaining. Subsequently, the Home department took over the responsibility and under the new regime, a special Ministry for Information and Broadcasting was created to look after the growing work.

The head of AIR is the Director-General, All-India Radio, whose office is located in Broadcasting House, Parliament Street, New Delhi.

Other officers at headquarters are: Chief Engineer, Deputy Directors-General, Deputy Chief Engineer, Director of Programmes, Director of Programme Planning, Director of Listener Research, Deputy Director of Administration and Assistant Directors of Administration.

AIR stations transmit for about five to ten hours a day.

This is generally split up into three transmissions, morning, afternoon and evening.

Programmes are planned by Station Directors with the assistance of the Programme Executives and Programme Assistants. Details are worked out well in advance of their scheduled dates and are published in the journals of All-India Radio.

Broadcasting House.—Probably the largest centre of broadcasting activity in the East, Broadcasting House, New Delhi, was completed in 1943. Architecturally, it is one of Delhi's newest and most striking sights. It represents from the point of view of equipment, the latest practice in radio engineering.

Research and Maintenance Departments.—These two departments are located in New Delhi.

The Research Department deals with all technical problems, concerning reception and transmission. Special studies are undertaken on ionospheric data and forecasting transmission conditions, field strengths of short and medium wave stations, atmospheric noise levels prevalent in various parts of India, studio and recording characteristics and development of cheap receivers.

The Department also maintains a field station at Todapur near Delhi where the frequencies of All-India Radio Stations are constantly checked.

The Maintenance Department handles problems which arise in the upkeep and day-to-day operation of the engineering equipment used by All-India Radio in addition to maintaining Central Stores Depot.

Publications.—AIR has programme journals for home services as also for External Services.

Akashvani (English), *Awaz* (Urdu), *Sarang* (Hindi), *Betar Jagat* (Bengali), *Vanii* (Telugu), *Vanoli* (Tamil), and *Nabdorani* (Gujarati) are for home services.

Only the *Akashvani* is issued weekly, while the rest are fortnightly publications, with a large list of regular subscribers.

For the External Services, *India Calling*, with two versions, the Eastern and the Western, is supplemented by Arabic, Burmese, Chinese and Persian editions.

Four more editions in French, Indonesian, Pushtu and Tibetan are planned (Dec. 1957). These are issued free of cost to those who ask for them.

As the copyright of all the material that is broadcast—talks and discussions—is vested in the Government of India, it was decided to make use of the vast reading matter by issuing *AIR Selections* (English) and *Prasarika* (Hindi), periodically.

The experiment proved a success and a scheme for publishing AIR Selections quarterly in 8 more languages—publication of *Prasarika* in those languages—has been put into operation.

Monitoring.—The Monitoring Service (Simla) keeps a round-the-clock watch on transmissions from all the main broadcasting systems of the world, monitors news and commentaries and selected talks transmitted from those stations in English, in Indian languages and in some foreign languages, from 30 different countries.

Listener Research.—The primary purpose of Listener Research is to determine the listening habits and programme preferences of radio listeners by ascertaining from time to time their reactions to items broadcast.

Although Listener Research in this country is still in its infancy, a good deal of information on trends of listening has already been collected and more light is constantly being shed on this absorbing subject.

For this purpose, contact with listeners is maintained through their letters, press reactions, field surveys and questionnaire studies of listeners' preferences and reactions to programme broadcast.

Advisory Committees, established at the Broadcasting Stations in consultation with the State Governments, keep the Director-General, All-India Radio, in touch with local public opinion in programme construction and advise him on such matters.

PROGRAMMES

Women's Programmes.—These are in the regional language and are broadcast from almost all the stations. They consist of music, features and talks.

Children's Programmes.—Wherever possible the children are divided into two or three age groups. The programme is conducted or compered by an elderly character known to the children. Another elderly person usually a woman is used to assist the compere.

These are generally broadcast twice a week.

Fables, stories from classics and musical items, form the content of the programmes, and listeners are encouraged to participate.

The programmes are conducted from all the stations, the time varying from 30 minutes to an hour.

In the rural broadcasts there is a children's day once a week.

School Broadcasts.—The school broadcasts are meant to supplement the regular curriculum of the school.

The students are divided into two or three age groups, and the talks, dialogues, features or musical items are in the mother-tongue, English, Hindi or Sanskrit.

History, geography and general science are the subjects generally covered.

The hours vary from station to station.

There are Educational Committees to advise the Station Director in the composition of the programme for the academic term, and these are announced in pamphlets for each term.

Occasionally students from a particular class are taken to the radio station to give a performance.

The idea is that students should listen to the broadcasts while at school in the company of their teachers.**

Industrial Broadcasts.—Stations in such industrial towns like Bombay, Calcutta, Lucknow, Madras, Ahmedabad put out suitable programmes in the language of the local working class.

The programme contains dialogues, features and news reviews, all relating to workers and their organisations.

For recreation devotional music and popular songs are used.

Labour Welfare Centres are encouraged to participate in the programme.

Rural Broadcasts.—While the provision of programmes is a Central responsibility, the supply of listening sets to the rural population is the responsibility of State Governments.

Supplementary or spare time occupations are suggested, and information is given on items like improved seed, new implements, sowing, crop and cattle pests and their remedies, and market rates of current agricultural produce.

Weather bulletins during the monsoon are a regular feature of the composite programme.

The Union Government has put into operation a scheme for popularising community listening by subsidising State Governments for the purchase of receiving sets. The goal is to provide each village with a population of 1,000 or above, with at least one set.

The subsidy is 50 per cent of the cost of sets and its immediate acceptance is reflected in the rapid rise in the number of community receiving sets.

Before the scheme was introduced, there were (March 1954) about 6,000 sets in rural areas all over India. In October 1956 their number was estimated at well over 20,000. The distribution of these sets is given in the table below.

As part of the scheme, Government has standardised the community receiver set with the help of the radio industry and the Indian Standards Institution. It has been possible to produce such sets for Rs. 120 each and with larger bulk orders the price may go down still further.

Community Listening Sets Oct. 1956

School Licences	State†	Community Licences
594	Andhra	1,614
39	Assam*	188
1,043	Bihar	1,042
778	Bombay	1,333
38	Saurashtra	294
27	Kutch	35
295	Central Circle	1,304
125	Delhi*	58
443	Hyderabad	507
1,180	Madras	2,958
89	Mysore	465
249	Travancore	343
38	Coorg	25
170	Orissa*	278
1,046	Punjab	2,664
307	Rajasthan	84
969	Uttar Pradesh*	4,985
399	West Bengal	1,289
7,829		19,466

Note: Assam includes Manipur, Tripura and NEFA. The Central Circle includes Madhya Pradesh, Vindhya Pradesh areas. Punjab includes PEPSU, Bilaspur, Kashmir and Himachal Pradesh areas. Rajasthan includes Madhya Bharat, Ajmer and Bhopal areas.

* These States are unaffected by the reorganisation of States in Nov. 1956. † Before the reorganisation in November 1956.
** The number of school licences are given in the table below.

Broadcasts in Naga Dialects.—The special conditions prevailing in the north-eastern frontier area make it essential to undertake broadcasting in the tribal languages.

Gauhati station in that region has had to be provided with short wave transmitters. Already items in Garo and Khasi—Jaintia dialects are being put out. Other dialects prevalent in the Naga Hills and the adjoining regions, about 15 in number, are also to be employed for broadcast from Gauhati.

Many of the dialects have no script and literature of their own.

PILOT UNESCO PROJECT

All-India Radio conducted a unique experiment in Bombay with the co-operation of many institutions and expert knowledge from the various departments. The project is financed by UNESCO to the tune of $19,000 (about Rs. 80,000).

The project covered Community Project Areas in Kolhapur, Karjat, Mandangad, Ahmednagar, Nasik, Poona, Satara and Thana, comprising in all 150 listening centres.

A series of 20 programmes of 45 minutes each was broadcast from Poona and relayed on Bombay B. As the entire area happens to be Marathi speaking, the programmo was in Marathi and contained dramatised stories, panel discussions, talks and interviews, recorded or live programme by members of forums, and five minutes summary of the consequences of the discussion held by the forum.

Participation by the members of the forums was an ingredient of programme.

Farm Forums.—Encouraged by the results of the Unesco pilot project carried out in 150 villages AIR has now decided to continue the scheme, in the same area with the co-operation from the Government of Bombay.

The duration of the rural programmes has already been extended to one hour in all places, and a proposal to try this project in other regions is under consideration.

Hindi Lessons.—For popularising Hindi in non-Hindi-speaking regions, All-India Radio devotes 15 minutes a day, five days per week, to impart instruction through the regional languages. These lessons planned on the class-room model, by the direct method, are helpful to those who want to learn Hindi by themselves without going to any school or having to attend any classes. The planning of these lessons is entirely different from the way in which the BBC for instance "teaches English by radio".

Anniversary Programmes.—Anniversaries of national leaders like Tilak, Gokhale, Dadabhai Navroji, Srinivasa Sastry, Motilal Nehru, Sarojini Naidu, Vallabhbhai Patel and of great musicians like Tansen, Bharati, Bhatkhande, Vishnu Digambar and Abdul Karim Khan will be celebrated on a national scale.

National Programmes.—The Saturday National Programmes lasting ninety minutes have been quite popular. It is generally so planned that Northern and Southern (Karnatic) music alternate every Saturday. Arrangements are being made to have this item originate at other places. At present most of the Saturday concerts originate from Delhi and all stations relay them. A greater variety will be available when concerts take place in Bombay, Nagpur, Madras, Bangalore or Trichy.

Talks.—Important topics of a national character are dealt with by an accepted authority in a nation-wide broadcast on Wednesdays at 8·30 p.m.

Plays, Operas.—On alternate Thursdays, a national programme of plays or operas is arranged in such a way that all stations have the same item, in their respective languages, prepared from one single script. The literature of one region is thus made available to all the other parts of the country at the same time.

Development Projects, Factories.— In order to make the country plan-minded, a feature on some of the bigger national projects like Bhakra-Nangal, is arranged once a month, and it is put out on the air simultaneously from all the stations, the script with actual effects having been supplied from Delhi.

Gandhi Prayers & Memoirs.—Mahatma Gandhi had his own way of saying prayers and those prayers are broadcast from all stations on Friday mornings. Also the reminiscences of men and women who had known him, immediately after the prayers. The material used by one station is supplied to all the others. In this way a huge pile of biographical material is being collected.

Film Music.—AIR is now in a position to play film music which is quite popular. In the new Variety Programme, (Vividha Bharati) nearly two hours are devoted to film music daily, and Radio Kashmir has on an average an hour of film music every day.

The necessary contracts with film producers have been signed and the listeners get what they ask.

Inter-Linking of Stations.—The interlinking of the regional stations is being tried as this makes it easy to maintain a uniformity of programmes, and also provide common listening when a first-rate performance is scheduled. Thus on Wednesdays, musical concerts are arranged from one of the stations in the Western Region and other stations relay it. Common programmes like Book Reviews, the Gandhi Memoirs are planned on a linguistic basis.

Madras and Trichy, for example form a unit for Tamil programmes, and Madras, Vijayawada and Hyderabad for Telugu. For music however, all these stations as also Trichur, Kozhikode-Trivandrum Bangalore and Dharwar form a larger unit

Prasar Geet & Sugam Sangit.—In order to provide all stations with standardised light and popular music, All-India Radio organised its own units in different regions for the production of songs. A processing plant capable of producing many discs for its own use in the first instance and for selling them to outside agencies on the lines of the BBC's Transcription Service, has been set up by All-India Radio.

Transcription Service.—The plant produced 165 matrices and 5,900 discs as against 45 matrices and 2,100 discs in 1956. The discs of Sugam Sangit and Prasar Geet are being supplied to all stations. Indian missions abroad required about 740 discs of important items.

Experiments in the production of long-playing records are being carried out.

Voic Recordings.—AIR already has a unique collection of Mahatma Gandhi's prayer-speeches (51 hrs.). Similar recordings of the Prime Minister's speeches are also preserved. The Voices of Tagore, Sarojini Naidu, Srinivasa Sastri, C F. Andrews, and Sanha Lal D. Kavi have been acquired for preservation.

The Monitoring Service at Simla had a very good collection of Netaji Subhash Bose's speeches over Berlin and other radio stations. But they are not recoverable now as at the time of transfer of power, someone had "shaved" the discs off. Some outside broadcasting agencies have, however, supplied A I R with records of Netaji's voice.

In the field of music, recordings of *Aftab-e-Mausiki* Ustad Fayyaz Khan (of Baroda) extending to over 20 hours, have been obtained.

Improvement of Programmes.—In addition to the regular grant for broadcasting made by Parliament, a lump sum is provided every year, to be spent at the discretion of the Minister. It is generally utilised in making certain direct appointments of expert staff without having to go through the Union Public Service Commission. For 1954-55 and 1955-56, such grant amounted to Rs. 6 lakhs and Rs. 10 lakhs respectively.

Competitions.—In its ceaseless effort to find new talent, All-India Radio holds many competitions every year. They are for music, light and classical, vocal and instrumental, northern and southern (Karnatak) styles. The first round of these is held station-wise and the All-India round takes place in Delhi.

The competition for plays is language-wise. There are two main classes: one open to general public and the other restricted to college students.

Prizes in cash are awarded to the first three numbers. Judging from the number of entries in each variety, the competitions are quite popular and the effort is generally successful.

Patel Lectures.—This is an annual feature. The first series of lectures was given by Mr. C. Rajagopalachari in 1955 on the good administrator. The second series was delivered by Dr. K. S. Krishnan in 1956.

The third series was delivered by Dr. J. B. S. Haldane in 1957.

Other Features: Some other features are Tamil by radio from Delhi, Lucknow and Allahabad; radio news-reels called Dhevani Chitra featuring events and news of a regional character from Bombay, Poona, Nagpur, Ahmedabad, Baroda and Rajkot There are also local weather bulletins at the end of the day's transmission.

NEWS SERVICES

The News Services Division now broadcasts 76 bulletins in 28 Indian and foreign languages. 30 of these bulletins are broadcast in the External Services while 46 bulletins are broadcast in the Home Services, the total transmission time being 14 hours and 34 minutes.

The languages used in the Home Services are:

Assamese, Bengali, English, Gujarati, Hindi, Kanarese, Kashmiri, Malayalam, Marathi, Oriya, Punjabi, Sanskrit, Tamil, Telugu, Urdu, Konkani and about 20 other dialects.

All the news bulletins are prepared in the News Service Division and broadcast from the transmitters at Delhi set apart for news.

Each regional station relays the bulletins suitable for its listening areas.

News Reels.—Radio news reels of 10 mts. each on the line of the BBC's radio news reels, have been introduced from Delhi in English and Hindi as a weekly event in the first instance.

Regional News.—Centralised news from Delhi does not meet the requirements of the listeners adequately. In an effort to broadcast only news of All-India importance from Delhi, items of local interest are dropped. The State legislatures and other local institutions require to be covered for news. Some of the larger stations, capitals of States, now devote ten minutes a day for covering regional news in languages other than English The timings however are late in the afternoon.

Except Punjab and Kashmir all stations now broadcast regional news.

A few minutes are set apart at each station for local announcements. This period accommodates news of purely local interest.

External Services.—That the External Services serve a useful purpose can be seen from the fact that nearly 10,000 copies of *India Calling* (English) are distributed among listeners.

Sixteen languages are used in these broadcasts and the daily time taken by them is (in mts.):—Arabic 90; Burmese 55; Chinese 75; English 380; French 45; Indonesian 45; Persian 75; Portuguese 30; Pushto 60; Swahili 35; Tibetan 30.

Among the Indian languages are: Gujarati 55; Hindi 145; Konkani 30; Tamil 60.

Thus daily 20 hrs. and 10 mts. are required for these broadcasts, arranged at times suitable to the region to which they are directed, keeping the Indian population there in touch with the mother country.

In relation to time these broadcasts are composed of 25 per cent news, 33 Indian music, 3 Western music, 12 talks-discussions, 3 drama, 3 programme publicity, 21 Koran and other religious items.

AIR STATIONS

At present (1957 December) there are 30 broadcasting stations.

LIST OF ALL-INDIA RADIO STATIONS

		Wavelengths & Frequencies in M.	in Kc./s. per second
(1)	Ahmedabad ..	352·9	850
(2)	Ajmer ..	500	600
(3)	Allahabad ..	306·1	980
(4)	Bangalore ..	491·8	610
(5)	Baroda ..	352·9	850
(6)	Bhopal† ..	50·09	5,990
(7)	Bombay* ..	A 243·9	1,230
		B 545·5	550
		31·41	9,550
		41·44	7,240
(8)	Calcutta* ..	A 300	1,000
		B 447·8	670
		31·48	9,530
		41·61	7,210
(9)	Cuttack ..	222·2	1,350
(10)	Delhi* ..	A 337·1	890
		B 280·4	1,070
		25·61	11,710
		31·15	9,630
		41·15	7,290
		60·48	4,960
(11)	Dharwar ..	405·4	740
(12)	Gauhati S.W.	384·6	780
		31·33	957·5
		42·11	712·5
(13)	Hyderabad ..	411·0	730
(14)	Indore ..	461·5	650
(15)	Jaipur ..	267·9	1,120
(16)	Jammu ..	303·0	990
(17)	Juilunder ..	422·5	710
(18)	Kozhikode ..	441·2	680
(19)	Lucknow ..	394·7	760
(20)	Madras* ..	A 319·1	940
		B 211·3	1,420
		31·28	9,590
		41·32	7,260
(21)	Nagpur ..	508·5	590
(22)	Patna ..	483·9	620
(23)	Poona ..	375	800
(24)	Rajkot ..	329·7	910
(25)	Simla† ..	63·03	4,760
(26)	Srinagar* ..	201·3	1,490
		31·06	9,660
		49·10	6,110
		61·73	4,860
(27)	Tiruchi ..	389·6	770
(28)	Trichur ..	517·2	580
(29)	Trivandrum ..	454·5	660
(30)	Vijayawada ..	357·1	840

* Also on short wave. Medium wave remains unchanged throughout, but short wave varies according to the season and the part of the day.

† Only short wave for the time being.

LICENCES

Broadcast receiver licences are issued at all head and sub-post offices at a fee of fifteen rupees per year, and cover the use of receiving sets throughout India.

Broadcast Receiver Licences are issued to Municipalities or other public bodies for the reproduction of broadcast programmes in public places by the Postmaster-General of the State.

A licence issued for this purpose covers the use of one or many wireless receivers and any number of loudspeakers at one place only but does not cover any wiring outside the premises of the licensee.

A separate Broadcast Receiver Licence is, however, necessary in the case of clubs, institutions, messes, etc., for reproducing broadcast programmes at dances, concerts, bazaars, etc., to which the public are admitted.

Types of radio licences, the authorities issuing such licences and the fee payable in each case respectively:

(1) Commercial Broadcast Receiver Licence; P.M.G. of the Circle; Rs. 50; (2) Possession Licence for dealers and non-dealers; P.M.G. of the Circle; Rs. 15; (3) Demonstration Licence; P.M.G. of the Circle; Rs. 15; (4) Community Broadcast Receiver; P.M.G. of the Circle; Rs. 10; (5) Broadcast Receiver Licence (Domestic); Post Offices; Rs. 15; (6) Broadcast Receiver Licence for schools; Post Offices; Rs. 3; (7) Broadcast Receiver Licence for institutions for the blind; Post Offices; Rs. 3; (8) Broadcast Receiver Licence for crystal sets; Post Offices; Rs. 3.

The growth of domestic broadcast receiver licences at the end of each year is given below:

Year	Licences	Year	Licences	Year	Licences
1938	64,480	1944	193,585	1950	507,324
1939	92,772	1945	202,829	1951	635,026
1940	119,417	1946	232,368	1952	694,560*
1941	147,121	1947	247,100	1953	769,505*
1942	165,675	1948	286,046	1954	835,246
1943	176,061	1949	369,278	1955	890,671
				1956	900,202

* A mistake in calculation was noticed by Director-General, All-India Radio and the figures were corrected in a press-note as 473,759 and 587,169 for 1952 and 1953 respectively. In subsequent years, this correction does not seem to have been effected. The figures therefore are "official".

The following table shows the number and the value of radio sets imported into India over a number of years:—

Year	Number	Value in Rs. lakhs
1940–41 ..	38,855	35·32
1941–42 ..	52,416	41·73
1942–43 ..	18,939	32·10
1943–44 ..	5,384	6·53
1944–45 ..	895	1·51
1945–46 ..	5,982	7·04
1946–47 ..	107,114	169·58
1947–48 ..	192,172	288·40
1948–49 ..	42,202	76·59
1949–50 ..	43,355	71·66
1950–51 ..	16,012	25·44
1951–52 ..	29,121	52·64
1952–53 ..	19,286	36·09
1953–54 ..	13,042	23·45
1954–55 ..	4,515	11·20

RADIO SETS ASSEMBLED IN INDIA 1950-56

The following table shows the trend of production:—

Year	Sets
1950	44,000
1951	82,788
1952	71,496
1953	56,268
1954	56,404
1955	81,200
1956	150,596

(MAJOR ITEMS OF EXPENDITURE ALL-INDIA RADIO)

(1951-1957)

(In thousands of rupees)

	Actuals				Estimates	
	1951-52	1952-53	1953-54	1954-55	1955-56	1956-57
Total Broadcasting	19,600	19,000	21,700	22,000	31,000	32,000
Broadcasting Stations	12,600	12,100	14,322	14,870	19,675	21,112
High Power Transmitters	700	700	750	876	781	784
News Division	1,700	1,800	1,927	1,965	1,976	2,119
External Services	1,400	1,300	1,252	1,318	1,395	1,545

DEVELOPMENT PLAN

The broadcasting network of All-India Radio includes 30 radio stations. The expansion which has taken place during the First Plan ensures that each language has been provided with at least one transmitting station and that fairly effective coverage is available to almost all the regions. The aim during the Second Plan is to extend the services now available for all the languages to as wide an area as it is at present possible to reach. For areas in which terrain conditions are difficult short-wave transmitters are to be installed.

Although the drive for economy has slowed down the pace of expansion of All-India Radio, the following projects are nearly complete and will add considerably to the coverage of target rea.

Five transmitters for Delhi: four s.w. and one m.w.; s.w.: 1 — 100 K w; 2 each of 20 K,w; 1 — 10 K,w; 1 — 100 K,w m.w.

Four s.w. transmitters of 10 K/w each—at Bhopal, Gauhati, Hyderabad and Lucknow.

Two m.w. transmitters: one of 50 K/w for Trichy and the other of 20 K/w for Bombay.

Permanent buildings for studio are to be provided wherever there are temporary arrangements at present.

To promote rural listening, community receivers are to be located in villages with a population of 1,000 and above. About 72,000 sets of this type are expected to be installed during the period of the Second Plan.

Permanent receiving centres will soon be provided at Ahmedabad, Calcutta, Cuttack, Dharwar, Gauhati, Jammu, Rajkot and Simla, although priority will be decided on regional requirements.

For studio concerts and special programmes in the presence of large invited audiences, special facilities are to be provided at Bombay and Delhi.

Following Delhi's example of using F.M. for transmission from studio to transmitters, in addition to the usual telephone wires, the establishment of an F.M. centre for Bombay has been put into operation to improve the quality of transmission and reception.

THE PRESS

ACCORDING to the report published by the Registrar of Newspapers for India (Annual Report, Ministry of Information and Broadcasting) there were a total number of 6,570 newspapers in the country on 31st December 1956.

Bombay has the highest number of newspapers (1,271) followed by West Bengal (1,129), Uttar Pradesh (756), Madras (717) and Delhi (560). The number of newspapers published in these four States and Delhi constitutes two-thirds of the total number of newspapers published in the country. The number of newspapers in the remaining States varies between 34 (Assam) and 426 (Punjab) while that in the remaining Union Territories ranges between 4 (Himachal Pradesh) and 17 (Manipur).

The highest number (70) of newspapers which came into existence during the period was in Bombay while the highest number (28) of those which ceased publication was in the Punjab.

The table no. 1 shows the number of newspapers in existence in each State on December 31, 1956 :

TABLE 1

States	No. of Newspapers
Andhra Pradesh	254
Assam	34
Bihar	286
Bombay	1,271
Kerala	268
Madhya Pradesh	165
Madras	717
Mysore	277
Orissa	215
Punjab	426
Rajasthan	180
Uttar Pradesh	756
West Bengal	1,129
Delhi	560
Himachal Pradesh	4
Manipur	17
Tripura	11
TOTAL	6,570

TABLE 2. DISTRIBUTION OF NEWSPAPERS ACCORDING TO STATE AND PERIODICITY (DECEMBER 31, 1956)

State/Union Territory	Daily	Tri-Weekly	Bi-Weekly	Weekly	Fortnightly	Monthly	Quarterly	Other Periodicities	Grand Total
Andhra Pradesh	21	—	4	87	26	93	4	19	254
Assam	3	—	—	23	2	5	1	—	34
Bihar	9	—	2	78	30	97	24	46	286
Bombay	132	3	10	403	193	451	35	44	1,271
Kerala	25	—	2	65	10	129	8	29	268
Madhya Pradesh	26	1	4	58	9	55	6	6	165
Madras	32	—	7	167	73	314	45	79	717
Mysore	42	—	7	117	10	83	5	13	277
Orissa	6	—	1	28	11	74	27	68	215
Punjab	36	1	3	124	23	160	42	37	426
Rajasthan	18	—	3	90	10	48	2	9	180
Uttar Pradesh	53	—	10	314	63	279	12	25	756
West Bengal	36	1	7	226	87	420	88	264	1,129
Andaman and Nicobar Islands	—	—	—	—	—	—	—	—	—
Delhi	33	7	6	114	48	287	41	24	560
Himachal Pradesh	—	—	—	1	2	1	—	—	4
Manipur	3	—	—	1	—	9	—	4	17
Tripura	1	—	—	7	1	1	1	—	11
TOTAL	476	13	66	1,903	598	2,506	341	667	6,570

TABLE 3. LANGUAGE-WISE DISTRIBUTION (DECEMBER 31, 1956)

Table 3 given below shows that the largest number of newspapers is published in Hindi (19 per cent.), followed by English (17 per cent.), Bengali (10 per cent.), Urdu (9 per cent.), Gujarati (7 per cent.), Marathi and Tamil (6 per cent. each). The share of newspapers in other languages is below 5 per cent. each. Hindi newspapers are reported to be published from all States except Assam and Orissa.

State/Union Territory	English	Hindi	Assamese	Bengali	Gujarati	Kannada	Malayalam	Marathi	Oriya
Andhra Pradesh	19	5	—	—	—	1	—	4	—
Assam	5	—	13	12	—	—	—	—	—
Bihar	50	161	1	5	—	—	—	—	—
Bombay	194	89	—	—	422	—	2	340	—
Kerala	20	1	—	—	—	2	148	—	—
Madhya Pradesh	5	132	—	—	1	—	—	—	—
Madras	208	5	—	—	1	—	6	2	1
Mysore	28	8	—	—	—	191	—	7	—
Orissa	17	—	—	—	—	—	—	—	123
Punjab	47	43	—	—	—	—	—	—	—
Rajasthan	7	132	—	1	—	—	—	—	—
Uttar Pradesh	51	493	—	2	—	—	—	—	—
West Bengal	257	69	2	600	4	—	—	1	12
Andaman and Nicobar Islands	—	—	—	—	—	—	—	—	—
Delhi	224	113	—	3	1	—	2	3	1
Himachal Pradesh	—	3	—	—	—	—	—	—	—
Manipur	1	—	—	—	—	—	—	—	—
Tripura	—	—	—	10	—	—	—	—	—
TOTAL	1,133	1,254	16	633	429	198	158	357	137
Percentage Distribution	(17·2)	(19·1)	(0·2)	(9·6)	(6·5)	(3·0)	(2·4)	(5·4)	(2·1)

TABLE 3. DISTRIBUTION OF NEWSPAPERS ACCORDING TO STATE AND LANGUAGE (DECEMBER 31, 1966)—(*Contd.*)

State/Union Territory	Punjabi	Sanskrit	Tamil	Telugu	Urdu	Bi-lingual	Multi-lingual	Others	Total
Andhra Pradesh	—	—	—	145	38	25	16	1	254
Assam	—	—	—	—	—	2	—	2	34
Bihar	—	—	—	—	14	13	33	9	286
Bombay	1	1	3	1	43	85	27	61	1,271
Kerala	—	1	4	—	—	65	18	9	268
Madhya Pradesh	—	—	—	—	14	10	1	2	165
Madras	—	1	333	57	7	67	23	4	717
Mysore	—	—	1	1	8	20	10	3	277
Orissa	—	—	—	—	—	34	41	—	215
Punjab	93	—	—	—	133	36	74	—	426
Rajasthan	—	—	—	—	1	21	7	11	180
Uttar Pradesh	3	3	—	—	152	46	4	2	756
West Bengal	7	1	—	2	20	115	30	9	1,129
Andaman and Nicobar Islands	—	—	—	—	—	—	—	—	—
Delhi	10	—	3	3	152	30	13	2	560
Himachal Pradesh	—	—	—	—	1	—	—	—	4
Manipur	—	—	—	—	—	—	7	9	17
Tripura	—	—	—	—	—	—	—	1	11
TOTAL	114	7	344	209	583	569	304	125	6,570
Percentage Distribution ..	(1·8)	(0·1)	(5·2)	(3·2)	(8·9)	(8·7)	(4·7)	(1·9)	(100·0)

TABLE 4. LANGUAGE AND PERIODICITY-WISE DISTRIBUTION ON DECEMBER 31, 1966

Language	Daily	Tri-Weekly	Bi-Weekly	Weekly	Fortnightly	Monthly	Quarterly	Other Periodicities	Grand Total
English	59	2	9	188	93	518	150	114	1,133
Hindi	94	1	12	455	127	517	30	18	1,254
Assamese	2	—	—	7	1	4	1	1	16
Bengali	8	1	6	167	57	238	28	128	663
Gujarati	42	3	2	134	80	158	6	4	429
Kannada	33	—	3	94	7	52	6	3	198
Malayalam	14	—	2	38	7	92	—	5	158
Marathi	50	2	6	159	42	90	4	4	357
Oriya	6	—	1	25	11	66	13	15	137
Punjabi	15	—	1	33	3	59	1	2	114
Sanskrit	—	—	—	4	—	2	1	—	7
Tamil	21	—	3	109	43	148	5	15	344
Telugu	7	1	1	66	35	93	5	1	209
Urdu	77	2	10	242	40	206	2	4	583
Bi-lingual	27	—	9	130	38	172	45	148	569
Multi-lingual	7	1	—	20	10	54	38	174	304
Others	14	—	1	32	4	37	6	31	125
TOTAL	476	13	66	1,903	598	2,506	341	667	6,570

TABLE 5. CIRCULATION OF NEWSPAPERS EXISTING ON DECEMBER 31, 1966 (000's)

Language	Daily		Weekly		Fortnightly		Monthly		Other Periodicities		Total	
	No. of newspapers	Total	No. of newspapers	Total	No. of newspapers	Total	No. of newspapers	Total	No. of newspapers	Total	No. of newspapers	Total
English	45	731	71	589	46	331	219	451	99	273	480	2,375
Hindi	43	350	147	388	29	90	187	745	14	24	420	1,597
Assamese	—	—	2	23	—	—	—	—	—	—	2	23
Bengali	3	96	59	107	17	67	56	115	21	17	156	402
Gujarati	25	273	52	358	23	26	69	196	7	8	176	856
Kannada	11	108	33	128	3	9	22	62	3	10	72	317
Malayalam	9	149	12	42	4	37	45	112	2	13	72	353
Marathi	22	230	56	192	10	13	42	174	12	62	142	671
Oriya	4	40	5	9	3	9	8	9	4	2	24	69
Punjabi	4	10	12	15	5	8	33	53	—	—	54	86
Sanskrit	—	—	3	9	—	—	2	1	1	*	6	10
Tamil	11	171	37	412	16	63	62	186	5	134	131	966
Telugu	3	93	29	68	12	23	47	148	2	2	93	334
Urdu	21	118	89	229	12	28	73	319	9	11	204	605
Bi-lingual	12	95	70	125	14	67	74	103	50	56	220	446
Multi-lingual ..	3	4	7	12	7	120	21	33	89	70	127	239
Others	2	10	7	26	2	2	10	13	3	4	24	55
TOTAL ..	218	2,478	691	2,732	203	893	970	2,630	321	681	2,403	9,404

*Less than 500.

TABLE 6. STATE-WISE DISTRIBUTION OF OWNERSHIP OF NEWSPAPERS* AS ON DECEMBER 31, 1956

State	Government	Individual	Joint Stock Company		Firm and partnership	Trust	Co-operative society	Society or association	Educational Institutions	Foreign missions	Total
			Public Ltd.	Private Ltd.							
Andhra Pradesh	1	65	—	1	8	4	2	22	1	—	104
Assam	—	5	—	—	2	—	—	—	—	—	7
Bihar	18	24	4	4	5	1	—	10	4	—	70
Bombay	6	195	23	47	58	33	3	104	5	2	476
Kerala	—	47	7	7	7	2	—	47	4	—	121
Madhya Pradesh	4	26	—	1	8	3	1	9	2	—	54
Madras	4	112	4	27	17	2	—	70	17	1	254
Mysore	2	56	—	7	10	6	—	21	4	—	106
Orissa	3	15	—	—	—	1	2	7	12	—	40
Punjab	4	114	1	2	19	6	—	30	41	—	217
Rajasthan	2	31	—	—	2	1	—	7	3	—	46
Uttar Pradesh	8	147	12	14	10	9	3	49	9	—	261
West Bengal	15	108	6	42	30	14	—	81	46	1	343
Delhi	41	86	8	19	18	3	1	54	7	16	253
Himachal Pradesh	—	—	—	—	—	—	—	—	—	—	—
Manipur	—	1	—	—	—	—	—	—	1	—	2
Tripura . . .	1	3	—	—	—	—	—	—	—	—	4
TOTAL	109	1,035	65	171	194	85	12	520	156	20	2,367

*Based on information received from 2,367 newspapers.

COMMON OWNERSHIP

Common ownership of more than one newspaper has been studied under three categories, namely,

(i) *Chains i.e.* publication of more than one newspaper under common ownership from more than one centre,

(ii) *Groups i.e.* publication of more than one newspaper under common ownership from the same centre.

(iii) *Multiple Units i.e.* publication of more than one newspaper of the same title, language and periodicity under same ownership at different centres

There are in all nine chains comprising 62 newspapers, of which 37 are dailies, 15 weeklies, seven fortnightlies, two monthlies and one quarterly The total circulation commanded by these newspapers is approximately 18 lakh The Express Newspapers limited is the largest chain covering 13 newspapers. The Hindustan Times-Leader-Searchlight Chain (or combine) controls 12 newspapers Included in the category of chains are the six editions of the 'American Reporter' issued by the United States Information Service.

Among the Chains are .

Bennett Coleman & Co Ltd., Bombay, Express Newspapers (Private) Ltd., Madras, The Hindustan Times Ltd., Delhi, Ananda Bazar Patrika (Private) Ltd., Calcutta, Amrita Bazar Patrika (Private) Ltd., Calcutta, Sandesh Ltd., Ahmedabad; Loksatta and Janasatta Daily, Baroda, United States Information Service, Delhi

Among the Groups are .

The Bombay Chronicle (Private) Ltd., Bombay; The Indian National Press (Private) Ltd., Kasturi & Sons (Private) Ltd; Associated Journals Ltd., Lucknow; Messrs Kirloskar Ltd., Bombay, Kesari Maharatta Trust, Bombay, Prajatantra Prachar Samiti, Cuttack, Chandamama Publications, Madras, Tass News Agency, Delhi, The Pioneer Ltd Lucknow; Newspapers and Publications (Private) Ltd., Patna, Shri Narkesari Prakashan Ltd., Nagpur.

Among the multiple units are :

The Statesman, Calcutta; Vishwamitra, Bombay, Daily Pratap—Veer Arjun Delhi, Milap, Delhi; Messrs National Journals, Agra; Nav Bharat, Jabalpur; The Lokmanya, Nagpur, Dainik Jagran, Kanpur

Some religious societies issue newspapers. These societies are The Salvation Army; Ambala Church Council of the United Church of Northern India; Shri Ramakrishna Math.

TABLE 7

The following table shows the language-wise distribution of illustrated newspapers.

Language	Total number of newspapers examined	Number of Illustrated Papers carrying		
		Pictures and photographs	Cartoons	Comic strips
English	274	167	51	31
Hindi	285	205	14	27
Assamese	8	3	1	1
Bengali	163	77	11	6
Gujarati	79	52	15	8
Kannada	132	53	9	8
Malayalam	83	29	7	9
Marathi	67	40	8	1
Oriya	35	25	5	2
Punjabi	35	17	7	1
Sanskrit	3	3	—	—
Tamil	82	60	22	20
Telugu	117	60	31	20
Urdu	157	39	25	6
Others	13	8	1	1
TOTAL	1,533	844	207	141

FINANCIAL STATISTICS

The Press Commission Report gives the following particulars about investment according to ownership. The figures (for 1951) are in Rs. lakhs:

Public Ltd. Cos.: 2,14; Private Ltd. Cos.: 7,53; Partnerships: 13; Individuals: 16; Trusts: 83; Others: 2.

(The number of concerns for which information is available is as follows:

Public Ltd. Cos.: 32; Private Ltd. Cos.: 27; Partnerships: 12; Individuals: 25; Trusts: 11; Others: 3.)

The Press Commission Report gives the following estimated figures about the financial statistics of the daily press for 1951. The figures are in Rs. lakhs:

Proprietary capital invested	7,00
Loans	5,00
Value of fixed assets	6,00
Value of newsprint stocks	3,50
Annual expenditure on materials ..	4,50
Salaries, Wages of staff for the year ..	4,00
Salaries of editorial staff for the year	85
Circulation revenue for the year ..	6,00
Advertisement revenue for the year ..	5,00

The total number of concerns returning profits was 47, of those returning a percentage of net profits of more than 10 was 28, of more than five and less than 10 was 6, of five and less than five was 13.

The profit and loss position in 1951 according to ownership was as follows (Rs. in lakhs):

Nature of Concern	No. of units returning profits	Amount of profit in Rs. lakhs	Percentages of total circulation	No. of units returning losses	Amount of loss in Rs. lakhs	Percentages of total circulation
Public Ltd. Co. ..	11	8·75	64	21	5·81	36
Private Ltd. Co. ..	12	17·97	53	15	15·26	47
Partnership ..	12	3·13	85	5	2·96	15
Individuals ..	16	1·75	55	19	3·64	45
Trusts and Societies	7	3·99	66	4	1·47	34
Others	1	·01	18	4	·51	82
Total	59	35·60	58	68	29·65	42

A break-down of the costs of production for 1951 of English and language papers is given below. The number of English papers taken into account is 9, with a total circulation of 4,02,000 and the number of language papers 21, with a total circulation of 4,22,000.

	English Papers		Language Papers	
	Rs. thousands	Per cent of total	Rs. thousands	Per cent of total
Services	32,39	10	11,47	6
Editorial	33,21	10	13,77	7
Materials	1,05,43	32	90,68	45
Composing, Printing	57,55	18	30,96	15
Distribution	29,02	9	18,50	9
Management	28,49	9	10,59	5
Overheads	25,83	8	16,44	8
Depreciation	12,37	4	9,78	5
Total	3,24,29	100	2,02,19	100

The average revenue per copy per annum in 1951 in Rs. was as follows:

English: 47; Hindi: 14; Bengali: 14; Gujarati: 26; Kannada: 13; Malayalam: 5; Marathi: 11; Tamil: 14; Telugu: 13; Urdu: 16.

The gross advertisement revenue for 1951 was as follows. The second column gives the figures for 15 English papers with a total circulation of 5,45,000. The third column gives the figures for 18 Indian language papers with a total circulation of 5,57,000.

	English Rs. thousands	Language papers Rs. thousands
Gross advertisement revenue	2,65,23	87,23

PRESS LAWS

In general the laws which affect the Press in India today are Press and Registration of Books Act, 1867; the Indian Official Secrets Act No. XIX of 1923; Sections 124-A, 153-A, 171-G, 255, 292, 293, 294-A, 295-A, 499-A, 499-502 and 505 of the Indian Penal Code; Sections 99-A-99-G and 108 of the Criminal Procedure Code; Sections 81, 84 and 87 of the Indian Evidence Act No. I of 1872; Sections 19 and 181-A of the Sea Customs Act No. VIII of 1878; Sections 5 and 7 of the Land Customs Act No. XIX of 1924; Sections 19, 20, 26, 27-A-27-D of the Indian Post Office Act No. VI of 1898; Section 5 of the Indian Telegraph Act No. XIII of 1885; Sections 40, 52 and 53(1)(b) of the Patents and Designs Act No. II of 1911; the Police (Incitement to Disaffection) Act, 1922; Section 69 of the Trade Marks Act No. V of 1940; the Press (Special Powers) Act No. XXXIX of 1947*; the Contempt of Courts Act, 1952 (Act XXXII of 1952); Article 19 (1) (a) and (g) and Clause (2) and (6) of the same Article of the Constitution of India. The amendment to Article 19 (1) (a) reads: "Nothing in Sub-clause (A) of Clause 1 (the Citizen's Right to Freedom of Speech and Expression) shall affect the operation of any existing law or prevent the State from making any law in so far as such law imposes reasonable restrictions on the exercise of the right conferred by the said sub-clause in the interest of the security of the State, friendly relations with foreign States, public order, decency, morality, or in relation to contempt of court, defamation or incitement to an offence (This amendment is restrospective in operation); the Tax on Newspapers (Sales and Advertisements) Repeal Act No. XXVIII of 1951*; the Press (Objectionable Matter) Act No. LVI of 1951 as amended by Act 13 of 1954*; S.7 of the Collection of Statistics Act (XXXII of 1953); the Press and Registration of Books (Amendment) Act No. 55 of 1955.

The Delivery of Books (Public Libraries) Act 27 of 1954.

The Drugs and Magic Remedies (Objectionable Advertisements) Act 21 of 1954. This Act controls the advertisement of drugs in certain cases and prohibits the advertisement for certain purposes of remedies alleged to possess magic qualities.

The Criminal Procedure Amendment Act contains a section (198B) which empowers the Government to prosecute a newspaper for defamation of public servants.

The Working Journalists (Industrial Disputes) Act (No. 1 of 1955). The Act extends the provisions of the Industrial Disputes Act, 1947 to working journalists.

The Parliamentary Proceedings (Protection of Publication) Act (No. 24 of 1956). It protects the publication of a substantially true report of any proceedings of either house of Parliament.

Section 11 of the Prize Competitions Act (Act 42 of 1955) contains rules regarding printing and publishing tickets, coupons, etc. in connection with prize competitions.

The Working Journalists Conditions of Service and Miscellaneous Provisions Act (Act 45 of 1955) regulates conditions of service of working journalists (See below).

The Punjab Special Powers (Press) Act was passed on 5th September 1955. It empowers the authorities to control the irresponsible activities of the press indulging in and fostering communal disharmony, dissemination of 'violent' news and pernicious propaganda of a communal nature.

The Newspaper (Price and Page) Act 45 of 1956.

The Young Persons (Harmful Publications) Act No. 93 of 1956.

The Delivery of Books (Public Libraries) Amendment Act No. 99 of 1956.

The Copyright Act 14 of 1957.

A rolling trophy of the value of Rs. 4,000 and a cash prize of Rs. 500 were instituted in Oct. 1954 for the best political piece in journalism in any year.

Press Council Bill No. XII of 1956 was published on July 31, 1956. The Bill seeks to establish a Press Council for the purpose of preserving the liberty of the press and of improving the standards of newspapers in India.

The following is a list of some English dailies with the names of the editors:

Amrita Bazar Patrika, Tushar Kanti Ghosh: Calcutta and Allahabad.

Assam Tribune, L. N Phookan: Gauhati.
Bombay Chronicle, D. C. Patole: Bombay.
Bombay Sentinel, D. C. Patole: Bombay.
Deccan Chronicle, K. R. Pattabhiram (*Mg. Ed.*): Secunderabad.
Deccan Herald, Pothan Joseph: Bangalore.
Eastern Times, J. B. Patnaik: Cuttack.
Evening News of India, N. J. Nanporia: Bombay.
Free Press Bulletin, A. Hariharan: Bombay.
Free Press Journal, A. Hariharan: Bombay.
Hindu, Kasturi Srinivasan (*Managing Editor*): Madras.
Hindustan Standard, Sudhanshukumar Basu: Calcutta.
Hindustan Times, Durga Das (*Chief Editor*): New Delhi.
Hitavada, A. D. Mani (*Chief Editor*): Nagpur.
Indian Express, Frank Moraes (*Editor-in-Chief*): Madras, Bombay, Delhi and Madurai.
Indian Nation, Dr. Sachin Sen: Patna.
Leader, B. N. Sutahi: Allahabad.
Mail, Allan Taylor: Madras.
Nagpur Times, W. G. Sheorey: Nagpur.
National Herald, M. Chalapathi Rau: Lucknow.

* It is proposed to repeal this Act.

Pioneer, S. N. Ghosh : Lucknow.
Searchlight, Pandit M. S. M. Sharma : Patna.
Statesman, G. A. Johnson : Calcutta and New Delhi.
Times of India, N. J. Nanporia : Bombay and New Delhi.
Tribune, J. Natarajan : Ambala.

INDIAN NEWS AGENCIES

The following list is not exhaustive :

Press Trust of India (P.T.I.).
357, *Dr. Dadabhai Naoroji Road, Bombay.*
General Manager, D. P. Wagle.

United Press of India (News Agency),
34, *Ganesh Chunder Avenue, Calcutta* 13.

NAFEN—Near and Far East News (Asia) Ltd.,
Temple Bar Bldg., 70, *Forbes Street, Bombay* 1.

Dhiman Press of India,
Ludhiana (Punjab).

Rao's Press Features,
10, *West Anjaneya Temple Street, Basavangudi, Bangalore* 4.
Editor, K. P. Rao.

FOREIGN NEWS AGENCIES

The following list is not exhaustive :

Agence France Presse : Bureau De New Delhi, 1, Curzon Road, New Delhi
Associated Press of America : 19, Narindra Place, New Delhi.
Reuter's : Marshall House, Hanuman Road, New Delhi.
Tass News Agency : 4, Mathura Road, New Delhi.
United Press Associations : I.E.N.S. Building, Old Mill Road, New Delhi.

INFORMATION SERVICES

Indian Information Service

Indian Government publicity work is carried out chiefly through the following units of the Ministry of Information and Broadcasting :

1. All-India Radio, 2. Press Information Bureau, 3. Publications Division, 4. Films Division, 5. Directorate of Advertising and Visual Publicity, 6. Research and Reference Division, 7. Five-Year Plan Publicity including Field Publicity Unit.

Officers of the Bureau are attached to Central Ministries for publicity purposes.

There are regional offices of the Bureau in Bombay, Calcutta, Madras, Bangalore, Ernakulam, Lucknow, Jullundur, Gauhati, Cuttack, Nagpur, Patna and Varanasi.

There is also a Defence Wing for publicity for the Armed Forces.

The Bureau's news, feature and reference services are provided in the following languages : English, Hindi, Urdu, Gujarathi, Marathi, Tamil, Bengali, Telugu, Malayalam, Assamese, Oriya, Punjabi and Kannada.

Photographs and ebonoid blocks are also issued to the press.

DIRECTORATE OF ADVERTISING AND VISUAL PUBLICITY

The Directorate of Advertising & Visual Publicity functions as the central organization for the Press advertising and display publicity campaigns of the various Ministries of the Government of India (excepting Railways) and their attached and subordinate offices.

The media used for visual publicity are posters, broadsheets, folders, pamphlets, leaflets, calendars etc., and in the field of out-door publicity, neon-signs, hoardings and display boards, cinema slides, advertising films, etc.

The Directorate has an Exhibition Division which, through its central and regional wings, organises exhibitions depicting progress of the Five-Year Plans and other themes of national importance.

British Information Services

('Eastern House', Man Singh Road, New Delhi).
Director : J. T. Hughes.
Deputy Director : A. C. Hall.
Editor-in-Chief : G. d'Arnaud Taylor.
Regional Information Officer: W. D. Nightingale.
Establishment Liaison Officer : D. Higgins.
Librarian and Head of Research and Reference, T. Havey.

Bombay Office : (Mercantile Bank Building, Mahatma Gandhi Road).
Regional Information Officer : J. C. E. Hyde.
Information Officer : T. J. Sigsworth.

Calcutta Office : (1, Harrington Street).
Regional Information Officer : S.E.D. Barff, O.B.E.
Information Officer : J. S. Jasper.

Madras Office : (6, Armenian Street).
Regional Information Officer : J. A. Borron, M.B.E.

Dominion of Canada

(Canada House, 4 Aurangzeb Road, New Delhi).
Commercial Counsellor, Bruce A. Macdonald.
Assistant Commercial Secretary, J. H. Nelson.
(Bombay: Gresham Assurance House, Mint Road,)
Canadian Government Trade Commissioner, T. F. Harris.
Asstt. Trade Commissioner, W. J. Collett.

Commonwealth of Australia

(Australian High Commission, Connaught Place, New Delhi).
Press Attache, A. F. Cleaver.

U. S. Information Service

13, Golf Links, New Delhi.

Country Public Affairs Officer and Counsellor for Public Affairs : Dr. W. Kenneth Bunce.
Deputy Chief Public Affairs Officer and Attache : Dr. Clifford Manshardt.
Executive Officer and Attache : Harold O. Wright.
Chief Information Officer and Attache : Eugene Rosenfeld.
Chief Cultural Affairs Officer and Attache : Dr. Adrian Morse.
Information Officer (T.C.M. Liaison) : Robert A. Brown.
Editor, American Reporter : Robert A. Lee.

54, Jan Path, New Delhi.
(New Delhi Consular District)

Public Affairs Officer and Attache : Arthur Goodfriend.
Cultural Affairs Officer and Attache : Thomas G. Allen.
Information Officer and Attache : Charles K. Waters.

INDIA WHEAT LOAN EDUCATIONAL EXCHANGE PROGRAMME

24, Curzon Road, New Delhi.

Director and Attache, U. S. Embassy, India Wheat Loan Educational Exchange Programme : Dr. Everett M. Woodman.

BOMBAY OFFICE

("International", 16, Queen's Road Estate).

Public Affairs Officer, John V. Lund.
Cultural Affairs Officer, N. Marbury Efimenco.
Cultural Affairs Officer, Christopher L. Sholes.
Information Officer, Harold G. Tufty.
Information Officer, William E. Bates.
Motion Picture Officer, Eugene B. Thomson.
Librarian, Dorothy L. Clark.
Executive Officer, Edward T. Pinch.

CALCUTTA OFFICE

(7, Chowringhee Road, Calcutta 13)

Director, Chester R. Chartrand.
Information Officer, David G. Briggs.
Cultural Affairs Officer, John H. Stumpf.
Exhibits Officer, Geoffrey Groff-Smith.
Cultural Affairs Officer, Robert B. Jaffe.
Director of Library Services, Ruth C. Krueger.
Information Officer, Harry G. Picknell.
Executive Officer, Kathleen O'Malley.
Secretary to Director, Verna Mae Burt.
Public Affairs Trainee, R. Lawrence Garufi.

MADRAS OFFICE

(158, Mount Road, Madras 2.)

Public Affairs Officer, John L. Wiggin.
Information Officer, Orval B. Hopkins.
Cultural Affairs Officer, Arthur L. Funk.
Assistant Information Officer, James J. Brophy.
Assistant Cultural Affairs Officer, Claude B. Cross.
Assistant Cultural Affairs Officer, Harrington E. Manville.

U.S. INFORMATION SERVICE LIBRARY

24, Curzon Road, New Delhi.

Librarian : Miss Sara M. Dilley.

UNITED STATES INFORMATION LIBRARY

150-B, Mount Road, Madras 2.

Director of Library Service : Cecilia F. Johnson.

UNITED STATES INFORMATION LIBRARY

Kerala Office
Main Road, Cantonment, Trivandrum.

Officer-in-Charge : James H. McGillivray.

UNITED STATES INFORMATION LIBRARY

Mysore State
Sri Narasimha Raja Square, Bangalore City.
Officer-in-Charge : Joseph A. Horne.

U. S. READING ROOM

Arundelpet, Guntur.
Director of Reading Room : Vacant.

Turkey

(Turkish Embassy, 27, Jor Bagh, New Delhi)

Egypt

Bombay : Cambata Building, Churchgate Reclamation.
Calcutta : 8/6, Alipore Park Road, Alipore.

Denmark

Royal Danish Embassy, 1, Humayun Rd., New Delhi ; Danish Govt. Trade Commission, Pallonji Mansion, New Cuffe Parade, Colaba, Bombay 5.

France

(Consulate-General).
Vulcan Insurance Building,
5th Floor, Churchgate, Bombay 1.
Consul-General : Henri Dumont.

Italy

(Consulate)
(Vaswani Mansions, Dinsha Wachha Rd., Churchgate Reclamation, Bombay 1).

United Nations Information Centre

(21, Curzon Road, New Delhi).

Director : Eugenio Soler-Alonso.
Dy. Director : Purnendu Basu.
Radio Officer, Mrs. MaThan E' Fend.
Regional Films Officer, Maurice Liu.

Office of the F.A.O. Representative in India and Director, Regional Information Centre

(21, Curzon Road, New Delhi).

F. A. O. Representative in India and Director, Regional Information Centre, P. V. Acharya.

W.H.O. Regional Office for S. E. Asia, Public Information Unit

(Patiala House, Princes' Park, New Delhi).
Information Officer : Gordon Boshell.

U.S.A. CORRESPONDENTS IN BOMBAY

McGraw-Hill World News, The Christian Science Monitor : Sharokh Sabavala (Corinthian, D-1, Colaba, Bombay 5).

PRESS ASSOCIATIONS, SOCIETIES

All-India Newspaper Editors' Conference: *President*, J. Natarajan (*Tribune*); *Secy. General*, D. R. Mankekar; *Treasurer*, Ranbir Singh.

Indian and Eastern Newspaper Society: *President*, Upendra Acharya (*Indian Nation*); *Deputy President*, D. M. Harris (*Statesman*); *Vice-President*, Dr. N. B. Parulekar (*Sakal*); *Hon. Treasurer*, K. Narendra (*Pratap*); *Secretary*, D. K. Thadhani.

Indian Federation of Working Journalists: *President*, J. P. Chaturvedi; *Secretary-General*, R. Narasimhan.

Indian Languages Newspapers' Association (Janmabhoomi Bhavan, Ghoga Street, Fort, Bombay): *President*, A. R. Bhat (*Sampada*, Poona).

Press Owners' Association, Bombay (196-B, Gaiwadi, Girgaon, Bombay).

Southern India Journalists' Federation (15, Ritchie Street, Mount Road, Madras 2).

FEATURE SYNDICATES

International News Service of America: *Agents:* Advertising Films of India Private Ltd., 4th Floor, Pharmed House, Bori Bunder, Bombay 1.

King Features Syndicate (235, East 45th Street, New York 17): *Agents:* Advertising Films of India Private Ltd., 4th Floor, Pharmed House, Bori Bunder, Bombay 1.

PRESS CLIPPINGS

All-India Press Cutting Service: D-2, Amerchand Mansions, Mayo Road, Bombay 1.

Indian Press Service: 12 Mathura Road, New Delhi 14.

International Clipping Service: Lakshmi Building, Sir Pherozeshah Mehta Road, Bombay 1.

Oriental Languages Bureau: Lakshmi Building, Sir Pherozeshah Mehta Road, Bombay 1.

PRESS PHOTO AGENCIES

Bombay Photo Stores (Private) Ltd.: 33-34, Park Mansions, Park Street, Calcutta.

International News Photos: *Agents:* Advertising Films of India Private Ltd., 4th Floor, Pharmed House, Bori Bunder, Bombay 1.

News Photo Flash: 11-12, Scindia House, New Delhi.

Press Photo Bureau: 374, Pycrofts Road, Royapetta, Madras 14.

PRESS COMMISSION REPORT

The appointment of the Commission was announced in a communique issued by the Government of India on September, 23, 1952.

The members of the Commission were: the late G. S. Rajadhyaksha (*Chairman*), Dr. C. P. Ramaswami Aiyar, late Acharya Narendra Deva, Dr. Zakir Hussain, Dr. V. K. R. V. Rao, P. H. Patwardhan, T. N. Singh, Jaipal Singh, J. Natarajan, A. R. Bhat, M. Chalapathi Rao.

Mr. A. D. Mani took the place of Mr. Natarajan in March 1953.

The Commission held its first meeting in New Delhi on October 11 and October 12, 1952.

It submitted its report to the Government of India on July 17, 1954 (signed on July 14).

The following are some of the more important findings of the report (generally speaking, the findings apply to conditions which prevailed in 1951 or 1952):

The daily press in India comprises more than 330 newspapers with a total circulation of nearly 28 lakhs.

Capital invested in the newspaper industry is estimated at about Rs. 7 crores and capital raised in the form of loans is about Rs. 5 crores.

The annual revenue of the daily press is about Rs. 11 crores of which Rs. 5 crores come from advertisements.

The salaries and wages paid in the industry is over Rs. 4 crores of which about Rs. 85 lakhs go to journalists.

The number of newspapers in the country should be greatly increased and more newspapers should come up in the district towns.

A minimum price should be fixed at which papers of a particular size can be sold.

The price-page schedule should prescribe not only the maximum number of pages that could be sold at a particular price, but also the minimum number that must be offered.

The quantum of advertisement in a week's issue of a newspaper should not exceed 40 per cent of the total area.

The publication of newspapers and periodicals should be made a Central responsibility.

To ensure that the schedule is not circumvented by indirect means of price-cutting provisions should be made:

(1) Narrowing down the range of commission that should be paid to news agents, say, between 25 and 33 1/3 per cent.

(2) Banning the publication of entry forms for prize competitions in newspapers and periodicals, which is considered an unjournalistic activity.

Every paper should be constituted as a separate unit so that its profits and losses are definitely ascertainable and both the proprietor and the employees know where they stand.

In the case of multiple editions, each unit should be separated from the others in the matter of accounts. Where a chain consists of a number of groups, each group should be separated from the other.

A strict code of advertising which all members would be compelled to follow and which would be binding also on the associations of advertising agencies and advertisers should be adopted.

The Act for the regulation of the press as an industry should include a section which makes it an offence, punishable with fine or with imprisonment, the issue of fraudulent advertisements for publication.

The appointment of a Press Registrar for the country for the compilation of facts and figures relating to the industry is commended. It should be made incumbent on each newspaper and periodical to file certain returns with the Registrar.

The Registrar should bring out an annual report on the working of the press on its organisational side, including working conditions in the industry, and concentration of ownership.

The present demand for newsprint is estimated at 60,000 tons a year.

A State Trading Corporation entrusted with a monopoly of imports, should also take over the entire output of the Indian mills on a fair basis, and sell it, along with imported newsprint, at equated prices.

NEWS AGENCIES

However objective a news agency strives to be, there are certain drawbacks which arise from a monopoly and which could be obviated only by a competitive service available freely to all users. In the public interest steps should be taken to see that there is more than one news agency functioning efficiently.

News agencies should not be State-owned or State-controlled, and any assistance from the State should have no strings attached, and the State should not have any voice in the control of the agency either editorially or administratively.

In the interests of greater efficiency and smoother operation, certain changes may be brought about in the management of the news agencies.

In the case of P.T.I., a public corporation should be set up, based on the existing organisation but controlled by a board of trustees whose chairman would be appointed by the Chief Justice of India.

In the case of U.P.I. the management is to be by a board of trustees. In both cases, the board should include a trustee to represent the employees.

GOVERNMENT ADVERTISEMENTS

The Government should place advertisements having regard to the following considerations: (1) circulation of the paper and the rates charged by that paper; and (2) readership designed to be reached for the purpose of the particular advertisement.

The Government should assess the rates not with reference to the total circulation of the paper but with reference to the circulation in the area which they intend to reach.

The Government would be justified in claiming special consideration in respect of the rates charged.

There should be a telescopic rate subject to an overall ceiling, which should be treated as the maximum

The Government should take the lead in breaking up the practice of charging combined rates for multiple unit publications.

The liberty and freedom to place advertisements wherever one likes, cannot be conceded to the Government which is a trustee of public funds.

Advertisements cannot be claimed as a matter of right.

NEWSPAPER CONTROL

The newspaper is essentially a public utility and whatever may be the precise form of ownership, the exercise of ownership rights may have to be subject to some measures of restraint and regulation.

In connection with instances where the policy of a paper is dictated by the proprietors to suit their personal interests, there should be a periodical publication in the paper of a complete statement of the names of the proprietors and responsible executives on the newspaper, so that the public could judge the extent to which the views expressed in the paper may have to be rejected as being possibly biased.

Exercise, by the individual owner, of the right of control does carry with it the very real danger of misuse of the press for personal or purely commercial purposes. The remedy lies in the diffusion of effective control, or diffusion of ownership among a large number of persons.

One method of providing diffusion of control without making any change in the ownership of the paper would be to transfer the management to a public trust.

Voluntary agreements of owners to limit their own sovereignty in the public interest should be welcomed.

The lack of effective control by those who share the ownership would be avoided if shares are gradually distributed among the employees who function in the undertaking itself and are in constant touch with all its activities.

There already exists, in the Indian newspaper industry, a considerable degree of concentration, and there is a danger that this tendency might further develop in the future. It would not be desirable, in the interest of freedom of choice, that this tendency should be accentuated.

EDITOR'S STATUS

There has been a general decline in the status and independence of the editor.

When a proprietor chooses his editor, he should also delegate to him a measure of individual authority which would enable him to carry out the policy and to resist any attempt to divert the policy in anti-social directions.

The appointment of an editor should invariably be attended with the execution of a contract of employment or letter of appointment laying down the general policy of the paper in as precise terms as possible. The contract should also make a provision for the determination of editorial policy on such matters as have not been covered specifically by the contract and for the settlement of any differences arising therefrom.

If a difference of opinion arises on a question of policy within the general statement of policy embodied in the contract of appointment and such difference is considered by either party to be so vital as to necessitate severance of employment, the liability for damages and the extent thereof, up to the limit specified in the contract, should be determined by some outside authority.

In the matter of presentation of news, there should be no question of favouring a particular policy or trimming the news to suit that policy, and it should be the responsibility of the editor to decide finally what items of news should go in a paper, and the owner should not be in a position to order a blacking out of any item of news unless, of course, its publication would offend against the law.

The period of notice in the case of editors should not be less than three months during the first three years of service and not less than six months thereafter.

In addition, the editor, should be entitled to compensation for involuntary unemployment, the measure of such compensation, if any, being determined by an independent authority.

WORKING JOURNALIST

On appointment the working journalist should receive either a letter of appointment or a contract as the employee may prefer. It should specify the period of notice for the termination of service.

The minimum periods of notice are in the case of minor journalists such as joint editors, assistant editors, leader writers, news editors and chief sub-editors, two months for service not exceeding three years, three months where the service exceeds three years but not five years, and four months where the service is more than five years.

Similarly, in the case of other working journalists the notice period suggested is one month for service not exceeding two years, two months where it exceeds two years but not five years, three months where it is more than five years but less than ten years and four months in the case of people with longer service.

The minimum wage that is recommended is as follows:

In Class III centres, consisting of towns with a population of less than 100,000, the basic wage of Rs. 125 is to be supplemented by a dearness or cost of living allowance of Rs. 25 making a total of Rs. 150.

In Class II centres, with a population of over 100,000 but less than 700,000, the dearness allowance is to be Rs. 50 making a total of Rs. 175.

In Class I-B centres, having a population of over 700,000, the basic wage of Rs. 125 is to be supplemented by a dearness allowance of Rs. 50 and a city allowance of Rs. 25 making a total of Rs. 200.

In Class I-A metropolitan centres, Bombay, Calcutta, Madras and Delhi the basic wage and dearness allowance will remain unaltered but the city allowance will be Rs. 50 making a total of Rs 225.

If there is a substantial rise in the cost of living the dearness allowance should be increased to the appropriate extent.

A scheme which combines provision for a provident fund and a gratuity is the best way of providing retirement benefits.

The employee should contribute 1/12th of his emoluments and the employer should contribute an equal amount towards a provident fund created under the Employees' Provident Fund Act (XIX of 1952).

The amount thus accumulated for a period of three years should be utilised for purchasing a single premium policy of life assurance which would ensure some provision for the employee's family in the case of his sudden death.

On the termination of service by retirement, resignation, death or for any reason other than misconduct, gratuity should be paid to a working journalist who has put in continuous service for three years or more on the basis of 15 days' pay for every year of service, or part thereof in excess of six months, calculated on the average emoluments during the last year of service.

The gross profits of a newspaper should be ascertained in the normal way.

After making provision for payment of taxes, for depreciation at the rates allowable under the Income-Tax Act and after a return on the invested capital at the rate of four per cent or half per cent more than the bank rate whichever is higher, the balance should be divided into three equal parts, one of which should be available for the payment of bonus. An equal amount should be reserved for ploughing back into the industry and as a provision for meeting future losses. The balance should be available for distribution to shareholders.

WORKING CONDITIONS

The total number of holidays for newspapers should not exceed ten in number, to be distributed according to local requirements.

Journalists must have casual leave, in addition, for 15 days in a year, and earned leave for one month for every 11 months of service.

Further, they should be entitled to sick leave at the rate of 20 days per every year of completed service, on half salary, with option to convert it into half the period on full salary.

The provisions regarding notice period, bonus, minimum wages, leave, provident fund and gratuity should be embodied in the legislation proposed for the regulation of the newspaper industry.

These recommendations should apply to employees of daily, bi-weekly and tri-weekly newspapers and also to employees of news agencies in the first instance.

There should be no disparity in respect of minimum wage between employees of English newspapers and those of Indian language papers.

Other matters such as classification of employees, hours of work, shift working, suspension or dismissal for misconduct, etc., are to be dealt with under standing orders when the new legislation governing industrial relations comes into force.

Working journalists may find it necessary to organise themselves as trade unions under the Indian Trade Union Act of 1926.

Such unions should, however, keep themselves aloof from any political bodies or movements in the country.

The definition of the word "employee" in the proposed legislation should be wide enough to include within its purview the working journalists as well as employees on the managerial side, or alternatively a provision may be inserted in the proposed Newspapers and Periodicals Act making the new Industrial relations legislation applicable to newspaper employees.

PRESS COUNCIL

An All-India Press Council should be set up by statute. Its objects among others, will be :—

(1) To safeguard the freedom of the press and help the press to maintain its independence.

(2) By censuring objectionable types of journalistic conduct, and by all other possible means, to build up a code in accordance with the highest professional standards.

(3) To study developments in the press which may tend towards concentration or monopoly and, if necessary, to suggest remedies therefor.

(4) To publish reports, at least once a year, recording its work and reviewing the performance of the press, its development, and the factors affecting them.

(5) To improve the methods of recruitment, education and training for the profession, by the creation of suitable agencies for the purpose such as a Press Institute.

The Press Council should have 25 members excluding the chairman who should be a person who is or has been a judge of a High Court and should be nominated by the Chief Justice of India.

Out of these, 13 or more should be working journalists, and the others should be drawn from newspaper proprietors, universities, literary bodies, etc.

A cess of Rs. 10 per ton should be levied on the consumption of newsprint and expenditure on the Council and its ancillaries be met from the funds thus collected.

PRESS LAWS

The principal changes brought about by the Constitution (first amendment) Act of 1951 were to permit legislative restrictions of a reasonable character (1) on incitement to offence, (2) in the interest of the security of the State, and (3) in the interest of friendly relations with foreign States.

The Commission are unanimous that the first is necessary.

Four members would prefer that the second should be replaced by a reference to "prevention of disorder".

The majority of the Commission are in favour of retention of the words "in the interests of friendly relations with foreign States".

Press Objectionable Matter Act: The Act should hold the editor also responsible along with the publisher and the keeper of the press.

The majority feel that the continuance of the Act after February 1956 would depend upon the performance of the press during the next two years and on the extent to which the Press Council is able to exercise a restraining influence on the erring section of the press.

Section 124A: This section is *ultra vires* of the Constitution even under the amended Article 19 (2) and opposed to the concept of the freedom of the press. The section should therefore be repealed.

Expressions which incite persons to alter, by violence, the system of Government with or without foreign aid should, however be punishable, and this may be done by the insertion of a new Section 121B.

Section 153-A: The possibility of this section being held void does exist even after the amendment of Article 19 (2) and it should be placed outside the possibility of a challenge by restricting its operations to those cases where there is intention to cause disturbance of public peace or knowledge of likelihood of violence ensuing.

An explanation may be added to this section to the effect that it does not amount to an offence under this section to advocate a change in the social or economic order provided that such advocacy is not intended or likely to lead to disorder or to the commission of offences.

Section 295-A: Even if this may be protected by the words "public order and morality" in Article 19 (2) of the Constitution it should be brought indisputably within the provisions of the Constitution by limiting its operations to those cases where there is intention to cause violence or knowledge of likelihood of violence ensuing.

Section 99A and 99B : These should be amended suitably in the light of the changes suggested above.

Section 144 : The Commission support the view of the Press Law Inquiry Committee that it was not the intention of the framers of the code that this section should be applied to the press.

The Commission consider it desirable that both Parliament and State legislatures should define by legislation, as contemplated in Articles 105 and 194 of the Constitution, the precise powers, privileges and immunities they possess in regard to contempt and the procedure for enforcing them.

They recommend that exception 4 to Section 499 of the Indian Penal Code be amended by inserting the words "or of Parliament or State legislature" to give effect to the principle that publication of a substantially correct report of the proceedings in a legislature is privileged on the same principle as an accurate report of the proceedings in a court of justice is privileged, and that the advantage of publicity to the community at large outweighs any private injury resulting from the publication.

The Commission do not approve of the suggestion that when a public servant is defamed, that should constitute a cognizable offence.

To meet the possibility that there may be cases where serious allegations are made the Commission suggest that a third proviso may be added to Section 198 of the Criminal Procedure Code to the effect that where a public servant has been aggrieved by allegations the magistrate with jurisdiction may take cognizance of the offence upon a complaint made in writing by some other public servant to whom the aggrieved person is subordinate.

The Commission is unanimous in recommending an amendment to the law of defamation on the lines of the English Defamation Act of 1952 which gives protection to a person in respect of unintentional defamation.

WORKING JOURNALISTS ACT

The Minister for Information and Broadcasting announced on December 22, 1954 that Government accepted the following recommendations of the Press Commission :

1. Institution of a Press Council, 2. Maintenance of separate accounts of each unit of a chain of newspapers, 3. Institution of an Advertising Council to enforce a code of advertising, 4. Manufacture of printing machinery in India, 5. The principle of extending to working journalists the provision of the Industrial Disputes Act, 6. The appointment of an accreditation committee at the Centre and the States to advise on accreditation, 7. Periodical publication in every newspaper of a complete statement of proprietors and responsible executives—appropriate action would be taken on this.

Mr. M. L. Bhardwaj has been appointed Registrar of Newspapers of India.

Journalists were brought within the purview of the Industrial Disputes Act by an Ordinance which came into force in March 1955.

The Working Journalists (Conditions of Service) and Miscellaneous Provisions Act, 1955 received the President's assent on 20th December 1955. The Act is meant to regulate certain conditions of service of working journalists and other persons employed in newspaper establishments. The Act extends to the whole of India except Jammu and Kashmir.

Some of the more important provisions are summarized below in non-legal language :

Newspaper may include any class of periodical containing public news or comments on public news as may from time to time be notified by the Central Government.

'Working journalist' is one whose principal avocation is that of a journalist. It includes editor, leader-writer, news-editor, sub-editor, feature-writer, copy-taster, reporter, correspondent, cartoonist, news-photographer, proof-reader. It excludes persons employed in managerial, administrative or supervisory capacity.

The provisions of the Industrial Disputes Act, 1947 will apply to working journalists as they apply to workmen except that the period of notice, in relation to retrenchment should be six months in the case of an editor and three months in the case of any other working journalist.

Any working journalist who has had three years' service before or after the commencement of the Act, and his services are terminated for any reason whatsoever (except disciplinary action) or he retires on reaching the age of superannuation or voluntarily resigns—should be paid without prejudice to rights or benefits accruing from the Industrial Disputes Act gratuity equivalent to fifteen days' average pay for every completed year of service or part in excess of six months.

In the case of newspaper offices employing not more than six working journalists the gratuity will be less : three days' average pay for every year of service for those with service which does not exceed five years ; five days' average pay for service which does not exceed ten years ; seven days' average pay if the service exceeds ten years.

No working journalist should be made to work more than 144 hours during any period of four consecutive weeks exclusive of the time for meals.

He should have a day's rest in a week, which should include the period 10 P.M. to 6 A.M.

He should have earned leave on full wages for a period not less than one-eleventh of the period spent on duty, and leave on medical certificate on half wages for not less than one-eighteenth of the period of service.

In exercise of the powers vested in it by the Act, the Government of India constituted a Wage Board* for Working Journalists under the Chairmanship of Mr. H. V. Divatia. Besides the Chairman, the Board consisted of six members, three representing the employees and three the working journalists. The six members were G. Narasimham, A. R. Bhatt, K. P. Kesava Menon, R. Venkataraman, C. Raghavan and G. N. Acharya. The function of the Board was to inquire into the wage structure of Indian journalists and fix the scale of remuneration.

The Board had its headquarters at Bombay.

Government notification said :

In fixing the wages the Board should take note of cost of living, the prevalent rates of wages for comparable employments, circumstances relating to the newspaper industry in different regions and other relevant circumstances. The Board may fix wages for time-work and for piece work. The decision of the Board will take effect at the time specified, or if no time is specified on the day the decision is published in the gazette.

The decision of the Board is binding on all employers, and the wages paid to the working journalists shall not be less than those specified.

The Government may in consultation with the Board fix interim wages which would be binding on employers.

The Employees Provident Fund Act will apply to every newspaper establishment employing twenty or more persons.

The Industrial Employment (Standing Orders) Act 1946, has been made applicable to working journalists.

If, in general, an employee has a contract with more favourable terms these terms will prevail.

An offence under this Act is not cognisable and a complaint must be made within six months of the commission of the offence complained of.

The Central Government can make rules on gratuity, hours of work, holidays, earned leave, leave on medical certificate, casual leave, or any other leave admissible, the procedure to be followed by the Wage Board.

The rules will be laid before both Houses of Parliament.

WAGE BOARD AWARD

The decisions of the Wage Board for Working Journalists, were gazetted on May 11, 1957.*

The Board has classified newspaper establishments into five categories according to their revenue.

Weeklies and periodicals published by newspaper establishments which do not publish dailies, have been classified on the basis of circulation.

Full-time working journalists have been grouped into four categories for the purpose of determining emoluments.

Retrospective effect was to be given to the Board's decisions from the date of the constitution of the Board namely May 2, 1956, in respect of newspaper establishments belonging to classes 'A' (gross revenue of over Rs. 25 lakhs), 'B' (gross revenue of over Rs. 12½ lakhs to Rs. 25 lakhs), 'C' (gross revenue of over Rs. 5 lakhs to Rs. 12½ lakhs).

In respect of newspaper establishments in classes 'D' (gross revenue of over Rs. 2½ lakhs to Rs. 5 lakhs), 'E' (gross revenue of Rs. 2½ lakhs and below), the Board's decisions were to be operative from November 1,1956.

Minimum basic wages for a proof reader in the several classifications range between Rs. 90 and Rs. 125, for a Sub-editor between Rs. 90 and Rs. 175, for an Assistant Editor between Rs. 150 and Rs. 500 and for an Editor between Rs. 150 and Rs. 1,000.

The Board has prescribed a dearness allowance ranging between Rs. 30 and Rs. 200, which is linked to the All-India cost of living index.

In areas with a population of more than one lakh, every working journalist will get in addition a location allowance ranging from Rs. 7·50 nP to Rs. 50.

By March 10, 1958 it was found that fifty-nine newspapers had implemented the decisions fully and another fifty-nine had implemented the decisions partially. The position State-wise is as follows. The first figure shows the number of papers which had implemented fully and the second partially :

Kerala : none, 6 ; Orissa : 5, none ; Andhra : 3, 41 ; U.P. : 5, none ; Bombay : 17, 3 ; Bihar 2, 2 ; Punjab : 5, 1 ; Madhya Pradesh : 2, none ; Assam : 5, none ; Rajasthan : 3, none ; Madras 3, none ; Delhi : 9, 5.

The following newspaper establishments namely Express Newspapers Private Ltd., Press Trust of India, Hindustan Times Publications, Janmabhoomi Group of Newspapers run by Samashtra Trust and Indian National Press Ltd publishing the Free Press Journal and other newspapers challenged the Board's decisions in the Supreme Court.

The Supreme Court delivered its judgement on March 19, 1958. It upheld the validity of the Working Journalists Act except for a single provision but set aside the decisions of the Wage Board on the ground that the Board did not take into account adequately the capacity of the industry in fixing the rates of wages.

The Court held that the decisions, which were published by the Government of India on May 11, 1957, had been arrived at contrary to the mandatory provisions of Section 9(1) of the Working Journalists Act, which required the Wage Board to have regard to the capacity of the industry in fixing rates of wages, and were, therefore, illegal and void.

The Court also came to the conclusion that Section 5(1) (A) (III) of the Act, which entitled a working journalist to payment of gratuity on his resignation any time after three years, was unreasonable and, therefore, violated the fundamental right to freedom of trade guaranteed under Articles 19(1) (G) of the Constitution.

* The Board signed the report carrying their decisions in Bombay on 24th April 1957.

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Regular monthly sailings serving: Japanese main ports—Hongkong—Singapore — Port Swettenham — Penang — Colombo — West and East Coast of India — Karachi and *vice versa*.

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Regular sailings serving : Japanese main ports—Hongkong—Singapore — Port Swettenham — Penang — Ports at the Bay of Bengal and *vice versa*.

MITSUI WESTBOUND ROUND-THE-WORLD SERVICE

Regular monthly sailings serving : Japanese main ports—Philippines—Singapore—Port Swettenham—Penang—Colombo—Tuticorin—Cochin—Bombay—Port Said—Port Sudan—Genoa—Marseilles — Casablanca — Ports in U.S.A. (Atlantic Coast, Gulf and Pacific Coast).

MOGUL LINE LTD.

Mg. Agents :—Turner, Morrison & Co. Private Ltd., 16, Bank Street, Bombay 1. *Phone :* 25-1321.

Pilgrim Booking Office :—Nos. 4 & 5, Mahomed Haji Saboo Siddick Musafirkhana, Carnac Road. *Phone :* 26-2780.

Regular service from Bombay and Karachi to Red Sea ports and Mauritius. A special Pilgrim Service is arranged from Bombay, Karachi and Chittagong to Jedda during Haj season.

N. Y. K. LINE

Nippon Yusen Kaisha, Tokyo.

Agents :- -James Mackintosh & Co. Private Ltd., Post Box No. 123, Darabshaw House, Ballard Road, Bombay 1. *Telegram* :— 'MACKINTOSH.' *Telephones :* 26-1686 and 26-4598.

The Bombay Co. Private Ltd., P.O. Box 109, Broadway, Madras-1. *Phones* :—2000, 2009, 2056. *Telegrams :* 'GLADIATOR'.

James Finlay & Co., Ltd., 2, Netaji Subhas Chandra Road, Calcutta. *Phone* :—Bank 4061. *Telegrams* :—'MERCATOR'.

SERVICES

(i) Japan/India/Pakistan/Persian Gulf.
(ii) Japan/Calcutta.

STEVENSON LINE NEW YORK

Agents :—James Mackintosh & Co Private Ltd., Ballard Road, Fort.

U.S A.—

Persian Gulf/India/Pakistan Service.

POLISH OCEAN LINES

24, 10 *Lutego, Gdynia (Poland).*

a) Continent India Pakistan Service.

b) Continent India Burma Far East Service.

Bombay Branch :—The Polish Ocean Lines, Bharat Insurance Bldg., 15/A, Horniman Circle, Fort, Bombay 1.

Telegraphic Address :— "POLLINES", Bombay.

Telephone No. :—255605 6.

Agents :—James Mackintosh & Co (Pr.) Ltd., Ballard Road, Fort, Bombay.

Phones : 261686 and 264598.

International Clearing and Shipping Agency, 20 B, Second Line Beach, Madras *Phones* : 4151 and 3303

Khemka & Co. (Agents) Pr. Ltd., 31,32 India Exchange Place Extn., Calcutta 1 *Phones :* 226290 and 221014.

Karachi Office :—The Pak Ocean Shipping Co., Ltd., Qamar House, Bunder Road.

ROYAL INTEROCEAN LINES

188 191, *Connaught Road West, Hongkong.*

Agents :

Bombay : Forbes, Forbes, Campbell & Co. Private Ltd., Home Street, Fort.

Karachi : Forbes, Forbes, Campbell & Co. Ltd., Corner of Bunder & Dunolly Roads.

Alleppey : Darragh, Smail & Co. Ltd., Alleppey, P.O. Box No. 50.

Cochin : Darragh, Smail & Co. Ltd., Post Box 19.

Trading Ports :

Monthly sailings from Bombay and Cochin *via* Colombo, Malaya and Indonesia to Australia.

SCINDIA STEAM NAVIGATION CO., LTD.

Scindia House, Dougall Road, Ballard Estate, Bombay

Telephone No. :—268161 (11 lines).

SERVICES

Coastal Services :- (*Telegrams :* "JALANATH"). *Services :* India, Pakistan, Burma & Ceylon.

Overseas Services :-(*Telegrams :* "SAMUDRAPAR"). Regular services : (*a*) India-Pakistan, U.K. Continent ; (*b*) India Mauritius/West Africa ; (*c*) India, Levant Ports, U.S.S.R. (Black Sea Ports).

UNITED LINER AGENCIES OF INDIA (PRIVATE) LTD.

Kaiser-i-Hind Building, Ballard Estate, Bombay 1.

Telegraphic Address :—" ULINERS ".

Telephones :—26-3542 ; 26-3697 ; 26-4596.

SERVICES

Agents for the East Asiatic Co., Ltd., Copenhagen, the Swedish East Asia Co., Ltd., Gothenburg and Wilhelmsen Lines, Oslo. Maintains Joint Services from Scandinavian, Continental, Mediterranean and Red Sea ports to India, Pakistan, Ceylon and Burma and *vice versa*.

There are 2-3 vessels a month bringing import cargo to Karachi and Bombay and an equal number of sailings loading at Karachi, Kathiawad ports and Bombay for Red Sea, Mediterranean, North Continent and Scandinavia.

Another separate Service is maintained to the East Coast of India, Pakistan and Burma, and these vessels normally call at Colombo, Madras, Rangoon, Chittagong and Calcutta and on completion of discharge of import cargo, load at the same ports plus Chalna in East Pakistan and Malabar Coast ports for Red Sea, Mediterranean, North Continent and Scandinavia.

YUGOSLAV LINE

Jugoslavenska Linijska Plovidba Yugoslav Line, Rijeka, Yugoslavia.

Agents :

BOMBAY :—Madhavlal & Co., Private Ltd., Alice Building, Dadabhoy Naoroji Road, Bombay 1. *Telegraphic Address :* ' ABILITY '.

Telephones : 251569, 22270 & 251024.

CALCUTTA :—Madhavlal & Co. Private Ltd., Mercantile Buildings, 9, Lall Bazar Street, Calcutta. *Telegraphic Address :* ' OMAMBAJI' *Telephone :* 222815.

MADRAS :—Southern Shipping Corporation, 159/160, Moore Street, Madras. *Telegraphic Address :* ' SOUTHSHIP '.

SERVICES

Adriatic to Far East starting from Rijeka to Hongkong and back.

THE MERCHANT STEAM NAVIGATION CO. (PRIVATE), LTD.

289-93, Narsi Natha Street, Bombay 9.

Telephones : 38055 & 38056.

Established : 1921.

Branches :

The Merchant Steam Navigation Co. (Private), Ltd., Beach Road, Calicut.

The Merchant Steam Navigation Co (Private), Ltd., Alleppey.

The Merchant Steam Navigation Co. (Private), Ltd., Tellicherry.

The Merchant Steam Navigation Co. (Private), Ltd., Badagara.

Agents :

MALABAR PORTS :—Messrs. Bhanjee Jevath Khona, Bazar Road, Cochin ; M/s. Gordhandas Khimji, Cannanore ; M/s. Ramdas Vassanji, Ponnani ; The United Shipping Corporation Ltd., Port Road, Mangalore (South Kanara) ; The Central Commercial Co., 73, Mint Road, Madras ; M/s. V. V. Danushkodi Nadar & Sons, Post Box No. 2, Tuticorin.

SAURASHTRA PORTS :—M/s. Pestonjee Bhicajee, Kandla, Veraval, Okha, Navlakhi, M/s. Darabshaw B. Cursetji's Sons, Bhavnagar (Saurashtra) ; M/s. Prabhulal L. Pandya & Co., Outside Bedi Gate, Jamnagar (Saurashtra), Shri Digvijaya Cement Co., Ltd., Sika Port.

GOA :—M/s. Mehta & Co., Vasco-da-Gama.

KARACHI :—M/s. Engineers Edulji & Co., Kemary, Karachi (Pakistan)

COLOMBO :—M/s. M. A. Razak & Co., Ltd., Gaffoor Building, Colombo 1.

SERVICES

From Bombay to Calicut, Cochin and Tuticorin and at the same time touching other minor ports also and *vice versa*.

From Bombay to Saurashtra Ports and *vice versa*.

Also touch Colombo & Karachi according to demand.

MESSAGERIES MARITIMES CO.

9, *Rue de Sese, Paris-9*

Agents :

ALLEPPEY :—Darragh Smail & Co., Ltd. *Telegraphic Address :* 'DARRAGH'.

BOMBAY :—Volkart Brothers, 19, Graham Road, Ballard Estate, P.O. Box No. 199, Bombay-1. *Telegraphic Address :* 'ENGADINE'.

PASSENGER AGENTS :— Nisa & Co., 32, Rampart Row, Bombay 1. *Telegraphic Address :* 'NISTEAM'.

CALCUTTA : Clegg, Cruickshank & Co., Ltd., 14, Netaji Subhas Road, P.O. Box. No. 548, Calcutta-1. *Telegraphic Address :* 'CLEGG'.

COCHIN :—Darragh Smail & Co., Ltd. *Telegraphic Address :* 'DARRAGH'.

COCANADA (Kakinada) :—Gordon Woodroffe & Co. (Madras) Ltd., Kakinada. *Telegraphic Address :* 'WOODROFFE'.

MADRAS :—Messageries Maritimes Co., 6/20, North Beach Road, Madras-1. *Telegraphic Address :* 'MESSAGERIE'.

PONDICHERRY :—Messageries Maritimes Co., 7, Cours Chabrol. *Telegraphic Address :* 'MESSAGERIE'.

O. S. K. LINE

Osaka, Japan.

Agents :

BOMBAY :—Marine Transport Company Private Ltd., Wakefield House, Sprott Road, Ballard Estate, P.O. Box 1721. *Tel.* 264094, 264095. *Telegraphic Address :* 'CHARTERING'.

KARACHI :—M. M. Ispahani Ltd., McLeod Road. *Telephones :* 33771, 33772, 33773. *Tel. Address :* 'OSKISPA'.

MADRAS :—Best & Co., Private Ltd., P.O. Box 63. *Telephone :* 2933. *Tel. Address :* 'BEST'.

CALCUTTA :—F. W. Heilgers & Co., Private Ltd., Chartered Bank Building, P.O. Box 185. *Telephone :* Bank 2351. *Tel. Address :* 'HEILGERS'.

Regular monthly freight Services to and from India:

Karachi, Bombay/Japan Line.

(*Via* Colombo, Madras, Singapore, Hongkong).

Calcutta/Japan Line.

(*Via* Rangoon, Singapore).

BROCKLEBANKS' CUNARD SERVICES

Thos. & Jno. Brocklebank Ltd., Cunard Building, P.O. Box No. 26, Liverpool 3.

Agents :

Grahams Trading Co. (India) Private Ltd., 6, Lyons Range, Calcutta 1. *Telegrams :* "GRAHAMS". *Telephone :* 22-4701 (5 lines).

Ripley & Co., Ltd., P.O. Box No. 39, Vishakapatnam. *Telegrams :* "RIPLEY". *Telephone :* 71.

Services to Aden, Port Sudan, Port Said, Boston, New York, Wilmington (Del.), Philadelphia, Norfolk, Baltimore and Savannah, New Orleans, Houston and Galveston.

INDIA-NATAL LINE

Agents :

CALCUTTA :—Anderson Wright Ltd., P.O. Box 140, 7, Wellesley Place, Calcutta-1. *Telephone :* 23-2572/5. *Telegrams :* 'TALWEIR'.

MADRAS :—Parry & Co., Ltd., P.O. Box 12, Madras-1. *Telephone :* 2983. *Telegrams :* 'WEIRTAL'.

VISHAKAPATNAM :—James Finlay & Co. Ltd. *Telephone :* 80. *Telegrams :* 'MERCATOR'.

Trading ports :—Calcutta, Madras, Chalna, Chittagong, Rangoon, Colombo, Mombasa, Tanga, Zanzibar, Dar-es-Salam, Beira, Lourenco Marques and Durban.

Only cargo service.

ISTHMIAN LINES, INC.

71, *Broadway, New York* 6, *N.Y., U.S.A.*

Agents :

A. V. Thomas & Co., Ltd., Beach Road, Alleppey. *Telegraphic Address :* 'THOM-ALLEPPEY'. *Phone :* 625.

Chotalal Premji & Co., Bedi Bunder. *Telegraphic Address :* 'CHOPREMJI', Bedi Bunder.

Mackinnon Mackenzie & Co., Private Ltd., Post Box 122, Bombay. *Telegraphic Address :* 'MACKINNONS'. *Phone :* 268021.

The Angus Co., Ltd., 2, Clive Row, Post Box 53, Calcutta. *Telegraphic Address :* 'ANGUSPENCE'. *Phone :* 225801/3.

A. V. Thomas & Co., Ltd., Kozhikode. *Telegraphic Address :* 'THOM'.

A. V. Thomas & Co., Ltd., Ballard Road, Post Box 20, Cochin. *Telegraphic Address :* 'AVITHOM COCHIN'. *Phone :* 256.

The Coromandel Co., Ltd., Kakinada. *Telegraphic Address :* 'HALL'.

Hargovind & Co., Cutch Mandvi. *Telegraphic Address :* 'HARGOVIND'.

Binny & Co. (Madras) Ltd., Post Box 66, Madras. *Telegraphic Address :* 'BINNY'. *Phone :* 2975.

Peirce Leslie & Co., Ltd., Post Box 9, Mangalore, South India. *Telegraphic Address :* 'PEIRCE'. *Phone :* 10.

General Agency Ltd., Mormugao (Portuguese India). *Telegraphic Address :* 'GENAGENCY'.

Chotalal Premji & Co., Morvi (Kathiawar), Navalakhi. *Telegraphic Address :* 'CHOPREMJI'.

Parry & Co., Ltd., Nagapattinam. *Telegraphic Address :* 'UBIQUITOUS.'

Chotalal Premji & Co., Port Okha. *Telegraphic Address :* 'CHOPREMJI'.

A. V. Thomas & Co., Ltd., Quilon, Kerala. *Telegraphic Address :* 'THOM QUILON'. *Phone :* 414.

A. & F. Harvey Ltd., Tuticorin. *Phone :* 6. *Telegraphic Address :* "HARVEY".

James Finlay & Co., Ltd., Vishakapatnam. *Telegraphic Address :* 'MERCATOR'. *Phone :* 680.

The names of the main trading ports in India, Pakistan and Ceylon :

India : Alleppey, Bedi Bunder, Bombay, Calcutta, Kozhikode, Cochin, Kakinada, Cutch Mandvi, Madras, Mangalore, Mormugao, Navalakhi, Nagapattinam, Port Okha, Quilon, Tuticorin, Vishakapatnam.

Pakistan : Karachi, Chittagong, Chalna (Khulna).

Ceylon : Colombo, Galle.

CITY LINE LTD.

75, *Bothwell Street, Glasgow C.* 2, *Scotland.*

Agents :

Best & Co., Private Ltd , Madras, P.O. Box 63. *Phone :* 2933. *Telegrams :* 'BEST'.

Gladstone Lyall & Co., Ltd., Vishakapatnam. *Telegrams* 'GLADSWYLL'. *Phone :* 124.

Gladstone Lyall & Co. Ltd., 4, Fairlie Place, Calcutta 1. *Telegrams :* 'GLADSWYLL'. *Phone :* 2561-67.

Killick Nixon & Co., Private Ltd., Post Box 109, Home Street, Bombay. *Telegrams :* 'KILLICK'. *Phones :* 262081 (Shipping), 261395 (Clearing); 263461 (General—7 lines).

Aspinwall & Co., Ltd., Fort Cochin, Malabar Coast, South India. *Tel. :* 'ASPINWALCO'. *Phones :* 207, 397.

Important trading ports are London, Dundee, Avonmouth, Hull, Dunkirk, Boulogne.

KHEDIVIAL MAIL LINE

S.A.E., Alexandria

Agents :—Marine Transport Company Private Ltd , Wakefield House, Sprott Road, Ballard Estate, P.O. Box 1721, Bombay 1.

Telegraphic Address : 'CHARTERING'. *Phones :* 264094 & 264095

Services :—The Line's vessels ply between Bombay, Karachi, Aden, Djibouti, Port Sudan, Jeddah, Suez, Port Said, Alexandria, Beyrouth, Naples, Leghorn, Genoa, Marseilles, Charleston, Baltimore, Philadelphia, Norfolk and New York and *vice versa*.

CANADIAN PACIFIC RAILWAY CO.'S STEAMSHIP LINES

Montreal, Quebec State, Canada.

Head Office of Canadian Pacific Steamships Ltd. (Managers and Agents of C.P.R. Co.'s Ocean Steamship Lines), Royal Liver Building, Pier Head, Liverpool.

Agents :—Mackinnon, Mackenzie & Co., Private Ltd., Calcutta and Bombay.

Telegraphic Address : Mackinnons.

Phone : Calcutta—22-1661 and Bombay—26-6021.

Services :—U.K. to Quebec and Montreal (Summer); U. K. to Saint John N. B. and Halifax N. S. (Winter).

PENINSULAR AND ORIENTAL S. N. CO.

122, *Leadenhall St., London E.C.* 3.

Agents :

Mackinnon Mackenzie & Co., Private Ltd., Calcutta and Bombay.

Binny & Co. (Madras) Ltd., 7, Armenian Street, Madras-1.

Services :—U.K.-Gibraltar, Marseilles, Malta, Port Said, Suez, Port Sudan, Aden, Bombay; Colombo, Straits, China and Japan, Freemantle, Adelaide, Melbourne, Sydney and Brisbane; to Colombo, Madras and Calcutta (joint cargo service with B.I.S.N. Co. Ltd.).

AIRWAY COMPANIES

AIR-CEYLON LTD.

Stadium House, 81-83, Veer Nariman Road (Churchgate), Bombay 1.
Tel.: 36237. *Cable Address:* 'AIRCEYLON', Bombay.

The Company operates Services on the following routes:—

SINGAPORE — COLOMBO — BOMBAY — KARACHI — BAHRAIN — CAIRO — ROME — LONDON — AMSTERDAM AND *vice versa* (Weekly).

COLOMBO—JAFFNA—MADRAS AND *vice versa* (Daily).

COLOMBO — JAFFNA — TRICHINOPOLY AND *vice versa* (Mondays, Wednesdays, Fridays and Thursdays).

AIR-FRANCE

Regional Head Office: Middleton Street, 41, Chowringhee Road, CALCUTTA. *Tel.:* 445308, 445390.

Branch Offices: Scindia House, Janpath, NEW DELHI. *Tel.:* 40491, 40492.

Dhanraj Mahal, Apollo Bunder, BOMBAY. *Telephone:* 253800.

LONDON — PARIS — FRANKFURT — ROME — ISTANBUL — TEL AVIV — TEHERAN — KARACHI — NEW DELHI — CALCUTTA — RANGOON — BANGKOK — SAIGON — HONG KONG — MANILA — TOKYO.

AIR-INDIA INTERNATIONAL CORPORATION

Offices:—AHMEDABAD: C/o Indian Airlines Corporation, Dr Tankaria Road; *Telephone* 3830. BANGALORE: Mahatma Gandhi Road; *Telephone*, 4615. BOMBAY: Mahatma Gandhi Road; *Telephone:* 259191 CALCUTTA: 4, Dalhousie Square; *Telephone:* 233314. COIMBATORE: Trichy Road; *Telephone* 602. COLOMBO: Gafoor Building, Fort; *Telephone* 3136 DELHI: 9-A, Connaught Place; *Telephone:* 40503. JAMSHEDPUR: C/o Room No. 2, Tisco Hotel JORHAT C/o Eastern Hotel. JULLUNDUR: 531, Model Town KARACHI: Metropole Hotel; *Telephone:* 52474 MADRAS: Mount Road; *Telephone:* 86193.

Cable address for all offices: "AIRINDIA".

Air-India International operates services on the following routes:—

1 CALCUTTA — DELHI — BOMBAY — CAIRO — DAMASCUS — BEIRUT — ROME — GENEVA — ZURICH — PRAGUE — PARIS — DUSSELDORF — LONDON AND RETURN (*Daily Service*).

2 BOMBAY — MADRAS — SINGAPORE — DARWIN — SYDNEY AND RETURN (*Once a week*).

3 BOMBAY — CALCUTTA — BANGKOK — HONG KONG — TOKYO AND RETURN (*Twice a week*)

4 *a*) BOMBAY — KARACHI — ADEN — NAIROBI AND RETURN (*Once a week*).

b) BOMBAY — ADEN — NAIROBI AND RETURN (*Once a week*).

All flights operated by Super Constellation aircraft.

BRAATHENS, SOUTH AMERICAN & FAR EAST AIR TRANSPORT A/S.

General Agents:—Tidemand & Co. (India) Private Ltd., India House, Fort Street, Bombay 1.

World-wide charter Operators.

BRITISH OVERSEAS AIRWAYS CORPORATION

Offices: 202-B, Vir Nariman Road, Churchgate, Bombay 1; Speedbird House, Service Road, Connaught Place, New Delhi-1; 41, Chowringhee Road, Calcutta-16; 35/4, Mount Road, Madras 2.

1. BRITANNIA—FIRST CLASS SERVICE

LONDON — ZURICH — BEIRUT — KARACHI — CALCUTTA — SINGAPORE — JAKARTA — DARWIN — SYDNEY.

2 BRITANNIA—FIRST/TOURIST CLASS SERVICES

(*a*) LONDON — ZURICH — BEIRUT — KARACHI — CALCUTTA — SINGAPORE — JAKARTA — DARWIN — SYDNEY.

(*b*) LONDON — BEIRUT — KARACHI — DELHI — RANGOON — BANGKOK — HONG KONG — TOKYO.

(*c*) LONDON — FRANKFURT — BEIRUT — BAGHDAD — KARACHI — CALCUTTA — BANGKOK — HONG KONG — TOKYO.

(*d*) LONDON — ROME — BEIRUT — BASRA — KARACHI — CALCUTTA — RANGOON — HONG KONG — TOKYO.

(*e*) LONDON — ZURICH — BEIRUT — BAHRAIN — BOMBAY — COLOMBO — SINGAPORE — HONG KONG.

(*f*) LONDON — ROME — DAMASCUS — KARACHI — BOMBAY — COLOMBO — SINGAPORE — HONG KONG.

(*g*) LONDON — ROME — BEIRUT — BAGHDAD — KARACHI — DELHI — RANGOON — KUALA LUMPUR — SINGAPORE.

(*h*) LONDON — FRANKFURT — BEIRUT — BOMBAY — COLOMBO.

3. CONSTELLATION—FIRST CLASS SERVICE.

LONDON — ISTANBUL — BEIRUT — BAGHDAD — ABADAN — KARACHI.

4. CONSTELLATION—TOURIST CLASS SERVICE

LONDON — ISTANBUL — BEIRUT — DAMASCUS — BAGHDAD — KUWAIT — BAHRAIN — KARACHI

5. QANTAS EMPIRE AIRWAYS.

Super G Constellation—First/Tourist Class Service.

(*a*) (*i*) LONDON—ROME — ATHENS — CAIRO — KARACHI — CALCUTTA — BANGKOK — SINGAPORE — JAKARTA — PERTH — MELBOURNE — SYDNEY.

(*ii*) LONDON — ROME — ISTANBUL — CAIRO — KARACHI BOMBAY — COLOMBO — SINGAPORE — PERTH — MELBOURNE — SYDNEY.

(*iii*) LONDON — ROME — CAIRO — KARACHI — BANGKOK — SINGAPORE — JAKARTA — DARWIN — SYDNEY.

(*iv*) LONDON — ROME — ATHENS — CAIRO — KARACHI CALCUTTA — BANGKOK — SINGAPORE — JAKARTA — DARWIN — SYDNEY.

(*b*) *Super G Constellation—Tourist Service.*

(*i*) LONDON — FRANKFURT — ROME — ATHENS — CAIRO — KARACHI — CALCUTTA — BANGKOK — SINGAPORE — DARWIN — SYDNEY.

INDIAN AIRLINES CORPORATION

Thapar House, Queensway, New Delhi.

1. Madras—Bangalore—Coimbatore—Cochin—Trivandrum (daily).
2. Madras—Bangalore—Madras (daily).
3. Madras—Hyderabad—Nagpur—Bhopal—Delhi (daily).
4. Madras—Nagpur—Delhi (Night Airmail Service: daily).
5. Bombay—Hyderabad—Bangalore (daily).
6. Bombay—Aurangabad—Bombay (daily).
7. Bombay—Nagpur—Calcutta (Night Airmail Service: daily).
8. Bombay—Karachi—Bombay (daily).
9. Bombay—Ahmedabad—Bhuj—Karachi (daily).
10. Bombay—Bhavnagar—Rajkot—Jamnagar—Bhuj (daily).
11. Bombay—Keshod—Porbandar—Rajkot (daily).
12. Bombay—Belgaum—Mangalore—Cochin (daily).
13. Bombay—Calcutta—Bombay (daily).
14. Bombay—Madras—Colombo (daily).
15. Madras—Trichy—Colombo (daily).
16. Bombay—Delhi—Bombay (twice daily).
17. Calcutta—Gauhati—Tezpur—Jorhat—Mohanbari (daily).
18. Calcutta—Rupsi—Gauhati—Mohanbari (daily).
19. Calcutta—Gauhati—Tezpur—Jorhat—Lilabari—Jorhat—Mohanbari—Passighat (daily—Passenger-cum-freighter service).
20. Calcutta—Agartala—Gauhati—Silchar (daily).
21. Calcutta—Agartala—Silchar—Imphal (daily).
22. Calcutta—Agartala—Khowai—Kamalpur—Kailashahar (daily-Passenger-cum-Freighter service).
23. Calcutta—Bhubaneswar—Vishakapatnam—Madras (daily).
24. Calcutta—Dacca—Calcutta (daily).
25. Calcutta—Chittagong—Calcutta (daily).
26. Calcutta—Rangoon—Calcutta (daily).
27. Calcutta—Gauhati—Calcutta (freighter: daily).
28. *Calcutta—Kailashahar—Calcutta (freighter four days in a week).

*This service may at times make a landing at Agartala.

29. *Calcutta—Kamalpur—Calcutta (freighter: four days in a week).
30. *Calcutta—Kowai—Calcutta (freighter : thrice in a week).
31. Calcutta—Agartala—Calcutta (freighter : daily).
32. Calcutta—Silchar—Imphal—Silchar—Calcutta (freighter: daily).
33. Agartala—Gauhati—Agartala (freighter : five times a week).
34. Calcutta—Bagdogra—Calcutta (freighter).
35. Calcutta—Gauhati—Mohanbari (weekly-Fridays).
36. Calcutta—Rupsi—Calcutta (freighter).
37. Delhi—Calcutta—Delhi (daily).
38. Delhi — Lucknow — Allahabad — Banaras — Patna — Calcutta (daily).
39. Kathmandu—Patna (daily except Saturdays).
40. Delhi—Chandigarh—Amritsar—Jammu—Srinagar (daily).
41. Delhi—Lahore—Delhi (five times a week).
42. Delhi—Karachi—Delhi (daily).
43. Delhi—Agra—Jaipur (daily).
44. Delhi—Amritsar—Kabul (bi-weekly).
45. Srinagar—Pathankot—Srinagar (Non-scheduled—daily).

Passenger Services within Nepal :

1. Kathmandu—Pokhara—Bhairawa (four days in a week).
2. Kathmandu—Biratnagar—Kathmandu (three days in a week).
3. Kathmandu—Simra—Kathmandu (daily except Saturdays).

* These services may at times make a landing at Agartala.

BOOKING AND RESERVATION OFFICES

Agartala (Khosh Mahal Bldg., Central Road, Passenger Booking; Freight Booking).
Agra (Imperial Hotel).
Ahmedabad (Old Bombay Garage, Dr. Tankaria Road, Aerodrome Office, Ahmedabad).
Amritsar (Brij Bhawan, Gandhi Gate).
Aurangabad (Printravel Hotel, Station Road).
Bagdogra (Siliguri) (Hilcart Road, Siliguri).
Bangalore (12-A, Mahatma Gandhi Road, Bangalore Cantt. ; Airport Office ; H. A. L.).
Belgaum (Hotel Green Camp.).
Banaras (Clarks Hotel, Banaras Cantt. ; Babatpur Airport).
Bhairawa (P.O. Nautarwa, Distt. Gorakhpur (U.P.))
Bhavnagar (Diwanpura Road).
Bhopal (Delite Hotel)
Bhubaneswar (Unit No. 6, Type 6, Quarter 6, New Capital).
Bhuj (Holi Chakla, Near City Palace).
Bombay (Airport Santa Cruz, Army & Navy Building (24 Hrs. Service), Mahatma Gandhi Road, Fort).
Calcutta (4, Chittaranjan Avenue (Passenger Bookings), 7, Jagmohan Mallick Lane (Freight Bookings); Airport, Dum Dum: Booking Counter, Dum Dum, Traffic, Dum Dum).
Chandigarh (Hotel Aroma ; Sector 22)
Chittagong (319 Quaid-e-Azam Jinnah Road : Patenga Airport)
Cochin ("Luiz Hal", Broadway, Ernakulam. Airport : Willingdon Island).
Coimbatore (India House, Trichy Road ; Airport Palemudu).
Colombo (City Booking Office 27, Main Street, Gaffoor Building, Fort; Airport Traffic Office : Colombo Airport, Ratmalana.
Dacca (Noor Chambers, 33 Jinnah Avenue, Ramna, Airport)
Darjeeling (Laden La Road).
Delhi (Malhotra Building, Queensway, New Delhi. Airport Safdarjang ; Airport Palam).
Dibrugarh (Hansaria House).
(Mohanbari) (P.O. Rehbari).
Digboi (Biswanath Singh & Co.).
Gauhati (Mookerjee Lodge, Pan Bazar).
Hyderabad (Ba-hir Bagh Road (24 hours service); Begumpet Airport).
Imphal (Mahatma Gandhi Avenue).
Jaipur (2-B, New Colony).
Jammu (Standard Hotel, Residency Road).
Jamnagar (Indra Mahal, Bhid-Bhanjan Road ; Airport Office).
Jorhat (Gar Ali).
Kabul (Deh Afghan Shaha Md. Khanwad Road).
Karachi (Karachi House, McLeod Road ; Airport Office, Drigh Road Airport).
Kathmandu (6/42 Judha Sadak Airport).
Keshod (Near Railway Station).
Lahore (11, Dayal Singh Mansions, The Mall).
Lilabari (North Lakhimpur, Assam).
Lucknow (Carlton Hotel).
Madras (5 and 6, Mount Road ; Airport Office ; Traffic Officer (Passenger Enquiries) ; Traffic Officer, Airport).
Mangalore (Sri Rang Bhavan, K. S. Rao Road ; Airport).
Muzzafarpur (Sariyaganj, Ghirneepokher Road).
Nagpur (Kamptee Road (24 Hours Service), Booking Office ; Airport Sonegaon Traffic Office).
Pathankot (Hiralal Buildings, Railway Road).
Patna (Exhibition Road ; Airport).
Porbandar (Harish Talkies Buildings, opp Caltex Petrol Pump).
Rajkot (Hir Mahal, Coronation Gardens, Adjoining Lal Stores; Airport).
Rangoon (Inland Water Transport Board Building, 50, Phyare Street, South).
Shillong (A. C. Sen & Co., Peak Hotel, Shillong).
Silchar (Club Road).
Srinagar (Residency Road ; Airport).
Tezpur (Bhabani Kutir, Opp. Academy School).
Tinsukia (Asiatic Trading Co.).
Tiruchirapalli (Ashok Bhawan, Junction Road ; Airport, Govt. Civil Aerodrome, Pudu Kottah Road, Tiruchirapalli).
Trivandrum (Trivandrum Air Centre, Main Road ; Airport Office, Trivandrum).
Vishakapatnam (20/133, Thompson Road ; Airport).

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Offices in India : Metro Hotel, New Delhi ; 36, Chowringhee Road, Calcutta.

Airlines Hotel, Churchgate, Bombay.

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2. CALCUTTA—DACCA (DC-3).
3. CALCUTTA—CHITTAGONG—RANGOON (DC-3).
4. BOMBAY—KARACHI (CONVAIR).

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3. NEW DELHI—KARACHI—BEIRUT—ROME—GENEVA—AMSTERDAM (West Bound—Mondays).
4. CALCUTTA—BANGKOK—MANILA—TOKYO (with connections at Manila to SYDNEY (East Bound Monday)
5. CALCUTTA—BANGKOK—MANILA—TOKYO (East Bound Wednesdays).
6. NEW DELHI—BANGKOK—SINGAPORE—DJAKARTA (East Bound—Saturdays)

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NEW DELHI : Hotel Imperial, Jan Path
BOMBAY : *Agents*, United Liner Agencies of India, (Private) Ltd., Kaiser-I-Hind Building, Ballard Estate.
MADRAS : *Agents* : United Liner Agencies of India, (Private) Ltd., "safaiya Chambers", 7, Second Line Beach.

The Company's round the world service, twice a week, is as follow

CALCUTTA—KARACHI—ATHENS—ROME—ZURICH—DUSSELDORF—COPENHAGEN—STOCKHOLM—COPENHAGEN—ANCHRAGE—TOKYO—MANILA—BANGKOK—CALCUTTA.

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***Booking Office :* Taj Mahal Hotel, Bombay.**
***Administrative Office :* "Adelphi", 3, Queen's Road, Bombay.**
T.W.A. Routes : Manila—Bangkok—Ceylon—India—Middle East—Europe—U.S.A. *via* Ireland or through the Iberian connection to U.K. and Germany.

ELECTRIC POWER DEVELOPMENT

(By courtesy of the Central Water and Power Commission, Power Wing).

It is estimated that well over 80 per cent of India's power requirements are at present obtained from animal dung, wood, agricultural waste, etc. and from living energy (animal and human effort).

About industrial energy, about 80 per cent comes from coal; petroleum products account for about 14 per cent and the balance comes from hydro-electricity.

The **aggregate generating capacity** of the country in electric power has grown as follows (kW):—

1900	1,130
1905	11,750
1910	31,347
1915	107,286
1920	130,009
1925	327,152
1930	577,140
1935	859,402
1940	1,181,528
1945	1,249,454
1950	1,712,515
1951	1,835,426
1952	2,061,755
1953	2,305,190
1954	2,493,996
1955	2,694,817
1956	2,886,141

The total installed capacity at the end of 1956 was 2,886,141 kW, of which 1,061,441 kW was water power and 1,824,700 kW thermal.

The *per capita* consumption of electric power in India is ridiculously low. In 1956 it was 20·70 kW hours as against 3,536 in Canada, 2,884 in Sweden, 2,616 in the U.S.A., 5,589 in Norway and 2,272 in Switzerland (1953). The latest estimates place the hydro-electric power potential of India at 35 million kW, but only a little more than one million kW has been tapped so far.

The production and sale of electric power from 1948 to 1956 was as follows (in million kWh):

	Generated	Sold
1948	4,680	3,720
1949	4,910	4,000
1950	5,110	4,160
1951	5,860	4,790
1952	6,120	5,000
1953	6,700	5,600
1954	7,520	6,250
1955	8,592	7,111
1956	9,662	7,959

An analysis of electric power consumption in million kWh is given below. The figure in brackets shows the percentage:

	1955	1956
Domestic or Residential light and small power ..	850·426 (12 0)	934 122 (11 7)
Commercial light and small power	514·423 (7·2)	545 851 (6·8)
Industrial Power	4,697·789 (66 0)	5,323 424 (66 9)
Traction	403·302 (5·7)	404 925 (5 1)
Public lighting	105 631 (1 5)	117·767 (1 5)
Irrigation	254·803 (3·6)	316·180 (4 0)
Water Works	284 637 (4 0)	317·076 (4 0)
TOTAL	7,111 011 (100 0)	7,959·345 (100 0)

INSTALLED CAPACITY

Some individual industries have power-stations of their own. The number of installations and the installed capacity are as follows (end of 1956):

	No.	Capacity (kW)
Aluminium (Primary) .	5	16,628
Aluminium (Secondary)	6	225
Cement (Primary) ..	25	98,692
Cement (Secondary) ..	24	10,671
Chemicals	34	19,871
Collieries	158	58,810
Copper (Primary) ..	1	9,250
Copper (Secondary) ..	1	..
Cotton Textiles ..	335	112,237
Fertilisers	3	80,000
Gold	1	3,900
Iron & Steel (Primary)	5	172,000
Iron & Steel (Secondary)	19	675
Jute	82	42,577
Paper	21	73,566
Silk	29	1,480
Soap	13	1,126
Sugar	103	43,254
Tanneries	9	286
Wool	16	5,203
TOTAL†	890	759,650

† Does not take into account the figures for railways.

The generating capacity by ownership is as follows:

	1954	1955	1956
State owned (Public Sector)	1,209,489	1,517,476	1,683,533
Companies (Private Sector)	1,284,507	1,177,341	1,202,608
	2,493,996	2,694,817	2,886,141

The following statement shows the number of electrified towns and villages at the end of 1956:

Population	Number of towns	Number with electric supply	Percentage of towns with electric supply to total
Over 100,000	73	73	100·0
50,000 to 100,000	112	112	100 0
20,000 to 50,000 . .	401	345	86 03
10,000 to 20,000 ..	856	7,064	1 42
5,000 to 10,000	3,101		
Below 5,000	556,565		
TOTAL	561,108	8,494	1 51

The number of installations at the end of 1956 was distributed as follows:

State Government	161
State Electricity Board	89
Power Corporation	1
Municipality .	21
Companies	179
	451

It may be pointed out that in 1956 six large cities—Bombay, Calcutta, Ahmedabad, Kanpur, Madras and Delhi accounted for 43 3 per cent of the country's installed capacity and 60 8 per cent of the generated energy.

Out of the 560,000 villages in India only about 7,000 were provided with electric power in March 1956.

The total number of consumers at the end of 1956 was 2,825,802 (Domestic 2,180 659; Commercial 469,845, Industrial 108,756; Public lighting 3,694; Irrigation 62,848).

The state-wise analysis for 1956 is as follows:

State (existing before reorganization in Nov. 1956).	No. of stations*	Installed capacity (kW)	Energy generated (mln kWh)	Energy sold (mln kWh)	Capacity in Industrial Plants (kW)	Capacity in railway plants (kW) †	Annual *per capita* consumption (kWh)
Andhra	18	80,696	167 618	120·955	4 525	(b)	5 55
Assam	9	5,280	11 269	9 286	2 154		0 91
Bihar	31	204,790	603 245	354 091	288 315	10 596	8 28
Bombay	137	669,378	2,793 837	2 429 389	62 684	5,516	63 59
Madhya Pradesh	36	99 000	269 987	221 736	19 555	1 396	9 82
Madras	10	251,228	1,089 193	815 555	22 648	128	21 03
Orissa	21	33,772	21 145	15 201	19 592	56	0·98
Punjab	32	187,537	430 855	244 471	8 834	568	18·21
Uttar Pradesh	68	308,740	743 481	5 . . 978	31 943	9.175	8·72
West Bengal	28	538,365	1,778 591	1 753 763	141 155	13,110	66 40
Hyderabad	12	44,921	76·552	65 082	54 902	..	3·28
Kashmir	8	12,875	23 971	18 418		15	3·03
Madhya Bharat	32	32,591	55 208	40 361	13,939	..	4·78
Mysore	4	178,276	810 435	614 367	6 250	85	63·72
PEPSU	12	6,906	0 970	21 959	11,275	198	5·92
Rajasthan	36	38,536	77 029	54·112	18,039	82	3 33
Saurashtra	32	36,430	79 004	65·823	32,197	..	14·97
Travancore-Cochin	7	90,141	349 731	269 161	1.823	..	27·30
Delhi	4	55,191	282·217	227·755	10,799	..	122·91
Others (Centrally administered)	31	21,459	37 905	31·880	5,157	2,150	3·57
TOTAL	568	2,886,141	9,662·133	7,959·345	759,650	45,209	20·70

* Figures for 1956.

† Figures for 1955. (b) included under Madras.

Tentative information about installed capacity in kW for 1956 by source is given below :—

State (existing before reorganisation in Nov. 1956).	Steam	Hydro	Oil	Total
Andhra	23,750	51,000	15,946	90,696
Assam	622	550	4,108	5,280
Bihar	185,045	4,000	15,754	204,799
Bombay	338,210	279,914	51,254	669,378
Madhya Pradesh	91,262	..	7,738	99,000
Madras	84,000	165,150	2,078	251,228
Orissa	5,776	24,005	3,991	33,772
Punjab	7,300	145,750	14,507	167,557
Uttar Pradesh	179,860	96,390	32,490	308,740
W. Bengal	528,351	4,760	5,254	538,365
Hyderabad	22,250	15,000	7,671	44,921
Kashmir	1,500	10,600	769	12,875
Madhya Bharat	23,748	..	8,843	32,591
Mysore	..	178,200	76	178,276
PEPSU	526	240	6,140	6,906
Rajasthan	24,000	..	14,536	38,536
Saurashtra	18,000	..	18,430	36,430
Travancore-Cochin	..	85,500	4,641	90,141
Delhi	52,400	..	2,791	55,191
Others (Centrally administered)	9,812	376	11,271	21,459
TOTAL	1,596,412	1,001,441	228,288	2,886,141

Note : Of the States mentioned above the following are unaffected by re-organization : Assam, Orissa, U.P., Kashmir, Delhi. The following are affected only to a small extent : Bihar, W. Bengal. To get the figures for the new Punjab one has only to add the figures for the old Punjab and PEPSU.

FIVE-YEAR PLANS

At the beginning of the First Plan the total installed capacity in the country was 1·8 mln. kW. This was raised to about 2·9 mln. kW. in 1956.

During the Plan period a total of Rs. 206·71 crores was spent on the four multi-purpose projects—Bhakra, Harike, D.V.C., Hirakud. The Plan provision was Rs. 246·03 crores. The total expenditure on the new major projects was Rs. 18·11 crores—Koyna, Rihand, Kosi, Nagarjuna Sagar, Chambal.

The total expenditure on the power projects during the Plan period was Rs. 152·89 crores as against the Plan provision of Rs. 178·63 crores.

The total number of power schemes undertaken during the first Plan was 344. The following principal power schemes were put into commission during the Plan period. The power generated is also shown :

Bokaro (Bihar) : 1,50,000 kW ; Chola Kalyan (Bombay) : 54,000 kW ; Jog (Mysore) : 72,000 kW ; Khaperkheda (M.P.) : 30,000 kW ; Machkund (Andhra-Orissa) : 34,000 kW ; Madras city plant extension : 30,000 kW ; Moyar (Madras) : 36,000 kW ; Nangal (Punjab) : 48,000 kW ; Pathri (U.P.) : 13,500 kW ; Sarda (U.P.) : 27,500 kW ; Sengulam (Kerala) : 48,000 kW.

The total provision for power in the Second Plan is Rs. 427 crores. The target is 6·9 mln. kW.

The programme included in the Second Five-Year Plan is an ambitious one. Out of Rs. 427 crores for the entire power programme in the country, as much as Rs. 75 crores has been set apart for extending electricity to villages. Over 10,000 villages—about one and a half times the number existing at the beginning of the Plan—are programmed to derive the benefit.

Even with this achievement, however, only a little over 3 per cent of the villages would have been covered in 1961.

It is estimated that the average cost of electrification of a village based on present day costs is between Rs. 60,000 and 70,000.

The total cost of reaching all the villages may be put at Rs. 3,000 crores at present day price levels.

POWER PROJECTS

Statistical information about four major multi-purpose projects under the Central Government are given below (power in thousand kilowatts)

Name	Date of completion	Installed capacity	Firm power
Nangal (Punjab) : Ganguwal	1955 } 1960	96 + 48	72 + 48
Nangal : Kotla	1956 }		
Bhakra	1961	450	212
Damodar (Bihar, W. Bengal) :			
Bokaro thermal	1953	150	—
Maithon	1957	60	—
Panchet Hill	1958	40	—
Tilaiya	1953	4	—
Damodar (total)	—	254	174
Hirakud (Orissa) :			
Power House No. 1	1957	123	85
Chambal (Gandhisagar) (Rajasthan, Madhya Pradesh)	1962	92	69

In the Tungabhadra Project (Andhra, Mysore) the Dam Power House was completed in December 1956, and the Hampi Power House in April 1957. Total installed capacity will be 63,000 kW.

The Koyna Project (Bombay) Power House will have four units of 60,000 kW each. The project is expected to be completed in 1961-62.

The Rihand Project (U.P.) will have a power house with five units of 50,000 kW each. The project is expected to be completed in June 1961.

The Chambal Project Stage I (Rajasthan, Madhya Pradesh) will generate 75,000 kW of power and is expected to be completed in 1962.

The Nagarjunasagar Project (Andhra) will generate at 60 per cent load factor 75,000 kW.

The Central Government have enacted legislation, the Electricity (Supply) Act, 1948, to provide for the rationalisation of the production and supply of electricity in the country.

The Act provides for the formation of State Electricity Boards in the States which will be charged with the general duty of promoting the co-ordinated development of the generation, supply and distribution of electricity within the State in the most efficient and economical manner.

The State Electricity Boards are required to rationalise supply and distribution of energy, prepare and carry out new schemes, acquire existing stations and equipment, give bulk supplies of power to existing licensees, designate wherever necessary existing stations as controlled stations and direct licensees to achieve the maximum economy and efficiency in the operation of their undertaking.

So far Madhya Pradesh, Delhi, W. Bengal, Kerala, Madras, Rajasthan, Mysore and Bombay States have set up such Boards (Feb. 1958).

The Act also provides for the creation of a Central Electricity Authority for developing a sound, adequate and uniform national policy and to advise the State Electricity Boards on all major power development schemes that may be taken up by them.

The Authority was constituted in 1950.

It is to act as arbitrator in disputes between a State Government or State Electricity Board and licensee or other persons.

It has to carry out investigations and collect data concerning the generation, distribution and utilisation of power and the development of power resources and publish them from time to time.

CHURCHES IN INDIA

CATHOLIC CHURCH

India is divided into Dioceses and Prefectures Apostolic, which are grouped in 16 Ecclesiastical Provinces or Archdioceses, as follows:—Archdiocese of: 1. Agra with the Dioceses of Ajmer, Allahabad, Indore, Jhansi, Lucknow, Meerut and the Prefecture Apostolic of Gorakhpur; 2. Bangalore with the Dioceses of Bellary, Mangalore, Mysore, Ootacamund; 3. Bombay with the Dioceses of Ahmedabad, Belgaum, Poona; 4. Calcutta with the Dioceses of Dibrugarh, Jalpaiguri, Krishnagar, Patna, Shillong and the Prefectures Apostolic of Bhagalpur, Haflong, Malda, and Sikkim; 5. Changanacherry (Syro-Malabar) with the Dioceses of Kottayam and Palai; 6. Delhi and Simla with the Prefectures Apostolic of Jammu-Kashmir and Jullundur; 7. Ernakulam (Syro-Malabar) with the Dioceses of Kothamangalam, Tellicherry and Trichur; 8. Goa and Damaun; 9. Hyderabad with Dioceses of Guntur, Nellore, Vijayawada, Visakhapatnam and Warangal; 10. Madras-Mylapore with the Dioceses of Coimbatore and Vellore; 11. Madurai with the Dioceses of Tiruchirapalli and Tuticorin; 12. Nagpur with the Dioceses of Amravati, Jabalpur, and Raigarh-Ambikapur; 13. Pondicherry and Cuddalore with the Dioceses of Kumbakonam, Salem, and Tangore; 14. Ranchi with the Dioceses of Cuttack and Sambalpur; 15. Trivandrum (Syro-Malankara) with the Diocese of Tiruvalla; 16. Verapoly with the Dioceses of Alleppey, Calicut, Cochin, Kottar, Quilon, Trivandrum (Latin), and Vijayapuram.

In all there are 16 Archdioceses (Metropolitan Sees), 48 Dioceses (Suffragan Sees) and 7 Prefectures Apostolic. At the head of an Ecclesiastical Province or Archdiocese there is an Archbishop; at the head of a Diocese there is a Bishop; and at the head of a Prefecture Apostolic there is a Prefect Apostolic.

The Apostolic Internuncio: His Excellency The Most Rev. Dr. James R. Knox, (Apostolic Internunciature, Chanakya Puri, New Delhi 2.)

The Cardinal: His Eminence Valerian Gracias, D.D., M.Agr. (Archbishop's House, Bombay 1).

Statistics: Number of Catholics: 5,932,037; Clergy (Foreign): 1,211; Clergy (Indian): 4,446; Colleges: 58; High Schools 6,176; Technical & Industrial Schools: 135; Students in Colleges: 31,395; Students in Schools: 1,041,083; Hospitals: 132; Dispensaries: 407, Homes for the Aged: 96; Orphanages & Foundling Homes: 424, Leper Asylums: 7; Creches: 64; Rescue Homes: 6, Poor Homes: 20.

PROTESTANT CHURCHES

Below are given particulars about Protestant churches in India which may be of interest.

Number of towns and villages where there are Protestant churches or mission stations, over 4,000; Number of towns and villages where there are worshipping groups of Protestant Christians, 25,000; Number of ordained ministers, about 4,000; Number of lay evangelistic workers in the employ of Protestant Christian agencies, over 12,000; Total No. of foreign Protestant workers, 4,377; Total No. of Protestant national workers, 47,814.

. Percentage of literacy for Protestants, 21·5 (1941 Census); Number of languages in which the scriptures (Protestant version) are available either wholly or in part, 119.

Number of Protestant Christian colleges, 43; Total No. of students, 26,676; Number of high schools, 383; Industrial schools, 92; Middle schools, 541; Hospitals, 277; Dispensaries, 278; Leprosy institutions, 70; Tuberculosis sanatoria, 12; Homes for the blind, deaf, 9; Homes for women, 34; Orphanages, 128; Social and welfare organizations, 128; Total No. of Protestant Christian institutions, 2,428.

Church of India, Pakistan, Burma and Ceylon

The Metropolitan and Bishop of Calcutta: A. N. Mukerjee.

(Bishop's House, 51, Chowringhee Road, Calcutta 16.)

There are 13 dioceses each under a diocesan bishop: 1. Andamans and Nicobars (Bishop's House, Car Nicobar); 2. Assam (Bishop's Kutl, Shillong); 3. Amritsar (Taylor Road, Amritsar); 4. Barrakpore, W. Bengal; 5. Bhagalpur (Bishop's House, Champanagar, Bhagalpur, Bihar); 6. Bombay (St. John's House, Colaba, Bombay 5); 7. Calcutta (Bishop's House, 51, Chowringhee Road, Calcutta 16); 8. Chota Nagpur (Bishop's Lodge, Ranchi); 9. Delhi (1, Church Lane, New Delhi); 10. Lucknow (Bishop's House, 11, Mahatma Gandhi Marg, Allahabad); 11. Nagpur (Cathedral House, Nagpur); 12. Nasik, (Bombay State); 13. Nandyal (Commissary and Vicar General, Nandyal, Kurnool District). Total No. of Anglican Christians, 2,69,500.

Baptist Churches

Baptist Union of North India: 19, Ludlow Castle Road, Delhi. Total Christian Community: 8,550.

Bengal-Baptist Union: Baptist Mission, 44, Lower Circular Road, Calcutta.

Bengal-Orissa Baptist Yearly Meeting: Balasore, Orissa. Number of Members: 3,709.

Garo Baptist Union: Gauhati, Kamrup Dt., Assam.

Council of the Baptist Churches of Assam and Manipur: Gauhati, Assam.

Convention of the Telugu Baptist Churches: Mulapet, Nellore.

Goalpara Boro Baptist Union: Bengtol P.O., *via* Bongaigaon, Goalpara Dt., Assam.

North Bank Baptist Assn.: Tezpur, Assam.

North Goalpara Garo Baptist Union: Bongaigaon, Goalpara Dt., Assam.

Tripura State Baptist Christian Union: Christian Nagar, Agartala, Tripura State.

Convention of the Baptist Churches of the Northern Circars: Avanigadda, Krishna Dt.

South Lushai Baptist Church: Lunglei, Assam.

Tamil Baptist Churches: Kilpauk, Madras.

Utkal Christian Central Church Council: Mission Road, Cuttack.

The Church of South India

(Diocesan Office, Cathedral P.O., Madras 6).

Moderator and Bishop of Rayalaseema: Most Rev. H. Sumitra.

Dy. Moderator: Rt. Rev. J. E. L. Newbigin, Madurai.

There are 13 dioceses, each under a diocesan bishop: 1. Coimbatore, 2. Dornakal (Andhra Pradesh); 3. Krishna (Bishop's House, Eluru, West Godavari); 4. Madras (Diocesan Office, Cathedral P.O., Madras 6); 5. Madurai-Ramnad (Bishop's House, Tallakulam P.O., Madurai); 6. Medak (Bishop's House, Medak, Deccan); 7. Mysore (Bishop's Lodge, 2, Mission Road, Bangalore 2); 8. North Kerala (College Road, Kozhikode); 9. Rayalaseema (Gooty); 10. Tirunelveli (Bishopstowe, Palayamkottai); 11. Central Travancore (Bishop's House, Kottayam); 12. South Travancore (London Mission Compound, Trivandrum); 13. Tiruchirapalli-Tanjore (48, Puthur High Street, Tiruchirapalli).

Lutheran Churches

Andhra Evangelical Lutheran Church: P.O. Box No. 2, Guntur, Andhra. Total membership: 2,31,766.

Arcot Lutheran Church: Darisanapuram, Cuddalore, S. Arcot.

Ebenezer Evangelical Lutheran Church: Suri, Birbhum Dt.

Evangelical Lutheran Church in Madhya Pradesh: Sagar, M.P.

Evangelical Lutheran Church in East Jeypore: Gunupur, Koraput Dt., Orissa.

Gossner Evangelical Lutheran Church: Ranchi, Bihar.

India Evangelical Lutheran Church: Vaniyambadi, N. Arcot.

Jeypore Evangelical Lutheran Church: Koraput, Orissa. No. of Christians: 29,243.

South Andhra Lutheran Church: Kalahasti, Chittoor Dt., Andhra. Baptised membership: 11,000.

Tamil Evangelical Lutheran Church: Tranquebar House, Tiruchirapalli. Total membership: 535,758.

Methodist Churches

Methodist Church in North India: Raniganj, Burdwan, W. Bengal.

Methodist Church in Southern Asia: 9, Fyzabad Road, Lucknow.

There are four presiding Bishops, at Delhi (12, Boulevard Road), Hyderabad, Lucknow (37, Cantonment Road), and Bombay (P.O. Byculla).

The conference areas are Bombay (Robinson Memorial, Byculla), Calcutta (13, Wellington Square, Calcutta 13), Delhi (Agra, U.P.), Gujarat (Baroda), Hyderabad (Methodist Boys' School), Lucknow (Centennial High School), Madhya Pradesh (Leonard Theological College, Jabalpur), North India (Bareilly), South India (Methodist Mission, Yadgiri, Mysore).

Total Christian community: 4,66,123.

Wesleyan Methodist Church: Dhagadma *via* Pardi, Surat Dt.

United Churches

United Basel Mission Church in India: Ullal, South Kanara.

United Church of Northern India: Church House, Mhow, M.P.

Moderator: The Rt. Rev. S. K. Chatterji, Behala, Calcutta 34.

There are 6 Synods: Assam (Welsh Mission, Aijal); Bengal and Bihar (16, Elgin Road, Calcutta 20); Gujarat, Rajasthan and Mid-India (Civil Lines, Ajmer); Maharashtra (Ahmednagar); North India (Jumna, Allahabad, U.P.); Punjab (Ludhiana, Punjab).

Other Churches

Assemblies of God: Uska Bazar, N.-E. Rly., U.P.; Punalur, Kerala State; Kunniyamuthur, Coimbatore; Ashti, Bhir Dt., Bombay.

Christian and Missionary Alliance: Viramgam, Bombay State.

Churches of Christ: Nawa Bhandara, Palamau Dt., Bihar; Shrigonda, Poona Dt., Takhatpur, Bilaspur Dt.

Church of God: Mountain View, Chapel Road, Shillong; Cuttack; Chengannur, Kerala State; Dondaicha, West Khandesh, Bombay.

Church of the Brethren: Ankleswar, Broach Dt.; Dahanu Road, Thana Dt.

Mennonite Church: Dhamtari, M.P.; Desarakonda, Deccan; Jamahedpur; Raugadih, Bihar.

Presbyterian Church: Kannauj, U.P.; Jhansi, U.P.

EASTERN CHURCHES

Chaldean Syrian Church: Trichur, Kerala. Communicant members: about 10,000.

Mar Thoma Syrian Church: Sabha Office, Tiruvella, Kerala.

Metropolitan: Metropolitan's House, Tiruvella.

Total membership: 2,00,000.

Orthodox Syrian Church: Old Seminary, Kottayam, Kerala Strength: 4,50,000.

Malabar Independent Syrian Church: Thozhiyoor, Kottapadi P.O., Kerala.

Members: 27,000.

Malankara Jacobite Syrian Church: Mar Ephreiam Seminary, Chingavanam P.O., Kottayam District, Kerala.

Malankara Syrian Knanaya Diocese: Mar Ephraim Seminary, Chingavanam P.O., Kottayam.

Apostolic Legation of the Holy See of Antioch in Malabar: Omalloor, Kaipatoor P.O., Kerala.

Apostolic Holy Church of Armenia: Bombay, Calcutta, Chinsurah, Madras, Saidabad, Surat.

CHRISTIAN MISSIONS IN INDIA

BAPTIST SOCIETIES

Baptist Missionary Society of Great Britain.

The Secretary of the Mission is the Rev. E. G. T. Madge, 44, Lower Circular Road, Calcutta 16.

The Headquarters of the Mission are at 93-95, Gloucester Place, London, W. 1.

Canadian Baptist Mission.

Field Secretary: The Rev. R. M. Bennett, B.A., B.D., Kakinada, East Godavari Dist., Andhra Pradesh.

Telegram: Baptisma, Kakinada; *Tel.:* 225.

American Baptist Assam Mission, Gauhati.

Treasurer:—Miss M. G. Burnham.

Mission Secretary:—Rev. R. G. Beers.

Field Secretary: Edward Singha.

American Baptist Bengal-Orissa Mission.

Secretary: Rev. C. C. Roadarmel, Bhimpore, Midnapore, W. Bengal.

Strict Baptist Mission.

Secretary: George F. Champion, Morupatti, Mettupalayam, Tiruchirapalli Dist. *Treasurer:* Rev. D. A. Thrower, "Lyle Cottage", Kotagiri, Nilgiris.

PRESBYTERIAN SOCIETIES

Irish Presbyterian Church Mission.

Secretary: Rev. S. B. Moles, Mission House, Prantij, Sabarkantha Dist., Bombay State.

American Presbyterian Mission.

Field Representative:—The Rev. John B. Weir, Ph.D., D.D., 16, Boulevard Road, Delhi.

Secretary, India Council:—The Rev. C. H. Hazlett, M.A., D.Sc., Ed., 51, Rajpur Road, Dehra Dun, U.P.

Secretary, North Synodical Board:—The Rev. B. N. Lall, United Church Compound, Mainpuri, U.P.

Secretary, Punjab Synod.:—The Rev. S. K. Roy, United Church Compound, Ludhiana, Punjab.

Secretary, Kolhapur Church Council:—The Rev. R. S. Bhandare, Church Council House, New Palace, P.O. Kolhapur.

Malwa Church Council of the United Church of Northern India.

Secretary of the Church Council:—Rev. K. Yohan Masih, B.A., D.D., Church House, Mhow, Madhya Pradesh.

Canadian Presbyterian Mission.

Secretary:—Rev. Clarence L. Wood, Amkhut, Madhya Pradesh, *via* Dohad.

Secretary (Jhansi section): Miss Margaret, C. Leask, C. P. Mission, Jhansi, U.P.

Welsh Presbyterian Mission.

Field Secretaries:—Revs. G. H. Morgan, Maulvi Bazar, Sylhet, E. Pakistan; T. M. Thomas, Shillong, Assam.

CONGREGATIONAL SOCIETIES

American Board of Commissioners for Foreign Missions.

Secretary: Rev. E. Loleta Wood, 1-A, Staveley Road, Poona-1.

Diocese of Madura and Ramnad, Church of South India.

Bishop—Rt. Rev. J. E. L. Newbigin, Madurai. *Secretaries*—Rev. John Asirvatham, Ramanathapuram; Rev. Paulraj Thomas, Tirumangalam.

Evangelical Alliance Mission.

Western India Headquarters:—Amalner, East Khandesh.

Chairman:—Rev. E. Berthelsen, Amalner, East Khandesh.

Secretary:—Rev. O. E. Meberg, Parola, East Khandesh.

London Missionary Society.

The headquarters of the world-wide work of the L.M.S. are at Livingstone House, 42, Broadway, Westminster, S.W.1, U.K.

Correspondent in Bengal: Rev. V. Rees, Union Chapel, 136, Dharamtola Road, Calcutta.

LUTHERAN SOCIETIES

India Mission of The United Lutheran Church in America.

OFFICERS OF THE ULCM:—*President:*—Rev. W. D. Coleman, Rajahmundry; *Vice-President:*—Rev. H. H. C. Kleiner, Tenali; *Secretary:*—Miss S. F. Snyder, Rajahmundry; *Treasurer:*—Dr. E. G. Wood, Box 36, Guntur.

Officers of the Andhra Evangelical Lutheran Church:—*President:*—Rev. Dr. G. Devasahayam, P. Box 2, Guntur; *Vice-President:*—Dr. Henry H. Moyer, Dowlaishwaram; *Secretary:*—G. Krupadanam, Bhimavaram; *Treasurer:*—Dr. C. H. Swavely, Box 36, Guntur.

Evangelical Lutheran Church, Madhya Pradesh.

President:—Rev. E. Raman, Sagar, Madhya Pradesh.

Basel Evangelical Mission.—From Basle, Switzerland.

President and Secretary:—Rev. J. Rossel, Mangalore, South Kanara.

Federation of Evangelical Lutheran Churches in India.

President:—The Rt. Rev. R. B. Manikam, Ph.D., Bishop of Tranquebar, Tiruchirapalli, S.I.

Vice-President:—The Rev. E. Raman, Sagar, M.P.

Secretary:—G. Krupadanam, Bhimavaram, South Godavari Dist., Andhra Pradesh.

Treasurer:—M. Anantham, Nayudupet, Nellore Dt., Andhra Pradesh.

There is a liaison officer between the Federation of Evangelical Lutheran Churches in India and the Lutheran World Federation to distribute financial assistance to Orphaned Missions and Churches coming from abroad.

There is an institution named The Gurukul Lutheran Theological College and Research Institute in Madras; it points its course of study to the granting of B.D. degree.

A further aim is graded research in both Christian and non-Christian religions against the Indian background.

The Theological College has a governing council of 11 members and is established at Gurukul, Purasawalkam High Road, Kilpauk, Madras-10.

Its Officers are:

President:—The Rt. Rev. R. B. Manikam, Ph.D., Bishop of Tranquebar, Tiruchirapalli, S. India.

Secretary and Principal of College:—The Rev. P. David, M.A., Ph.D., 'Gurukul', Kilpauk, Madras-10.

Church of Sweden Mission.

Field Secretary:—Rev. Y. Frykholm, B.A., B.D., Coimbatore.

Tamil Evangelical Lutheran Church.—Organised Churches (Pastorates) 61; Ordained Indian Ministers 52; other Indian workers 130; Baptized membership 54,222; Schools 196; Teaching staff 1,041; Pupils: Boys 18,111; Girls 9,845.

President:—Rt. Rev. Dr. R. B. Manikam, M.A., B.D., Ph.D., D.D., S.T.D., Bishop of Tranquebar, "Tranquebar House", Tiruchirapalli, S. India.

Missouri Evangelical Lutheran India Mission (M.E.L.I.M.).

General Secretary:—The Rev. Theodore A. Michaik, Krishnagiri, Salem Dist., South India.

Arcot Lutheran Church.

Nellikuppam, S. Arcot Dt.

President:—Rev. O. Horlyck, Darisanapuram, Cuddalore, N. T.

Treasurer:—Miss H. Olesen, 14, Rundall's Road, Vepery, Madras 7.

Secretary:—Miss K. Hauge, Arcot Lutheran Church, Kallakurichi, S. Arcot Dt.

INTER-DENOMINATIONAL MISSIONS

The Society of Friends (Quakers).—The Society of Friends (Quakers) carries out its overseas work through the Friends Service Council of London. Yearly meeting with headquarters in Euston Road, London, N.W.1. and through the American Friends' Service Committee with headquarters at 20 South Twelfth Street, Philadelphia, U.S.A.

International Centres at 24, Rajpur Road, Delhi and 21, Noor Fata Lane, Dhakeswari Road, Dacca, E. Pakistan for promoting religious and international understanding and furthering educational and social work. Also Calcutta Office at 211, Park Street, Calcutta-17.

American Friends' Mission.

Superintendent: W. E. DeVol, M.D., Chhatarpur, Madhya Pradesh.

Old Church Hebrew Christian Mission.

Missioner: R. W. Bowie; *Hon. Secretary* Rev. G. H. Howlett, B.D., 11, Mission Row, Calcutta 1.

LADIES' SOCIETIES

Bible and Medical Missionary Fellowship.

Hon. Treasurer:—Major Mainwaring Burton.

President:—The Lady Kinnaird.

Secretary:—A. J. Dain.

Field Secretary:—A. E. Norrish.

Address in India:—I. M. B. O. Office, 364, Dadabhai Naoroji Road, Bombay.

Missionary Settlement for University Women.

Warden:—Miss H. D. Hunt, B.A., University Settlement, Reynolds Road, Byculla, Bombay 8.

Staff:—Miss S. Cokayne, B.Th.; Miss E. D. Mason, B.A., M.A., Ph.D., D.Sc.; Miss R. Guruthatham.

Ramabai Mukti Mission.

The main departments are: A Girls' Orphanage, School, Home and School for the Blind, Medical, Agricultural and Rescue Home.

Superintendent, Secretary and Treasurer:—Miss C. Terry, R. M. Mission, Kedgaon, Poona District.

MISCELLANEOUS

Christian and Missionary Alliance.—Dates from the year 1893 under the name of the International Missionary Alliance, but a number of its missionaries were at work in the area of Berar much earlier. Work is carried on in the areas of Berar and Khandesh. There is a staff of 43 missionaries and 91 Indian workers. The number of mission stations is 13, with additional out-stations. There is a Christian community of 5,000. There are 2 boarding schools, one for boys and one for girls, 2 training schools for Indian workers. There are 20 organized congregations, including one English at Bhusawal.

Executive Secretary :—The Rev. E. F. Eicher, Akola, Bombay State.

Work in the Gujarat field is carried out from Mission House, Mehmedabad, Kaira Dt.—Rev. P. L. Morris.

Church of the Brethren (American).

Secretaries :—A. F. Bollinger, 364, Dr. Dadabhai Naoroji Road, Bombay 1; P. G. Bhagat, Mission House, Bulsar, Surat District.

Poona and Indian Village Mission.

Mission Headquarters, 10, Napier Road, Poona-1.

Chairman :—Major R. P. D. Snow.

Secretary :—E. K. Pattemore.

American Churches of God Mission.

President :—Rev. A. D. M. Dick, Mission House, Ulubaria, Howrah District, West Bengal.

Secretary :—Miss B. A. Helwig, Mission House, Ulubaria, Howrah District, West Bengal.

Church of the Nazarene Mission.

Mission Chairman :—Rev. Earl G. Lee, Mission House, Mehkar, Buldana Dist., Bombay State.

The Mission to Lepers.

The Indian Auxiliary of the Mission to Lepers. Hon. Treasurers are F. E. Whitehead, c/o Messrs. Macneill, Barry & Co. Ltd., 2, Fairlie Place, Calcutta and P. D. C. R. Clark, C/o Messrs. Killick Industries, Ltd., Bombay.

The General Secretary of the Mission is A. Donald Miller, 7, Bloomsbury Square, London, W.C.I. The Secretary for India is William Bailey, M.A., Purulia (S. E. Rly.), West Bengal.

Regions Beyond Missionary Union.

Field Superintendent :—E. W. Oliver, Mission House, Motihari, Champaran Dist., Bihar.

National Missionary Society of India.

The Office-bearers for the present triennium :—

The Rt. Rev. S. K. Mondol, Hyderabad (*President*); The Rt. Rev. S. K. Chatterji, Moderator, The U.C.N.I., Calcutta; The Rt. Rev. J. Amritanand, Assam. Mrs. M. Krishnayya, Poona; Dr. G. Zachariah, Madras (*Vice-President*); J. B. Masillamani, Madras (*Hony. Treasurer*); Dr. A. C. Abraham (*Hon. Gen. Secretary*); S. Deva Prasad (*Hon. Associate Gen. Secretary*).

Address :—N. M. S. House, Royapettah, Madras.

Seventh-Day Adventist Church, Southern Asia Division.

Seventh-day Adventist Church—Western India (Pastor A. R. Appel, President) *Office Address* :—16, Club Road, Byculla, Bombay 8. P.O. Box 1565.

Seventh-day Adventist Church—Burma. (Pastor C. B. Guild, President). *Office Address:* 68, U Wisara Road, Rangoon, Burma, Post Box 977.

Seventh-day Adventist Church—North-east India. (Pastor W. F. Storz, President). *Office Address* : Karmatar, Bihar.

Seventh-day Adventist Church—North-western India. (Pastor T. R. Torkelson, President). *Office Address* : 27, Barakhamba Road, New Delhi 1.

Seventh-day Adventist Church—South India. (Pastor E. L. Sorensen, President). *Office Address:* 9, Cunningham Road, Bangalore. P.O. Box 20.

Seventh-day Adventist Church—Pakistan. (Pastor C. H. Hamel, President). *Office Address* : 32, Mozang Road, Lahore, Post Box 32.

Seventh-day Adventist Church—Ceylon. (Pastor L. F. Hardin, President). *Office Address* : 15, Alfred House Gardens, Colombo 3. P.O. Box 1253.

The general headquarters for India, Pakistan, Burma and Ceylon are located at Salisbury Park, Poona. O. O. Mattison, President; D. S. Johnson, Secretary; M. E. Kemmerer, Treasurer. (Office Address: Post Box 15, Poona.)

Mennonite Church in India.

President :—A. K. Biswas, B.A., LL.B., B.T., Dhamtari M.P.

Secretary :—E. P. Bachan, B.A., B.T., Dhamtari, M.P.

Central India Baptist Mission.

Ellichpur, Amravati Dist., Bombay State.

Chairman :—Rev. Nelson F. Schoen, Pandhurna, M.P.

Ceylon and India General Mission.

Headquarters.—"Mizpah," Richards Town, Bangalore.

Secretary :—Miss M. B. Dace.

Treasurer :—Rev. R. M. Henning.

Field Superintendent :—Rev. W. G. Nelson.

Santal Mission of the Northern Churches.

Secretary, Rev. A. E. Stronstad, Dumka, Santal Parganas, Bihar.

Free Methodist Mission of North America.

This mission was founded in 1892. It now has 25 Churches, and 2,975 Christians, and 66 workers.

Chairman and Executive Secretary :—Rev. R. N. Davis, Yeotmal, Bombay.

Secretary-Treasurer :—Mrs. Muriel A. Davis, Yeotmal, Bombay State.

South India Missionary Society, Nirmal, Adilabad, Andhra.

This society was founded in 1918. The support for this field is entirely from Indian Christians of the Ex-Wesleyan Methodist of the S. Indian Church. There are 23 Congregations now in this Society. *Missionary* : Rev. T. Asheirvadam.

OTHER MISSIONS

The names of some more missions are given below :

THE NATIONAL MISSIONARY SOCIETY OF INDIA, Royapettah, Madras. (Bharat Christya Sevak Samaj)

HOME MISSIONARY SOCIETY OF INDIA, 22, Stephens Road, Fraser Town, Bangalore 5.

INDIA INDUSTRIAL MISSION, Cossipore, Calcutta 2.

METHODIST CHURCH IN SOUTHERN ASIA, Robinson Memorial, Sankli Road, Byculla, Bombay.

SALVATION ARMY

The work of the Salvation Army in India and Ceylon was commenced in 1882 by the late Commissioner Booth-Tucker and was for many years under his control, with Headquarters in India. For some time now, the areas occupied have been divided for administrative purposes into 6 Territories, each under a Territorial Commander; and one smaller Command. The headquarters for Pakistan are at Lahore.

North-Eastern Territory, with Headquarters at Calcutta.

Western Territory, with Headquarters at Bombay.

Madras and Telugu Territory, with Headquarters at Madras.

Southern Territory, with Headquarters at Trivandrum, in Kerala.

Ceylon Territory, with Headquarters at Colombo.

Burma Command, with Headquarters at Rangoon.

The Audit and Editorial office is at Poona.

The Commanders are directly responsible to the International Headquarters in London.

North-Eastern Territory.—The area in this Territory is the Salvation Army work in the Punjab (India), Uttar Pradesh, Orissa, Bengal and Assam.

Evangelistic work, especially among the "depressed classes", is extensively carried on in all these areas.

Medical work is carried on in two Hospitals, one of which is in Dhariwal, Punjab and the other in Moradabad, Uttar Pradesh; and also in several dispensaries.

There are boarding and day schools, a men's Industrial Home in Calcutta, a Young Women's Hostel, and orphanages for both girls and boys.

Village centres at which the S. A. works	2,015
Officers and Employees	697
Social Institutions	8
Boarding and day schools	10

Territorial Headquarters : 37, Dharamtala Street, Calcutta 13.

Territorial Commander :—Colonel Joseph Dayha.

Madras and Telugu Territory.—Embraces Madras City, the central and northern districts, of Madras, Andhra Pradesh and Madhya Pradesh. 365 fully commissioned officers and 255 workers are fully occupied in evangelical, educational and village uplift work carried on in just over 400 villages, a high school with hostels for boys and girls, a Training Institute for men and women selected for officership; agricultural settlement of 2,500 men, women and children — many work at Chirala, the others on the land. A Leprosy Hospital, General Hospital, a Social Services Department where wastepaper sorting, etc. is carried on, and a Women's and Children's Home in Madras complete the list of institutions where work is going forward.

Territorial Headquarters :—The Salvation Army, 1C, Ritherdon Road, P.O. Box 453, Vepery, Madras 7.

Territorial Commander :—Colonel Ernest Stanley Hannam.

General Secretary :—Brigadier P. Bhushanam.

Southern India Territory.—The Territorial Headquarters is in Trivandrum in Kerala State.

In 1,147 Corps and Centres of work, the majority of officers labour among the village population. The Army has a membership in South India of 95,913.

This territory is divided for administrative purposes into 15 divisions and Districts, 6 among the Tamil-speaking people and 9 among those who speak Malayalam.

The Catherine Booth Hospital at Nagercoil, is now a fully equipped, modern institution of many departments, dealing with all types of medical and surgical cases. The Hospital is equipped with X-Ray, radium, iron lung and excellent nursing facilities. Branch Hospitals carry the service to some of the most remote regions. 81,255 patients were treated during 1956 in the Catherine Booth Hospital and

its several branches and 874 major operations and 2,945 minor operations were performed. The Evangeline Booth Leper Hospital at Puthencuruz in north Travancore, accommodates 167 patients. These institutions carry on work in accordance with the highest traditions of Christian service.

Workers in the Territory consist of 1,052 officers, 371 employees. There are, 312 Officered Corps and 98 societies, 37 primary day schools, 2 boarding schools, 1 middle school, 1 high school, 1 training garrison, 634 outposts, 1 women's industry.

Territorial Headquarters :—Kowdiyar, Trivandrum 3.

Territorial Commander :—Lieut.-Commissioner Ivar Palmer.

Chief Secretary :—Lt. Colonel Prabhakar S. Das.

Western India Territory.—This territory comprises Corps 240; Outposts 761; Social Institutions 14; Day Schools 85; Boarding Schools 2; Training Colleges 2.

Besides the evangelical operations there are in this Territory, two large Hospitals, the Emery Hospital at Anand, and the Evangeline Booth Hospital at Ahmednagar and a number of dispensaries. Patients treated at both Hospitals during 1957 were—Out-patients 12,688, In-patients 3,685; Major Operations performed 804, Minor Operations performed 1,936. Both Hospitals are well-equipped and have a Nurses' Training School attached.

Social work in Bombay includes the King George V Memorial Infirmary, and Lady Dhunbai Jehangir Home for Destitutes, Industrial and Rescue Home for Women at Matunga and King Edward Industrial Home for Men at Byculla. A well-equipped Red Shield House, is situated on Merewether Road, Fort, Bombay. Accommodation for visitors to Bombay may be secured there.

Territorial Headquarters :—P.O. Box 4510, Morland Road, Byculla, Bombay 8.

Territorial Commander :—Lt. Commissioner Theo. H. Hulbrook.

Chief Secretary :—Lieut.-Colonel D. A. Sanjivi.

NATIONAL CHRISTIAN COUNCIL OF INDIA

Chiefly to help to co-ordinate the activities of member Churches and Regional Councils and to assist them to co-operate with one another where such co-operation is desirable.

President :—The Most Rev. A. N. Mukerjee, 51, Chowringhee Road, Calcutta-16.

Vice-Presidents :—Dr. D. G. Moses, Hislop College, Nagpur and Rt. Rev. J. E. L. Newbigin, C.S.I., Tallakulam P.O., Madurai, S. India.

Treasurer :—J. S. S. Malelu, Central Bank of India, Bombay 1.

Secretaries :—E. C. Bhatty, M.A., Ph.D.; Korula Jacob, M.A., M.Ed.; the Rev. W. Scopes, M.A.; the Rev. J. G. P. Naamann; The Rev. H. R. Ferger.

Address :—The National Christian Council, Christian Council Lodge, Nagpur 1 (Bombay State).

SCHEDULED CASTES, TRIBES AND BACKWARD CLASSES

For population of Scheduled Castes and Scheduled Tribes see under Population.

These classes include 779 Scheduled Castes, 245 Scheduled Tribes and 198 nomadic tribes besides a number of unspecified groups.

The Scheduled Tribes live in remote forest regions, chiefly in Bombay, Madhya Pradesh, Bihar, Orissa, West Bengal and Assam.

The percentage of the population of the Scheduled Castes and the Scheduled Tribes to the population as a whole is given below:

Andhra: 14·13, 3·68; Assam: 4 69, 19·48; Bihar: 12·67, 10·00; Bombay: 10 78, 7·76; Kashmir: 3·54, no Scheduled Tribes; Kerala: s 91, 0·99; M.P.: 15·01, 18·58; Madras: 17·95, 0·45; Mysore: 13·31, 0·41; Orissa: 17·95, 29·55; Punjab: 21·64, 0·02; Rajasthan: 15·67, 11·11; Uttar Pradesh: 20·72, No Scheduled Tribes; West Bengal: 18 04, 5·06.

Delhi: 15·40, No Scheduled Tribes; Himachal Pradesh: 28·84, 2·52; Laccadives: No Scheduled Castes, 46·11; Manipur: 4·06, 33·63: Tripura: 7·29, 30 09.

All India: 15·32, 6 23.

The Constitution provides for special safeguards for the Scheduled Castes, Scheduled Tribes and Backward Classes.

The President has defined by means of an order who the Scheduled Castes and Tribes are.

As regards Backward Classes a Commission was appointed to enquire into their condition.

The Commission consisted of:

Kakasaheb Kalelkar (*Chairman*), N. S. Kajrolkar, (Bombay), Bheeka Bhai, (Rajasthan), Shivalal Singh Chaurasia (U.P.), Rajeshwar Patel, (Bihar), Abdul Quaiyum Ansari, M.L.A. (Bihar), P. G. Shah (Bombay), Harappa (Mysore), Atma Singh Namdhari, (West Bengal), Arunangshu Dey (West Bengal: *member-secretary*).

The functions of the Commission were to determine the criteria on the basis of which any particular section can be described as socially or educationally backward, to prepare a list of such Backward Classes for the whole of India, to examine the condition and difficulties of such classes and make specific recommendations (including financial) for their removal.

The Commission listed 2,399 different classes comprising more than 11 crores of people as socially and educationally backward. The Home Minister in commenting on this stated that this reduced the investigation to an absurdity when the bulk of the country's millions could be counted as coming within the category of backward classes. The criteria fixed by the commission were neither clear-cut nor reliable.

With regard to the recommendation for the reservation of seats in Central and State services, a substantial minority in the Commission itself was opposed to such reservation. Yet another recommendation was that 70 per cent of the seats in technical and technological institutions of higher learning should be reserved for backward classes.

For the Scheduled Castes the safeguards take the form, broadly speaking, of reservation of seats in the lower Houses of the legislature and of vacancies in Government services. For the Scheduled Tribes there is a sort of autonomy in parts of Assam, Tribal Councils to watch their interests in some States, while in other States Ministers have been appointed to take charge of Tribal affairs. There are also special grants to be used exclusively for uplift work.

NEFA is an administrative area under the Central Government, populated almost wholly by Scheduled Tribes.

A Naga Administrative Unit under Central Administration also came into being in December 1957.

All the special provisions mentioned above may come up for review by a Commission appointed by the President at any time within ten years after the commencement of the new Constitution Meanwhile there is an official with the Central Government who is to report to the President from time to time on the working of these provisions.

Total expenditure on welfare of the Scheduled Tribes and Areas for 1956-57: Rs. 7·13 crores.

Total expenditure on the welfare of Scheduled Castes: Rs. 4·35 crores.

For the welfare of ex-Criminal Tribes: Rs. 54·76 lakhs.

For the welfare of other backward classes: Rs. 81·79 lakhs.

Total: Rs. 12·85 crores.

Associations, organizations generally recognized as representative of Scheduled Castes are:

All India Harijan Sevak Sangh (Kingsway, Delhi).

Harijan Ashram, Allahabad.

Indian Conference of Social Work, Bombay.

Bharatiya Depressed Classes League (13 Windsor Place, New Delhi).

Republican Party of India (formerly All-India Scheduled Castes Federation).

The following sums were made available to certain non-official bodies during 1956-57 by the Home Ministry for work in connection with the eradication of untouchability:

Harijan Sevak Sangh, Delhi Rs. 3,59,400, Bharatiya Depressed Classes League, Delhi Rs. 2,32,000; Iswar Saran Ashram, Allahabad Rs. 90,000; Central Social Welfare, Board, Delhi: Rs 19,000; Bharat Dalit Sevak Sangh, Delhi: Rs. 48,000.

For work among other backward classes Bharatiya Adamjati Sevak sangh, Delhi Rs 1,00 000; Servants of India Society, Delhi Rs. 35,425; India Red Cross Society, Delhi Rs. 25,000, All India Backward Classes Federation, Delhi: Rs 12,500.

Total: Rs. 9,22,225.

In addition to this there was at the disposal of the Ministry of Information and Broadcasting a sum of Rs. 4,50,000 for the production and display of films in connection with the campaign for the eradication of untouchability.

LEGISLATION IN FORCE

The Untouchability (Offences) Act came into force on June 1, 1955.

It makes the practice of untouchability and enforcement of any disability arising therefrom a cognizable offence punishable with imprisonment or fine or both.

It is meant to apply to the whole of India except Jammu and Kashmir and to all communities and not Hindus alone.

Below is a list of legislative measures in force in States (before re-organization) for removing social disabilities among Hindus:

Bihar: The Bihar Harijan (Removal of Civil Disabilities) Act, 1949, and the Amendment Act, 1951.

Bombay: The Bombay Harijan (Removal of Civil Disabilities) Act, 1947; The Bombay Harijan Temple Entry Act, 1947.

Madhya Pradesh: The C. P. and Berar Scheduled Castes (Removal of Civil Disabilities) Act, 1947; The C.P. and Berar Temple Entry Authorization Act, 1947.

Madras: The Removal of Civil Disabilities Act, 1938; The Madras Temple Entry Authorisation Act, and the Amending Act, 1949.

Orissa: The Orissa (Removal of Civil Disabilities) Act, 1946—not cognizable; The Orissa Temple Entry Authorization Act, 1948.

Punjab : The East Punjab (Removal of Religious and Social Disabilities) Act, 1947.

Uttar Pradesh : The U.P. (Removal of Social Disabilities) Act, 1947—not cognizable.

West Bengal : The West Bengal Hindu (Social Disabilities Removal Act), 1948.

Hyderabad [1] *:* The Hyderabad Harijan Temple Entry Regulation No. LV of 1358F (1948-49); The Harijan (Removal of Social Disabilities) Regulation No. LVI of 1358F (1948-49).

Madhya Bharat[2] *:* Harijan Disabilities (Removal) Act, 1949, and the Amendment Act, 1950.

Mysore : The Removal of Disabilities Act, 1943; the Amendment Act of 1948 and 1949; The Mysore Temple Entry Authorization Act, 1948, and Amendment Act, 1949.

Saurashtra[3] *:* The Removal of Social Disabilities Ordinance, 1948.

Kerala : The Travancore-Cochin Temple Entry (Removal of Disabilities) Act, 1950. The United State of Travancore and Cochin (Removal of Social Disabilities) Act, 1950.

Ajmer[4] *:* The U.P. (Removal of Social Disabilities) Act, 1947, extended to the State—not cognizable.

Bhopal[5] *:* The U.P. (Removal of Social Disabilities) Act, 1947, extended to the State in June 1951—not cognizable.

Bilaspur[6] *:* The U P. (Removal of Social Disabilities) Act, 1947, extended to the State in June 1951—not cognizable.

Coorg[7] *:* The Coorg Scheduled Castes (Removal of Civil and Social Disabilities) Act, 1949; The Coorg Temple Entry Authorization Act, 1949—not cognizable.

Delhi : The Bombay Harijan (Removal of Social Disabilities) Act, 1947, extended to the State.

Himachal Pradesh : The U P. (Removal of Social Disabilities) Act, 1947, extended to the State in May 1951—not cognizable.

Kutch[8] *:* The Bombay Harijan (Removal of Social Disabilities) Act, 1947, extended to the State in May 1951.

Tripura : The West Bengal Hindu (Social Disabilities Removal) Act, 1948, extended to the State in May 1951.

Vindhya Pradesh[9] *:* The U P. (Removal of Social Disabilities) Act, 1947 extended to the State - not cognizable.

Such of the above Acts as are not shown as 'not cognizable' are cognizable.

SAFEGUARDS

The Constitution of India has laid down certain safeguards for Scheduled Castes, Scheduled Tribes and Backward Classes, the weaker sections of the people.

In a chapter on Fundamental Rights, under Articles 15, 16 and 17, it has been stated that the State shall not discriminate between any citizens on ground of religion, race, caste, sex or place of birth. This does not prevent the State, however, from framing rules for the reservation of seats in the legislature or of appointments in the public services in favour of any class which is not adequately represented.

Similarly, under Article 19, the right to freedom is circumscribed by authorising the State to place reasonable restrictions for the protection of the interests of Scheduled Tribes.

Under the directive principles of policy, under part 4, Article 46 of the Constitution, it is said that the State should promote the educational, economic and political interests of the weaker section of the people and in particular the Scheduled Castes and Scheduled Tribes and protect them from social injustice and all forms of exploitation.

Under Article 17 untouchability is abolished and its practice in any form forbidden.

Article 25 empowers the State to throw open Hindu religious institutions of a public character.

Article 29 provides that no citizen can be denied admission into any educational institution maintained by the State or aided by it on grounds of religion, race, caste or language.

It has been laid down under Article 164, that in the States of Bihar, Madhya Pradesh and Orissa, there should be a Minister in charge of Tribal Welfare who may, in addition, be in charge of the welfare of Scheduled Castes and Scheduled Tribes or any other work of allied nature.

The VIth and VIIth Schedules of the Constitution under Article 244 also provide for the administration and control of Schedule areas and Scheduled Tribes and of Tribal areas in Assam by providing Tribe Advisory Councils for Tribal areas.

The following two belonging to the Scheduled Castes are in the Union Government :

Mr. Jagjivan Ram (Minister for Railways), Dr. Mono Mohan Das (Deputy Minister for Education).

Mr. J. N. Hazarika (Parliamentary Secretary to the Minister for External Affairs) belongs to the Scheduled Tribes.

For the promotion of the welfare of Scheduled Tribes and Schedule areas, provision has been made under Article 275 for grants-in-aid to be paid out of the Consolidated Fund of India for such schemes of development as may be undertaken by the States with the approval of the Government of India for raising the administration of the Schedule areas of the State to the same level as that of the other areas of the State.

Special provision for grants-in-aid has been made in the case of Assam.

Tribes Advisory Councils have been set up in Bihar, Madhya Pradesh, Madras, Punjab, Rajasthan, Bombay, Andhra, W. Bengal and Orissa.

In the Tribal areas in Assam, District or Regional Councils have to be set up for each autonomous region. Three-fourths of the members have to be elected on a basis of adult franchise.

There are special departments to look after the welfare of Scheduled Castes and Tribes and Backward classes in nearly every State.

REPRESENTATION IN LEGISLATURES

Seats are reserved in the Lok Sabha under Articles 330 and 332 for Scheduled Castes and for Scheduled Tribes including the Tribal areas and autonomous districts of Assam.

The number of seats reserved in any State bears the same proportion to the total number of seats allotted to that State in the Lok Sabha as the population of Scheduled Castes and Scheduled Tribes in the State or the part of the State bears to the total population of the State.

Similarly in the Legislative Assembly of every State seats are reserved.

The reservation of seats in the Lok Sabha and Legislative Assemblies will cease to have effect on the expiration of a period of ten years from the commencement of the Constitution.

The representation of the Anglo-Indian community in the Lok Sabha and in the Legislative Assemblies of the States by nomination will also cease after ten years.

Under these provisions 76 seats in the Lok Sabha and 470 in the States Legislatures have been reserved for the Scheduled Castes, and 31 seats in the Lok Sabha and 221 in the State Legislatures for the Tribes.

The claims of members of Scheduled Castes and Scheduled Tribes should be taken into consideration according to Article 335 in the making of appointments to services and posts in connection with the affairs of the Union or of a State consistently with the maintenance of the efficiency of the administration.

The following States have a certain percentage of jobs reserved for Scheduled Castes and Tribes, the percentage having some relation to the population. In the brackets is shown whether the reservation is for Castes or Tribes or both :

Andhra (C and T), Assam (T), Bihar (C and T), Bombay (C and T), Madras (C and T), Punjab (C and T), Mysore (C and T), Rajasthan (C and T), Kerala (C and T).

In order to investigate all matters regarding these safeguards for Scheduled Castes, Scheduled Tribes, Backward Classes and Anglo-Indians, provision has been made in the Constitution under Article 338 for the appointment of a special officer for Scheduled Castes and Scheduled Tribes who is required to report to the President upon the working of these safeguards at such intervals as the President may direct and the President will cause all such reports to be laid before each House of Parliament.

Articles 339 and 340 provide for the appointment of a Commission by the President any time within the expiration of ten years from the commencement of the Constitution to report on the administration of Schedule areas and the welfare of Scheduled Tribes.

Now for the purpose of preparing a list of Scheduled Castes and Scheduled Tribes it has been laid down under Articles 339, 341 and 342 that the President, in consultation with the Governor or other head of the State, by public notification should specify the castes, races or tribes to be deemed as Scheduled Castes and specify the Scheduled Tribes to be deemed as Scheduled Tribes.

Parliament alone may, by law, include or exclude from this list Scheduled Tribes and Scheduled Castes. The notification of such lists by the President cannot be varied by any subsequent notifications.

This was done through the following orders: The Constitution (Scheduled Castes) Order, 1950; the Constitution (Scheduled Castes) (Part C States) Order, 1951; the Constitution (Scheduled Tribes) Order, 1950; the Constitution (Scheduled Tribes) (Part C States) Order, 1951.

SERVICES, SCHOLARSHIPS

The particulars about the cases under the Untouchability Offences Act, 1955 during the period 1st January 1955 to 30th Nov. 1956: Total No. registered: 380; Challaned: 327; Convicted: 45, Acquitted: 36; Compounded: 65; Still pending 181.

In the information given above the figures for Bihar are incomplete.

In the I.C.S. and I.A.S there were on the 1st of January 1955, 17 Scheduled Castes and one Scheduled Tribes officers against a total of 1,125. In the I.P.S. there were seven Scheduled Castes and three Scheduled Tribes officials as against a total of 648.

The figures for the total number of employees of the Scheduled Castes and Tribes in the service of the Government of India in 1955 was as follows. The first figures relate to the scheduled Castes and the second to the Tribes

Class I, 10; 3.

Class II, 65, 18

Class III: 9,950; 2,029

Class IV: 8,350; 1,832

In the States the employment figures are in most cases either not available or very incomplete.

The Government of India awarded in 1956-57 (approximate figures) 39,260 scholarships.—Scheduled Castes 21,525, Scheduled Tribes 3,505, other backward classes 14,230.

Total expenditure incurred Rs 187·6 lakhs —Scheduled Castes Rs. 88·24 lakhs, Scheduled Tribes Rs 15·68 lakhs, other Backward Classes, Rs. 83 68 lakhs.

Total No. of applications received from Scheduled Castes was 22,310, from Scheduled Tribes 3,846, from other backward classes 37,964.

In addition 12 scholarships were awarded for study abroad.

[1] Now partly in Andhra, Bombay, Mysore. [2] Now in M.P. [3] Now in Bombay.
[4] Now in Rajasthan. [5] Now in M.P. [6] Now in H.P. [7] Now in Mysore. [8] Now in Bombay.

The following states have agreed to grant full exemption from payment of fees to Scheduled Castes and Tribes at all stages of education :

Andhra, Madhya Pradesh, Madras, U.P., Kashmir, Mysore, Rajasthan, Delhi, Kerala, Manipur, Tripura, and the PEPSU area of the Punjab and the Saurashtra and Kutch areas of Bombay.

The following States have agreed to grant partial exemption :

Assam, Bihar, Bombay, Orissa, Punjab, W. Bengal, Himachal Pradesh.

The following States have agreed to grant full exemption to other backward class students :

Kashmir, Rajasthan, Delhi and the Bhopal and Vindhya Pradesh areas of Madhya Pradesh.

The following States have agreed to grant partial exemption :

Andhra, Bombay, M. P., Madras, Punjab, U. P., Tripura.

REPORT 1956-57

Expenditure during 1956-57 on welfare schemes : Rs. 12·85 crores. Of this expenditure in the State sector : Rs. 10·75 crores, and in the Central : Rs. 2·1 crores. Expenditure on Scheduled Tribes: Rs. 7·13 crores; on Scheduled Castes: Rs. 4·35 crores; on ex-Criminal Tribes : Rs. 0·54 crores ; on other backward classes : Rs. 0·82 crores.

On the whole of this group Bihar spent Rs. 2 41 crores, Bombay Rs 1·65 crores, Assam Rs. 1·39 crores, U. P. Rs. 1·11 crores.

In his report for 1956-57 the Commissioner for the Scheduled Castes and Scheduled Tribes has expressed the view that the efforts made for the solution of the problem of untouchability have not shown remarkable results, though the problem has been tackled in the right manner.

The report has suggested that thorough surveys should be made to assess correctly and authentically how far the practice of untouchability has disappeared with regard to main matters like access to public places, access to hotels and hair-cutting saloons, entry into places of worship and segregation in respect of houses.

It has also suggested that this work could be largely entrusted to local committees of officials and non-officials which should be set up by the various State Governments.

The report has also suggested that it might be advisable to do away with the term "backward classes" and the maintenance of lists of such castes and communities.

It also expresses the hope that in course of time all State Governments would follow the practice adopted in certain States of calling their Backward Classes Departments as Social Welfare Departments. A suggestion has also been made that any Ministry that may be created for backward classes at the Centre should be called the "Ministry for Social Welfare."

The report says that social disabilities resulting from the practice of untouchability found in a very few backward areas of the country like stopping Harijans from riding on horse-back at marriage ceremonies, putting on gold and silver ornaments, using sugar at marriage feasts and using common cremation and burial grounds will also have to be wiped out as early as possible.

In the view of the Commissioner, the arguments that are generally advanced that untouchability cannot disappear till the caste system disappears or till the economic conditions of the Scheduled Castes are considerably improved, should not be allowed to stand in the way of intensive propaganda for the removal of untouchability.

Referring to the progress of welfare schemes for the Scheduled Castes and Scheduled Tribes under the Five-Year Plans, the report says that it is found from the first six monthly progress reports relating to 1956-57 that many States have reported very unsatisfactory, and sometimes nil, progress in the implementation of the schemes.

On the whole, it adds, the tempo in the first year of the Second Plan has received a set-back in comparison with that of the last two years of the First Plan. It is mainly, says the report, on account of the States having been engrossed in reorganisation and election work.

With regard to the education of the Scheduled Castes and Scheduled Tribes, the report says that marked progress has been noticed in all the States, not only during the first Five-Year Plan period but also during the first year of the Second Plan period.

The report is of the view that it is not easy to get all elementary schools for the Scheduled Castes and Scheduled Tribes converted into full-fledged basic schools.

It adds that the starting of ashram schools is an experiment which has been found successful in Bombay.

Dealing with the economic condition of the Scheduled Castes and Scheduled Tribes, the report says reasonable progress is generally being made in the economic advancement of the Scheduled Castes and Scheduled Tribes. "But," it adds, "so far as scavengers and sweepers are concerned, much remains to be done. There is no uniformity in the scale of pay fixed for them by the municipalities and their working conditions also differ from town to town. It is desirable that some Scheduled Caste young men should be trained for technical jobs and other vocations so that the stigma of untouchability may disappear and the deep rooted belief that they are born and brought up to become scavengers, is given the go by.

"If there are vacancies in some of the municipalities for scavenging work, it would be desirable to advertise these posts and preference given to non-Scheduled Caste candidates provided it does not involve unemployment amongst the Scheduled Caste people. Waste lands and bhoodan lands if allotted to the Scheduled Castes in spite of the opposition of village panchayats can bring about the economic advancement of the Scheduled Castes and backward classes. Cottage and village industries like cane work, leather work and weaving should receive all encouragement."

States and Union Territories have been requested by the Central Government to make adequate provision in their 1958-59 plans for scheme for giving building sites to Harijans.

The Government of India, which has taken this step at the recommendation of the Central Advisory Board for Harijan Welfare, has also given Rs. 61·99 lakhs as subsidy during 1956-57 for housing for Scheduled Castes.

The Government has accepted the Board's recommendation that arrangements for giving legal assistance to Harijans be made in every State. Accordingly, the State Governments and administrations of Union Territories have been requested to make provision for this scheme in the next year's plans.

The Board's recommendation that the landless Harijans be preferred in the allotment of waste land has also been communicated to the States and Union Territories for appropriate action.

As regards elimination of the practice of carrying night-soil in baskets and buckets by scavengers, the Centre has sanctioned a grant-in-aid of Rs. 6 62 lakhs to the municipalities and other local bodies for the purchase of hand-carts or wheel-barrows. These will be supplied to scavengers employed by such bodies.

Five members of the Harijan Welfare Board were preparing a scheme to put an end to this practice.

FIRST FIVE-YEAR PLAN

The following table shows the total Government expenditure (in Rs) on welfare schemes for Scheduled Tribes, Scheduled Classes, ex-Criminal Tribes and other Backward Classes during the First Plan period 1951-56. The figures for 1955-56 included in the total are estimates

State *	Scheduled Tribes	Scheduled Castes	Ex-Criminal Tribes	Other Backward Classes
Andhra	81,06,342	5,56,176	7,49,865	—
Assam	8,95,62,592†	7,48,137	—	6,57,344
Bihar	3,26,62,000	79,82,893	1,39,589	41,94,895
Bombay	1,28,20,832	1,51,20,851	17,07,759	69,96,876
M.P.	2,35,49,337	21,43,895	—	19,56,847
Madras	10,53,696	3,47,50,139	—	3,14,555
Orissa	3,37,01,238	16,51,466	4,66,669	—
Punjab	27,70,110	72,57,947	4,07,617	1,87,684
U.P.	—	4,12,70,841	38,74,215	34,78,024
W. Bengal	89,24,206	22,68,518	1,00,666	30,01,437
Hyderabad	23,21,304	31,16,138	3,75,280	7,22,953
Kashmir	—	—	—	—
M.B.	51,45,086	22,80,037	4,13,019	4,00,470
Mysore	6,30,284	98,71,282	3,28,247	—
PEPSU	—	38,59,670	1,30,600	1,00,161
Rajasthan	53,25,228	17,31,374	7,27,455	26,26,517
Saurashtra	4,61,050	23,24,500	1,95,550	8,47,900
T.-C.	6,15,853	64,77,700	—	9,33,760
Ajmer	5,75,949	2,76,330	1,67,839	—
Bhopal	31,28,254	17,60,143	26,170	—
Coorg	5,36,623	4,86,425	—	—
Delhi	—	—	—	—
H.P.	3,23,008	3,37,216	—	—
Kutch	4,96,566	6,16,561	29,554	—
Manipur	27,79,000	1,02,790	—	—
Tripura	17,10,701	53,091	—	—
V.P.	24,16,149	14,95,750	1,38,459	—
Total	23,96,15,408	14,85,40,370	99,78,553	2,64,19,423

* Pre-reorganization.

† Including Rs. 2 crores paid under Article 275(1) of the Constitution.

SECOND PLAN

Total provision : Rs. 91·00 crores.
For Central Schemes : Rs. 32·24 crores.
For State Schemes : Rs. 58·46 crores.
The distribution of this among the various categories is :

Scheduled Tribes : Rs. 48·34 crores
Scheduled Castes : Rs. 25·63 crores.
Ex-Criminal Tribes : Rs. 3·10 crores.
Other Backward Classes : Rs. 6·58 crores.

The balance of Rs. 7·05 crores is ear-marked for certain Central sponsored programmes.

THE LAWS OF 1956

PARLIAMENT passed 104 Acts during the year 1956. In addition, two amendments of the constitution were made.

Out of these 104 Acts some do not make any substantial changes in law. The date in the brackets is the date on which the corresponding bill received the assent of the President.

1. The Representation of People (Amendment) Act (March 1, 1956).

This Act repeals the Representation of the People (Amendment) Ordinance of 1955. It adds two new parts to the Act, viz, Part II A and Part II B which deal with officers in connection with elections and the electoral roll for Parliamentary constituencies.

2. The University Grants Commission Act (March 3, 1956).

This Act establishes a University Grants Commission as a corporate body which is authorised to inquire into the financial needs of the universities and to allocate and disburse grants to universities for any general or specified purpose. The Commission has the power to recommend to a university the measures necessary for reform. The Commission will also advise the Central Government on problems connected with the co-ordination of facilities for work and the maintenance of standards in universities. The Act also restricts the use of the word "University" and the power to confer degrees, etc. The Commission is to consist of nine members to be appointed by the Central Government.

3. The Bar Council (Validation of State Laws) Act (March 14, 1956).

4. The Appropriation Act (March 20, 1956).

5. The Voluntary Surrender of Salaries (Exemption from Taxation) Amendment Act (March 21, 1956).

6. The Sales Tax Laws Validating Act (March 21, 1956).

This Act replaces the Sales Tax Laws Validating Ordinance of 1955 and legalises the levy and collection of sales tax by States between 1st April 1951 and 6th September 1955. This was necessary in view of the judgment of the Supreme Court in a Sales Tax case.

7. The Capital Issues (Continuance of Control) Amendment Act (March 21, 1956).

This Act continues in force the provisions of the Capital Issues (Continuance of Control) Act, 1947.

8. The Life Insurance (Emergency Provisions) Act (March 21, 1956).

This Act takes over the management of life insurance business in the public interest pending nationalisation thereof. It vests the management of all life insurance in India including the business managed by foreign insurers, in the Government, and provides for the appointment of custodians to manage the business on behalf of Government. It also provides for the payment on a reasonable basis, of compensation to the persons entitled thereto in respect of the Government taking over the management of the business.

The Act also provides penalties for offences committed.

9. The Control of Shipping (Continuance) Act (March 21, 1956).

This Act extends the life of the Control of Shipping Act for another period of two years ending on 31st March 1958.

10. The Appropriation (Votes on Account) Act (March 22, 1956).

11. The Appropriation (Railways) Act (March 23, 1956).

12. The Appropriation (Railways) No. 2 Act (March 23, 1956).

13. The Appropriation (Railways) No. 3 Act (March 23, 1956).

14. The Appropriation (Railways) No. 4 Act (March 23, 1956).

15. The Appropriation (Railways) No. 5 Act (March 23, 1956).

16. The Indian Registration (Amendment) Act (April 6, 1956).

This Act removes the necessity of recording the caste in a deed of registration.

17. The Finance Act (April 27, 1956).

The Act gives effect to the financial proposals of the Central Government for the financial year 1956-57. It introduces many amendments in the Income-Tax Act.

18. The Appropriation (No. 2) Act (April 28, 1956).

19. The Travancore-Cochin Appropriation (Votes on Account) Act (May 10, 1956).

20. The St. John Ambulance Association (India) Transfer of Funds Act (May 17, 1956).

This Act provides for the transfer of a portion of funds of the St. John Ambulance Association (India) to the St. John Ambulance Association (Pakistan).

21. The Indian Red Cross Society (Amendment) Act (May 21, 1956).

This Act authorises the Indian Red Cross Society to partition its corpus and allied funds with the Pakistan Red Cross Society. The Act also enables the Indian Red Cross Society to exercise necessary control over the branches in the country.

22. The Travancore-Cochin Appropriation Act (May 21, 1956).

23. The Parliamentary Proceedings (Protection of Publication) Act (May 26, 1956).

The Act lays down "no person shall be liable to any proceedings, civil, in any court in respect of the publication in a newspaper of a substantially true report of any proceeding of either House of Parliament unless the publication is proved to have been made with malice. But the publication must be for the public good.

24. The All India Institute of Medical Sciences Act (June 2, 1956).

This Act provides for establishment of an institution under the name of the All India Institute of Medical Sciences at New Delhi with a view to improving medical education. The Institute will develop patterns of teaching in under-graduate and post-graduate medical education. It will have the power to grant medical degrees, diplomas and other academic distinctions which would be recognised medical degrees for the purpose of the Indian Medical Council Act, 1933.

25. The Indian Income Tax (Amendment) Act (June 2, 1956).

26. The Representation of the People (Second Amendment) Act (June 6, 1956).

This Act amends the Representation of the People Act, 1951. It contains a new chapter which deals with appeals, and another which deals with corrupt practices.

27. The Agriculture Produce (Development and Warehousing) Corporation Act (June 10, 1956).

28. The Travancore-Cochin State Legislature (Delegation of Powers Act) (June 13, 1956).

The Act authorises the President of India to legislate for the State of Travancore-Cochin during the period of the Proclamation.

29. The Hindu Succession Act (June 17, 1956).

This Act amends and codifies the Hindu Law of Succession.

There are two classes of heirs under the Act. The daughter becomes a simultaneous heir along with the son. So also the son's daughter.

The limited estate of Hindu women is abolished. All property which a Hindu woman gets becomes her absolute property. The undivided interest in the coparcenary property of a deceased Hindu will also devolve on his heirs according to the rules laid down in the Act under certain circumstances.

A Hindu is also given the right to make a will of the undivided interest in the coparcenary property. This Act introduces a uniform law of succession for all Hindus in India and removes the inequality that existed between a man and a woman regarding rights to property.

30. The Life Insurance Corporation Act (June 18, 1956).

This Act provides for the nationalisation of life insurance business in India by transferring all such business to a Corporation established for the purpose, and provides for the regulation and control of the business of the Corporation.

The Act also aims at spreading insurance in rural areas. The Corporation is established with the share capital entirely provided by the Central Government.

Section 3 provides for the establishment of the Corporation.

Section 4 lays down the constitution of the Corporation.

Section 5 says that the original capital of the Corporation shall be 5 crores of rupees provided by the Central Government.

Section 6 lays down the functions of the Corporation. They include the carrying on of life insurance business in and outside India, carrying on capital redemption business and the investment of the funds of the Corporation.

Section 7 provides for the transfer of the existing life insurance business to the Corporation.

Section 11 provides for the transfer of the existing whole time employees of insurers to the Corporation.

Section 12 provides for the payment of compensation to an insurer where business is transferred. The principles of compensation are laid down in the first schedule.

Section 13 provides for the constitution of Tribunals for the purpose of this Act.

Chapter V deals with the management, while Chapter VI with the Finance, Accounts and Audit.

Section 29 lays down that the report of the Auditors and Actuaries of the Corporation should be laid before both Houses of Parliament.

Section 30 says that the Corporation should have the exclusive privilege of carrying on life insurance business.

Section 35 lays down rules regarding the repatriation of assets and liabilities in case of foreign insurers in certain cases.

Section 36 provides for the termination of the contracts of chief agents and special agents.

Section 37 says that the policies of the Corporation are guaranteed by the Central Government.

There are three schedules to the Act. The first schedule lays down the principles for determining compensation, the second for determining the value and liabilities in certain cases and the third the principles for the determination of compensation payable to the chief agents.

31. The Constitution (Sixth Amendment) Act (Sept. 11, 1956).

This Act gives effect to the recommendations of the Taxation Enquiry Commission as regards the constitutional provisions relating to Sales Tax.

Section 2 adds a new entry 92A, in the Union List placing taxes on inter-State sales and purchases within the exclusive legislative and executive power of the Union and makes the entry 54 of the State List subject to the provisions of the entry 92A.

Section 3 adds these taxes to the list given in clause (1) of article 269. A provision is also made in article 269 expressly empowering Parliament to formulate by law the principles for determining when a sale or purchase of goods takes place in the course of inter-State trade or commerce.

Section 4 omits clause (1) of article 286 and the explanation which gave rise to a great deal of legal controversy.

32. The Hindu Minority and Guardianship Act (Aug. 25, 1956).

This is one of the instalments of the Hindu Code. This Act amends and modifies certain parts of the law relating to minority and guardianship, among Hindus. This Act abolishes the class of *de facto* guardians.

Section 8 defines the powers of the natural guardian of a Hindu minor.

Section 9 defines the powers of a testamentary guardian.

Section 12 lays down that a guardian is not to be appointed for a minor's undivided interest in joint family property.

33. The Inter State Water Disputes Act (Aug. 28, 1956).

This Act provides for the adjudication of disputes relating to the waters of inter-State rivers and river valleys. It provides for the constitution of a Tribunal for resolving disputes and adjudicate in water disputes.

34. The Multi-Unit Co-operative Societies (Amendment) Act (August 28, 1956).

35. The Indian Lac Cess (Amendment) Act (August 28, 1956).

36. The Industrial Disputes (Amendment and Miscellaneous Provisions) Act (August 28, 1956)

This Act amends the Industrial Disputes Act, 1947 and the Industrial Employment (Standing Order) Act, 1946. It also repeals the Industrial Disputes (Appellate Tribunal) Act, 1950.

The Act has provided for the voluntary reference of disputes to arbitration by the parties themselves, by written agreement.

The Act has 4 schedules. The First Schedule mentions the Industries which may be declared to be of public utility service under the Act. The Second Schedule mentions the matters within the jurisdiction of Labour Courts. The Third Schedule mentions the matters within the jurisdiction of Industrial Tribunals and the Fourth Schedule lays down conditions of service, etc., change of which notice is to be given.

37. The States Reorganisation Act (August 31, 1956).

The Act abolishes the constitutional distinction between Part A, Part B and Part C States. Instead, it establishes only two categories for the component units of the Union to be called States and Union Territories. It abolishes the institution of the Rajpramukh. The boundaries of the various States have been defined.

The Act provides for the setting up of five Zonal Councils which will be advisory bodies competent to discuss matters of common interest, particularly in the field of economic and social planning.

(For details see the article 'The States Reorganisation Act, 1956'.)

38. The Reserve Bank of India (Amendment) Act (Sept. 1, 1956).

39. The Code of Criminal Procedure (Amendment Act (Sept. 1, 1956).

40. The Bihar and West Bengal (Transfer of Territories) Act (Sept. 1, 1956).

This Act gives effect to the recommendations of the States Reorganisation Commission, regarding the transfer of certain areas from Bihar to Bengal. All consequential provisions are made by the Act.

(See separate article under this heading.)

41. The Industrial Disputes (Amendment) Act (Sept. 4, 1956).

42. The Constitution (Seventh Amendment) Act (Oct. 19, 1956).

This Act amends the Constitution with a view to implementing the schemes of States reorganisation.

43. The Securities Contracts (Regulation) Act (Sept. 4, 1956).

This Act prevents undesirable transactions in securities by regulating the business of dealing therein and by prohibiting options.

44. The Appropriation (No. 3) Act (Sept. 7, 1956).

45. The Appropriation (No. 4) Act (Sept. 7, 1956).

46. The Travancore-Cochin Appropriation (No. 2) Act (Sept. 9, 1956).

47. The Indian Coconut Committee (Amendment) Act (Sept. 11, 1956).

48. The National Highways Act (Sept. 11, 1956).

This Act vests all national highways in the Union and the Government of India is authorised to levy fees for services or benefits rendered on national highways.

49. The River Boards Act (Sept. 12, 1957).

This Act provides for the establishment of River Boards for the regulation and development of inter-State rivers and river valleys.

50. The Indian Cotton Cess (Amendment) Act (Sept. 14, 1956).

51. The Indian Institute of Technology (Kharagpur) Act (Sept. 15, 1956)

This Act declares the Indian Institute of Technology to be an institution of national importance and provides for its incorporation. The Institute will have a board, an academic council, a finance committee, etc. The Board shall be the supreme governing body. The Institute is empowered to hold examinations and grant degrees.

52. The Government Premises (Eviction Amendment) Act (Sept. 15, 1957).

53. The Lok Sahayak Sena Act (Sept. 15, 1957).

The Act establishes a National Volunteer Force with a view to inculcating among the members of the public a sense of discipline. It provides for the imparting of military training, the establishment of training camps and the exercise of disciplinary control over the trainees while in the camps.

54. The Indian Post Office (Amendment) Act (Sept. 15, 1957).

55. The Supreme Court (Number of Judges) Act (Sept. 16, 1957).

The number of Judges of the Supreme Court will be ten exclusive of the Chief Justice.

56. The State Financial Corporation (Amendment) Act (Sept. 16, 1956).

57. The Public Debt (Amendment) Act (Sept. 16, 1956).

58. The Central Excises and Salt (Amendment) Act (Sept. 16, 1956).

59. The Indian Railways (Amendment) Act (Sept. 16, 1956).

60. The Representation of the People (Third Amendment) Act (Sept. 25, 1956).

61. The Khadi and Village Industries Commission Act (Sept. 25, 1956).

This Act establishes a Commission for the development of Khadi and village industries.

62. The Jammu and Kashmir (Extension of Laws) Act (Sept. 25, 1956).

This Act provides for the extension of certain laws to the State of Jammu and Kashmir (Sept. 25, 1956).

63. The Scheduled Castes and Scheduled Tribes Orders (Amendment) Act (Sept. 25, 1956).

This Act provides for the inclusion in and the exclusion from the lists of Scheduled Castes and of Scheduled Tribes of castes and tribes. This was necessary as the Backward Class Commission has recommended such inclusion and exclusion.

The alteration of the lists involves a change in the population figures of Scheduled Castes and Scheduled Tribes and consequently a change in the number of reserved seats in Parliament and the State Legislative Assemblies. Necessary provision for that has been made. Schedule I mentions the Scheduled Castes recognised in various States. Schedule III mentions the Scheduled Tribes in various States.

64. The Indian Tariff (Amendment) Act (Nov. 30, 1956).

65. The Abducted Persons (Recovery and Restoration) Continuance Act (Nov. 30, 1956).

66. The Code of Civil Procedure (Amendment) Act (Dec. 2, 1956).

This Act amends the code of Civil Procedure with a view to avoiding delay in legal proceedings.

67. The States Reorganisation (Amendment) Act (Dec. 9, 1956).

68. The Union Territories (Laws) Amendment Act (Dec. 9, 1956).

69. The Terminal Tax on Railway Passengers Act (Dec. 12, 1956).

This Act provides for the levy of a terminal tax on passengers carried by railways from or to certain places of pilgrimage or where fairs, melas or exhibitions are held.

70. The Ancient and Historical Monuments and Archaeological Sites and Remains (Declaration of National Importance) Amendment Act (Dec. 15, 1956).

71. The Industries (Development and Regulation) Amendment Act (Dec 15, 1956).

72. The Representation of the People (Fourth Amendment) Act (Dec. 15, 1956).

73. The Hindu Marriage (Amendment) Act (Dec. 20, 1956).

74. The Central Sales Tax Act (Dec. 21, 1956).

This Act formulates the principles for determining when a sale or purchase of goods takes place in the course of inter-State trade or commerce or outside a State or in the course of import into or export from India, to provide for the levy, collection and distribution of taxes on sale of goods in the course of inter-State trade or commerce and to declare certain goods to be of special importance in inter-State trade or commerce and specify the restrictions and conditions to which State laws imposing taxes on sale or purchase of such goods of special importance shall be subject.

75. The Kerala State Legislature (Delegation of Powers) Act (Dec. 21, 1956).

76. The Finance (No. 2) Act (Dec. 21, 1956).

77. The Finance (No. 3) Act (Dec. 21, 1956)

78. The Hindu Adoption and Maintenance Act (Dec. 21, 1956).

This Act amends and codifies the law relating to adoption and maintenance among Hindus. The Act provides for the adoption of boys as well as girls. A woman may adopt a son or a daughter to herself. No person is divested of any property which has vested in him, by reason only of the fact that subsequent to such vesting, an adoption has been made. The law relating to maintenance has not been much changed.

Section 5 lays down that adoption will be regulated by the provisions laid down in Chapter II. It contains rules regarding the capacity to take in adoption, persons capable of giving in adoption, persons who may be adopted, etc. It also lays down that adoption will not affect the right of adoptive parents to dispose of their properties.

Chapter III deals with maintenance, and rules regarding the maintenance of wife, of widowed daughter-in-law, children and parents and dependants.

79. The Manipur (Village Authorities in Hill Areas) Act (Dec. 22, 1956).

80. The Union Duties of Excise (Distribution) Amendment Act (Dec. 24, 1956).

81. The Appropriation (No. 5) Act (Dec. 24, 1956).

82. The Appropriation (Railways) No. 6 Act (Dec. 24, 1956).

83. The Appropriation (Railways) No. 7 Act (Dec. 24, 1956).

84. The Territorial Army Act (Dec. 28, 1956).

85. The Road Transport Corporations (Amendment) Act (Dec. 28, 1956).

86. The Representation of the People (Miscellaneous Provisions) Act (Dec. 28, 1956).

87. The Standards of Weights and Measures Act (Dec. 28, 1956).

This Act lays down meter as the primary unit of length and the kilogram as the primary unit of mass. It lays down standards not only for mass and length but also for time, temperature, electric current and luminous intensity. The actual implementation and enforcement of these standards is the responsibility of State Governments.

88. The Faridabad Development Corporation Act (Dec. 28, 1956).

This Act provides for the establishment and regulation of a Trading Corporation for the purpose of carrying on and promoting trade and industry in the town of Faridabad, assisting in the rehabilitation of displaced persons settled therein.

89. The Displaced Persons (Compensation and Rehabilitation) Amendment Act (Dec. 27, 1956).

90. The Administration of Evacuee Property (Amendment) Act (Dec. 28, 1956).

91. The Young Persons (Harmful Publications) Act (Dec. 28, 1956).

The object of this Act is to prohibit the production in India of pictorial and other publications containing stories of the glorification of crime, violence and vice known as 'horror crimes'. This is sought to be done because the dissemination of such stories is likely to encourage anti-social tendencies among the children

92. The Employees Provident Funds (Amendment) Act (Dec. 29, 1956).

93. The Banking Companies (Amendment) Act (Dec. 28, 1956).

94. The Central Excise and Salt (Second Amendment) Act (Dec. 22, 1956).

95. The Delhi Tenants (Temporary Protective) Act (Dec. 29, 1956).

96. The Delhi (Control of Building Operations) Continuance Act (Dec. 29, 1956).

97. The Delivery of Books (Public Libraries) Amendment Act (Dec. 29, 1956).

The Act brings newspapers within the purview of the original Act so that the newspapers may also be available in the public libraries for reference and records.

98. The Slum Areas (Improvement and Clearance) Act (Dec. 29, 1956).

99. The Motor Vehicles (Amendment) Act (Dec. 30, 1956).

100. The Electric (Supply) Amendment Act (Dec. 30, 1956).

101. The Indian Medical Council Act (Dec. 30, 1956).

This Act provides for the reconstitution of the Medical Council of India and the maintenance of a Medical Register for India.

102. The Territorial Councils Act (Dec. 30, 1956).

This Act provides for the establishment of Territorial Councils in certain Union Territories.

103. The Suppression of Immoral Traffic in Women and Girls Act (Dec. 30, 1956).

This Act provides in pursuance of the International Convention signed in New York, for the suppression of immoral traffic in women and girls.

Legislation on the subject of immoral traffic did exist in a few States but the law was not uniform. This Act secures uniformity and is sufficiently deterrent for the purpose of suppression.

The Act provides that no person or authority other than the State Governments shall establish or maintain any protective home except under a license issued by the State Governments.

Section 3 lays down punishment for keeping a brothel and allowing premises to be used as brothels.

Section 4 provides punishment for living on the earning of prostitution.

Section 5 lays down punishment for procuring, inducing or taking a woman or a girl for the sake of prostitution.

Section 14 provides that offences under this Act are cognizable.

104 The Women's and Children's Institution (Licensing) Act (Dec. 30, 1956).

This Act provides for the licensing of institutions for women and children. The Act aims at regulating and licensing orphanages and other institutions, caring for women and children under 18 years of age and providing for proper custody, care and training for their inmates. This Act does not apply to Hostels or Boarding Houses attached to or controlled or recognised by educational institutions.

THE STATES REORGANIZATION ACT 1956

Below we give some main provisions of the States Reorganization Act. The numbers of the Articles are retained, but the articles are sometimes shortened or summarized or put in different words.

TERRITORIAL CHANGES

3. (1) As from the appointed day, there shall be added to the State of Andhra the territories comprised in—

(*a*) the districts of Hyderabad, Medak, Nizamabad, Karimnagar, Warangal, Khammam, Nalgonda and Mahbubnagar;

(*b*) Alampur and Gadwal taluks of Raichur district, and Kodangal taluk of Gulbarga district;

(*c*) Tandur taluk of Gulbarga district;

(*d*) Zahirabad taluk (except Nirna circle), Nyalkal circle of Bidar taluk and Narayankhed taluk of Bidar district;

(*e*) Bichkonda and Jukkal circles of Deglur taluk of Nanded district;

(*f*) Mudhol, Bhiansa and Kuber circles of Mudhol taluk of Nanded district; and

(*g*) Adilabad district except Islapur circle of Boath taluk, Kinwat taluk and Rajura taluk;

and thereupon the State of Andhra shall be known as the State of Andhra Pradesh.

(2) The territories referred to in clauses (*b*), (*c*), (*d*), (*e*) and (*f*) of sub-section (1) shall be included in, and become part of, Mahbubnagar, Hyderabad, Medak, Nizamabad and Adilabad districts, respectively, in the State of Andhra Pradesh.

4. There shall be added to the State of Madras the territories comprised in the Agastheeswaram, Thovala, Kalkulam and Vilavancode taluks of Trivandrum district and the Shencottah taluk (excluding Pulliyara Hill pakuthy) of Quilon district; (*b*) the territories comprised in the Agastheeswaram, Thovala, Kalkulam and Vilavancode taluks shall form a separate district to be known as Kanya Kumari district in the State of Madras, and (*c*) the territories comprised in the Shencottah taluk shall be included in, and become part of, Tirunelveli district in the State of Madras.

5. (1) There shall be formed a new Part A State to be known as the State of Kerala comprising the following territories:—

(*a*) the territories of the existing State of Travancore-Cochin, excluding the territories transferred to the State of Madras by section 4, and

(*b*) the territories comprised in—

(i) Malabar district, excluding the Islands of Laccadive and Minicoy, and

(ii) Kasaragod taluk of South Kanara district.

(2) The territories specified in clause (*b*) of sub-section (1) shall form a separate district to be known as Malabar district in the State of Kerala.

6. The Laccadive, Minicoy and Amindivi Islands shall cease to form part of the State of Madras and shall become a new Part C State.

7. (1) There shall be formed a new Part A State to be known as the State of Mysore comprising the following territories:—

(*a*) the territories of the existing State of Mysore;

(*b*) Belgaum district except Chandgad taluk and Bijapur, Dharwar and Kanara districts, in the existing State of Bombay;

(*c*) Gulbarga district except Kodangal and Tandur taluks, Raichur district except Alampur and Gadwal taluks, and Bidar, Bhalki, Humnabad and Santpur (Aurad) taluks of Bidar district, in the existing State of Hyderabad;

(*d*) South Kanara district except Kasaragod taluk and Amindivi Islands, and Kollegal taluk of Coimbatore district, in the State of Madras; and

(*e*) the territories of the existing State of Coorg;

(2) The territories comprised in the existing State of Coorg shall form a separate district to be known as Coorg district, and the said Kollegal taluk shall be included in and become part of, Mysore district.

8. (1) There shall be formed a new Part A State to be known as the State of Bombay comprising the following territories, namely:—

(*a*) the territories of the existing State of Bombay, excluding—

(i) Bijapur, Dharwar and Kanara districts and Belgaum district except Chandgad taluka, and

(ii) Abu Road taluka of Banaskantha district;

(*b*) Aurangabad, Parbhani, Bhir and Osmanabad districts; Ahmadpur, Nilanga and Udgir taluks of Bidar district; Nanded district (except Bichkonda and Jukkal circles of Deglur taluk, and Mudhol, Bahansa and Kuber circles of Mudhol taluk); and Islapur circle of Boath taluk, Kinwat taluk and Rajura taluk of Adilabad district, in the existing State of Hyderabad;

(*c*) Buldana, Akola, Amravati, Yeotmal, Wardha, Nagpur, Bhandara and Chanda districts in the existing State of Madhya Pradesh;

(*d*) the territories of the existing State of Saurashtra; and

(*e*) the territories of the existing State of Kutch;

(2) The said Chandgad taluka shall be included in, and become part of, Kolhapur district; the said Ahmadpur, Nilanga and Udgir taluks shall be included in, and become part of, Osmanabad district, the said Islapur Circle of Boath taluk, Kinwat taluk and Rajura taluk shall be included in, and become part of, Nanded district; and the territories comprised in the existing State of Kutch shall form a separate district to be known as Kutch district, in the new State of Bombay.

9. (1) There shall be formed a new Part A State to be known as the State of Madhya Pradesh comprising the following territories:—

(*a*) the territories of the existing State of Madhya Pradesh, except the districts mentioned in clause (*c*) of sub-section (1) of section 8;

(*b*) the territories of the existing State of Madhya Bharat, except Sunel tappa of Bhanpura tahsil of Mandsaur district;

(*c*) Sironj sub-division of Kotah district in the existing State of Rajasthan;

(*d*) the territories of the existing State of Bhopal; and

(*e*) the territories of the existing State of Vindhya Pradesh.

(2) The said Sironj sub-division shall be included in, and become part of, Bhilsa district in the new State of Madhya Pradesh.

10. (1) There shall be formed a new Part A State to be known as the State of Rajasthan comprising the following territories, namely:—

(*a*) the territories of the existing State of Rajasthan, except Sironj sub-division of Kotah district;

(*b*) the territories of the existing State of Ajmer;

(*c*) Abu Road taluka of Banaskantha district in the existing State of Bombay, and

(*d*) Sunel tappa of Bhanpura tahsil of Mandsaur district in the existing State of Madhya Bharat.

(2) The territories comprised in the existing State of Ajmer shall form a separate district to be known as Ajmer district, and the territories referred to in clauses (*c*) and (*d*) of sub-section (1) shall be included in, and become part of, Sirohi and Jhalawar districts, respectively, in the new State of Rajasthan.

11. There shall be formed a new Part A State to be known as the State of Punjab comprising the following territories:—

(*a*) the territories of the existing State of Punjab; and

(*b*) the territories of the existing State of Patiala and East Punjab States Union.

In the First Schedule to the Constitution the Part A States will be:

Andhra Pradesh, Assam, Bihar, Bombay, Kerala, Madhya Pradesh, Madras, Mysore, Orissa, Punjab, Rajasthan, Uttar Pradesh, West Bengal.

The Part B State will be:

Jammu and Kashmir.

The Part C Territories will be:

Delhi, Himachal Pradesh, Manipur, Tripura, the Laccadive, Minicoy, and Amindivi Islands.

13. The power of the State Governments to alter the name, extent and boundaries of any district or division in the State is not affected by any provisions of this Act.

ZONAL DIVISION

15. There shall be a Zonal Council for each of the following five zones namely:—

(*a*) the Northern Zone comprising the States of Punjab, Rajasthan and Jammu and Kashmir and the Part C States of Delhi and Himachal Pradesh;

(*b*) the Central Zone, comprising the States of Uttar Pradesh and Madhya Pradesh;

(*c*) the Eastern Zone, comprising the States of Bihar, West Bengal, Orissa and Assam, and the Part C States of Manipur and Tripura;

(*d*) the Western Zone, comprising the States of Bombay and Mysore; and

(*e*) the Southern Zone, comprising the States of Andhra Pradesh, Madras and Kerala.

16. (1) The Zonal Council for each zone shall consist of the following members, —

(*a*) a Union Minister to be nominated by the President;

(*b*) The Chief Ministers of each of the States included in the zone and two other Ministers of each such State to be nominated by the Sadr-i-Riyasat in the case of Kashmir and by the Governor in any other case, and if there is no Council of Ministers in any such State three members from that State to be nominated by the President.

(*c*) Where any Part C State is included in the zone not more than two members from each such State to be nominated by the President.

(*d*) In the case of the Eastern Zone, the person for the time being holding the office of the Adviser to the Governor of Assam for Tribal Areas

(2) The Union Minister nominated under clause (*a*) of sub-section (1) to a Zonal Council shall be its Chairman.

(3) The Chief Ministers of the States included in each zone shall act as Vice-Chairman of the Zonal Council for that zone by rotation, each holding office for a period of one year at a time

If there is no Council of Ministers in the State concerned, such member from that State as the President may nominate shall act as Vice-Chairman.

(4) The Zonal Council for each zone shall have the following persons as Advisers to assist the Council in the performance of its duties

(*a*) one person nominated by the Planning Commission;

(*b*) the persons for the time being holding the offices of Chief Secretaries in the States included in the zone; and

(*c*) the persons for the time being holding the offices of Development Commissioners in the States or any other officers nominated by the Governments of the States included in the zone.

(5) Every adviser to a Zonal Council shall have the right to take part in the discussions of the Council or of any Committee thereof of which he may be named a member but shall not have a right to vote at a meeting of the Council or of any such Committee.

17. (1) Each Zonal Council shall meet at such time as the Chairman of the Council may appoint in this behalf and shall, subject to the other provisions of this section, observe such rules of procedure in regard to transaction of business at its meetings as it may with the approval of the Central Government lay down from time to time.

(2) The Zonal Council shall unless otherwise determined by it, meet in the States included in that zone by rotation.

(4) All questions at a meeting of a Zonal Council shall be decided by a majority of votes of the Members present and in the case of an equality of votes, the Chairman shall have a second or casting vote.

(5) The proceedings of every meeting of a Zonal Council shall be forwarded to the Central Government and also to each State Government concerned.

19. (1) Each Zonal Council shall have a secretarial staff consisting of a Secretary, a Joint Secretary and such other officers as the Chairman may consider necessary to appoint.

(2) The Chief Secretaries of the States represented in such Council shall each be the Secretary of the Council by rotation and hold office for a period of one year at a time.

(3) The Joint Secretary of the Council shall be chosen from amongst officers not in the service of any of the States represented in the Council and shall be appointed by the Chairman.

20 (2) The administrative expenses of the said office, including the salaries and allowances payable to or in respect of members of the secretarial staff of the Council other than the Secretary, shall be borne by the Central Government out of monies provided by Parliament for the purpose.

21. (1) Each Zonal Council shall be an advisory body and may discuss any matter in which some or all of the States represented in that Council, or the Union and one or more of the States represented in that Council, have a common interest and advise the Central Government and the Government of each State concerned as to the action to be taken on any such matter.

(2) In particular, and without prejudice to the generality of the provisions of sub-section (1), a Zonal Council may discuss, and make recommendations with regard to, —

(a) any matter of common interest in the field of economic and social planning;

(b) any matter concerning border disputes, linguistic minorities or inter-State transport; and

(c) any other matter connected with or arising out of the reorganization of the States under this Act,

22. (1) Where it is represented to a zonal council that a matter in which a State included in that zone and one or more States included in some other zone have a common interest should be discussed at a joint meeting of the zonal councils concerned it shall be legitimate for the Councils to meet and discuss the matter.

(2) The Central Government may make rules for regulating the procedure at such joint meetings.

LEGISLATURES

22. (1) Such six of the eleven sitting members representing the State of Hyderabad as the Chairman (of the Council of States) shall specify shall fill six of the eighteen seats allotted to the State of Andhra Pradesh.

(2) Such five of the six sitting members representing the State of Travancore-Cochin and such three of the eighteen sitting members representing the State of Madras as the Chairman shall specify shall fill eight of the nine seats allotted to the State of Kerala.

(3) The eleven sitting members representing the States of Bhopal, Madhya Bharat and Vindhya Pradesh and such five of the twelve sitting members representing the State of Madhya Pradesh as the Chairman shall specify shall be deemed to have been duly elected to fill the sixteen seats allotted to the new State of Madhya Pradesh.

(4) Such one of the six sitting members representing the State of Travancore-Cochin as the Chairman shall specify be deemed to have been duly elected to fill one of the seats allotted to Madras State.

(5) The six sitting members representing the State of Mysore, and such four of the seventeen sitting members representing the State of Bombay, and such two of the eleven sitting members representing the State of Hyderabad, as the Chairman shall specify shall fill the twelve seats allotted to the new State of Mysore.

(6) The eleven sitting members representing the existing States of Punjab and Patiala and East Punjab States Union shall fill the eleven seats allotted to the new State of Punjab.

(7) The nine sitting members representing the State of Rajasthan and the sitting member representing the States of Ajmer and Coorg shall fill the ten seats allotted to the new State of Rajasthan.

(8) The five sitting members representing the States of Saurashtra and Kutch and the sitting members representing the existing States of Bombay, Hyderabad and Madhya Pradesh who have not been allocated under sub-sections (1), (3) and (5) to Andhra Pradesh, Madhya Pradesh and Mysore shall fill the twenty-seven seats allotted to the new State of Bombay.

25 As soon as may be after the appointed day, bye-elections shall be held to fill the vacancies existing on the appointed day in the seats allotted to the States of Kerala and Madras

26. In order that as nearly as one-third of the members may retire on 2nd April, 1958, and on the expiry of every second year thereafter, the President shall after consultation with the Election Commission make such provision as he thinks fit in regard to the terms of office of members.

27. Nothing (in this Bill) shall be deemed to affect the constitution or duration of the existing House of the People or the extent of the constituency of any sitting member of that House.

28. (1) Where by virtue of the provisions of this Bill the whole area of any Assembly constituency in an existing State is transferred to any other existing State or becomes part of a new State other than Kerala,—

(a) that area shall be deemed to form a constituency of such other existing State or of such new State, as the case may be; and

(b) the sitting member representing that constituency shall, be deemed to have been elected to the said Legislative Assembly by that constituency.

(2) The sitting members for constituencies in the State of Madras falling wholly or partly within that State which after the appointed day become part of the State of Kerala shall from that day cease to be members of the Legislative Assembly of Madras.

(3) The provisions of the First Schedule shall apply in relation to the sitting members representing the Assembly constituencies specified therein.

(4) The members of the electoral college for Kutch shall, as soon as may be after the commencement of this Act elect eight persons from among themselves in accordance with the system of proportional representation by means of the single transferable vote and the persons so elected shall be deemed to have been elected to the Legislative Assembly of Bombay by a constituency comprising the whole of Kutch district.

(5) The sitting members nominated to represent the Anglo-Indian community in the Legislative Assemblies of Madhya Pradesh, and Mysore shall be deemed to have been nominated to the Legislative Assemblies of the corresponding new States.

29. When a general election is next held in the State of Andhra Pradesh for electing members to the House of the People, elections shall also be held to fill the seats allotted to the Assembly constituencies into which the transferred territory in that State is divided.

30. The period of five years shall in the case of Legislative Assembly of each new State except Kerala, be deemed to have commenced on the date on which it actually commenced in the case of the Legislative Assembly of the corresponding State.

COUNCILS

33. (1) As from such date as the President may appoint, there shall be a Legislative Council for the new State of Madhya Pradesh.

(2) In the said Council there shall be 72 seats of which—

(a) the numbers to be filled by persons elected by the electorates referred to in sub-clauses (a), (b) and (c) of clause (3) of article 171 shall be 24, 6 and 6 respectively,

(b) the number to be filled by persons elected by the members of the Legislative Assembly in accordance with the provisions of sub-clause (d) of the said clause shall be 24; and

(c) the number to be filled by persons nominated by the Governor in accordance with the provisions of sub-clause (e) of that clause shall be 12

34. (1) As from such date as the President may appoint, there shall be a Legislative Council for the new State of Bombay.

(2) Until the said Council has been reconstituted in accordance with the provisions of sub-sections (4) and (5) of this section and summoned to meet for the first time, the said Council shall consist of—

(a) all the sitting members of the Legislative Council of the existing State of Bombay, except those representing the Belgaum (Local Authorities), Bijapur (Local Authorities) and Dharwar (Local Authorities) constituencies; and

(b) 25 members to represent the territories specified in clauses (b), (c), (d) and (e) of sub-section (1) of section 8 who shall be chosen in such manner as may be prescribed.

(3) After such reconstitution as aforesaid, there shall be 72 seats in the said Council of which—

(a) the numbers to be filled by persons elected by the electorates referred to in sub-clauses (a), (b) and (c) of clause (3) of article 171 shall be 24, 6 and 6 respectively;

(b) the number to be filled by persons elected by the members of the Legislative Assembly shall be 24; and

(c) the number to be filled by persons nominated by the Governor shall be 12.

35. (1) In the Legislative Council of Madras, as from the appointed day, there shall be 50 seats of which—

(a) the numbers to be filled by persons elected by the electorates referred to in sub-clauses (a), (b) and (c) of clause (3) of article 171 shall be 16, 6 and 4 respectively;

(b) the number to be filled by persons elected by the members of the Legislative Assembly in accordance with the provisions of sub-clause (d) of the said clause shall be 16; and

(c) the number to be filled by persons nominated by the Governor in accordance with the provisions of sub-clause (e) of that clause shall be 8.

(3) The two sitting members of the said Council representing the West Coast (Local Authorities) Constituency and such two of the eighteen sitting members elected by the members of the Legislative Assembly, as the Chairman of the said Council shall specify shall, on the appointed day, cease to be members of the said Council.

(4) If, immediately before the appointed day, the total number of sitting members nominated by the Governor is nine, such one of them as the Governor shall specify shall, on the appointed day, cease to be a member of the said Council.

(6) As soon as may be after the appointed day, bye-elections shall be held in all the local authorities constituencies to fill the vacancies existing on that day in the said Council.

(7) In order that as nearly as one-third of the members of the said Council may retire on 20th April 1958, and on the expiry of every second year thereafter, the Governor shall after consultation with the Election Commission make such provision as he thinks fit in regard to the term of office of members.

36. (1) There shall be a Legislative Council for the new State of Mysore.

(2) Until the said Council has been reconstituted in accordance with the provisions of sub-sections (3) and (4) of this section and summoned to meet for the first time the said Council shall consist of—

(a) all the sitting members of the Legislative Council of the existing State of Mysore, and

(b) 12 members to represent the territories specified in clauses (b), (c), (d) and (e) of sub-section (1) of section 7 who shall be chosen in such manner as may be prescribed.

(3) After such reconstitution as aforesaid, there shall be 52 seats in the said Council of which—

(a) the numbers to be filled by persons elected by the electorates referred to in sub-clauses (a), (b) and (c) of clause (3) of article 171 shall be 18, 4 and 4 respectively,

(b) the number to be filled by persons elected by the members of the Legislative Assembly shall be 18, and

(c) the number to be filled by persons nominated by the Governor shall be 8.

37. (1) There shall be a Legislative Council for the new State of Punjab.

(2) Until the said Council has been reconstituted in accordance with the provisions of sub-sections (3) and (4) of this section and of any other law for the time being in force the said Council shall consist of –

(a) all the sitting members of the Legislative Council of the existing state of Punjab.

(b) six persons to be elected in such manner as may be prescribed by the members of the Legislative Assembly of the existing State of Patiala and East Punjab states Union from amongst persons who are not members of that Assembly

(3) After such reconstitution as aforesaid, there shall be 40 seats in the said Council of which—

(a) the numbers to be filled by persons elected by the electorates referred to in sub-clauses (a), (b) and (c) of clause (3) of article 171 shall be 13, 3 and 3 respectively;

(b) the number to be filled by persons elected by the members of the Legislative Assembly shall be 13; and

(c) the number to be filled by persons nominated by the Governor shall be 8.

DELIMITATION OF CONSTITUENCIES

41. As soon as may be after the commencement of this Act, the President shall make such modifications in the Constitution (Scheduled Castes) Order, 1950, the Constitution (Scheduled Castes) (Part C States) Order, 1951, the Constitution (Scheduled Tribes) Order, 1950 and the Constitution (Scheduled Tribes) (Part C States) Order, 1951, as he thinks fit having regard to the territorial changes and formation of new States.

42. (1) The population as at the last census of the scheduled castes and of the scheduled tribes in each of the States of Andhra Pradesh, Bombay, Kerala, Madhya Pradesh, Madras, Mysore, Punjab, Rajasthan shall be ascertained or estimated by the census authority.

(2) The population figures shall be taken to be the relevant population figures as ascertained at the last census and shall supersede any figures previously published.

43. (1) As soon as may be after the commencement of this Act, the Central Government shall constitute a Commission to be called the Delimitation Commission which shall consist of three members as follows:—

(a) two members each of whom shall be a person who is, or has been, a Judge of the Supreme Court or of a High Court, to be appointed by the Central Government; and

(b) the Chief Election Commissioner, *ex officio*.

44. It shall be the duty of the Commission—

(a) to determine on the basis of the population figures the number of seats, if any, to be reserved for the scheduled castes and the scheduled tribes of each of the States mentioned in section 42 in the House of the People and in the Legislative Assembly of the State;

(b) to determine the parliamentary and assembly constituencies into which each new State shall be divided, the extent of, and the number of seats to be allotted to each such constituency, and the number of seats if any, to be reserved for the scheduled castes and the scheduled tribes of the States in each such constituency.

45. (1) For the purpose of assisting the Commission the Commission shall associate with itself in respect of each new State such five persons as the Central Government shall by order specify, being persons who are members either of the House of the People or of the Legislative Assembly of an existing State.

Provided that such persons shall be chosen as far as practicable from among those members who were associated with the former Commission. None of the associate members shall have the right to vote or sign any decision of the commission.

HIGH COURTS

49. (1) The High Courts exercising immediately before the appointed day jurisdiction in relation to the existing States of Bombay, Madhya Pradesh and Punjab shall, as from the appointed day, be deemed to be the High Courts for the new States of Bombay, Madhya Pradesh and Punjab, respectively.

(2) As from the appointed day, there shall be established a High Court for each of the new States of Kerala, Mysore and Rajasthan.

50. (1) As from the appointed day, the High Courts of all the existing Part B States, except Jammu and Kashmir, and the Courts of the Judicial Commissioners for Ajmer, Bhopal, Kutch and Vindhya Pradesh shall cease to function and are hereby abolished.

65. (1) As from the appointed day,—

(a) the jurisdiction of the High Court of the existing State of Andhra shall extend to the whole of the territories transferred to that State from the existing State of Hyderabad;

(b) the said High Court shall be known as the High Court of Andhra Pradesh; and

(c) the principal seat of the said High Court shall be at Hyderabad.

EXPENDITURE

70. In the case of every new State, the Governor or Rajpramukh of the corresponding State may before the appointed day authorise such expenditure as he deems necessary for a period not extending beyond the 31st day of March, 1957

Provided that the Governor of a new State may authorize such further expenditure as he deems necessary for the said period.

71. (1) As from the appointed day, any Act passed by the Legislature of the State of Andhra or Madras before that day for the appropriation of any money to meet any expenditure in respect of any part of the financial year 1956-57 shall have effect also in relation to the transferred territory in that State.

(2) The Governor of Andhra Pradesh or Madras may authorize such expenditure as he deems necessary for any purpose or service in the transferred territory of the State for any period not extending beyond the 31st day of March 1957.

72. (1) Where the whole or any part of the territory of an existing State has been transferred to another existing State or to a new State the reports of the Comptroller and Auditor-General of India relating to the accounts of that existing State shall be submitted to the Governor of such State or of each of such States and the Governor shall thereupon cause them to be laid before the Legislature of that State.

(2) The President may by order—

(a) declare any expenditure incurred out of the Consolidated Fund of Bombay, Madhya Pradesh or Punjab or of any Part B or Part C State on any service during the financial year 1955-56 or any earlier financial year in excess of the amount granted for that service and for that year as disclosed in the reports referred to in sub-section (1) to have been duly authorised, and

(b) provide for any action to be taken on any matter arising out of the said reports.

73. The allowances and privileges of the Governor of each new State shall, until provision in that behalf is made by Parliament by law be such as the President may, by order, determine.

74. (1) Section 3 of the Union Duties of Excise (Distribution) Act, 1953 and paragraphs 3 and 5 of the Constitution (Distribution of Revenues) Order, 1953 shall, in respect of the financial year 1956-57, have effect in the modified form set out in the Fourth Schedule

(2) There shall be charged on the Consolidated Fund of India in respect of each of the three financial years 1957-58, 1958-59 and 1959-60 as grants-in-aid of –

(a) the State of Bombay, the sum, if any, by which 8·58 per cent of the total of the amounts payable to that State under articles 270 and 272 falls short of 248·04 lakhs of rupees,

(b) the State of Kerala, the sum if any, by which 81·91 per cent of the total of the amounts payable to that State under the said article falls short of 232·38 lakhs of rupees,

(c) the State of Madras, the sum, if any, by which 2·97 per cent of the total of the amounts payable to that State under the said article falls short of 24·65 lakhs of rupees,

(d) the State of Mysore, the sum, if any, by which 46·75 per cent of the total of the amounts payable to that State under the said article falls short of 289·80 lakhs of rupees.

DIVISION OF ASSETS

75 The provisions of this Part shall apply in relation to the apportionment of the assets and liabilities immediately before the appointed day of every Part A or Part B State the whole or any part of whose territories is transferred to another State or becomes a Part C State

76 (1) Subject to the other provisions of this Part, all land and all stores, articles and other goods belonging to an existing State shall

(a) if within the existing State, pass to the successor State in which they are situated, or

(b) if outside the existing State, pass to the successor State, or if there be two or more successor States, to the principal successor State:

Provided that where there are two or more successor States and the Central Government is of opinion that any goods or class of goods should be distributed among them otherwise than according to the situation of the goods, the Central Government may issue such directions as it thinks fit for a just and equitable distribution of the goods and the goods shall pass to the successor States accordingly.

(2) Any unissued stores of any class in an existing State shall pass to the successor State, or if there be two or more successor States, shall be divided between them in proportion to the total indents for stores of that class made in the period of three years ending with the 31st day of March, 1956, for the territories

of the existing State included respectively in each of those successor States excluding the indents relating to the Secretariat and offices of heads of departments having jurisdiction over the whole of the existing State.

Provided that nothing in this sub-section shall apply to stores held for specific purposes, such as use or utilisation in particular institutions, workshops, or undertakings or on particular works under construction.

(3) In this section, the expression "land" includes immovable property of every kind and any rights in or over such property, and the expression "goods" does not include coins, bank notes and currency notes.

77. The total of the cash balances in all treasuries of an existing State and the credit balances of that State with the Reserve Bank of India immediately before the appointed day shall pass to the successor State, or, if there be two or more successor States, be divided between them according to the population ratio:

Provided that for the purpose of such division, there shall be no transfer of cash balances from any treasury to any other treasury and the apportionment shall be effected by adjusting the credit balances of the successor States in the books of the Reserve Bank of India on the appointed day.

Provided further if any successor State has no account with the Reserve Bank of India the adjustment shall be made in such manner as the Central Government may direct.

78. The right to recover arrears of any tax or duty on property including arrears of land revenue shall belong to the successor State in which the property is situated, and the right to recover arrears of any other tax or duty shall belong to the successor State in whose territory the place of assessment of that tax or duty is included.

79. (1) The right to recover any loans or advances made before the appointed day by an existing State to any local body, society, agriculturist or other person in an area within that State shall belong to the successor State in which that area is included.

(2) The right to recover any loans or advances made before the appointed day by an existing State to any person or institution outside that State shall belong to the successor State or, if there be two or more successor States, to the principal successor State.

Provided that where there are two or more successor States any sum recovered in respect of any such loan or advance shall be divided between all the successor States according to the population ratio.

80. The investments in the cash balance investments account, the famine relief fund and the general fund of an existing State and the sums at the credit of an existing State in the central road fund shall pass to the successor State or, if there be two or more successor States, be divided between them according to the population ratio; and the investments in any special fund the objects of which are confined to a local area in an existing State shall pass to the successor State in which that area is included.

81. (1) The assets and liabilities relating to any commercial or industrial undertaking of an existing State shall pass to the successor State in which the undertaking is located.

(2) Where a depreciation reserve fund is maintained by an existing State for any commercial or industrial undertaking, the securities held in respect of investments made from that fund shall pass to the successor State in which the undertaking is located.

PUBLIC DEBTS

82. (1) The public debt of the existing State of Hyderabad attributable to loans raised by the issue of Government securities and outstanding with the public immediately before the 31st of October, 1956, shall as from that day be the debt of the Union, and immediately on such transfer of the debt, the Central Government shall be deemed to have made a loan to that State of an amount equal to the debt so transferred on the same terms in regard to interest and repayment as are applicable to the loans so raised by that State.

(2) The public debt of any other existing State attributable to loans raised by the issue of Government securities and outstanding with the public immediately before the appointed day shall, as from that day, be the debt of the successor State or, if there be two or more successor States, be the debt of such one of them as the Central Government may, by order, specify, and in the latter case,—

(*a*) the other successor States shall be liable to pay to the successor State so specified their share of the sums due for the servicing and repayment of the debt, and (*b*) for the purpose of determining the said shares, the debt shall be deemed to be divided between the successor States as if it were a debt referred to in sub-section (3).

(3) The public debt of an existing State attributable to loans taken from the Central Government, the Reserve Bank of India or any other Bank before the appointed day, including in the case of Hyderabad the loan deemed to have been made by the Central Government shall pass to the successor State, or if there be two or more successor States, be divided between them in proportion to the total expenditure on all capital works and other capital outlays incurred up to the appointed day in the territories of the existing State included respectively in each of those successor States:

Provided that for the purposes of such division, only expenditure on assets for which capital accounts have been kept shall be taken into account

Provided further that any loan taken from the Central Government by the Government of an existing State before the appointed day in connection with the construction of buildings, roads or other works for the capital of a new State or any State affected by the territorial changes, or for purposes incidental thereto shall to the extent of the expenditure so incurred until that day, be wholly the liability of the successor State in which the capital is included.

(4) Where a sinking fund or depreciation fund is maintained by an existing State for the repayment of any loan raised by it, the securities held in respect of investments made from that fund shall pass to the successor State or, if there be two or more successor States, be divided between them in the same proportion as the public debt referred to in sub-section (3).

84. Civil deposits and local fund deposits with an existing State shall pass to the successor State in whose area the deposits have been made and the liability to pay them shall fall on that State.

85. The liability of an existing State in respect of the provident fund account of a Government servant in service on the appointed day shall as from that day, be the liability of the successor State to which that Government servant is permanently allotted.

86. The liability of the existing States in respect of pensions shall pass to, or be apportioned between, the successor States in accordance with the provisions contained in the Fifth Schedule.

CONTRACTS

87. (1) Where an existing State has made any contract in the exercise of its executive power that contract shall be deemed to have been made in the exercise of the executive power—

(*a*) if there be only one successor State,—of that State:

(*b*) if there be two or more successor States and the purposes of the contract are exclusively purposes of any one of them, of that State; and

(*c*) if there be two or more successor States and the purposes of the contract are not exclusively purposes of any one of them,—of the principal successor State:

Provided that in any such case the initial allocation of rights and liabilities made by this sub-section shall be subject to such financial adjustment as may be agreed upon between all the successor States concerned, or in default of such agreement, as the Central Government may by order direct.

88. Where, immediately before the appointed day, an existing State is subject to any liability in respect of an actionable wrong other than breach of contract, that liability shall—

(*a*) if there be only one successor State, be a liability of that State;

(*b*) if there be two or more successor States and the cause of action arose wholly within the territories which as from that day are the territories of one of them, be a liability of that successor State; and

(*c*) in any other case, be initially a liability of the principal successor State, but subject to such financial adjustment as may be agreed upon between all the successor States concerned, or in default of such agreement, as the Central Government may by order direct.

89. Where an existing State is liable as guarantor in respect of any liability of a registered co-operative society, that liability shall—

(*a*) if there be only one successor State, be a liability of that State;

(*b*) if there be two or more successor States and the area of the society's operations is limited to the territories which are the territories of one of them, be a liability of that successor State; and

(*c*) in any other case be a liability of the principal successor State.

Provided in any such case the initial allocation of liabilities shall be subject to such financial adjustments as may be agreed upon between all the successor States, or in default of such agreement as the Central Government may direct.

90. If any item in suspense is ultimately found to affect an asset or liability of the nature referred to in any of the foregoing provisions it shall be dealt with in accordance with that provision

91. The benefit or burden of any assets or liabilities of an existing State not dealt with in the foregoing provisions shall—

(*a*) if there be only one successor State, pass to that State, and

(*b*) if there be two or more successor States, pass to the principal successor State in the first instance, subject to such financial adjustment as may be agreed upon between all the successor States before the 1st day of October, 1957, or in default of such agreement, as the Central Government may direct.

92. Where by virtue of any of these provisions any of the successor States becomes entitled to any property or obtains any benefits or becomes subject to any liability, and the Central Government is of opinion, on a reference made within a period of three years by any State that it is just and equitable that that property or those benefits should be transferred to or shared with, one or more of the other successor States, or that a contribution towards that liability should be made by one or more of the other successor States, the said property or benefits shall be allocated in such manner, or the other successor State or States shall make to the State primarily subject to the liability such contribution in respect thereof, as the Central Government may, after consultation with the State Governments concerned by order determine.

93. All sums payable by the Union to any State or by any State to any other State or to the Union by virtue of these provisions shall be charged on the Consolidated Fund of India, or as the case may be, the Consolidated Fund of the State by which such sums are payable.

PART C STATES

94. In this Part,—

(*a*) "existing State" means any of the existing Part C States of Ajmer, Bhopal, Coorg, Kutch and Vindhya Pradesh,

(*b*) "Union purposes" mean the purposes of Government relatable to any of the matters mentioned in the Union List.

95. Subject to the other provisions—

(*a*) such of the assets of the Union within an existing State as are held by the Union for purposes of the governance of that State shall pass to the successor State, unless the purposes for which the assets are so held are Union purposes; and

(*b*) all liabilities of the Union arising out of, or in relation to, the governance of an existing State shall be liabilities of the successor State, unless the liabilities are relatable to a Union purpose.

96. The right to recover arrears of any tax (including land revenue) due in an existing State, being a tax enumerated in the State List, shall pass to the successor State.

97. The right to recover any loans or advances made to any local body, society, agriculturist or other person in an existing state shall belong to the successor State unless the loan or advance was made in connection with a Union purpose.

98. Any debt of an existing State attributable to any loan given by the Central Government on or after the first day of April, 1954 and outstanding shall be a debt due by the successor State to the Central Government.

99. The liability of the Union in respect of the provident fund account of a Government servant serving in an existing State under the administrative control of the Lieutenant-Governor or Chief Commissioner thereof shall be the liability of the successor State:

Provided that the Central Government shall transfer to the successor State funds equal to the liability of the Union.

100. Where a Government servant under the administrative control of the Lieutenant-Governor or Chief Commissioner of an existing State has retired or proceeded on leave preparatory to retirement, any outstanding claim in respect of his pension shall be settled by the successor State, but the liability in respect of the pension sanctioned to any such Government servant, shall be the liability of the Union.

101. (1) Any contract made by the Union in the exercise of its executive power for purpose of the governance of an existing State shall be deemed to have been made in the exercise of the executive power of the successor State, unless the purposes of the contract are Union purposes; and all rights and liabilities which have accrued or may accrue under any such contract shall, to the extent to which they would have been rights and liabilities of the Union if this Act had not been passed, be rights and liabilities of the successor State.

CORPORATIONS, PROJECTS

102. (1) As from the appointed day, the Financial Corporations established under the State Financial Corporations Act, 1951, for the existing States of Madhya Bharat, Punjab, Rajasthan and Travancore-Cochin shall be deemed to be the Financial Corporations established under the said Act for the new States of Madhya Pradesh, Punjab, Rajasthan and Kerala, respectively.

(2) The States of Kerala, Madhya Pradesh, and Rajasthan shall be liable to pay to the States of Madras, Rajasthan and Madhya Pradesh, respectively, on account of the share of each of the last-named States in the paid-up capital of the Financial Corporations for the existing States of Travancore-Cochin, Madhya Bharat and Rajasthan, respectively, such amount as the Central Government may determine.

(3) As from the appointed day, the Financial Corporations established under the State Financial Corporations Act, 1951, for the existing States of Andhra and Hyderabad shall stand amalgamated and shall be deemed to be the Financial Corporation established under the said Act for the State of Andhra Pradesh.

(4) After consulting the Governments of the existing States of Andhra and Hyderabad, the Central Government may, before the appointed day, provide for the constitution of the Board of Directors of the Financial Corporation for the State of Andhra Pradesh and for such consequential, incidental and supplemental matters as may, in the opinion of the Central Government, be necessary to give effect to the provisions of sub-section (3).

(5) The State of Andhra Pradesh shall be liable to pay to each of the new States of Mysore and Bombay on account of its share of the paid-up capital of the Financial Corporation for the existing State of Hyderabad such amount as the Central Government may determine.

(6) As from the appointed day, the Financial Corporations established under the State Financial Corporations Act, 1951, for the existing States of Bombay and Saurashtra shall stand amalgamated and shall be deemed to be the Financial Corporation established under the said Act for the new State of Bombay.

(7) After consulting the Governments of the existing States of Bombay and Saurashtra, the Central Government may, before the appointed day, provide for the constitution of the Board of Directors of the Financial Corporation for the new State of Bombay and for such consequential, incidental and supplemental matters as may, in the opinion of the Central Government, be necessary to give effect to the provisions of sub-section (6).

(8) The new State of Bombay shall be liable to pay to each of the new States of Mysore and Rajasthan on account of its share of the paid-up capital of the Financial Corporation for the existing State of Bombay such amount as the Central Government may determine.

103. (1) The Madras Industrial Investment Corporation shall be deemed to have been constituted for the new State.

(2) The State of Madras shall be liable to pay to each of the new States of Kerala and Mysore on account of its share of the paid-up capital of the said Corporation such amount as the Central Government may determine.

105. In the Multi-Unit Co-operative Societies Act, 1942, after section 5, the following sections shall be inserted, namely:—

"5A. (1) Where any co-operative society which, immediately before the 1st day of November, 1956, had its objects confined to one State becomes, as from that day, a multi-unit co-operative society, it shall be deemed to be a co-operative society to which this Act applies and shall be deemed to be actually registered in the State in which the principal place of business of the co-operative society is situated.

(2) If it appears to the Central Registrar of Co-operative Societies necessary or expedient that any such society should be reconstituted or reorganised in any manner or that it should be dissolved, the Central Registrar may, with the approval of the Central Government, place before a meeting of the general body of the society a scheme for the reconstitution, reorganisation or dissolution of the society, including proposals regarding the formation of new co-operative societies and the transfer thereto of the assets and liabilities of that society.

(3) If the scheme is sanctioned by a resolution passed by a majority of the members present at the said meeting, either without modifications or with modifications to which the Central Registrar agrees, he shall certify the scheme, and upon such certification, the scheme shall, notwithstanding anything to the contrary contained in any law, regulation or bye-law for the time being in force, be binding on all the societies affected by the scheme, as well as the shareholders and creditors of all such societies.

(4) If the scheme is not sanctioned under sub-section (3), the Central Registrar may refer the scheme to such judge of the appropriate High Court as may be nominated in this behalf by the Chief Justice thereof, and the decision of that Judge in regard to the scheme shall be final and shall be binding on all the societies affected by the scheme as well as the shareholders and creditors of all such societies

106. (1) The State Electricity Board for any of the existing States of Bombay, Madhya Pradesh and Saurashtra shall continue to function in those areas in respect of which it was functioning subject to the provisions of this section and to such directions as may be issued by the Central Government.

(2) A State Electricity Board shall be deemed to be dissolved on the 1st day of November, 1957, or such earlier date as the Central Government may appoint; and upon such dissolution, its assets and liabilities shall,—

(*a*) in the case of the Board for Saurashtra pass to the State of Bombay, and

(*b*) in the case of the Board for the existing State of Bombay or Madhya Pradesh, be apportioned between the successor States in such manner as may be agreed upon between them, within one year of the dissolution of the Board or if no agreement is reached, in such manner as the Central Government may determine.

(4) Nothing in the provisions of this section shall be construed as preventing the Government of any of the successor States to the existing States of Bombay, Madhya Pradesh and Saurashtra from constituting at any time a State Electricity Board; and if such a Board is so constituted before the dissolution of a Board continued under sub-section (1) and functioning in any part of that successor State —

(*a*) provision may be made by the Central Government enabling the new Board to take over from the existing Board all or any of its undertakings, assets and liabilities in that State, and

(*b*) upon the dissolution of the existing Board, any assets and liabilities which would otherwise have passed to the successor State shall pass to the new Board instead of to the successor State.

107. If it appears to the Central Government that the arrangement in regard to the generation or supply of electric power or the supply of water for any area has been or is likely to be modified to the disadvantage of that area by reason of the fact that it has been transferred from the State in which the power stations and other installations, or the catchment area reservoirs and other works are located the Central Government may give such directions as it deems proper to the State Government or other authority concerned for the maintenance, so far as practicable, of the previous arrangement.

108. (1) Any agreement or arrangement entered into between the Central Government and one or more existing States or between two or more existing States relating to—

(*a*) the administration, maintenance and operation of any project or

(*b*) the distribution of benefits, such as, the right to receive and utilise water or electric power, to be derived as a result of the execution of such project, shall continue in force, subject to such adaptations and modifications, if any, (being of a character not affecting the general operation of the agreement or arrangement) as may be agreed upon between the Central Government and the successor State concerned or between the successor States concerned, as the case may be, by the first day of November 1957, or, if no agreement is reached by the said date, as may be made therein by the Central Government.

(2) Where a project concerning one or more of the existing States has been taken in hand, but not completed, or has been accepted by the Government of India for inclusion in the Second Five-Year Plan, neither the scope of the project nor the provisions relating to its administration, maintenance or operation or to the distribution of benefits to be derived from it shall be varied,—

(*a*) in the case where a single successor State is concerned with the project except with the previous approval of the Central Government and

(*b*) in the case where two or more successor States are concerned with the project except by agreement between those successor States, or if no agreement is reached except, in such manner as the Central Government may direct, and the Central Government may from time to time give such directions as may appear to it to be

necessary for the due completion of the project and for its administration, maintenance and operation thereafter.

(3) In this section, the expression "project" means a project for the promotion of irrigation, water supply or drainage or for the development of electric power or for the regulation or development of any inter-State river or river valley.

INTER-STATE TRANSPORT

109. (1) Save as otherwise expressly provided by the foregoing provisions where any body corporate has been constituted under a Central Act, State Act or Provincial Act for an existing State the whole or any part of which is transferred to any other existing State or to a new State, then, notwithstanding such transfer, the body corporate shall, as from the appointed day, continue to function and operate in those areas in respect of which it was functioning and operating immediately before that day, subject to such directions as may from time to time be issued by the Central Government, until other provision is made by law in respect of the said body corporate

(2) Any directions issued by the Central Government under sub-section (1) in respect of any such body corporate shall include a direction that any law by which the said body corporate is governed shall in its application to that body corporate have effect subject to such exceptions and modifications as may be specified in the direction.

110. (1) Notwithstanding anything contained in section 63 of the Motor Vehicles Act, 1939, a permit granted by the State or a Regional Transport Authority in an existing State, the whole or any part of the territories of which is transferred to another existing State or to a new State shall, if such permit was, immediately before the appointed day, valid and effective in any area in the territories so transferred, be deemed to continue to be valid and effective in that area after that day subject to the provisions of that Act as for the time being in force in that area ; and it shall not be necessary for any such permit to be countersigned by any other State or Regional Transport Authority for the purpose of validating it for use in such transferred territories :

Provided that the Central Government may, after consultation with the State Government or Governments concerned, add to, amend or vary the conditions attached to the permit by the Authority by which the permit was granted,

(2) No tolls, entrance fees or other charges of a like nature shall be levied after the appointed day in respect of any transport vehicle for its operations in any transferred territory under any such permit, if such vehicle was, immediately before that day, exempt from the payment of any such toll, entrance fees or other charges for its operations beyond the boundaries of the State in which such permit was granted.

Provided that the Central Government may, after consultation with the State Government or Governments concerned, authorise the levy of any such toll, entrance fees or other charges, as the case may be.

111. Where on account of the reorganisation of the States under this Act, any body corporate constituted under a Central Act, State Act or Provincial Act, any co-operative society registered under any law relating to co-operative societies or any commercial or industrial undertaking of an existing State, is reconstituted or reorganised in any manner whatsoever or is amalgamated with any other body corporate or undertaking, or is dissolved, and in consequence of such reconstitution, reorganisation, amalgamation or dissolution, any workman employed by such body corporate or in any such undertaking is transferred to, or re-employed by, any other body corporate or undertaking, then, notwithstanding anything contained in section 25F of the Industrial Disputes Act, 1947, such transfer or re-employment shall not entitle him to any compensation under that section :

Provided that—

(*a*) the terms and conditions of service applicable to the workman after such transfer or re-employment are not less favourable to the workman than those applicable to him immediately before the transfer or re-employment ; and

(*b*) the employer in relation to the body corporate or the undertaking where the workman is transferred or re-employed, is by agreement or otherwise legally liable to pay to the workman, in the event of his retrenchment, compensation under section 25F of the Industrial Disputes Act, 1947, on the basis that his service has been continuous and has not been interrupted by the transfer or re-employment.

112. (1) As from the appointed day, there shall be established in the State of Madras a Devaswom Fund for the management of Hindu temples and shrines in the territories transferred to that State from the State of Travancore-Cochin.

(2) The assets as on the appointed day of the Devaswom Surplus Fund constituted by section 26 of the Travancore-Cochin Hindu Religious Institutions Act, 1950, shall be divided into two parts in the ratio of 37·5 to 13·5 in such manner as the Central Government may, direct, and the smaller part shall, as from the appointed day, be transferred to the Fund mentioned in sub-section (1).

113. The Central Government may in respect of the institutions of the categories specified in the Sixth Schedule located in a new State or in the State of Andhra Pradesh or Madras direct that such facilities shall be provided to the Government and the people of one or more adjoining States for such period and upon such terms and conditions as may be agreed upon between the State Governments concerned before the 31st day of March, 1957, or if no agreement is reached by the said date, as may be fixed by the Central Government

ADMINISTRATIVE SERVICES

114 (2) As from the appointed day, there shall be constituted for each of the new States a State cadre of the Indian Administrative Service and a State cadre of the Indian Police Service

(3) The initial strength and composition of each of the said cadres shall be such as the Central Government may determine before the appointed day

(4) The cadres of each of the said services for the existing States of Bombay, Madhya Pradesh, Punjab and Vindhya Pradesh and for the existing Part B States shall cease to exist, and the members of each of the said services borne on those cadres shall be allocated to the State cadres of the same service for the other existing States or for the new States in such manner and with effect from such date or dates as the Central Government may specify.

115 (1) Every person who is serving in connection with the affairs of the Union under the administrative control of the Lieutenant-Governor or Chief Commissioner in any of the existing States of Ajmer, Bhopal, Coorg, Kutch and Vindhya Pradesh, or is serving in connection with the affairs of any of the existing States of Mysore, Punjab, Patiala and East Punjab States Union and Saurashtra shall be deemed to have been allotted to serve in connection with the affairs of the successor State to that existing State

(2) Every person who is serving in connection with the affairs of an existing State part of whose territories is transferred to another State shall, as from that day, provisionally continue to serve in connection with the affairs of the principal successor State to that existing State, unless he is required by general or special order of the Central Government to serve provisionally in connection with the affairs of any other successor State.

(3) As soon as may be the Central Government shall, determine the successor State to which every person referred to in sub-section (2) shall be finally allotted for service and the date with effect from which such allotment shall take effect.

(4) Every person who is finally allotted under the provisions of sub-section (3) to a successor State shall if he is not already serving therein be made available for serving in that successor State from such date as may be agreed upon between the Governments concerned, and in default of such agreement, as may be determined by the Central Government.

(5) The Central Government may establish one or more Advisory Committees for the purpose of assisting it in regard to—

(*a*) the proper integration of the services and their division among the States of Andhra Pradesh and Madras and the new States ; and

(*b*) the ensuring of fair and equitable treatment to all persons affected by the provisions of this section and the proper consideration of any representations made by such persons.

(6) The foregoing provisions of this section shall not apply in relation to any person to whom the provisions of section 114 apply.

(7) The conditions of service applicable immediately before the appointed day to the case of any person referred to in sub-section (1) or sub-section (2) shall not be varied to his disadvantage except with the previous approval of the Central Government.

116 (1) Every person who is holding or discharging the duties of any post or office in connection with the affairs of the Union or of an existing State in any area which on 1st Nov falls within another existing State or a new State or in a Union Territory shall, except where such post or office ceases to exist, continue to hold the same post or office in the other existing State or new State or Union Territory in which such area is included on that day and shall be deemed to have been duly appointed to such post or office by the Government of, or other appropriate authority in, such State, or by the Central Government or other appropriate authority in such Union Territory.

(2) Nothing in this section shall be deemed to prevent a competent authority, from passing in relation to any such person any order affecting his continuance in such post or office.

117. The Central Government may at any time give such directions to any State as may appear to it to be necessary for the purpose of giving effect to the foregoing provisions and the State Government shall comply with such directions.

118. (1) The Public Service Commissions for the existing States of Bombay, Mysore, Punjab, Rajasthan and Travancore-Cochin shall be deemed to be the Public Service Commissions for the corresponding new States.

(2) The Public Service Commissions for the existing States of Hyderabad, Madhya Bharat, Madhya Pradesh, Patiala and East Punjab States Union and Saurashtra shall cease to exist.

(3) Every person holding office as chairman or other member of any of the Commissions mentioned in sub-section (2)

(*a*) shall become a member and if so specified also the Chairman of such one of the Public Service Commissions for the states of Andhra Pradesh, Bombay, Madhya Pradesh, Punjab and Mysore as the President shall specify and

(*b*) shall, as such member or Chairman be entitled to receive conditions of service not less favourable than those to which he was entitled immediately before the appointed day.

(4) Every person who becomes a member of a Public Service Commission under sub-section (1) or sub-section (3) shall, hold office or continue to hold office until the expiration of his term of office as determined under the provisions applicable to him immediately before the appointed day.

LEGAL AND MISCELLANEOUS PROVISIONS

119. The provisions effecting territorial changes shall not be deemed to have effected any change in the territories to which any law in force extends or applies, and territorial references in any such law to an existing State shall, until otherwise provided by a competent Legislature

or other competent authority, be construed as meaning the territories within that State immediately before the appointed day.

120. For the purpose of facilitating the application of any law in relation to any of the States or Union Territories formed or territorially altered the appropriate Government may before the expiration of one year from the appointed day make such adaptations and modifications of the law, whether by way of repeal or amendment, as may be necessary or expedient, and thereupon every such law shall have effect subject to the adaptations and modifications so made until altered, repealed or amended by a competent Legislature or other competent authority.

121. Notwithstanding that no provision or insufficient provision has been made under section 120 for the adaptation of a law made before the appointed day, any court, tribunal or authority may, for the purpose of facilitating its application in relation to any State or Union Territory formed or territorially altered construe the law in such manner without affecting the substance as may be necessary or proper in regard to the matter before it.

122. The Central Government, as respects any Union Territory, and the State Government as respects any new State or any transferred territory, may specify the authority, officer or person who, as from the appointed day, shall be competent to exercise such functions exercisable under any law in force on that day as may be mentioned in the notification.

123. Where immediately before the appointed day the Union or an existing State is a party to any legal proceedings with respect to any property, rights or liabilities subject to apportionment under this Act the successor State which succeeds to, or acquires a share in, that property or those rights or liabilities shall be deemed to be substituted for the Union or the existing State as a party to those proceedings, or added as a party thereto, as the case may be, and the proceedings may continue accordingly.

124. Any person who immediately before the appointed day, is enrolled as a pleader entitled to practise in any subordinate courts in an existing State which is affected by the territorial provisions of this Act shall, for a period of six months from that day, continue to be entitled to practise in those courts, notwithstanding that the whole or any part of the territories within the jurisdiction of those courts has been transferred to another State.

125. (1) Every proceeding pending before a court (other than a High Court), tribunal, authority or officer—

in any area which falls within a State shall, if it is a proceeding relating exclusively to any part of the territories which as from that day are the territories of another State, stand transferred to the corresponding court, tribunal, authority or officer in the other State.

(2) If any question arises as to whether any proceeding should stand transferred under subsection (1), it shall be referred for the decision of the High Court having jurisdiction in respect of the area and the decision of the High Court shall be final.

126. (1) All ancient and historical monuments in Part C States which, before the 1st April 1956, have either been declared by the Central Government to be protected monuments or which have been taken possession of by the Central Government as protected monuments are hereby declared to be ancient and historical monuments of national importance.

(2) All archaeological sites and remains in Part C States which, before the 1st April 1956, have either been declared by the Central Government to be protected areas or which have been taken possession of by the Central Government as protected areas are hereby declared to be archaeological sites and remains of national importance.

127. The provisions of this Act, shall have effect notwithstanding anything inconsistent therewith contained in any other law.

128. If any difficulty arises in giving effect to the provisions of this Act, the President may do anything not inconsistent with such provisions which appear to him to be necessary or expedient for the purpose of removing the difficulty.

129. (1) The Central Government may, by notification in the Official Gazette, make rules to give effect to the provisions of this Act.

(2) All rules made under this section shall be laid before both Houses of Parliament as soon as may be after they are made.

130. (1) The Government of Part C States Act, 1951, is repealed with effect from the appointed day.

(2) The said repeal shall not affect any laws made by the Legislature of a Part C State by virtue of any power conferred on that Legislature by the Act so repealed, and all such laws in force immediately before the appointed day shall continue in force, subject to such adaptations and modifications as may be made therein until altered, repealed or amended by a competent Legislature or other competent authority.

SCHEDULES

The First Schedule shows in which new State certain constituencies of the Bombay, Hyderabad, Madhya Bharat and Madras Legislative Assemblies will be placed.

The following constituencies will be in Bombay. The name of the State in which the constituency lay before the appointed day is shown in brackets:

Palanpur-Abu-Vadagam-Danta (Bombay); Chandgad (Bombay); Halsur (Hyderabad); Udgir (Hyderabad); Degiur (Hyderabad); Kinwat (Hyderabad).

The following constituencies will be in Andhra Pradesh:

Kodangal (Hyderabad); Zahirabad (Hyderabad); Mudhol (Hyderabad).

The following constituencies will be in Mysore:

Tandur-Seram (Hyderabad); Bidar (Hyderabad), Panemangalore (Madras).

The following constituency will be in Madhya Pradesh:

Bhanpura (Madhya Bharat).

The Second Schedule shows the modifications made in the delimitation order relating to the Madras Legislative Council (order 1951) constituencies.

The Third Schedule shows the number of seats fixed for each of the State Legislative Assemblies and the number of seats assigned to each State and Union territory in the Lok Sabha (see the article on the Government of India in this book for the number so fixed or assigned).

The First Part of the Fourth Schedule modifies Section 3 of the Union Duties of Excise (Distribution) Act, 1953 and shows how a part of the Union duties of excise are to be distributed among the States during the first half of the financial year commencing 1st April 1956. The figures are in percentages:

Andhra 5·92, Assam 2·61, Bihar 11·60, Bombay 10·37, Hyderabad 5·39, Madhya Bharat 2·29, Madhya Pradesh 6·13, Madras 10·30, Mysore 2·84, Orissa 4·22, PEPSU 1·00, Punjab 3·66, Rajasthan 4·41, Saurashtra 1·19, Travancore-Cochin 2·68, Uttar Pradesh 18·23, West Bengal 7·16.

During the second half the payments will be as follows, again in percentage, and extra payments, if any to four of the States as follows:

Andhra Pradesh 9·03, Assam 2·61, Bihar 11·60, Bombay 12.57 + 1·19, Kerala 1·49 + 2·42, Madhya Pradesh 6·25, Madras 8·39 + 0·26, Mysore 2·90 + 2·62, Orissa 4·22, Punjab 4·66, Rajasthan 4·40, Uttar Pradesh 18·23, West Bengal 7·16.

The first half of the year will be deemed the first seven months, and the second half the remaining five months of the financial year.

The Second Part of the Fourth Schedule modifies paras. 3 and 5 of the Constitution (Distribution of Revenue) Order 1953.

The proceeds of income-tax attributable to Part C States for the first half of the financial year 1956-57 shall be taken as 2½ per cent of so much of the net proceeds of taxes on income for the half year as does not represent the net proceeds of taxes payable in respect of Union emoluments; and the proceeds attributable to Union territory for the second half of the financial year as one per cent.

The percentage of net proceeds of income tax, except in so far as these represent proceeds attributable to Part C States or taxes payable in respect of Union emoluments, which is to be assigned to Parts A and B States except Kashmir for the first half of the financial year 1956-57 shall be 55 per cent. And this total amount shall be distributed among the States as follows, figures in percentages:

Andhra 5·49, Assam 2·25, Bihar 9·75, Bombay 17·50, Hyderabad 4·50, Madhya Bharat 1·75, Madhya Pradesh 5·25, Madras 9·56, Mysore 2·45, Orissa 3·50, PEPSU 0·75, Punjab 3·25, Rajasthan 3·50, Saurashtra 1·00, Travancore-Cochin 2·50, U.P. 15·75, West Bengal 11·25.

And for the second half of the financial year 1956-57 the total amount represented by 55 per cent (with the same sort of qualifications as above) will be assigned as follows, the figures in percentages:

Andhra Pradesh, 8·09, Assam 2·25, Bihar 9·75, Bombay 18·10 + 1·00, Kerala 1·38 + 2·26, Madhya Pradesh 5·40, Madras 7·79 + 0·24, Mysore 3·74 + 2·25, Orissa 3·50, Punjab 4·00, Rajasthan 3·51, Uttar Pradesh 15·75, West Bengal 11·25.

The first half shall be deemed to be the first seven months and the second half the remaining five months.

Grants-in-aid of the revenues of each State for the first half of the financial year 1956-57 (seven months constituting the first half and five months the second) for general purposes shall be as follows. The figures are in Rs. lakhs.

Assam 58·33, Mysore 23·33, Orissa 43·75, Punjab 72·92, Saurashtra 23·33, Travancore-Cochin 26·25, West Bengal 46·67.

For expansion of primary education the grant for the first half of the financial year (seven months) shall be as follows: the figures are in Rs. lakhs

Bihar 48·42, Hyderabad 23·33, Madhya Bharat 10·5, Madhya Pradesh 29·17, Orissa 18·67, PEPSU 5·25, Punjab 16·33, Rajasthan 23·33.

Grants-in-aid in the second half (five months) for general purposes shall be as follows. The figures are in Rs. lakhs:

Assam 41·67, Mysore 16·67, Orissa 31·25, Punjab 52·08, Bombay 16·67, Kerala 16·93, Madras 1·82, West Bengal 33·33.

For the expansion of primary education the grant for the second half of the financial year (five months) shall be as follows. The figures are in Rs. lakhs.

Bihar 34·58, Andhra 9·62, Mysore 2·41, Bombay 12·10, Madhya Pradesh 20·08, Orissa 13·33, Punjab 15·42, Rajasthan 16·56.

There shall also be charged on the Consolidated Fund of India:

In the first seven months of the financial year as grant-in-aid to Mysore the sum by which the total amounts payable under the Union excise and revenue fall short of Rs. 201·25 lakhs, to Saurashtra the sum by which the total amounts fall short of Rs. 160·42 lakhs, to Travancore-Cochin the sum by which the total amounts fall short of Rs. 163·33 lakhs.

In the remaining five months of the financial year as grant-in-aid to Mysore the sum by which the total amounts payable as additional percentage fall short of Rs. 143·75 lakhs, to Bombay the sum by which the total amounts fall short of Rs. 114·58 lakhs, to Kerala the sum by which the total amounts fall short of Rs. 105·38 lakhs, and to Madras the sum by which the total amounts fall short of Rs. 11·29 lakhs.

These sums will be in addition to sums payable under the provisos to clause 1 of Article 275 of the Constitution.

The Fifth Schedule is about pensions.

Existing pensions shall be paid by the successor State or successor States. Pensions of those whose claims are outstanding immediately before November 1, 1956 shall be paid by the successor State; if there is more than one successor State by such one of them as the Central Government may specify.

Where there are two or more successor States, there shall be computed in respect of the period commencing from Nov. 1, 1956 and ending March 31, 1957 and for each subsequent financial year the total payments made in all the successor States in respect to pensions mentioned above. This total shall be apportioned between the successor States in the population ratio, and a State paying more shall be reimbursed by a State paying less.

Provision is also made about the payment of pension to officers who retire after service to more than one successor State.

The Sixth Schedule gives a list of the type of institutions about which the Central Government can issue directions. The directions will be to the effect that the State in which such an institution is situated should provide facilities to the Government or people of one or more adjoining States on condition that may be agreed upon by 31st March 1957 or in the absence of an agreement as may be fixed by the Central Government:

Engineering colleges and schools of technology; medical colleges; veterinary colleges; Government hospitals providing for special treatment such as tuberculosis hospitals or sanatoria, cancer hospitals, mental hospitals, leprosy hospitals or sanatoria, or hospitals providing for unani or ayurvedic treatment; research institutions such as irrigation research institutes, Government analysts' departments and serum institutes; central jails; Borstal schools and Certified schools; police training colleges and institutes; fire service training schools; hostels for Scheduled Castes, Tribes and Backward classes.

Photo Registry offices; Central Records offices; Forest Schools; Finger print bureaux.

Agricultural Colleges.

Radium institutes.

Reformatory Schools.

BIHAR AND WEST BENGAL (TRANSFER OF TERRITORIES) ACT, 1956

Below we give a summary of some of the more important provisions of the Act which received the President's assent on 1st Sept., 1956. The Act came into force on 1st Nov., 1956. The numbers of the provisions have been retained.

3. (1) As from the appointed day, there shall be added to the State of West Bengal the territories which on the 1st day of March, 1956, were comprised in:-

(*a*) that portion of Kishanganj sub-division of Purnea district which lies to the east of the boundary line demarcated in accordance with the provisions of sub-section (2) by an authority appointed in this behalf by the Central Government, and that portion of Gopalpur thana of the said district which lies to the east or north, as the case may be, of the said boundary line; and

(*b*) Purulia sub-division of Manbhum district, excluding Chas thana, Chandil thana and Patamda police station of Barabhum thana,

(2) The boundary line referred to in sub-section (1) shall be so demarcated as to be generally two hundred yards to the west of the highway in Purnea district connecting Dalkola, Kishanganj and Chopra with Siliguri in Darjeeling district and two hundred yards to the south or south-west of the highway in Purnea district connecting Dalkola and Karandighi with Raiganj in West Dinajpur district:

Provided that the boundary line shall be so demarcated as not to cut across any village or town:

Provided further that from the point where the first-mentioned highway meets the southern boundary of Kishanganj municipality to the point where it leaves the northern boundary of that municipality, the boundary line shall be the same as the boundary of that municipality on the east.

(3) The territory specified in clause (*a*) of sub-section (1) shall be included in, and form part of, Darjeeling district, and the territory specified in clause (*b*) of that sub-section shall form a separate district to be known as Purulia district within Burdwan division of the State of West Bengal.

(4) Nothing in sub-section (3) shall be deemed to affect the power of the State Government to alter after the appointed day the name, extent and boundaries of any district or division in the State of West Bengal.

5. As from the appointed day, in the Fourth Schedule to the Constitution, in the Table of Seats, for the entries in the second column relating to Bihar and West Bengal, the entries "22" and "16" shall, respectively, be substituted.

6. As soon as may be after the appointed day, bye-elections shall be held to fill the vacancies existing on that day in the seats allotted to Bihar and West Bengal

7. In order that, as nearly as may be, one-third of the members of the Council of States may retire on the 2nd day of April, 1958, and on the expiration of every second year thereafter, the President shall, after consultation with the Election Commission, make by order such provisions as he thinks fit in regard to the terms of office of the members elected under section 6.

8. Nothing in section 3 shall be deemed to affect the extent of the constituency of any sitting member of the existing House of the People from Bihar.

9. The sitting members of the Legislative Assembly of Bihar representing the Thakurganj Karandighi, Para-cum-Ias and Barabazar-cum-Chatahl constituencies shall notwithstanding the reduction in the extent of those constituencies by the transfer of portions thereof to West Bengal, continue to be members of the Legislative Assembly of Bihar; and the sitting members of that Assembly representing any other constituency lying wholly or partly in the transferred territories shall, as from the appointed day, be deemed to have been elected to the Legislative Assembly of West Bengal and cease to be members of the Legislative Assembly of Bihar.

10. The changes in the composition of the Legislative Assemblies of Bihar and West Bengal under section 9 shall not affect their duration as provided in clause (1) of article 172.

11. (2) Every sitting member of the Legislative Council of Bihar representing a council constituency the extent of which is altered by virtue of sub-section (1) shall, as from the appointed day, be deemed to have been elected to the said Council by that constituency as so altered.

12. (2) In the Table appended to the said Order, in the entry in the second column, against West Bengal West (Graduates) Constituency, after the word "Bankura", the word "Purulia" shall be inserted.

(3) Every sitting member of the Legislative Council of West Bengal representing a council constituency the extent of which is altered by virtue of sub-section (1) or sub-section (2) shall, as from the appointed day, be deemed to have been elected to the said Council by that constituency as so altered.

13. The number of seats in the House of the People allotted to Bihar and to West Bengal and the number of seats assigned to the Legislative Assembly of each of those States shall be modified as follows:—

In the House of the People Bihar will have 53 seats and West Bengal 36.

The strength of the Bihar Legislative Assembly will be 318, and of the West Bengal Assembly 252.

14. As soon as may be after the commencement of this Act, the President may, by notified order, make such modifications in the Constitution (Scheduled Castes) Order, 1950, and the Constitution (Scheduled Tribes) Order, 1950, as he thinks fit, having regard the transfer of territories effected by section 3.

15. (1) After the said Orders have been so modified, the population as at the last census of the scheduled castes and of the scheduled tribes in Bihar and West Bengal shall be ascertained or estimated by the census authority.

(2) The population figures so notified shall be taken to be the relevant population figures as ascertained at the last census and shall supersede any figures previously published.

16 (1) As soon as may be after the commencement of this Act, the Central Government shall appoint an authority

(*a*) to determine on the basis of the population figures notified under section 15 the number of seats to be reserved for the scheduled castes and the scheduled tribes of Bihar and of West Bengal in the House of the People and in the Legislative Assembly of each of those States;

(*b*) to revise to such extent as may be necessary or expedient, having regard to the said provisions, the orders of the Delimination Commission made under section 8 of the Delimitation Commission Act, 1952, with respect to Bihar and West Bengal.

The rest of the provisions are on the same basis as the provisions of the States Reorganization Act.

ANDHRA-MADRAS BORDER

Besides the States Reorganization Act and the Bihar and West Bengal (Transfer of Territories) Act, the report of Mr Hari Vinayak Pataskar would also affect the boundaries of two States, viz., Madras and Andhra.

This report which recommended the transfer of certain areas in Madras and Andhra has been accepted by both the Governments. Details are being worked out and would later have to be finalized by legal measures.

Three Districts are affected: Chingleput District and Salem District in Madras and Chittoor District in Andhra

Broadly speaking, the Report makes the following recommendations:

Transfer of the northern portions of Ponneri and Tiruvellore talukas, in Chingleput district, and three villages in Krishnagiri taluka, in Salem district, to Andhra Pradesh and almost the entire taluka of Tiruttani, including the Tiruttani town and one village in Puttur taluka in Chittoor district, to Madras.

In terms of area, Madras will receive about 310 square miles of territory while surrendering about 360 square miles to Andhra Pradesh. While the temple town of Tiruttani will be a prize acquisition for Madras, the Aranlyar Project headworks will now go to Andhra Pradesh.

ANDAMAN AND NICOBAR ISLANDS

Capital : Port Blair.
Area : 3,215 sq. miles. Pop. 39,000 (1956).

The Andamans are a group of islands of various sizes large and small lying in the Bay of Bengal about 780 and 740 miles from Calcutta and Madras respectively. The main part of the group is composed of five large islands, viz., North Andamans, Middle Andamans, South Andamans, Baratang and Rutland Islands generally known as the Great Andamans. Included in the Great Andaman group are also 204 islets, stretching from Landfall Island in the north about 560 miles from the Hooghly mouth to the Little Andaman in the south To the south of the Great Andamans is the island of Little Andaman. The extreme length of the Great Andaman Islands is 290 miles and the extreme breadth 32 miles, the total land area being approximately 2,580 sq. miles. These Islands have several very good harbours—Port Blair, Port Cornwallis, Mayabander and Elphinstone Harbour. The headquarters are at Port Blair.

The Nicobar Islands numbering 19 from Car Nicobar in the north to Great Nicobar in the south intervene between Little Andaman and Sumatra. The southern Island of Great Nicobar is about 100 miles from Pulo Brasse of Achin Head in Sumatra and the northern island of Car Nicobar 75 miles from Little Andaman. The extreme length of the seaspace occupied by the Nicobars is 163 miles and the extreme width is 36 miles. The islands forming Andamans mostly consist of a mass of hills enclosing narrow valleys covered by dense tropical forests. The islands in the Nicobar group are partly hilly and partly flat.

POPULATION

The 1956 population of the Andaman and Nicobar Islands is about 39,000 of which about 27,000 live in the Andamans and 12,000 in Nicobars The population consists of (i) Andaman Indians including settlers 26,000 ; (ii) Aborigines 1,000 consisting of Onges 600, Andamanese 23 and Jarawas and Sentinelese 377 roughly ; (iii) Nicobarese 11,900 ; (iv) Shom-Pens of Great Nicobar 100.

Some of the islands are not populated at all, some only sparsely while Car Nicobar is densely populated

The original inhabitants of the Andaman group of islands are of a small Negrito type who live in the forests by hunting and fishing. They have no fixed habitation, and do no cultivation. Their civilization is about that of the Stone Age. Their numbers are not known as they prefer to avoid all contact with civilization.

The climate of the islands can be generally described as tropical, warm but tempered by pleasant sea breezes. The islands are exposed to both monsoons with north-easterly gale from November to January and south-westerly gale from May to October. The weather is smooth only from February to April and to some extent in October. The average rainfall is 125 inches The maximum temperature varies between 85 and 92 degrees throughout the year. The scenery of the islands is everywhere strikingly beautiful.

HISTORY

Very little is known about these islands earlier than the year 1789 when the first attempt to colonise these islands was made by Captain Archibald Blair, R.N. The first settlement was established in 1789 in the South Andaman at an island now called Chatham and given the name of Port Cornwallis, which in course of time changed to Port Blair after the name of its founder Archibald Blair. The settlers were engaged in clearing and cultivating the island, the greater portion of which was by August 1790, planted with vegetables and fruit trees. The settlement continued free from sickness. For strategic reasons the settlement was moved to north islands (North Andaman) in 1792 and the new settlement also given the name of Port Cornwallis. A number of new settlers were sent from the mainland. The situation in Port Cornwallis proved highly unfavourable and dangerous to the health of the settlers and the settlement was ultimately abandoned in 1796. The present colony was actually opened in the year 1858 for the accommodation of a large number of prisoners following the uprising in India used to be called the "Great Mutiny".

From 1858 to 1942 the islands were used by the Government of India as a penal settlement for convicts serving life sentences and long terms.

The Islands were occupied by the Japanese in March 1942 and re-occupied by the Government of India in October 1945.

With the re-occupation of these islands the penal settlement was abolished.

202 families of displaced persons from East Pakistan were settled in the South Andamans during 1949 under a pilot scheme sanctioned by the Government of India, Ministry of Rehabilitation Measures were taken for the expansion of education in the rural areas of South Andaman and in Car Nicobar.

When India became a Republic in January 1950, these islands were given the status of part 'D' Territory under the direct administration of the President A new A.C. Power Station was established at Port Blair A Junior Division of the National Cadet Corps was raised Social work and cultural activities were organised A plan for large-scale colonisation of these Islands was approved by the Government of India in 1952. The judicial administration of the islands was placed under the jurisdiction of the Calcutta High Court. A State Transport Service was constituted and a road scheme was approved. A Motor vessel equipped as a travelling dispensary was acquired from the Australian Government under the Colombo Plan for rendering medical aid to the people of the distant Islands who had been neglected in the past.

There is no zamindari in the Islands.

AGRICULTURE, INDUSTRY

In the year 1955-56, 33,38[illegible] tons of timber and 43207 bags of match splints were shipped to India and foreign countries and the revenue from the sale of timber amounted to Rs 90,31,606 Coconut and rubber are other sources of income

There is a Government saw mill at Port Blair and a match factory.

There are 40 co-operative societies.

The islands are slowly being made self-sufficient in paddy and rice and now grow approximately half their annual requirements. No proper survey of the mineral resources of these Islands has yet been undertaken.

Coconuts are next to timber the most important among the produce of the islands and a major item in the diet of the Nicobarese. Exports which go to Calcutta and Madras generally are in the form of nuts and copra.

There is plenty of scope for fruit growing. Such fruit as papaya, pineapple, Citrus, Bananas, mangoes, etc. can be easily grown.

Some of the species of wood found in the forest regions are Padauk, Andaman Redwood and Gurjan Gurjan is in great demand for the manufacture of plywood. Large quantities of soft wood are supplied to match factories.

There is one high school, 2 middle schools, 28 primary schools, 5 primary-cum-basic schools. The number of students is 2,612.

There is a well-equipped hospital at the headquarters with a separate branch for women and children. There are smaller hospitals and dispensaries at the outlying places. The incidence of malaria is moderate in areas under control and in other areas the disease is kept in check with regular administration of paludrine. Plague, cholera and small-pox are unknown.

The present activities of the forest Department comprise regeneration and other silvicultural work over large areas in all the three forest divisions, departmental exploitation and milling and sale of timber from the South and Middle Andamans Division and a considerable volume of work pertaining to the Colonisation Scheme.

A dry dock was completed and opened on 20th March 1956. This dock is capable of handling small ships up to 12 ft. draft in favourable tide conditions.

A Government bus service was started from 5th April 1956 with a fleet of five buses on four different routes within South Andamans.

A private company has started air service between Calcutta and Port Blair from the 23rd of April 1957.

A Motor Vessel Indaus is fitted as a floating hospital under the Colombo Plan. With a view to developing inter-island communication s.s. 'Cholunga' a 390-ton cargo-cum-passenger ship has been put into service.

Comprehensive schemes have been drawn up for effective control of diseases like Malaria, Filaria and V.D. Malaria and Filaria Survey and Control Unit under the national health scheme has been set up and is operating in Car Nicobar.

ABORIGINAL TRIBES

The aborigines of the Andamans are the remnant of a Negrito race supposed to have been the earliest people to inhabit the continent of South Eastern Asia. The Andamanese are of two types of which the first type is almost extinct now as a result of its contact with civilisation The other type the Jarawas and Sentinelese are still hostile and the administration is trying to win them over by giving them gifts

The Government of India have sanctioned a sum of Rs one lakh for the amelioration of aboriginal tribes in the Andaman and Nicobar Islands under the Second Five-Year Plan

THE SECOND FIVE-YEAR PLAN

The Plan involves an outlay of Rs 6 crores. Of this about 30 per cent will be spent on colonization and refugee rehabilitation Two thousand acres of unproductive forests will be cleared and brought under coconut plantation. The production of timber is to be raised to 75,000 tons per annum by the end of the plan period Two veterinary hospitals and two veterinary outposts will be constructed 100 miles of new roads will be constructed

Some of the important changes envisaged as a result of the implementation of the recommendations of the Andaman Education Committee are : Four new Basic Primary Schools are to be set up in the headquarters area New Basic Schools will be opened in rural areas A Senior Basic School for girls will be opened in Port Blair. Social education will be introduced A School for the Training of Teachers in Junior Basic Education will be set up at Port Blair The expansion of educational facilities in tribal areas is to be speeded up.

New modern hospitals will be constructed at Port Blair and Car Nicobar. Four Maternity and Child Welfare Centres at Mayabunder, Rangat, Wimberleygunj and Car Nicobar, will be opened. Schemes have been included for the expansion and development of co-operative societies. A branch of the State Bank of India has been opened at Port Blair. The annual volume of business is of the order of Rs. 80 lakhs for exports and Rs. 55 lakhs for imports. The Bank has also taken over the Government Treasury business.

ADMINISTRATION

The Andaman Islands are administered by the President acting through a Chief Commissioner and an Advisory Council of 5 Members. The seat of administration is at Port Blair, which is connected with Calcutta and Madras by a mail steamer which calls approximately once every 8 weeks at Port Blair. The Islands are connected to India by wireless telegraphy. An Assistant Commissioner is stationed at Car Nicobar and another at North Andamans.

The budget estimates for 1956-57 were Revenue Rs. 1,26,43,000, expenditure Rs. 3,38,56,000.

Chief Commissioner, T.G.N. Ayyar, I.C.S

Advisory Council, Lachman Singh, M.P., Durga Prasad, Swarup Ram, Profulla Garami, Saw Lu Ku.

ANDHRA PRADESH

(*See Index for page number*)

ASSAM STATE

Area: 85,012 sq. miles (including N.E.F.A. and the Naga Administrative Unit); Assam: 45,767 sq. miles; N.E.F.A.: 32,969 sq. miles; Naga Unit: 6,276 sq. miles.

Population (1951 census): 8,837,757 (including some parts of N.E.F.A.). Excluding N.E.F.A. and Naga Unit: 8,772,874.

Capital: Shillong.

The 1951 census which yielded the latest population figures covered only a small portion of N.E.F.A. The total population of N.E.F.A. is very roughly estimated at 650,000.

Of the total population (census) males number 4,812,166, females 4,231,541, urban 414,418, rural 8,020,289. The rural population is subdivided into Agricultural at 6,606,216, Non-Agricultural 2,023,073.

Population according to religion: Hindus 5,891,738; Muslims 1,996,456; Christians 585,399; Buddhists 22,675; Jains 4,245; Sikhs 4,107; Jews 209; Other religions: Tribal 527,712; Non-Tribal 8 144; Zoroastrians 27.

Number of Scheduled Castes: 424,044; Scheduled Tribes: 1,735,245

Density of population per sq. mile: 179·4. No reliable figures on birth rate, death rate or infant mortality in the State can be found.

More than one half of the area of Assam State is covered by hills. Plains: 23,033 sq. miles; Hills: 27,010 sq. miles (excluding N.E.F.A.) The hill areas are sparsely populated and inhabited by the hill tribes. Plains: 7,805,558; Hills: 1,238,149 (including some parts of N.E.F.A., covered by 1951 census).

Names of Districts with headquarters in brackets: Goalpara (Dhubri); Kamrup (Gauhati); Darrang (Tezpur); Nowgong (Nowgong); Sibsagar (Jorhat); Lakhimpur (Dibrugarh); Cachar (Silchar); Garo Hills (Tura); United Khasi-Jaintia Hills (Shillong) which is also the capital of the state, United North Cachar and Mikir Hills (Diphu); Mizo previously called Lushai Hills (Aijal).

The hill districts have been given, under the Constitution of India, a large measure of self-governing rights according to their respective tribal traditions and customs, exercised through Autonomous District Councils under the supervision of the Government of Assam.

For purposes of Autonomous District Councils, United North Cachar and Mikir Hills are two Districts: North Cachar Hills (Haflong); Mikir Hills (Diphu)

Number of Circles: In Assam Tahsils are termed as Circles: 50.

Number of Local Boards (District Boards): 15

Number of Municipalities: 17.

Number of Town Committees: 13.

Number of Cantonments: 1.

Number of Panchayats: (at the end of March 1957); Rural 429; Primary 2,375.

Number of villages: 25,327.

There is no city in Assam. Names of towns with a population of over 50,000 (according to 1951 Census): Shillong: 53,756 (excluding Cantonment area comprising a population of 4,746).

Forty per cent of the population are recorded as speaking Assamese and about 24 per cent Bengali. Other languages spoken in the State are Hindi, Oriya, Mundari, Nepali and a great variety of languages and dialects, classified under the general heading Tibeto-Burman languages.

Number of people speaking the main languages (1951 census): Assamese: 4,972,493; Bengali: 1,719,155; Hindi: 835,688.

GEOGRAPHY

Assam has three distinct natural divisions: Brahmaputra or Assam Valley, Surma or Barak Valley and the hills.

The river basins are naturally fertile and present in the main few difficulties to the cultivator. Rainfall being high the problem in general is to dispose of the surplus water and to control the action of floods rather than irrigation in the usual sense.

Rice is the staple food crop. Tea and jute are the most important crops grown for export. Besides, potatoes are also cultivated in Assam. A good deal of short staple cotton and fruits like oranges and pineapples are grown in the hills

Rainfall is everywhere abundant, and ranges from 50 to 258 inches a year leaving aside the highest recorded rainfall in this part of India with the maximum reached at Cherrapunji in the Khasi Hills 32 miles south of Shillong (905 inches in 1861: record precipitation for one day is 41 inches) This is reputed to be the wettest place in the world. Temperatures are moderate.

Earthquakes of considerable severity have taken place. By far the worst in recent times was that which occurred on August 15, 1950, one of the world's five biggest recorded tremors. According to old records the Assam earthquake of 1897 is regarded as the severest in human history.

COTTAGE INDUSTRIES

Main cottage industries: Sericulture and Weaving Principal areas for Sericulture: Sibsagar, Kamrup, Nowgong and Lakhimpur Districts.

Handloom weaving is done in most of the families in Assam. Number of fly and throw-shuttle looms in the State: Nearly 500,000 There are professional weavers in Cachar District and Sualkuchi area in Kamrup District. 1956-57:

Value of total production: Rs. 5,00,00,000.

Value of production of individual industries: Weaving products (Rs. 4,17,80,000); Muga raw silk (Rs. 48,00,000); Mulberry raw silk (Rs. 8,70,000); Open Eri Cocoon (Rs. 25,50,000).

Production of individual industries: Cloth—4,00,00,000 yards; Mulberry raw silk—29,000 lb; Muga raw silk—1,60,000 lb.; Open Eri Cocoon -5,10,000 lb.

Total number of workers in Cottage Industries 20,00,000.

Number of workers in individual industries: Weaving (1,280,000); Sericulture (720,000). Almost all these workers are part-time.

Budget grant for the year 1956-57: Rs. 52,33,200.

AGRICULTURE

Latest available:

Main food crops of the State: Rice, Rape, Mustard, Sugar-cane, Potato, Pulses Maize and Oranges.

Main cash crops of the State: Tea, Jute, Cotton and Tobacco.

Production of food crops in tons (Figures are for 1955-56): Autumn Rice: 370,940 tons, Winter Rice: 1,280,469 tons; Spring Rice 6,037 tons; Rape and Mustard: 52,362 tons; Sugar-cane: 66,237 tons (in terms of gur); Winter Potato: 104,124 tons; Summer Potato: 35,457 tons; Sweet Potato: 19,530 tons; Pulses, Rabi: 26,694 tons; Tur (Arhar): 1,744 tons; Maize: 8,224 tons; Gram Pulse: 1,205 tons; Wheat: 870 tons; Other cereals and small millets: 2,380 tons.

Production of individual cash crops in tons: Tea: 335,524 301 lb. (Black Tea 332 824,621 and Green Tea: 2,699 680 lb.); Jute: 1,093 808 bales (one bale—400 lb.); Cotton: 8,652 bales (1 bale 392 lb); Tobacco: 7,508 tons, Mesta: 10,235 bales.

Total geographical area of the State including areas now transferred to and forming part of the North-East Frontier Agency: 35,764,120 acres.

Area cultivated: 6,298,064 acres.

Area sown more than once: 924,153 acres.

Area under food crops: 4,987,238 acres.

Area under cash crops: (Tea, jute, cotton, tobacco and mesta): 784,334 acres

Area under individual food crops Autumn rice (Ahu)—1,037.590 acres, Winter rice (Sali and Bao) -3,259,141 acres; Spring rice (Boro) -11,270 acres; Rape and Mustard—287,539 acres; Sugar-cane—63,787 acres; Winter Potato: 53,298 acres; Summer Potato: 18,785 acres; Sweet Potato: 13,916 acres; Pulses, Rabi: 170,841 acres; Tur (Arhar) 6,173 acres; Maize: 41,956 acres; Gram Pulse: 6,621 acres; Wheat: 4,317 acres; Other cereals and small millets: 12,174 acres.

Area under individual cash crops Tea—385 920 acres. Jute -333,229 acres; Cotton—36 083 acres, Tobacco 23,872 acres: Mesta 5,230 acres.

The cultivation of oranges, which is a principal crop, is mainly confined to the Khasi-Jaintia Hills which are a non-cadastrally surveyed area. Hence no data available.

Jhum Cultivation: Prevails in the hill districts of Assam. Trees and shrubs on hill slopes selected every year are cut down and burnt and then crops grown on the bald patches. The area is then abandoned for a number of years so that trees may grow again and fertility recouped.

Under this system a particular group of people jointly occupy a particular area. They have no individual right over the land. In lieu of land revenue they pay a tax known as House Tax, Hoe Tax or Dao Tax which generally varies from Rs. 2 to Rs. 3 per family.

Research and Training Centres. Assam Agricultural College, Jorhat Extension Training Centres and Basic Agricultural Schools at Barbheta (Jorhat), and at Upper Shillong Agricultural Research Station and Farm at Barbheta where the laboratories of the Agricultural Chemist, Mycologist, Entomologist, Economic Botanist and Sugar-cane Specialist are located; Experimental Farm at Upper Shillong, Fruit Garden in Shillong Paddy Research Stations at Karimganj Titabar, Raha and Upper Shillong, Citrus Research Station at Tura and Burnihat, Ginger Research Station at Naya Bungalow.

Veterinary: Total number of cattle: 5,145,376 (Cows 4,735 500 Buffaloes 475,231), Horses and Ponies- 15,590, Sheep—32,604, Goats -917,239, Other livestock--291,920 and Fowls—5,050,724. (1951 livestock census).

Research Institutes: *a*) Bovine Contagious Pleuro Pneumonia Scheme (Research Institute, Gauhati); *b*) Cattle Nutritious Scheme (Research Institute, Khanapara, Gauhati).

PLANTATIONS

Latest available

1955-56:

Plantation in the State: Tea.

Area under Plantation: 1,399,483 acres.

Number of Plantations (tea): 968.

Area under Tea: 385,920 acres.

Produce from plantation: Tea: 335,524,301 lbs. (Black tea—332,824,621 lbs.; Green tea—2,699,680 lbs.).

Average daily number of workers:

a) **Permanent garden labour: 445,176.**

b) **Permanent outside labour: 30,148.**

c) **Temporary outside labour: 41,878.**

Fisheries: ***Variety of fish produced:*** **Rahu, Katla, Mrigal, Mail, etc.**

1956-57:

Number of fish farms 9 (under Government control).

Fish seed collecting centres 14.

FORESTS

Main types of Forest with some species of trees of economic importance occurring in them:

Evergreen forests, mixed deciduous forests, deciduous and dry deciduous forests, riverain forests, Savannah forests, swamp forests, bamboos and temperate forests.

A large area under forests falls in the hill districts which are sparsely populated and covered with vegetation.

Assam possesses one of the richest fauna in Asia and it is claimed that outside Africa, there is no part in the world with so many varieties of animals, birds, reptiles and insects. Rhinoceroses, elephants, wild buffaloes, bisons (called 'Mithuns' by most of the hill tribes and the N.E.F.A.), swamp deer, Sambhar, spotted deer, barking deer, tiger, leopards, black panther, King Cobra, pink-headed duck and Giant Hornbill are some of the well-known specimens of wild life.

Four sanctuaries and two game reserves with a total area of about 500 sq. miles, are maintained by the Government Forest Department for the protection of the interesting and in some cases the numerically dwindling species. Kaziranga and Manas are the two most famous sanctuaries, both nearly the same size, 166 and 162 sq. miles respectively. Kaziranga, in the heart of Assam and situated on the South Trunk Road, is easily accessible and affords every facility to the visitor to see the famous one-horned rhinoceros from elephant back at close range. The sanctuary at Manas at the foot of Bhutan Hills is the more attractive from the scenic point of view.

1956-57 (unless otherwise mentioned):

Total forest area in State: 16,907 sq. miles.

Reserve forests: 6,373 sq. miles; Protected forests: 110 sq. miles; Unclassed State forests: 10,424 sq. miles.

Total area of private forests (1955-56): 975 sq. miles inclusive of Corporation Forests.

Total revenue from forests and total expenditure:

Revenue	Rs. 97,85,254.
Expenditure	Rs. 72,29,699.

Main Forest produce with the quantity and value of each variety in brackets (1955-56):

Timber (7,123,000 cft., Rs. 63,70,440); Firewood (7,878,000 cft., Rs. 1,15,238); Bamboos (6,953,984 Nos., Rs. 1,93,121) Elephants 33 Nos., Rs. 1,24,498); Cane (9,511,875 Rft. and 16,03,475 bundles, Rs. 2 34 305); Lac (547 mds. 24 seers, Rs. 3,457); Elephant Tusks (1 md. 30 seers, Rs. 745); Rhino horns (6 pieces; Rs. 7,690) (1954-55); Thatch (405,704 Nos. and bundles, and leases, Rs. 1,35,159); Fishery (Leases, Rs. 1,554); Stone (2,107,847 cft.; Rs. 85,404); Sand (8,134,624 cft., Rs. 3,09,510); Drugs (1954-55) (Rs. 95,565); Spices (1954-55) (Rs. 450); Incense and Perfumes (1954-55) (Rs. 9.374); Fibres and Fleeces (1952-53) (Rs. 346).

Afforestation undertaken (1956-57):

Artificial regeneration ..	51,147 acres.
Natural regeneration ..	25,330 acres.
Total	76,477 acres.

Expenditure—Rs. 8,01,076.

Grazing allowed: Cows and bullocks: 49,070 Nos.; Buffaloes: 23,124 Nos.; Sheep and Goats: 2,897 Nos.; Other livestock: 560.

Vanamahotsava:

Number of trees planted:

Edible fruits:	65,218
Others:	25,730
Total:	90,948

Number of trees survived:

Edible fruits:	44,723
Others:	14,966
Total:	59,686

Percentage of survivals to planted: 65.

LAND TENURE SYSTEM

There are two classes of land tenure system in the State—the permanently settled estates and the temporarily settled estates.

Permanently settled estates: **These are found in Goalpara District and Karimganj Subdivision of the Cachar District. The land is held by zamindars having intermediaries under them. The actual tillers of the land are the tenants who hold land either directly under the zamindars or intermediaries. The tenants also pay a fixed amount of rent.**

In common with other States having the permanent settlement system, Assam Government has passed laws to end zamindary rights. An area of 15,18,982 acres has already been acquired by Government out of the total permanently settled area of 1,702,055 acres. The rights of intermediaries between tillers and Zamindars that is, of tenure holders and jotdars, are now being abolished in Goalpara District. Steps for the acquisition of Zamindaries in Karimganj are in progress. Total compensation is estimated at about Rs. 5 crores.

Temporary settlement system: **Also known as the Ryotwari system. Prevails in the other plains districts of the State. These lands are assessed to full revenue and are called Khiraj lands.**

The peculiarity of this system is that generally the cultivators hold lands directly under the Government unlike the lands in permanently settled estates.

The Khiraj lands are again divided into two categories, periodic and annual. The periodic landowner has a heritable and transferable right whereas the annual landowner has a right of occupation only and has no right of transfer or subletting. Subject to the payment of the land revenue the owners of annual lands get renewal of the lease from year to year.

Besides these, there are some La-Khiraj (full revenue free) and nisf-Khiraj (half revenue free) tenures in Assam and also a number of Fee Simple tenures. These Fee Simple tenures are for cultivation of tea. These tenures are initially revenue-free, but subsequently they have been assessed at full rate of revenue under Assam Revenue Free Waste Land Grants Act, 1948.

There are three tenancy Acts in Assam, *viz.* The Goalpara Tenancy Act, The Sylhet Tenancy Act and the Assam (Temporarily Settled Districts) Tenancy Act. The former two Acts apply to the Districts of Goalpara and Cachar (those portions of Sylhet District which have remained in Assam after partition) respectively. The last Act applies to the plains districts of Assam. These Acts confer rights of occupancy, determine the rent payable by the tenants and regulate the relationship between the landlords and the tenants. The Assam Adhiars Protection and Regulation Act, 1948, govern the conditions regarding crop-rent payable by the crop-sharing tenants and prescribe the conditions on which the landlord can resume possession for personal cultivation. Government has also passed a law called the Assam Fixation of Ceiling on Land Holdings Act whereby the holding of agricultural lands has been limited to a maximum of 150, bighas (about 50 acres) per family.

Hill Districts: In the hill districts of Assam, land administration is carried on by the Autonomous District Councils according to local customs and usages. The provisions of revenue regulations and tenancy acts in force for the plains districts do not apply there and even land-revenue as it exists in the plains, is not realised there. In its place, a house tax or hoe tax is levied on the people. In many parts of the hills, land is held in common by entire villages.

MINES, INDUSTRIES

The only minerals in Assam worked on a commercial scale are coal, limestone and petroleum oil. Petroleum output about 100,000,000 gallons; coal output 4,72,000 tons; and limestone output approximately 1,000,000 tons. The most extensive coal measures hitherto worked are in the Naga Hills, Lakhimpur District and Khasi-Jaintia Hills. Important deposits also exist in the Garo Hills; but those are yet to be exploited. Limestone is quarried in the Khasi-Jaintia Hills. Petroleum is worked only in Lakhimpur and refined there. An oilfield has been found at Nahorkatiya.

Silk is manufactured in the Assam valley; also cotton weaving prevails as a cottage industry, women playing a predominant part. In this valley there are no caste weavers. In the Surma Valley or Cachar weavers carry on a brisk manufacture on a commercial scale. These handloom products find a ready market on account of the great scarcity of mill made cloth. There is no textile mill in Assam and the entire requirement of mill-made cloth has to be imported from other States.

Tea is the main industry, but there is a large petroleum mining concern with Digboi in Upper Assam as the centre and also some coal-mines. There is a big match manufacturing concern at Dhubri. Boat-building, brass and metal and earthenwares, limestone burning, cane and bamboo work, furniture making, sola hat, smithy, brick making, mustard oil pressing, rice and saw mills are other industries. But agriculture employs about 80 per cent of the population. Assam carries on a considerable trade with the adjoining hill tribes and countries.

Total number of registered factories (1956-57) 1,123.

Total number of workmen employed in the State in registered factories (1956-57) 74,602 (Men, 64,193; Women 8,221; Adolescents 1,670; Children 578)

TRADE

Assam has to import almost every article of daily necessity except rice and paddy to meet the requirements of the population. As there are no production units every type of manufactured goods has to be imported and brought into Assam by the rail link, steamer or air, none of which has so far been able to cope with the demand. Prices have gone up in the State as a consequence of this.

Manufactured goods, textiles, iron and steel, medicine, sugar and pulses are some of the main items of import. Exports from Assam are tea, jute, timber, cane, bamboos, petroleum and fresh fruits.

TRANSPORT

Much of the trade of Assam is carried by river steamer companies maintain fleets of vessels which ply to and from Neamati, Disangmukh, Tezpur, Gauhati, Goalpara, Dhubri, Karimganj, Silchar and many other smaller stations.

During the dry season the formation of *chars* and sandbanks restrict the volume of riverine traffic.

The rail system in Assam is entirely metre gauge. Till November 1, 1957 the total mileage in the State was 1,455·08, broken down as follows:

Running Track mile ..	1093·30
Transport Siding	267·50
Commercial Siding ..	99 28

After Partition the Assam Rail Link was built to connect the State directly with the rest of India but as the line is very close to the Himalayas from which a number of rivers rush down into the plains, it is subject to heavy

damage by floods almost every year and through traffic also remains suspended for long periods. The Railway Board has sanctioned certain measures designed to prevent recurring flood damage and dislocation of traffic.

From August 1955, goods traffic to the rest of India was also started through East Pakistan.

On the bank of the Brahmaputra, the rail system starts from Pandu, which is reached from the north bank terminus Amingaon by a ferry. The construction of a bridge to link the two banks has been under contemplation for long.

Because of the slender surface link between Assam and the rest of India, air services are of great value to the State. The first direct link by air between Calcutta and Gauhati was established in 1947. This air service was originally on a non-scheduled basis but very soon it became a daily service and now there is more than one service a day. Almost all the big towns Tezpur, Jorhat, Dibrugarh, North Lakhimpur, Silchar, Dhubri and Gauhati are served by daily scheduled flights. Pasighat and Along in N.E.F.A. have also been placed on the airmap.

Shillong is reached by a 63-mile nationalised motor route from Gauhati, the nearest railhead, steamer ghat and air station. Assam Government's State Transport carries both passengers and goods on a monopolistic basis on the National Highway, in combination with railway and steamer services on out-agency terms.

Nationalisation of motor transport in the State was started in 1948 and till March 1957, 942 miles were covered. The Second Five Year Plan aims at nationalising 850 miles.

Till October 31, 1957 :

Number of passenger buses 342

Number of cars 25

Number of Goods Vehicles . 170

Number of passengers carried in a day (1955-56) : 11,340

Goods carried in a day (1955-56), 7,870 maunds.

The organisation provides employment to 2,200 persons. Capital invested till March 31, 1957 is Rs 1,05,05,430. Profit in 1956-57 stood at Rs 23,84,247. The State Transport is under the administrative management of a Board, with the Minister for Transport as Chairman.

The programme of road making has its special significance in that it is designed to make Assam self sufficient in ensuring quick transport of its exports to and imports from other parts of the Indian Republic without having to pass through Pakistan. At the same time communications within the State are being improved by provision of necessary feeder roads from and to the arterial road system of the State so that local surplus produce may find good markets.

Before Independence the State had only 2,610 miles of motorable roads—2,040 miles in the plains and 570 miles in the hills. After the achievement of Independence an extensive programme of road-making was taken in hand and on March 31, 1956, the total length of motorable roads stood at 6,627 miles including 797 miles of National Highway. Of these 5,163 miles were in the plains and 1,464 in the hills. Besides, there were on this date 1,041 miles of bridle roads.

CIVIL SUPPLIES

In January 1957 the Assam Government promulgated a Food Grains Licensing and Control Order with immediate effect to regulate the sale, purchase, storage and milling of rice paddy throughout the State.

There was some uneasiness over the 1958 food prospects and it was expected that the shortfall might amount to about 70,000 tons.

No person, except the producer will now be able to purchase, sell, store for sale of mill food grains without a licence.

The State Government may also compel, for the purpose of "maintaining or increasing supplies or securing an equitable distribution and availability at fair prices", the holders of food stocks to sell to the Government or other specified persons at prices determined by the Central Government.

The movement of food grains out of Goalpara, Nowgong, Sibsagar, Cachar, Kamrup and Darrang districts and North Lakhimpur and Dibrugarh sub-divisions has been banned.

An exception has been made, however, in the case of *bona fide* travellers carrying food grains not exceeding five seers.

Rice is the staple food in Assam. There was no rationing nor general restriction on movement of rice and paddy except in four districts on the border of East Pakistan—Goalpara, Garo Hills, Khasi & Jaintia Hills and Cachar after the war-time restrictions were withdrawn until the Control Order mentioned above was promulgated.

In the latter part of 1956, two control orders were, however, promulgated to restrict the export of rice, paddy, mustard oil and mustard seeds from Assam and also to restrict the movement of rice and paddy from the four districts adjoining East Pakistan. Though there was no statutory rationing, imported rice was being distributed through fair price shops throughout the State. Imported rice was being stored in Central Government godowns at eight centres for issue to the dealers appointed by the local officers for distribution at a subsidised price to low income groups.

Whole wheat used to be imported from Central Government stocks in Calcutta by *bona fide* traders on the recommendations of the State Government till August 1957. After September 1957, imported wheat was being stored in Central Government depots in Assam for issue to the selected mills according to allocations made by the State Government. Atta produced from imported wheat is sold by the dealers and millers at prices fixed for different areas.

A new Roller Flour Mill has been functioning since May 1957 but the maida and fines produced by this mill are quite inadequate to meet the requirements of the State.

Arrangements have been made for the supply of 1,500 tons of maida per month from Calcutta flour mills in addition to the local production of about 600 tons.

The entire requirements of sugar, salt, cloth and yarn have to be imported as there is no production unit for any of these commodities.

The demand for sugar prior to decontrol in June 1953 was about 2,500 tons monthly. This has now gone up to 5,000 tons. For the entire quantity Assam depends on mills in other States.

In the matter of cloth there is no control on movement or price, but the licensing of dealers still continues.

State's requirements : Rice—1,542,000 tons (annual); Wheat—5,000 tons (monthly); Salt—200,000 md (monthly), Sugar 5,000 tons (monthly), Cloth 5,000 bales per month, Yarn 3,000 bales per month.

CO-OPERATION

1955-56 :

Total number of Co-operative Societies : 4,265.

Total membership of Co-operative Societies : 649,345.

Total working capital : Rs. 4,20,42,288.

Types of Co-operative Societies and the number of each :

Farming (105) ; Milk Societies (3) ; Agricultural Credit (1,925) ; Non-Agricultural Credit (162) Non-Agricultural Non-Credit (1,777) ; Weaving (717) ; Fishery (71), Industrial (92) ; Rural Credit (1,509) (1954-55), Central Non-Credit (12) ; Consumers and Trading (1,103) ; Primary Land Mortgage Bank (2) ; Multi-purpose (48) ; Social Service (3) ; Sugar Mill (1), Cotton-ginning Mill (2) ; Co-operative Union (4) ; Marketing (20) ; Dairy Farm (4) ; Milk Union (1) ; Jute-baling (1).

Number of Banking Unions : 15 ; Number of Central Banks (Assam Co-operative Apex Bank) : 1 with 17 branches :

Assam Co-operative Apex Bank (1956-57) :

Working capital	.. ..	Rs. 4,02,62,787
Deposits	.. ..	„ 2,30,78,660
Paid-up share capital	..	„ 22,83,900
Profit	.. .. ..	„ 5,75,069

Budget allotment for the department for the year 1954-55 : Rs. 10,96,300.

STATE HELP FOR AGRICULTURE

1955-56 :

Manure distributed and the quantity of each : Rural Compost : 1,20,000 tons, benefitting an area of 26,600 acres ; additional yield expected : 1,320 tons ; Town Compost : 594 tons, Oil-cake : 21,816 md., covering an area of 5,848 acres ; additional production anticipated : 721 tons ; Fertilizers (Bone meal) : 3,672 md., serving an area of 1,049 acres ; estimated additional production : 315 tons ; Ammonium Sulphate distributed : 2,500 tons.

Quantity of improved seeds distributed : Paddy : 30,375 md ; Pulses and wheat 1,431 md., Mustard (1954-55) 23 md.

Monetary or other help given by Government to cultivators :

Loans : Rs. 2,05,500.

Government's share of 50 per cent contribution towards irrigation projects : Rs. 6,01,000. Area covered : 2,41,980 acres. Additional outturn : 33,990 tons.

Manures and fertilizers are being subsidised by Government.

Number of Agricultural experimental farms : 9 (excluding 9 district seed farms under "Grow More Food").

Plant protection organisation : One.

It has been under the supervision of a Mycologist assisted by an Entomologist since 1949-50. During 1955-56 1,072 acres of paddy, 395 acres of potato, 4,200 acres of pulses, fruits and vegetables were treated against insect pests, in addition to 2,50,000 maunds of paddy, 30,000 maunds of pulses and 20,000 maunds of potatoes, treated in storage against pests.

Target for additional production of food crops under "Grow More Food" for the five-year period ended 1955-56 as agreed to by the State Government under seven different schemes for irrigation, reclamation of land, production and distribution of manures, fertilisers and seeds was 2,50,000 tons against which actual achievement was 2,41,140 tons.

Highest yield per acre :

Sali Paddy 114 maunds 33 seers 2 chhataks —in Lakhimpur.

Potato—453 maunds 30 seers—in Lakhimpur.

Budget estimates for 1957-58 :

	(Rs lakhs)
Seeds	5 28
(excluding District seed farms for which there is provision for Rs 13 8)	
Manures	1 52
Plant protection . ..	2 87
Tea Garden Loan . ..	3 00

PUBLIC HEALTH

Latest figures available :

Commonest diseases in State and mortality from each disease during 1956.

Diseases	Persons affected	Death
Malaria	96,240	5,955
Kala-Azar . .	29,120	244
Total : All fevers .	not available	22,992
Small Pox .. .	not available	109
Dysentery and Diarrhoea	not available	3,418
Respiratory diseases ..	not available	3,754
Injuries	not available	829

Total number of hospitals and dispensaries: 482.

Number of Allopathic hospitals and Dispensaries: Rural 394; Urban—78.

Total number of Ayurvedic dispensaries: 10.

Types of special hospitals and the number of each. T.B. Hospitals—11 (437 beds); Mental Hospital 1 (740 beds); Leprosy Hospitals and Clinics 15 (755 beds); Kala-Azar Hospitals—3 (301 beds).

Total number of Allopathic doctors (Rural and Urban) (1953)—3,137.

Total number of Ayurvedic doctors (Rural and Urban)—194.

Total number of Nurses—616.

Total number of Midwives 535.

Total number of Dhais (Rural and Urban)—480.

Total number of Compounders—2,195.

Total number of indoor patients treated in Hospitals—38,315.

Total number of outdoor patients treated in Hospitals—1,86,926.

Total number of Government Hospitals and Dispensaries—452 (rural 381, urban 71).

Total number of Government doctors: Allopathic—312, Ayurvedic—10.

Total number of Government Nurses: 248.

Total number of Medical Colleges: Allopathic—1; Ayurvedic—1.

Total number of students: Allopathic—501; Ayurvedic—24.

Special Medical Research Institute—1 (Pasteur Institute, Shillong).

Budget allotment for Public Health for 1956-57—Rs. 86,85,300.

EDUCATION

The information furnished below relates to the year 1956-57 unless otherwise mentioned.

Elementary Schools:

Total number of elementary schools—13,561.

Total enrolment: 837,018 (in 1955-56 boys 523,096; girls 279,148).

Total number of teachers: 21,582.

Total expenditure: Rs 1,10,74,909 (excludes expenditure on unrecognised institutions).

Contribution by State Government: Rs. 98,20,240.

By Local Bodies: Rs. 1,91,927.

By Private agencies. (1955-56) Rs. 9,46,253.

Nursery Schools:

Total number of Nursery schools: 24 (boys 6 girls 18).

Total enrolment: 924 (boys 440, girls 484).

Total number of teachers: 38.

Number of schools with Nursery classes attached (1955-56): 15 (urban areas 3; rural areas 12).

Total enrolment in such classes: 85 (1954-55).

Total expenditure on Nursery Schools: Rs. 41,028 (excludes expenditure on unrecognised institutions).

Secondary Schools:

Total number of Secondary Schools: 2,111 (for boys: 1,889; for girls: 222).

Total enrolment: 260,661 (in 1955-56, boys 214,121; girls 67,160).

Total number of teachers: 13,214.

Total expenditure on Secondary Education: Rs. 1,56,14,117 (excludes expenditure on unrecognised institutions).

Contribution by State Government (1955-56): Rs. 73,75,974.

By Local bodies (1955-56): Rs. 1,26,720.

By Private agencies (1955-56): Rs. 15,11,373.

Fees (1955-56): Rs. 49,72,537.

European and Anglo-Indian Schools:

Number of European and Anglo-Indian Schools: 4.

Total enrolment: 1,161.

Total Government grant: Rs. 57,356.

Sanskrit Tols:

Number of Sanskrit tols: 139.

Enrolment: 3,663.

Government grant: Rs. 74,000.

Arabic Madrassas:

Number of Arabic Madrassas: 121.

Total enrolment: 12,500.

Government grant: Rs. 92,252.

Number of Elementary schools owned by State Government: 1,320; by School Boards: 9,980; by Private agencies: 2,261.

Number of Secondary schools owned by State Government: 147; by Central Government: 2; by Local Bodies: 510; by Private agencies: 1,452.

Number of Colleges owned by State Government: 1; by Local Bodies: Nil; by Private agencies: 26.

Number of teachers' training institutions owned by State Government: 16; by Local Bodies: 11; by Private agencies: 6.

Number of commercial and technical institutions owned by State Government: 22; by Central Government: Nil; by Local Bodies: 1; by Private agencies: 27.

Number of European and Anglo-Indian Schools owned by State Government: 1; by Private agencies: 3.

Number of Sanskrit Tols owned by State Government: Nil; by Private agencies: 139.

Number of Arabic Madrassas owned by State Government: 1; by Private agencies: 120.

Number of nursery schools owned by State Government: 1, by Private agencies: 23.

Schools for Defectives:

Total number of schools for defectives: 2.

Total enrolment: 64.

Number of teachers: 5.

Government grant. Rs 8,660 (for one school)

Schools for Social Education:

Number of Institutions: 694.

Number of teachers: 694.

Total expenditure: Rs. 1,46,013.

Contribution by State Government: Rs. 114,086; by Central Government. Rs 11,927; by Private agencies Rs. 4,930 (1954-55).

Training Institutions:

Total number of teachers' training institutions: 33 (for men 28; for women 5).

Number of training institutions which confer degrees: 1 (Gauhati University)

Total number of new trained teachers available for staffing elementary schools in a year: 734

Total number of new trained teachers available for staffing secondary schools in a year: 283.

Total expenditure on teachers' training institutions: Rs 9,99,178.

Contribution by State Government: Rs. 8,83,144, by Local Bodies: Rs. 1,050, by Private agencies: Rs. 13,155; Fees: Rs. 1,829.

Commercial and Technical Institutions:

Total number of Commercial and Technical institutions: 50 (Commercial: 22, Technical: 28).

Total enrolment: 3,995 (Commercial: 2,057; Technical: 1,938).

Total number of teachers: 249 (Commercial: 62; Technical: 187).

Total expenditure: Rs. 12,53,045 (1955-56) (excludes expenditure on unrecognised institutions).

Contribution (1955-56) by State Government: Rs. 1,54,960; by Central Government: Rs. 2,38,749; by Local Bodies: Rs. 4,018; by Private agencies: Rs. 50,317; Fees: Rs. 75,666.

Colleges:

Number of colleges: 27.

Total number of women's colleges: 4

Total enrolment (1955-56): 12,336 (boys 10,685; girls 1,651), including enrolment in unrecognised colleges.

Total number of teachers (1955-56): 445.

Total expenditure on Collegiate Education (1955-56): Rs. 20,25,153.

Contribution (1955-56) by State Government: Rs. 7,19,645; By Central Government: Rs. 22,029; By Private agencies: Rs. 85,940; Fees: Rs. 11,95,530.

Professional Colleges:

Total number of Professional Colleges: 6.

Number in each category—Medical: 1; Agriculture: 1; Veterinary: 1; Law: 1; Engineering: 1; Ayurvedic: 1.

Total enrolment: 1,193 (excluding Engineering College).

Total enrolment in each category: Medical: 501; Agriculture: 158; Veterinary: 227, Law 283; Ayurvedic: 24; Engineering: Not available.

Total number of teachers: 109 (excluding Engineering and Law Colleges).

Total expenditure on Professional Education (1955-56): Rs. 11,90,747.

Contribution (1955-56) by State Government. Rs. 1,04,926; by Private agencies: 8,445, Fees: Rs. 1,33,040.

The grant given by the Central Government under Article 275 of the Constitution for education of backward classes: Rs. 10,93,935.

Research Institutions:

Kamrup Anusandhan Samity, Gauhati.

Assam Provincial Museum, Gauhati.

Assam Paribhasa Committee, Gauhati.

Assam Sahitya Sabha, Gauhati.

Universities:

Number of Universities: One (Gauhati University).

Elementary education is compulsory in selected Plains areas in the State for children of the age group 6-11.

Total number of children of school-going age in areas under compulsion: 350,323.

Number of Primary Schools maintained by the State Primary Education Board: 9,980

Total enrolment 668,285

Number of teachers: 17,586.

Government expenditure: Rs 78,86,900 (excluding contribution by local bodies).

The Assam Elementary Education Board has made arrangements for the training of 700 teachers annually.

Literacy in the State: The percentage of literates in the State (according to 1951 census) 18.07 Males 1,303,367, Females 330,755, Total 1,634,122.

SOCIAL EDUCATION

Number of Social Education Centres organised so far throughout the State: 1,762.

In order to cater for the post-literacy scheme 428 village libraries were given grants-in-aid in 1957.

Adults both male and female are generally admitted into the Social Education Centres.

Total number admitted: 28,114 (men 25,529 women: 2,585).

Total budget for the scheme in the State Rs. 3,65,900.

Number of adults who appeared in the literacy tests held every year from the Social Education Centres: 24,231 (men: 21,767; women. 2,464)

Number of adults who came out successful 18,471 (men: 16,430; women: 2,041).

Number of teachers in Social Education Centres: 694.

Hindi in the Education System:

With a view to introducing Hindi in the secondary schools in the State as a compulsory subject from class IV onwards, it is proposed to make Hindi a compulsory subject in 150 institutions every year.

Total number of schools where Hindi has been introduced as a compulsory subject: 597.

The number of candidates who appeared at the different examinations conducted by the Assam Rastrabhasa Prachar Samity: Prathama—10,945; Prabeshika—4,478; Probodh: 1,784; Bisharad—699.

Basic Education :

The Scheme for Basic Education was first introduced in this State only in the year 1949-50 on the lines of the Wardha Education Scheme.

Due attention was paid to the productive side of Basic Education.

It is expected that the existing 5 training centres with Basic Schools under them will earn on an average Rs. 1,000 per centre.

LABOUR

Average daily number of workers in registered factories at the end of March 1957 : 33,826 (Adults : men 30,370 ; women 2,972 ; Children : 484).

Names of industries in which a minimum wage is fixed : Tea Plantation, Motor Transport, Rice and Oil Mills, Agriculture, Road Construction, Building Operations and Stone-breaking or crushing.

Average monthly earnings of workers in some of the more important industries (in March 1957) (earnings include basic wage as well as other cash remunerations like dearness allowance and overtime ; basic wages are shown in brackets) :— Plantations : Rs. 45 (Rs. 30-8) ; Tea factories : Rs. 52-2 (Rs. 37-4) ; Rice Mills : Rs. 80-5 (Rs. 61-7) ; Plywood factories and Saw Mills : Rs. 67-9 (Rs. 48-3) ; Match factory : Rs. 114-8 (Rs. 49-2) ; Petroleum : Rs. 194-8 (Rs. 102-6).

Total number of Trade disputes for the year 1955 : 4,012.

Total number of Strikes (October 1956-September 1957) : 21 (18 in plantations).

Total number of workers affected : 10,525 (8,859 in plantations).

Number of Man-days lost : 99,196 (93,942 in plantations).

Number of registered Trade Unions in State (October 1957) : 118.

Total membership of Trade Unions : 1,81,136 (of only 73 unions, figure for 35 Unions not available).

Number of Labour Welfare Centres in State : 20.

Number of houses built through the Industrial Housing Scheme : 11. In the tea industry in 1954-55 3,280 houses of the type approved by the Government were constructed, and 521 old houses adapted to the approved standard.

COMMUNITY PROJECTS

The Community Development Projects and Blocks and the National Extension Service Blocks taken up in the State till March 31, 1957 cover a total area of about 17,257 sq. miles with a population of 28,62,208 (about 34 per cent of the State population) in about 9,915 villages. There are in all 53 blocks in operation now.

HOUSING

Housing authority : Housing Board, Assam.

Finance available for housing : Schemes are entirely financed by loans and subsidies from the Government of India, Ministry of Works, Housing and Supply except that for slum clearance schemes a matching subsidy is given by the State Government. Staff expenses for all schemes are borne by the State Government. Allotment by Government of India for the Second Five-Year Plan period : Rs. 1,23,50,000.

Types of houses built : 2. Tenements for municipal sweepers at a ceiling cost of Rs. 3,500 per tenement, and residential houses by private individuals with no prescribed ceiling.

Rents charged : For tenements for municipal sweepers : Nil ; for residential houses : does not arise.

Financial help given to local bodies : To Municipalities for sweepers' tenements, 80 per cent of the estimated cost of construction or Rs. 2,800 per tenement, whichever is less. So far Rs. 10,20,000 has been given as loan.

The Housing Board advances loans also to private individuals for construction of residential houses at the rate of 80 per cent of the cost of construction or Rs. 8,000, whichever is less, repayable with interest at 5½ per cent per annum in 18 years. During 1956-57 Rs. 20,36,000 was sanctioned as loans for construction of 321 residential houses. Till August 15, 1957, the total amount given as loan amounted to Rs. 35,00,000.

Schemes for implementation during Second Five Year Plan period : Development of building sites—Rs. 5,00,000 ; Loans to Local Bodies—Rs. 5,00,000 from Government of India and Rs. 10,00,000 (in 1956-57 only) from State Government ; Plantation labour housing scheme Rs. 35,00,000 ; Slum clearance—Rs. 9,00,000 ; Subsidised industrial housing scheme—Rs 9,00,000 ; Loans to individuals and co-operatives Rs. 79,50,000.

BUDGET (1958-59)

Revenue : Rs. 29,26,58,000.
Expenditure : Rs. 28,39,18,000
Surplus : Rs. 87,40,000

FIVE-YEAR PLAN

Second Plan provision : Rs. 5,793 69 lakhs.
1957-58 provision : Rs. 1,158 18 lakhs
1958-59 provision : Rs. 1,071 17 lakhs

See also under article 'Second Five-Year Plan'

THE ASSAM FINANCIAL CORPORATION

('Glencrquahrt', Shillong)

(Position as on March 31 1958)

The Corporation came into being on 14th August 1954.

Aims and objects : To contribute to the industrialisation of the State by providing credit, medium and long term to industrial concerns present or future in Assam.

Authorized capital : Rs. one crore divided into one lakh shares.

The one lakh shares are distributed as below :

1.	Government of Assam ..	50,000
2.	Reserve Bank of India ..	20,000
3.	Scheduled Banks, Insurance Companies, Co-operative Banks and other financial institutions.	25,000
4.	Parties other than those referred to above	5,000

Total number of applications received : 123
Total number of applications accepted for loan : 50
Total amount of loan sanctioned : Rs 1,07,50,000
Total amount of loan advanced : Rs. 54,03,148

Rate of interest charged : Six per cent to seven per cent.

	Rs.
Income (1957-58) . .	5,25,664
Expenditure	74,746
Profit	4,51,918

POPULATION OF DISTRICTS (1951 Census)

Assam Districts.	Total	Males	Females	Rural	Urban
1. Cachar	1,115,865	588,306	527,559	1,054,489	61,376
2. Goalpara	1,108,124	588,999	519,125	1,067,495	40,629
3. Kamrup	1,490,392	799,391	691,001	1,416,512	73,880
4. Darrang	913,841	491,618	422,223	891,390	22,451
5 Nowgong	886,955	476,578	410,377	843,420	43,535
6 Sibsagar	1,212,224	647,932	564,292	1,172,905	39,319
7. Lakhimpur	1,078,157	586,306	491,851	1,021,728	56,429
8. United Khasi and Jaintia Hills	363,599	186,652	176,947	305,087	58,512
9. Lushai Hills	196,202	96,136	100,066	189,252	6,950
10. Garo Hills	242,075	124,054	118,021	242,075	....
11. United Mikir and North Cachar Hills	165,440	86,430	79,010	163,272	2,168
12. Mishmi Hills	32,163	17,953	14,210	27,119	5,044
13. Abor Hills	10,761	6,348	4,413	10,761	....
14. Tirap Frontier Tract	5,213	3,050	2,163	5,213	....
15. Balipara Frontier Tract	9,721	5,862	3,859	9,721	....
16. Naga Tribal Area	7,025	3,447	3,578	7,025	....

Irrigation Projects*

Name of Project.	District/Area Benefited.	Date begun.	Date for completion.	Total Cost (Rs. in Lakhs).	Development Expenditure —Five Years, 1951-56 (Rs. in Lakhs).	Area to be irrigated on completion in '000 Acres.
Navigation embankment and drainage projects.	Entire State	1951-52	1955-56	100	100	218
Protection of Dibrugarh town	—	1952-53	1955-56	100	100	....
Total				200	200	218

* From the report of the Planning Commission.

Power Projects*

Name of Project.	District/Area. Benefited.	Date begun.	Date for completion.	Total Cost (Rs. in Lakhs).	Development Expenditure —Five Years, 1951-56 (Rs. in Lakhs).	Installed capacity power in thousand kW.
Umtru Hydro-electric project	Kamrup, Nowgong and K. & J. Hills.	1949-50	1956-57	211·67	44·94 (Electrical). 69·74 (Civil).	7·5

* From the report of the Planning Commission.

ADMINISTRATIVE PERSONNEL

(*See under 'Administrative Personnel of States'*)

ASSAM LEGISLATIVE ASSEMBLY

(*See under 'General Elections'*)

UNIVERSITY OF GAUHATI

Gauhati, Assam.

VICE-CHANCELLOR

S. K. Bhuyan M.A., B.L., Ph.D. (Lond.), D.Litt. (Lond.)

REGISTRAR

P. Datta, M.A., B.L.

Teaching, Affiliating and Residential.

Subjects where provision exists for post-graduate and research:

Assamese, Philosophy, Economics, History, Education, Mathematics, Statistics, Botany, Commerce, English, Physics, Chemistry, Geology, Anthropology and Teachers' Training in the method of teaching English

Number of colleges affiliated: 23 (including one constituent college).

Number of students: Affiliated Colleges: 14,242; University Departments: 1,370.

Grant from State Government:

Annual recurring grant of Rs. 6,00,000.

Receipts: Rs. 17,65,407-15-9 (1956-57).

Expenditure: Rs. 16,69,850-3-3 (1956-57)

LIST OF COLLEGES

Assam Agricultural College, Jorhat
Assam Medical College, Dibrugarh.
Assam Veterinary College, Gauhati.
B. Barooah College, Gauhati.
B.N. College, Dhubri.
Cotton College, Gauhati.
D.C. Baruah Girls' College, Jorhat
Dibrugarh H.S. Kanon College, Dibrugarh
Darrang College, Tezpur.
D.M. College, Imphal (Manipur).
Gurucharan College, Silchar
Handiqui Girls' College, Gauhati
J.B. College, Jorhat.
Karimganj College, Karimganj
Lady Keane Girls' College, Shillong
M.C. College, Barpeta.
Nalbari College, Nalbari.
Nowgong College, Nowgong.
Sibsagar College, Sibsagar
St. Anthony's College, Shillong
St. Edmund's College, Shillong
St. Mary's College, Shillong.
University Law College, Gauhati

ASSOCIATIONS, INSTITUTIONS

AMERICAN BAPTIST FOREIGN MISSION SOCIETY (ASSAM MISSION)
Pan Bazar, Gauhati

President, Miss Florence Worcester; *Secretary* Rev. R. G. Beers; *Treasurer*, Miss Marion G. Burnham.

ASSAM AGRICULTURAL COLLEGE
P.O. Borbheta, Jorhat

Principal: Dr. M. C. Das; *Professor of Chemistry*, N. N. Majumdar; *Professor of Physics & Mathematics*: D. Pathak

ASSAM CHAMBER OF COMMERCE, SHILLONG

President, J. N. Bawri
Vice-Presidents, H. Banerji, S. D. Goswami.
Hon. General Secy., A. S. Mann, Major A.M.C. (R)

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P.O. Jorhat.

Superintendent, Syed Ikram Hussain.

ASSAM ENGINEERING INSTITUTE
Bamuni Maidan, Chandmari, Gauhati.

Principal: Dr. D. R. Khastgir, D.Sc., M.I.E., M.I.C.E., M.A.S.M.E.

ASSAM NATIONAL CHAMBER OF COMMERCE
P.O. Ulubari, Gauhati.

ASSAM TEXTILE INSTITUTE
Gauhati

BIOLOGICAL SOCIETY OF ASSAM
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THE COUNCIL OF BAPTIST CHURCHES IN ASSAM & MANIPUR
Pan Bazaar, Gauhati

President Rev. Longri Ao; *Field Secretary*, Edward Singha; *Treasurer*, Miss Marion Burnham.

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Bishop's House, Shillong.

Bishop of Shillong: Most Rev. S. Ferrando, S.D.B.; *Secretary*: Rev. M. Bianchi, S.I.B.

GOVERNMENT WEAVING INSTITUTE
Gauhati.

H.R.H. THE PRINCE OF WALES INSTITUTE OF ENGINEERING AND TECHNOLOGY
Jorhat

Principal Harendra Nath Barua, B.Sc. (Mining)

MISSION GIRLS' TRAINING SCHOOL
Nowgong

Secretary: Hazel B. Morris; *Head Mistress* Anandi Konwar

NARAYANI HANDIQUI HISTORICAL INSTITUTE.
Department of Historical and Antiquarian Studies in Assam, Gauhati

Deputy Director & Officer-in-Charge of the Department: Dr. Pratap Chandra Choudhury M.A. (B.H.U.), Ph.D. (Lond.).

PASTEUR INSTITUTE & MEDICAL RESEARCH INSTITUTE
Shillong.

Director: Dr. R. L. Cunville; *Asst. Director*: Dr. B. C. Gogoi; *Biochemist*: P. K. Das

UPPER ASSAM CHAMBER OF COMMERCE
Jorhat.

NAGA HILLS - TUENSANG AREA

Area : 6,276 sq. miles (approximately).

Population : 355,000 (approximately).

Headquarters : Kohima.

Administrative Districts with headquarters shown within brackets : Kohima (Kohima); Mokokchung (Mokokchung); Tuensang (Tuensang).

This administrative unit comprising the Naga areas of Assam State and North-East Frontier Agency, that is, the Naga Hills district of Assam and the Tuensang Frontier Division of NEFA, came into being on December 1, 1957, following the acceptance by the Government of India of a resolution passed by a Naga convention at Kohima which advocated this course as a step preliminary to solving the political deadlock there.

The Naga Hills-Tuensang Area is, like NEFA, administered by the President through the Governor of Assam. The responsibility for the administration rests with the External Affairs Ministry. The Governor has under him, for this Area, a Commissioner who in turn is helped by three Deputy Commissioners in the three districts and other staff.

The economy of the unit is entirely dependent on its abundant forests. Revenue is derived from house tax and forest produce like bamboo, cane, timber, thatch and 'Agar'. Rice is grown but all other necessaries of life have to be imported. The Naga tribes depend on their own cottage industry for cloth but yarn is imported.

The main tribes in the Area are : Angami, Sema, Lhota, Ao, Rengma, Chakesang, Sangtam, Konyak, Chang, Phom, Yimchungurr, Khiamungan.

NORTH - EAST FRONTIER AGENCY

Area 34,969 sq miles

Headquarters Shillong

Population The latest census of India in 1951 did not extend to the whole of the North-East Frontier Agency and only a very small portion of the territory was covered. These figures are included in the total population of Assam. The population of N E F A is very roughly estimated now at 6,40,000.

The North-East Frontier Agency geographically and constitutionally a part of Assam but administered by the Union Government is situated on the borders of Bhutan Tibet and Burma

The Agency is inhabited exclusively by hill tribes who have only recently been integrated with the rest of India The main tribes are Monpas Sherdukpens, Akas Apatanis, Daflas, Hill Miris Minyongs Padams Gallongs Membas Tagins Bokars Boris Mishmis Singphos Khamptis Wanchos Nocte and seven tribes of Nagas Konyaks, Phoms Changs Sangtams Semas Yimchungers and Khiamungans

Before Independence the area was practically unadministered Since August 15 1947, considerable attention is being devoted to it and it is now administered by the Ministry of External Affairs, with the Governor of Assam acting as the Agent of the President of India under the provisions of the SIXTH Schedule (Part B) of the Constitution The Governor is assisted by an Adviser The N E F A is completely separate from Assam administratively

The Agency Secretariat is situated in Shillong capital of Assam

Divisions in the Agency with headquarters in brackets Kameng Frontier Division (Bomdila) Subansiri Frontier Division (Ziro), Siang Frontier Division (Along), Lohit Frontier Division (Tezu), Tirap Frontier Division (Khela)

Each Division is under the charge of a Political Officer The Sub-divisions are entrusted to Assistant Political Officers who have under them Base Superintendents and area Superintendents The system of administration has been evolved on a single line At the Secretariat in Shillong the heads of various departments are integrated and in the Divisions, the Political Officers are assisted by all the technical departments. Senior officers of the Agency are drawn from a newly created special cadre Indian Frontier Administrative Service

GEOGRAPHY

The North-East Frontier Agency is a wild mountainous country and presents a remarkable topographical variety. The northern regions bounded by the Himalayas are perennially snow-bound On the east, the hill ranges bordering on Burma stand as formidable slopes. Near Assam state areas the Agency has some plains.

The entire area is intersected by rivers, numbering about 50, including the Dihang, continuation of the Tsan-po of Tibet, which emerges in Assam as the mighty Brahmaputra About 15,000 sq miles of the total area, are estimated to be covered by forests.

The fauna and flora are very rich Wild elephants buffaloes tigers and various kinds of deer are found In the people of the Agency the mithun, described as a cross between a cow and a buffalo is most important as it serves as the standard of value and the medium of exchange.

Monsoon sets in from the month of April and continues till October Rainfall is heavy except in the Monpa-Sherdukpen area

LANGUAGES AND DIALECTS

Just as a large variety of tribes is found in the Agency so also a large number of distinct languages and dialects are spoken A vast amount of research still remains to be done but broadly the following is the list Division-wise (dialects of the main language are given in brackets)

Kameng Frontier Division Monpa (Monpa Dirang Monpa Lish Monpa Mee Aka Khea Sherdukpen Dafla Sulung Tibetan

Subansiri Frontier Division Dafla Apatanis Hill Miri Mikir

Siang Frontier Division Adi (Gallong Minyong Pasi Bokar Karko, Simong, Milang or Gosuri Bomdo Pailibo Ramo, Pangi, Tangam, Padam Minyong Pasi) Memba

Lohit Frontier Division Khamba Digaru Idu (Rekgya Idu) Mijn Singpho Khamptı

Tirap Frontier Division Tangsha (Yogli Likkhak Longchang Moshang Hayi Longri Longphi Pontlai Rundia Muchomi Noktey (Bordura Sohai Wanchoo

Very few of these languages have a script and it is one of the objectives of the Agency Administration in the sphere of education, to provide the people with a medium for writing their languages

EDUCATION

Education in the Agency is of the Basic type Some of the schools have already been converted into the Basic pattern and the rest are in the process of conversion

Due emphasis is laid on instruction in crafts and agriculture. Attached to every school is an agricultural garden where seasonal vegetables are grown by the students through improved methods Different crafts like carpentry, weaving, cane and bamboo work and soap-making are also practised. The products of these activities may be utilised by the students either for their own use or sold by them for economic gain.

Up to the Primary stage the mother tongue of the students is sought to be made the medium of instruction in schools, after which Hindi takes the place up to the Xth Class Assamese is introduced as a compulsory second language from Class VI Assamese will, however be retained as the medium of instruction for those students who are using it at present and the switchover to Hindi will be gradual

The task of preparing text-books in tribal languages is being given great importance Thirty-four text books for Grade I have been translated into 13 tribal languages and books for Grades II and III are under preparation A Philological Section in Shillong looks after the accuracy of the translations

In 1947 when the Department of Education was set up, there were only two Lower Primary schools in the entire Agency At the end of 1956-57 the situation was

Number of institutions Lower Primary 150, Middle English 13 High English 3 Total 166

Number of students Lower Primary 4,234; Middle English 208 High English 181 Total 5,623

Number of teachers Lower Primary 277, Middle English 12 High English 25, Total 314

Amount spent on education Rs 5,00,000 (1956-57)

A Basic Education Training Institute at Margherita runs refresher courses for the teachers

1956-57

Senior Basic trainees 28 Junior Basic trainees 28 Hindi trainees 10 Number of teachers 12

COTTAGE INDUSTRIES

The people of the Agency have a great tradition of artistic and craftsmanship The Administration aims at assisting them to develop their capabilities and to improve their standard of living by adopting better technique.

Cottage Industries Training and Production centres have been opened at 13 places to impart training in weaving, spinning, knitting, carpet-making, carpentry wood-carving, cane and bamboo work smithy and pottery. Rearing of silk and *eri* is demonstrated at sericultural farms at three centres.

Till the end of 1956-57, 906 persons were trained in different crafts and 345 more were under training at the beginning of the next financial year. About 100 instructors impart training in crafts and sericulture. Expenditure during 1956-57 : Rs. 5,25,073.

PUBLIC HEALTH

1956-57 :

Main types of disease with number of patients treated within brackets :

Malaria (51,412); Diarrhoea and dysentery (20,741); Goitre (13,456); Venereal disease (2,847).

Number of Hospitals : 30; Number of beds : 561; Number of Leprosy colonies : 3; Number of leprosy patients treated : 191; Number of dispensaries : 36; Number of doctors : 87; Number of Nurses : 15; Number of out-door patients treated : 3,28,270; Number of indoor patients treated : 5,232.

Two B.C.G. teams toured Pasighat area of the Siang Frontier Division of the Agency covering a population of 5,503. The campaign will be carried on until the whole of the Agency is covered.

A Health Training and Research Centre has been started to train rural health workers drawn from the villages.

Expenditure in 1956-57 : Rs. 21,06,850.

AGRICULTURE

Agriculture is the mainstay of the people of the Agency. Generally, the *jhum* system is followed as in the hills of Assam and the yield is not enough to meet the requirements.

A radical change from *jhumming* to permanent cultivation is not considered possible in the difficult terrain of the Agency and the objective of the Agriculture Department of N.E.F.A. is to introduce permanent cultivation wherever possible and simultaneously to improve *jhumming* on scientific lines.

Since independence, over 23,500 acres of land have been developed for permanent cultivation and 10,000 acres more are proposed to be so developed during the Second Five-year Plan period.

No data are yet available on the total area under cultivation or on the nature and quantity of crop produced.

State help towards agriculturists consists of :

(*i*) Subsidy towards land reclamation, minor irrigation, purchase of tools, purchase of seeds, purchase of plough bullock, agricultural education and training and purchase of improved cattle, pigs and poultry ;

(*ii*) Technical advice and guidance along with free services with necessary equipment for plant protection, organisation of marketing facilities, organisation of exhibitions, organisation of conducted tours, organisation of crop competitions, organisation of demonstration of improved crops, veterinary aid and livestock upgrading.

LAND TENURE

There is no regular land tenure system in N.E.F.A. as in other settled areas. Each tribe has its own customary system, giving individual as well as joint right on the land as under the jurisdiction of each village. Land belonging to each village is controlled by village elders organised in institutions similar to *panchayats* and they are guided by the old customs which vary greatly from place to place.

As no regular survey has yet been undertaken a detailed description is not available.

COMMUNITY PROJECTS

Community Development and National Extension Service Blocks in the Agency cover 1,200 sq. miles with a total population of 60,454. A special N.E.F.A. type block has been evolved by the Administration with the approval of the Ministry to meet the specific needs of the people with less expenditure. The main emphasis is laid, on self-sufficiency in food, better roads, water supply and sanitation.

COMMUNICATIONS

The difficulty of communications in the densely forested mountainous terrain is one of the major problems in the Agency. The highest priority is assigned to communications so that easy contact may be established with every part of the territory.

The total mileage of roads, paths and tracks in the Agency on March 31, 1957 :

Roads : 533 miles; Bridle Paths : 267 miles; Mule Paths : 297 miles; Porter Tracks : 2,671 miles; Total : 3,768 miles.

On March 31, 1957, seven airfields and three light plane strips were in commission and plans were in hand for five more airfields and two more airstrips. For the development of the interior, carriage of mail and cash and the evacuation of casualties the Administration depends greatly on light aircraft while bigger planes are used for landing or dropping supplies all over the Agency.

A wireless network has been set up to provide quick connection among the various administrative centres and outposts.

POWER DEVELOPMENT

A provision of Rs. 13,00,000 has been made in the Second Five-Year Plan for the development of power in the Agency. Of this amount, Rs. 11,00,000 is for providing diesel generating sets at 15 places for supply of electricity and Rs. 2,00,000 for survey of hydro-electric schemes.

SUPPLY

Air supply in the interior areas of N.E.F.A. commenced in January 1951. The Indian Air Force and chartered companies fly regular sorties to land or air-drop supplies. The total tonnage air-lifted during the calendar year 1956 was 6,881 tons. Up to October 31, 1957, the total tonnage airlifted was 7,360 tons.

Under a State Trading Scheme all ration and stores for the Agency Service Corps and for sale to the people, are procured centrally at Jorhat, N.E.F.A.'s air base and supplied by air to the interior.

BIHAR STATE

Area : 67,164 sq. miles.*

Total Population : 38,779,562.*

Capital : Patna.

See note on the Bihar and West Bengal (Transfer of Territories) Act, 1956, on page 359.

Administrative Divisions :—Patna, Bhagalpur, Tirhut and Chota Nagpur.

Districts with names of District Headquarters in brackets in each Division :

Patna Division : Patna (Patna) ; Gaya (Gaya) ; Shahabad (Arrah).

Tirhut Division : Muzaffarpur (Muzaffarpur) ; Saran (Chapra) ; Champaran (Motihari) ; Darbhanga (Laheriasarai).

Bhagalpur Division : Bhagalpur (Bhagalpur) ; Monghyr (Monghyr) ; Purnea (Purnea) ; Santal Parganas (Dumka) ; Saharsa (Saharsa).

Chota Nagpur Division : Ranchi (Ranchi) ; Hazaribagh (Hazaribagh) ; Palamau (Daltonganj) ; Singhbhum (Chaibassa) ; Dhanbad (Dhanbad).

Number of Districts : 17 ; Number of District Boards : 17 ; Number of Municipalities (including Patna Municipal Corporation) : 49.

Number of Notified Area Committees : 27 ; Number of Panchayats : 7,412 (1957). Names of towns with a population of over 50,000 : Patna, Monghyr, Jamshedpur, Muzaffarpur, Gaya, Chapra, Bhagalpur, Arrah, Ranchi and Darbhanga.

Number of towns 112 ; number of villages about 65,000.

(For names, area and population of taluks see under the heading Population.)

GEOGRAPHY

Bihar lies between 20°30′ and 27°30′ N. latitude and between 82°31′ and 88°26′ E. longitude and includes the former States of Seraikella and Kharsawan. It is bounded on the north by Nepal and the Darjeeling District of West Bengal ; on the east by West Bengal ; on the south by the State of Orissa ; and on the west by Uttar Pradesh and Madhya Pradesh.

The area of the territories which constitute the Governorship of Bihar is 67,164 square miles. The State comprises the plateau-land of Chota Nagpur and the valley of the Ganges from the spot where it issues from the territories of the Governor of Uttar Pradesh till it enters West Bengal near Rajmahal. Following the main geographical lines, there are four Civil Divisions with headquarters at Patna, Muzaffarpur, Bhagalpur and Ranchi. The headquarters of the Government are at Patna. The new capital which lies between the Military Cantonment of Dinapore and the old civil station of Fankipore is known as "Patna," the old town being called "Patna City."

Bihar is more thickly populated than Germany. Hindus form an overwhelming majority of the population. Though Muslims form about one-tenth of the total population they constitute more than one-fifth of the urban population of the State. Animists account for 6 per cent. These are inhabitants of the Chota Nagpur plateau and the Santal Parganas, the latter district being a continuation of the plateau in a north-easterly direction.

Although there is a great deal of mineral wealth in Chota Nagpur and important industries are developing in connection with it, still the bulk of the population of the State is agriculture continues to be the basic occupation. Over 80 per cent of the population depends wholly on agriculture, while only 7·8 per cent depends on industries.

The soil throughout the whole of that portion of the Indo-Gangetic plain lying within the State boundaries is extremely fertile, particularly in North Bihar, in parts of which the density of the population is more than 900 people to the square mile. The State occupies a transitional position between Ganges delta with its damp climate so suitable for the paddy crop and the States to the north and west where large irrigation schemes have had to be provided to enable the soil to produce its bounty. As in the delta of the Ganges, rice is by far the most important crop as it occupies normally an area of approximately 12 million acres or over 50 per cent of the net cropped area of the State. As canal irrigation is available only in the Sone Valley and to a moderate extent in Champaran District, the importance of the south-west monsoon to the State of Bihar cannot be overestimated.

In addition to the rice crop, however, other grain crops are grown on a tolerably large scale. Of the monsoon cereals, maize, wheat and barley are extensively grown. The cultivation of oilseeds like castor, mustard and linseed forms a large and important part of the agriculture of Bihar.

After Uttar Pradesh, Bihar is the most important white sugar area in India, some 23 per cent of the total production of white sugar in the country being turned out in Bihar factories.

Jute has been an important crop and is confined almost entirely to the Purnea District part of which has gone to West Bengal after reorganization.

Tobacco is a crop of increasing importance in the State and one which is likely to expand in importance.

A State Finance Corporation was set up on December 6, 1954, with an authorized capital of Rs. 2 crores.

LARGE-SCALE INDUSTRY

The large-scale industries are :

Iron and Steel, Aluminium, Lead, Foundry, General and electrical engineering, Bicycles, Tanning, Leather goods and foot-wear making, Sulphate of ammonia, Hume pipe and R.C.C. products, Asbestos products, Glass and glasswares, Ceramics, Cement, Heavy chemicals, Woollen textiles, Cotton textiles, Jute textiles, Silk and Art silk, Tobacco, Distilleries, Bezoi, Sugar, Food industries, Roller flour mills, Mica and Shellac.

The number of registered factories in Bihar in 1956 : 4,575.

The number of factories worked in 1955 was 4,081, and the average daily number of workers engaged in these factories was 1,71,954. The number of women workers engaged in all the factories in 1955 was 10,153.

The figures below are for 1953 unless otherwise stated :

Iron and steel (1954) : (4 ; 37,096) ; Copper (1 ; 1,701) ; Aluminium (1 ; 330) ; Lead (1 ; 233) ; Sugar (29 ; 21,681) ; Cement (6 ; 4,231) ; Refractories (8 ; 6,200) ; Mica (137 ; 11,608) ; Bidi (327 ; 18,153) ; Glass (2 ; 1,388) ; Coke ovens (5 ; 1,674) ; Jute mills (3 ; 5,639) ; Cotton mills (2 ; 1,365) ; Woollen mills (1 ; 692) ; Cigarettes (1 ; 2,540) ; Pulp and paper (1 ; 1,218) ; Shoe (1 ; 682) ; Tannery (1 ; 290) ; Sindri (1 ; 5,520) ; Rice mills (348 ; 6,074) ; Oil mills (317 ; 2,790) ; Shellac (94 ; 3,407).

COTTAGE INDUSTRIES

The main cottage industries in the State :

(A) Textile industries : 1) Cotton Weaving, 2) Hand spinning and khadi industries, 3) Sericulture, *a*) Mulberry silk, *b*) Eri Silk, *c*) Tasar Silk, 4) Wool sheaving, spinning and weaving, 5) Dyeing and printing, 6) Tailoring, embroidery and Zardozi, 7) Twine and rope making.

(B) Wood working industries : 1) Sewing, 2) Village Carpentry, 3) Furniture making, 4) Bamboo work and Basketry, 5) Palm leaves products, 6) Handmade paper making, 7) Charcoal burning, 8) Manufacture of toys, combs, flutes, drums, hookas, lathis, etc.

(C) Metal industries : 1) Village Smithy, 2) Cutlery, 3) Manufacture of trunks, etc., 4) Brass and bell metal work, 5) Gold and Silver smithy.

(D) Leather and allied industries : 1) Tanning, 2) Foot-wear and leather goods making, 3) Manufacture of manure from dead animal, 4) Mother of Pearl button making.

(E) Ceramics Industries : 1) Village pottery, 2) Brick making, 3) Manufacture of stoneware and porcelain articles, 4) Lime.

(F) Chemical Industries : 1) Shellac manufacture, 2) Extraction of saltpetre, 3) Soap making, 4) Kath making, 5) Miscellaneous chemical industry.

(G) Miscellaneous cottage industries.

MINERALS (1954)

Chief Minerals	Quantity
Iron ore	1,919,074 tons
Coal	19,424,618 ,,
Mica	81,440 cwt.
Manganese	49,465 tons
Kyanite	11,486 ,,
Asbestos	3,092 cwt.
Copper ore	353,054 tons
Chromite	1,301 ,,
Steatite	152,154 cwt.
Slate	156 tons
Limestone	1,290,428 ,,
Igneous rocks	319,979 ,,
Fireclay	30,007 ,,
China clay	48,392 ,,
Silica	11,739 ,,
Bauxite	42,177 ,,

The distribution of the minerals is as follows : Coal in Jharia, Bokaro, Kurnapura, parts of Raniganj ; iron ore in Noamundi, Gua, Buda Bune in Singhbhum District ; mica in a 90-mile long and 20-mile broad belt extending from Gaya District through Hazaribagh to Monghyr and Bhagalpur Districts ; copper at Rakha, Mosaboni, Dhobani and Badia in Singhbhum ; bauxite at Pakripat, Serendag in Ranchi District and at Netarhat in Palamau District ; limestone at Banjari, Rohtas, Banlia in the districts of Shahabad, Palamau, Hazaribagh and Singhbhum ; China clay in Singhbhum, Dhanbad, Bhagalpur and Santhal Parganas ; Fire clay at Jharia and Daltonganj in Monghyr and Singhbhum Districts ; manganese in Singhbhum District ; kyanite at Lapsa Buru, Ghagdih, Kanyaluka in Singhbhum and Dhanbad Districts ; steatite at Belaipahari, Digha, Bhitardari and Nurda in Singhbhum District and Pukhnkata in Dhanbad District ; chromite near Chaibasa ; pyrites in Shahabad District ; graphite in Palamau and Chota Nagpur ; apatite at Nandup, Pathargara, Badia, Sunrgi in Singhbhum District ; antimony at Hisatu in Hazaribagh District ; asbestos at Barhana and Saranghori in Seraikella State and in Monghyr District ; ochre in Singhbhum District and in Rajmahal hills in Santhal Parganas ; tungston at Tatanagar ; uranium deposits have also been located in Bihar.

* After the transfer of territory to W. Bengal in the course of reorganization. The figures under Population are from the 1951 census.

Workers employed in mines in 1955: Iron ores – 13,851; Coal—179,826; Mica—16,923; Kyanite—2,523; Manganese—1,220; Chromite—185; Copper ore—4,114; Asbestos—352; Limestone—6,566; China clay—2,512; Stone (Igneous rock)—2,151; Fire clay—270; Bauxite—483.

AGRICULTURE

Area and Production before transfer of territories

The following statement shows the figures of out-turn of principal crops obtained by crop cutting experiment and eye-estimation during 1954-55 (in thousand tons):—

Paddy (autumn and winter) 3,920; Wheat 425; Gram 263; Barley 189; Maize 398; Masoor 57; Arhar 97; Khesari 268; Peas 42; Sugarcane 2,175; Potato 222; Tobacco 8; Jute 373; Chillies 18; Rice 2,613.

The following figures show areas under principal crops in 1954-55 (in thousand acres):—

Rice 12,091; Wheat 1,505; Gram 1,384; Barley 898; Maize 1,775; Masoor 339; Arhar 469; Khesari 1,317; Peas 203; Sugarcane 326; Tobacco 28; Potatoes 99; Jute 266; Chillies 52; Marua 373.

Area and Production after the transfer of territories

	Area (in thousand acres).	Production (in thousand tons unless otherwise stated).
Rice ..	1,22,09	25,53
Wheat ..	14,44	4,12
Pulses ..	55,03	9,69
Sugarcane	3,79	4,95 (in terms of raw sugar or gur).
Cotton ..	11	2 (in thousand bales of 392 lbs. each of cotton).
Jute ..	2,70	5,83 (in thousand bales of 400 lbs. each).

There are about 4 lakh cane-growers in Champaran, Saran, Darbhanga and Muzzafarpur. Tobacco is grown in Muzaffarpur, Monghyr, Purnea, Darbhanga; and jute in Purnea part of which has gone to West Bengal after reorganization.

Variety of fish produced (inland): Carg, Catfishes, feather backs, Murrells and miscellaneous.

Estimated production of fish: 10 lakh maunds valued at Rs. 7 crores approximately.

Estimated fishing population: 22 lakhs.

FORESTS (1955-56)

Total forest area: 13,652 square miles. Types of forests: Mainly sal.

Total revenue from forests for 1956-57: Rs. 98,80,000 and total expenditure: Rs. 1,07,60,000 (including Rs. 43·37 lakhs under the Second Plan).

The following is the latest information available in 1956-57:

Main forest produce	Quantity
Timber	3,248,000 c.ft.
Fuel	4,036,000 ,,
Bamboo	9,173,000 Nos.
Sabaigrass	22,255 mds.

Three afforestation divisions have been functioning in the State since 1951. An area of 5,659 acres was afforested upto 1956-57.

Livestock: The distribution of livestock and poultry in Bihar after the transfer of territories and according to the 1956 livestock census is as follows: The figures are provisional. Total number of Cattle: 14,331,000, Cows 6,859,000 (1953-54); buffaloes 33,87,000; working bulls (cattle over 3 years) 6,500,000 (1953-54); bulls (buffaloes) over three years 600,000 (1953-54); horses and ponies 600,000 (1953-54); sheep 990,000; goats 64,22,000; donkeys 40,000 (1953-54); mules 2,000 (1953-54); camels 1,000 (1953-54); pigs 700,000 (1953-54).

Poultry (1953-54): Hens 2,100,000; cocks 1,600,000; chickens 4,000,000; ducks 200,000; drakes 100,000; ducklings 200,000. Poultry (1956): 86,90,000.

TRANSPORT (1955-56)

Total mileage of roads: 7,941 miles; metalled roads: 5,378 miles; unmetalled roads: 2,563 miles.

Total mileage of waterways: Length open to navigation: 900 miles.

Transport is nationalized in Seraikella, Jamshedpur, Patna District, Gaya District and on Patna-Ranchi trunk road and Monghyr-Bhalpur road. The number of routes increased from 86 in 1956 to 93 in 1957 and the route mileage from 2,854 to 3,211. The total mileage covered increased from 64,79,221 in 1955-56 to 91,10,714 in 1956-57. The total number of passengers increased from 2,25,88,133 in 1955-56 to 2,43,59,176 in 1956-57.

After nationalisation, only the third class fare was increased by 25 per cent.

A five-year plan has been drawn up by the Government for expanding nationalised transport.

A proposal to form a corporation for a more flexible, dynamic and co-ordinated system, is under the active consideration of the Government. The two participants in the Corporation will be the Government with 75 per cent share and the Railway with 25 per cent share.

TRADE

Statement showing exports and imports during 1955-56. The first three items in numbers, rest in maunds.

Article.	Exports.	Imports.
Horses, ponies, mules	131	200
Cattle (excluding sheep and goats)..	71,151	60,447
Sheep and goats ..	132,196	3,279
Bones	523,395	1,081
Cement	11,632,457	1,514,231
Coal and coke ..	2,88,413,257	36,289,828
Cotton twist and yarn	5,814	120,024
Cotton piecegoods..	11,828	778,089
Dyes and tans ..	16,527	1,770
Fruits dried ..	21,116	84,816
Glass	202,300	94,371
Maize	21,396	1,016,742
Jawar and Bajra ..	37,790	371,485
Hemp, Indian and others	36,817	2,907
Hides	342,710	26,900
Skin	29,449	715
Hides and skins (tanned) and leather	19,796	9,705
Jute (loose) ..	149,658	9,086
Jute (Pucca bales)	4,364,282	1,756
Gunny bags and cloths	725 676	332,886
Iron and steel bars, sheets, girders..	14,381,454	4,168,849
Lac and shellac ..	66,663	46,150
Manganese ore ..	1,645,363	1
Oil cakes	628,473	700,870
Kerosene oil ..	136,444	2,870,621
Vegetable oil ..	—	—
Coconut oil ..	14,908	90,091
Castor oil.. ..	18,458	8,189
Groundnut ..	48,322	287,419
Salt	112,081	576,624
Sugar	2,555,243	1,273,672
Gur	615,331	736,967
Tea	12,186	41,804
Tobacco (raw) ..	298,899	106,707
Wood and timber ·	20,028	46,068

IRRIGATION (1955-56)

Area irrigated by Government irrigation works: 952,275 acres; private canals: 757,696; tanks: 1,209,075 (1953-54); wells: 559,653; other sources: 1,420,247; tube-wells: 68,000 (1953-54).

The larger irrigation works are Sone Canal covering Shahabad, Patna and part of Gaya District; Tribeni Canal, Dhaka Canal and Teur Canal covering Champaran; and Sakri Canal covering Gaya, Patna and Monghyr Districts.

During the First Five-Year Plan period (up to March 1956), 4,953 minor irrigation works, 16,545 surface wells, 7,082 open borings and 408 medium irrigation works and 116 tube-wells were completed by the Agriculture Department in connection with the Grow More Food Scheme. In addition, 3,564 Rahat pumps were also sold. Besides about 13,586 tons of phosphatic fertilisers, including bone meals, 67,355 tons of Ammonium sulphate and 211,000 tons of town compost, 65 lakh tons of rural compost and 1,560 maunds of green manure seeds were supplied to farmers during the First Five-Year Plan period. Improved seeds of potato and other crops were also distributed. During the year 1955-56, 3,742 minor irrigation schemes were completed by the Revenue Department. The total number of such schemes executed during the period 1948-49 to 1955-56 (December) is 46,470 benefiting an area of 913,020 acres.

As regards major and medium irrigation projects, 8 irrigation schemes, 29 drainage schemes, 13 flood protection schemes and seven river training schemes have been completed in North Bihar during the First Five-Year Plan period at a total cost of Rs. 2 crores 30 lakhs. The total area benefited by these schemes comes to about 8 lakh acres. Further 66 more schemes, consisting of 5 irrigation, 33 flood control, 26 drainage and 3 river training schemes are either in progress or proposed to be taken up shortly at a total estimated cost of Rs. 11 crores. An area of 11 lakh acres is likely to be benefited by these schemes.

In South Bihar 61 irrigation schemes were completed during the First Plan period up to 31st March 1956. The Mayurakshi left bank works have been completed at a cost of Rs. 81 lakhs, and it is likely to benefit an area of 20,000 acres of land during *Kharif* and 5,000 acres during *rabbi* season. 450 tube-wells have been sunk in reserve areas of sugar factories and in Community Project areas of North Bihar. In South Bihar 499 tube-wells have been sunk under various schemes.

In all, the additional area, which were assumed of irrigation by the First Five-Year Plan Schemes, were about 10 lakh acres. In addition, nearly 14 lakh acres were benefited by flood control measures.

There are 32 schemes for implementation during the Second Plan period including the Kosi Project. Of these 14 are new and the rest are spill-over from the First Plan period. Of the spill-over schemes and five of the new schemes were under execution during 1956-57. The work done in respect of these schemes during 1956-57 provided additional irrigation facilities to 21 lakh acres.

The total number of minor irrigation schemes completed upto 1956-57 was 51,212 at a total cost of Rs. 909·38 lakhs benefiting an area of 10,11,860 acres.

Irrigation Projects

Name of Project.	District/Area benefited.	Date begun.	Date for completion.	Total Cost (Rs. in Lakhs.)	Development Expenditure — Five-Years 1951-56 (Rs. in Lakhs)	Area to be irrigated on completion in '000 acres.
300 tube-wells in North Bihar	Champaran, Muzaffarpur, Darbhanga and Saran	1950-51	1955-56	1,83	1,74	120
Tube-wells in South Bihar	Shahabad and Patna	1946-47	....	1,48	85	114
Drainage of chaurs and other small irrigation and flood protection schemes	Patna, Gaya, Shahabad, South Monghyr, Bhagalpur and Santhal Parganas	1948-49	....	3,75	1,18	115
Sakri (Lower Valley) Scheme	Monghyr and Gaya	1948-49	....	35	10	50
Triveni canal extensions	Champaran	1950-51	1955-56	28	23	28
Emergency pumping schemes	Entire State	1951-52	1955-56	93	93	90
Further 300 tube-wells in sugar factory areas	North Bihar	1953-54	1955-56	1,61	1,61	120
Sakri (Upper Valley) irrigation	Gaya	1952-53	1957-58	93	53	60
Further 200 tube-wells in South Bihar	Gaya, Patna, Shahabad, North Bhagalpur and North Monghyr	1952-53	1955-56	98	98	80
Irrigation dams and weirs in hilly districts	Chota Nagpur and Santhal Parganas	1951-52	....	2,00	1,58	75
TOTAL				14,14	9,73	852

Power Projects

Project	Area	Date begun	Date for Completion	Five-Year Cost (Rs in lakhs	Plan Target (kW)
P B E.E.B. scheme in emergency tube-wells irrigation scheme (electrical)	Patna-Barh, Bhaktiarpur, Ekargasaral, Bihta	1949-50	1955-56	79·43	2 700
Dehri-Sasaram lift irrigation and electrification scheme	Dehri-Sasaram and the neighbourhood	1949-50	1955-56	41 51	1 700
Gaya electric supply scheme	Gaya and the neighbourhood	1949-50	1955-56	83 21	950
Hazaribagh electric supply scheme	Hazaribagh and the neighbourhood	1950-51	1955-56	21·23	800
Kodarma and Mica mines electrification scheme	Kodarma and neighbouring mica mines and villages.	1950-51	1955-56	47 92	3 000
Coal mines area electrification scheme	Coal mines area	1951-52	1955-56	15· 50	6 750
Taking over of derelict electric supply undertakings	Sahebganj, Muzaffarpur, Monghyr and Darbhanga	1952-53	1955-56	3 63	3 150
Giridih electric supply scheme	Giridih township and neighbourhood	1950-51	1955-56	18·6	700
Giridih-Madhopur-Jasidih electric supply	Giridih - Madhopur - Jasidih and Deogarh	1952-53	1955-56	34·21	1.150
North Bihar tube-well and electrification scheme	Northern areas of Bihar State	1950-51	1955-56	198·98	4.050
Buxar tube-well and electrification scheme	Buxar and the neighbouring areas	1952-53	1955-56	20·40	525
TOTAL				707 57	25,475

The total connected load of electric energy in 1954 was about 82,000 kW.

The following is a list of Adjustment Schemes under Power Projects, showing the cost within brackets : Electrification of the towns of Katihar, Purnea and en route villages (Rs. 7·68 lakhs); Electrification of Kishunganj town and neighbouring areas (Rs. 4·00 lakhs); Electrification of Saharsa, Madhepura towns and en route villages (Rs. 4·14 lakhs); Loan to Muzaffarpur licensees (Rs. 10 lakhs); Electrification of Bairgania, Sitamarhi, Raxaul and en route villages (Rs. 17·00 lakhs); Utilisation of D.V.C. Powers for supply to Aurangabad, Delhi, Rahhua and Buxar areas (Rs. 60·84 lakhs); Utilisation of D.V.C. Power for supply to Gaya-Patna area (Rs. 76·06 lakhs); Coal mines area electrification (Rs. 16·76 lakhs); Electrification of Sini, Chakradharpur and rural areas in Singhbhum District (Rs. 55·00 lakhs); Electrification of Dumka and adjoining areas (Rs. 6·30 lakhs); Electrification of Jamalpur, Monghyr, Bhagalpur, Sahebganj and adjoining areas (Rs. 14·22 lakhs); Loan to Bhagalpur Electric Supply Co. (Rs. 3·00 lakhs); T.C.A. Schemes 1952 (Rs. 131·06 lakhs); T.C.A. Schemes 1953 (Rs. 6·25 lakhs); T.C.A. Schemes related to the execution of tube-well schemes to cover 385 tube-wells distributed both in South and North Bihar areas.

Electrification scheme as in 1955-56 : Large-scale rural electrification works have already been carried out throughout the State. In South Bihar and Chota Nagpur power availed from D.V.C. and various other sources is distributed over an extensive area. In North Bihar, seven diesel generating stations have been commissioned and four more are under erection with a wide net-work of distribution lines round each. A net-work of 3,000 miles of H.T. and L.T. transmission and distribution lines with 1,500 transformer stations for town and village electrification have been erected. 300 villages have been electrified and power is available in another 1,000 villages for working the tube wells and surface wells.

Area of land reclaimed from 1947-48 to 1953-56 was 2,25,596·55 acres.

LAND TENURE

The land tenure system in Bihar is governed by the following Tenancy Acts : The Bihar Tenancy Act, 1885, The Chota Nagpur Tenancy Act, 1908 and the Santal Parganas Tenancy (Supplementary Provision) Act, 1949. The above Acts protect all types of raiyats against eviction and ensure special privileges to scheduled castes and scheduled tribes against alienation.

The raiyats are classified as raiyats at fixed rents or rates and occupancy raiyats. A very small area is held by non-occupancy raiyats who have no permanent and heritable interest in their holdings. There is also a small number under raiyats having occupancy rights holding of lands both under raiyats at fixed rents and under occupancy raiyats.

The Government of Bihar enacted the Bihar Land Reforms Act, 1950 which provides for the liquidation of Zamindari system in the State.

The Bihar Land Reforms Act, 1950 was put into force with effect from 25th September 1950,

and now all intermediary interests have been acquired by the Government. The Zamindari system in Bihar now stands completely abolished.

It is estimated that now the State would derive a land revenue of Rs. 16 crores per annum which may ultimately increase to Rs. 18 crores.

The Government has laid down a sliding scale for the assessment of compensation. Where the net income does not exceed Rs. 500, the compensation payable is twenty times the net income, and where the net income computed exceeds Rs. 1,00,000 it is payable at three times the amount.

The total compensation is estimated at Rs. 158·24 crores. Provision has been made for the payment of ad interim compensation.

The assessment of compensation for mines and minerals has either to be fixed by agreement or by a tribunal appointed for the purpose.

As for funds to finance compensation, the proposal for Zamindari abolition in Bihar has been drawn up as a self-liquidating scheme. So all the compensation money will be realised from the beneficiaries. The gross rental in the State is estimated at about Rs. 16 crores per annum which is likely to increase at the rate of Rs. 5 lakhs per year as a result of reclamation of waste lands, their development and of the development of forests. It is estimated that during the first eleven months the State may be faced with a deficit.

The amount of compensation will be paid in cash or in bonds or partly in cash and partly in bonds. The bonds will be either negotiable or non-negotiable and non-transferable, and will be payable in forty equal instalments; and carry interest at two and a half per cent per annum with effect from the date of issue.

The total income from the Zamindaris taken over upto 31st March 1954, was Rs. 2,48,52,943.

The maximum rent that a tenant has to pay to the landlord, has been fixed at 35 per cent of the gross produce. The tenant in Bihar has the option to pay rent in cash or kind.

Official statistics show that agricultural production has increased because of the new systems of tenure, the increase being estimated at 722,000 tons at the end of the First Plan As regards the question of land ceilings an official Bill has been stalled at the select committee stage for the last two years owing to the opposition of owners holding between 100 and 1,000 acres.

Consolidation.– As for the fragmentation of holdings, some consolidation is being done in pilot projects, involving 150,000 acres. The final picture is yet to emerge.

The Government has allotted 98,000 acres of waste land to 59,000 families belonging to the Scheduled Castes, Scheduled Tribes and Backward communities. The Government also provides financial and technical resources to these families.

The *Bhoodan* movement has received considerable response in Bihar. To date, more than 2,100,000 acres have been given away. Of these, 229,000 acres have been distributed and 117,562 landless families settled. The Government has confirmed 24,563 *dan patras* under the Bhoodan Act. Bhoodan workers have been carrying out pilot projects for the resettlement of landless agricultural workers and organising distribution in one thana of every district. But it is learnt that 80 per cent. of the land made over to landless families remains fallow because they have not the means to cultivate it.

On account of the worst drought in the State in 1957 a shortage of 325,000 tons in yields that would ordinarily have been harvested between December and March, was anticipated in 1957-58 and it was estimated that the paddy crop would be a mere 35 per cent of the year's average.

Saran, Palamau and Saharasra have been the hardest hit. As much as 85 per cent. of the crops in these areas has been written off. In Purnea, Hazaribagh, Darbhanga and Santhal Parganas, the losses are placed as high as 70 per cent. while as much as 60 per cent. are given up as a total loss in Champaran, Singbhum and Ranchi.

Sahabad, which is irrigated by one of the oldest canals in eastern India, suffered the least. The loss of crops is estimated at 35 per cent. there.

The State Government and millions of peasants did their best in saving as much of the standing crop as they could with the limited sources of irrigation available to them. Pumps, canals and tubewells were worked to capacity and every ounce of water available near the fields was diverted to save the paddy crop.

The Government had collected seeds for the spring crop and provided cash to the peasants who were unable to buy seeds without Government aid.

The estimated loss in yield was maize 10 per cent., autumn paddy 53 per cent., other autumn crops 32 per cent. and main winter paddy 60 per cent. The total deficit in food grains was thus officially estimated at 8,500,000 maunds between December 1957 and March 1958 - that is, till the next spring crop.

CO-OPERATION (1956-57)

Number of Co-operative Societies (as in May 1957): 32,010; Membership: 814,800, Working capital: Rs. 11,68,34,362 (1956); Share capital: Rs. 1,90,19,825; Reserve Fund: Rs. 1,21,64,249.

Types of Co-operative Societies and number of each type: Provincial and Central Banks 52 (1956); other Central Societies 70; total Central Societies 131; Primary Credit Societies with limited liabilities 17; Primary Credit Societies with unlimited liabilities 2,135; multipurpose (1957): 12,173 (registered); 2,979 (converted); Weavers' Co-operative Societies (1957). 341 and 70 sales emporia; Vishwakarma 42 (1957); oilmen's 201 (1957); vegetable growers 82 (1957); fishermen's 63 (1957), primary stores 322, teachers' stores 259; Harijan Co-operative Societies 49 (1957); Cane Marketing unions 71 (1957); Cane Growers' Co-operative Societies 8,057 (1957); Milk Societies: 15 (1957); Industrial Societies other than Vishwakarma Industrial Societies: 19 (1957); Ghee Producers' Societies: 7 (1957); Palm Gur Producers' Societies: 13 (1957); Jute Growers' Societies: 12 (1957); Bidi Workers' Society: 1 (1957); other types including consumers' stores, and Teachers' Co-operative Societies: 756.

Position about multipurpose Societies is as follows: number of members 2,60,245; paid up share Capital Rs. 28,29,562; reserves Rs 14.68,550; loans to financing banks and others Rs. 52,41,537.

Bihar State Co-operative Bank: paid up shares Rs. 44·23 lakhs, deposits Rs. 128·38 lakhs. loans from other sources Rs. 106·67 lakhs. reserves Rs. 16·84 lakhs, working capital Rs. 296·14 lakhs, loans to central banks and societies Rs. 98·30 lakhs.

Position about credit agricole: number of depots 191; Chemical fertilizers sold 21,559 tons worth Rs. 71,61,825 (1955); Oilcakes sold 46,468 mds. worth Rs. 3.71,744 (1955); Iron sold (for manufacture of agricultural implements) 1,938 tons worth Rs. 9,52,400 (1955).

Weavers Societies (1955): Number 165; value of goods produced Rs. 4,18,182; value of goods sold Rs. 6,64,748.

Consumers' Co-operative Stores, number 322. The apex organization of all Co-operative Societies is the Bihar Co-operative Federation, the annual Government grant for which is about Rs. one lakh.

STATE HELP FOR AGRICULTURE

Loans for agriculture, 1954: Rs. 5·38 crores.

Number of experimental farms: 21.

The total number of Government veterinary hospitals in State in 1957 was 12 and the number of veterinary hospitals managed by local bodies in 1957 was 27. Class I veterinary hospitals number 239. Number of mobile veterinary units: 10.

HEALTH SERVICES

The following particulars are for 1956:

Allopathic hospitals 201; Allopathic dispensaries 654; Beds in allopathic hospitals 7,400; Ayurvedic and Unani dispensaries 223 and 11 respectively; T.B. hospitals 4; Mental hospitals 2; Beds in T.B. hospitals 456 and in Mental hospitals 1,380.

Allopathic doctors 5,817 (1956); Nurses 754 (1955); Trained dais in urban and rural areas 43; Compounders 1,908; Ayurvedic and Unani doctors 476; Nurses 276; Compounders in Government employment 239.

Number of Medical Colleges (Allopathic) 2; Government Ayurvedic 1; Private 2; Government Unani 1.

At the end of 1953 there were 766 Hospitals and Dispensaries, out of which 119 were maintained by the State Government and 535 by District Boards.

There were 47 first class medical officers, 584 assistant surgeons, 642 sub-assistant surgeons, 525 nurses, 108 mid-wives, 206 dais.

466 beds in all were available for T.B. patients. There is one sanatorium at Itki, two at Ranchi and a T.B. Centre in Patna. The total number of B.C.G. tests and vaccinations upto March 1956 were 73,19,294 and 33,75,902 respectively.

There is a leprosarium at Brahmbe near Ranchi with a provision for 75 beds.

A separate infectious diseases hospital has been opened in Patna city.

18 malaria control units each covering a population of two million are working at an estimated cost of Rs. 31 lakhs.

There are 20 epidemic doctors and 100 health assistants maintained at the headquarters in addition to 30 doctors and 210 health assistants in the districts.

150 vaccinators are working in a mass vaccination scheme to re-vaccinate the entire adult population at a cost of Rs. 16,000.

Training facilities for M.B.B.S. are available for 160 persons, for nurses 100, mid-wives 40, compounders 400, dressers 60 to 70, operation room assistants 8, dais 200, sanitary inspectors 75, health inspectors between 100 and 120.

LABOUR

Average daily number of workers in registered factories in 1956: 1,70,776; number of factories 5,337.

Number of women in seasonal factories (1953): 1,018; number of women employed in non seasonal factories in 1955: 10,217.

The average annual earnings of factory workers was Rs. 1,423 in 1952. Daily wage of agricultural labourer, Rs. 1·3 in 1949-50.

The following particulars refer to 1953-54:

Industries in which minimum wage is fixed: Agricultural employment; Woollen carpet making and shawl making; Rice, flour, dal and oil milling; Bidi making; Lac manufactories; Road construction and building operation; Stone breaking and stone crushing; Employment in public motor transport; Tanneries and leather manufactories; Mica works; Tea plantations; Employment in local bodies.

Number of strikes: 43 (1956).

Number of lockouts: 6 (1955).

Number of man-days lost: 37,435 (1956).

Number of Disputes settled by conciliation 123 (1955).

Number of awards: 22 (1955).

Important State laws affecting industrial labour: Bihar Maternity Benefit Act, 1947; Bihar Workmen's Protection Act, 1948.

Number of registered trade unions (upto October 1957): 840.

Total membership of trade unions: 262,100 (1956).

Total amount of maternity benefits given to women workers during 1955: Rs. 82,233.

Total amount of compensation paid in 191 fatal cases in 1956: Rs. 3,60,532; in 44 non-fatal cases: Rs. 2,14,499. Compensation paid to temporary employees for injuries in 1956 Rs. 1,58,871.

Number of labour welfare centres: 31 (including six model State welfare centres) (1956-57).

Number of houses built through the Industrial Housing Scheme : 2,213, with the help of loans advanced under the Bihar Industrial Housing Scheme to the Telco (Jamshedpur), Rohtas Industries Ltd. (Dalmianagar), Tata Foundry Co. Ltd. (Tatanagar), S.K.G. Sugar Ltd., Lauriya (Champaran) and Dehri-Rohtas Light Railway (Dalmianagar).

Approximate cost : a little over one crore.

TELCO : 546 houses at a cost Rs. 50 lakhs.

TISCO : 500 houses at a cost Rs. 32 lakhs.

In Sahebganj 108 two-room houses at an approximate cost of Rs. 5 lakhs were built for the workers of Dwarkadas Radhakrishna Oil Mills and Bharatiya Engineering Works Ltd. under the Government of India's Housing Scheme for which the Government advanced a loan of Rs. 5,50,000. The cost was shared between the State Government (one-third) and the Government of India (two-thirds).

Number of factories under purview of Provident Fund Scheme : 168 covering more than 80,000 employees.

Fifteen factories employing 51,510 employees were exempted as they had their own P. F. Scheme.

EDUCATION (1955-56)

On March 31, 1956 there were 29,541 primary schools with 50,000 teachers and about 17 lakhs pupils. The State Government provide free education upto class V of the primary stage. The work of converting lower primary schools into upper primary schools, continues and during 1955-56, 200 lower primary schools were upgraded to upper primary schools.

The percentage of pupils of the age-group 6-11 would be about 30 in 1956-57. Age group 11-14 : 14 per cent.

There are 535 Basic schools, four pre-Basic schools, 14 post-Basic schools, 20 Senior Training schools, three Teachers' Training Colleges and 41 Junior Basic Training schools under Government Management.

There are 435 Basic schools in Community Development and N.E.S. Blocks under the Project administration. 12 post-Basic schools and 129 Basic schools are run by private agencies and they are given grant-in-aid by Government.

Four Shishushalas (Rural Nursery schools) are also being run in Turki-Vaishali area as an experimental measure. A rural institute has also been set up to impart higher rural education at the University stage to boys who have completed the post-Basic stage.

These converted primary and basic schools would be managed directly by Government.

The number of teachers employed in High, Middle and Basic schools is about seven lakhs.

There are 960 high schools. There are seven lakh pupils in all types of secondary schools.

There is now a School Examination Board to conduct the Secondary School Examination, and also a Board of Secondary Education.

Compulsory primary education is in force in the municipal (urban) areas of 17 towns and in one rural area.

Students are taught through the medium of regional languages upto III class. Hindi as compulsory language begins in class IV. From class VI onwards all non-language subjects are taught in Hindi. English as compulsory starts in class VIII.

Number of literates according to 1951 census. 12·83 per cent of the total population.

BUDGET 1958-59

Income : Rs. 1,02,65 lakhs.
Expenditure : Rs. 1,03,22 lakhs.
Deficit : Rs. 57 lakhs.

TRANSFERRED TERRITORY

The percentage of population transferred from Bihar to W. Bengal under the States re-organization scheme was 3·60.

The percentage of population transferred from Manbhum (excluding Dhanbad) to W. Bengal in relation to its original population was 75·54.

The percentage of population transferred from Purnea in relation to its original population was 10·98.

The total area and population transferred from Manbhum :

2,407 sq miles ; 11,69,097

The total area and population transferred from Purnea :

759, sq. miles ; 2,77,288.

The total area and population transferred from Bihar :

3,166 sq. miles ; 1,446 385.

While practically the whole of the former Purulia sub-division was transferred in the south, in the north the following areas were transferred from Purnea Dt : Thakurganj, Chopra, Islampur, Kishenganj, Goal Pokhar, Karandighi.

Singhbhum Dt. was reconstituted with the addition of Patamda, Chandil, Ichagarh.

Dhanbad Dt. was reconstituted with the addition of Chas and Chandankiary.

POPULATION

	Total	Males	Females	Rural	Urban
Bihar	38,779,562	—	—	—	—
1. Patna	2,528,272	1,297,266	1,231,006	2,070,478	457,794
2. Gaya	3,070,499	1,535,362	1,535,137	2,853,807	216,692
3. Shahabad	2,688,440	1,358,443	1,329,997	2,507,861	180,579
4. Saran	3,155,144	1,501,253	1,653,891	3,028,986	126,158
5. Champaran	2,515,343	1,267,406	1,247,937	2,410,483	104,860
6. Muzaffarpur	3,520,739	1,730,750	1,789,989	3,385,043	135,696
7. Darbhanga	3,769,534	1,844,201	1,925,333	3,609,443	160,091
8. Monghyr	2,849,127	1,434,824	1,414,303	2,582,010	267,117
9. Bhagalpur	1,429,069	728,681	700,388	1,307,024	122,045
10. Saharsa	1,308,148	672,677	635,521	1,308,198	..
11. Purnea	2,247,943	..	..	..	..
12. Santhal Parganas ..	2,322,042	1,172,594	1,149,498	2,225,312	96,780
13. Hazari Bagh	1,937,210	981,264	955,946	1,804,084	133,126
14. Ranchi	1,861,207	938,255	922,952	1,736,162	125,045
15. Dhanbad	905 783	—	—	—	—
16. Palamau	985,767	498,564	487,203	348,760	37,007
17. Singhbhum	1 685,195	—	—	—	—

Names of the Districts with the names of the taluks, area in sq. miles and their population respectively within brackets : Patna District (Patna city : 30 ; 161,870 . Patna Sadar : 295 ; 466,450 ; Dinapur . 437 ; 533,552 . Barh : 532 ; 532,010) ; Bihar : 782 ; 844 380) ; Gaya District (Sadar : 1,911 ; 1,178,030 . Nawada : 901 ; 613,724 ; Jahanabad . 607 ; 582,567 . Aurangabad : 1,270 ; 666,115) ; Shahabad District (Sadar : 920 ; 885,270 ; Buxar . 683 ; 536,734 ; Sasaram ; 1,483 ; 826,728 ; Bhabua : 1,237 ; 440,138) ; Saran District (Sadar : 1,043 ; 1,256,306 ; Siwan : 849 ; 1,075,948 ; Gopalganj : 756 ; 822,854) ; Champaran District (Sadar : 1,528 ; 1,443,961 ; Bettiah : 1,997 ; 1,071,382) ; Muzaffarpur District (Sitamarhi . 1,007 ; 1,201,086 ; Sadar : 1,222 ; 1,377,181 ; Hajipur : 786 ; 942,472) ; Darbhanga District (Madhubani : 1,504 ; 1,361,699 ; Sadar : 880 ; 1,078,099 ; Samastipur : 1,126 ; 1,329,746) ; Monghyr District (Khagaria : 757 ; 584,902 ; Begusaria : 415 ; 793,942 ; Sadar : 1,168 ; 937,204 ; Jamui : 1,303 ; 553,079) ; Bhagalpur District Sadar : 992 ; 841,309 ; Banka : 1,194 ; 587,760) ; Saharsa District (Supaul : 987 ; 431,547 ; Madhepura : 1,156 ; 876,651) ; Purnea District (Agraria : 901 ; 537,600 ; Kishnanganj : 1,332 ; 560,503(b) ; Sadar : 2,562 ; 1,427,128) ; Santhal Parganas District (Deoghar : 951 ; 422,824 ; Dumka : 1,474 ; 537,200 ; Godda : 854 ; 447,970 ; Jamtara : 760 ; 290,056 ; Rajmahal : 846 ; 346,615 ; Pakur : 699 ; 277,421) ; Hazaribagh District (Sadar : 3,404 ; 974 494 , Chatra : 1,544 ; 262 514 , Giridih : 2,046 ; 700,202) ; Ranchi District (Sadar : 2,069 , 744,423 ; Khunti : 1 545 , 412,950 ; Gumla : 2,056 ; 421,922 ; Simdega : 1,247 ; 281,912) , Dhanbad District (730 ; 731,700(a)) ; Palamau District (Sadar . 3,250 ; 784,207 ; Latehar : 1,671 ; 201,560) ; Singhbhum District (Sadar : 2,718 ; 667,390 ; Dhalbhum . 1,167 ; 613 504 ; Seraikela : 500 ; 199,922).

(a) This excludes Patamda, Chandil and Chas thanas (b) This includes portion now tranferred to West Bengal

BIHAR UNIVERSITY

Patna-4.
Founded 1952.

Chancellor, Dr. Zakir Hussain, M.A Ph.D.

Vice-Chancellor, Dr. Dukhan Ram, B.Sc , M.B (Cal) , D.L.O , D.O.M.S (Lond)

Treasurer, Rameshwar Prasad Singh, B.A., M.L.C.

Registrar, Pinak Pani Roy Choudhury, B.Sc.

Controller of Examinations, Amarendra Narayan, M.Sc.

Inspectors of Colleges, Phuldeo Sahay Varma, M Sc. ; Biman Bihari Majumdar, M A., Ph D., P.R S.

Asstt. Registrar, Dinesh Prasad Verma, M.A.

The Bihar University is a teaching-cum-affiliating University.

Provision for teaching up to the Post-graduate standard has been made in the following subjects: English, Hindi, History, Economics, Political Science, Geography, Physics, Chemistry, Psychology, Philosophy, Sanskrit, Anthropology, Sociology, Rural Economics and Co-operation, Commerce, Botany, Zoology and Mathematics. Scholars work under Professors and submit their thesis for research degrees.

Number of colleges affiliated . Constituent Colleges : 2 ; Affiliated Colleges : 70.
Number of students : 51,377
Income (1957-58 budget estimates): Rs. 1,10,93,717.
Expenditure : Rs 1,14,58,478.
Grant from the State Government: Recurring Rs. 40,44,685 ; Non-recurring Rs. 38,67,000

Colleges : (*A*) *Constituent Colleges :* Langat Singh College, Muzaffarpur ; Ranchi College, Ranchi ; T. N. J. College, Bhagalpur (only the University Department). (*B*) *Affiliated Colleges*—(i) *Technical and Professional Colleges :* Bihar Agricultural College, Sabour (Bhagalpur) ; Bihar Institute of Technology, P.O. Sindri Institute (Manbhum) ; Bihar Veterinary College, P.O. Veterinary College, Patna ; Birla Institute of Technology, Post Box No. 61, Mesra, Ranchi ; Chotanagpur Law College, Ranchi ; Darbhanga Medical College, Darbhanga ; Indian School of Mines and Applied

Geology, Dhanbad; Muzaffarpur Institute of Technology, Muzaffarpur; Ranchi Agricultural College, Kanke (Ranchi); S. K. J. Law College, Muzaffarpur. (ii) *Other Colleges* A.N.S. College, Barh (Patna); Basudevachari College, Naubatpur (Patna); M.J.K. College, Bettiah (Champaran); Bindeshwar Singh College, Dinapore (Patna); Chandradhari Mithila College, Darbhanga (*also teaching Law*); College of Commerce, Patna; D. A. V. College, Siwan (Saran); Deoghar College, Deoghar (S.P.); D. K. College, Dumri (Shahabad); Darshan Shan College, Katihar (Purnea); Gaya College, Gaya; Ganesh Dutta College, Begusarai (Monghyr); Ganesh Lal Agarwal College, Daltonganj (Palamau); Giridhih College, Giridih (Hazaribagh); Godda College, Godda (S.P.), Gopalganj College, Gopalganj (Saran); Gopeshwar College, Hathwa (Saran); Gorelal Mehta College, Banmankhi (Purnea); H. D. Jain College, Arrah; Harihar Saha College, Kishunganj, P.O. Uda-Kishunganj (Saharsa); Jagdam College, Chapra; Jai Prakash College, Narainpur (Bhagalpur); Jayaprakash Mahila Mahavidyalaya, Chapra; Jamshedpur Co-operative College, Jamshedpur; K. K. Memorial College, Jamui (Monghyr); Koshi College, Khagaria (Monghyr); Kabir Moti Darshan College, Parbatta (Monghyr); Kanhai Lal Sahu College, Nawadah (Gaya); M.D.D. Mahila College, Muzaffarpur; Marwari College, Bhagalpur; Musshi Singh College, Motihari; Maharaja Ram Rauvijoy Pd. Singh College, Arrah; Millat College, Darbhanga; Murarka College, Sultanganj, Bhagalpur; Nalanda College, Biharshariff (Patna); Purnea College, Purnea; R. D. & D. J. College, Monghyr; Rajendra College, Chapra; Ram Dayalu Singh College, Muzaffarpur; Ram Krishna College, Madhubani (Darbhanga); Ranchi Women's College, Ranchi; Raja Sahib Prasad College, Jharia (Manbhum); Rajnarain College, Hajipur (Muzaffarpur); S.R. K. Goenka College, Sitamarhi (Muzaffarpur); S. Sinha College, Aurangabad (Gaya); Samastipur College, Samastipur (Darbhanga); St. Columba's College, Hazaribagh; St. Xavier's College, Ranchi; S. Mahila Mahavidyalaya, Bhagalpur; Sahebganj College, Sahebganj (S.P.); Saharsa College, Saharsa; Santal Parganas College, Dumka; Shanti Prasad Jain College, Sasaram (Shahabad); Shrikrishna Ramruchi College, Barbigha (Monghyr); Swami Sahajanand College, Jehanabad, Gaya; Sardar Vallabhbhai Patel College, Bhabua (Shahabad); Shrichand Udasin College, Hilsa (Patna); T. N. J. College, Bhagalpur (*also teaching Law*); Tata College, Chaibasa; Thakur Prasad College, Madhepura (Saharsa).

PATNA UNIVERSITY

Patna 5.

Chancellor: Dr. Zakir Husain, M.A., Ph.D. Governor of Bihar.

Vice-Chancellor: Dr. Balbhadra Prasad,, D.Sc. (Lond.).

Treasurer: Ram Charitra Singh, M.Sc.

Registrar: Jagatnandan Sahay, M.A. (Pat.), T.D. (Lond.).

Deans of the Faculties: Arts, Dr. K. K. Datta; *Science*, Dr. N. S. Nagendranath; *Law*, V. V. Deshpande; *Education*, Rameshwar Prasad; *Medicine*, Dr. Gaya Prasad; *Engineering*, N. N. G. Dastidar; *Commerce*, Dr. B. R. Misra.

Constituent Colleges, University Departments and Institutes of the University: Colleges: Patna College; Science College; Bihar National College; Bihar College of Engineering; Prince of Wales Medical College; Patna Law College; Patna Training College; Patna Women's College; Magadh Mahila College; Women's Training College.

University Departments: Ancient Indian History and Culture; Bengali; Botany; Chemistry; Applied Economics and Commerce; Economics; Education; English; Psychology; Geography; Geology; Hindi; History; Labour and Social Welfare; Mathematics; Philosophy; Physics; Political Science; Sanskirt; Sociology; Statistics; Urdu; Arabic; Persian; Zoology; Maithili; Anatomy; Physiology; Pharmacology; Pathology; Medicine; Surgery; Obstetrics and Gynaecology; Ophthalmology and Otorhinolaryngology.

Institutes: Institute of Psychological Research & Services; Institute of Public Administration; Institute of Music.

Number of teachers in the University: 464.

Number of students in the University: 9,437 (Men 7,867; Women 1,570).

BUDGET 1956-57

Income: Rs. 1,28,94,019. (This includes income from Government.) Recurring. Rs. 89,88,716 and non-recurring Rs. 39,05,303.

Expenditure: Rs. 1,33,67,874.

ASSOCIATIONS, INSTITUTIONS

SARVODAYA SAMAJ

(Khadigram, Monghyr)

The Samaj is not an organization in the accepted sense of the term. After the death of Mahatma Gandhi constructive workers from all over India met in a conference in March 1948 at Sevagram in Wardha. They decided to form a voluntary brotherhood of all who believe in the ideal of truth and non-violence.

The Secretary of the Samaj is Mr. Vallabh Swami, and there is a register of those who have declared their faith in Sarvodaya.

The Samaj has, however, an executive organ, the Sarva Seva Sangh with principal Centre at Khadigram, Monghyr.

The word 'Sarvodaya' was popularised by Mahatma Gandhi. He gave the name 'sarvodaya' to his Gujarati translation of Ruskin's 'UNTO THIS LAST.' In the preface to this book he writes: "The object of this book is to plead for the rise of all. I, therefore, gave it the name, 'Sarvodaya'".

The term Sarvodaya thus stands for the good of all, and is the name given collectively to the ideas and teachings of Mahatma Gandhi.

More specifically, Sarvodaya strives towards a social order based on Truth and Non-violence, in which there will be no distinction of class or creed, no exploitation of any kind, offering full scope for the development of the individuals as well as groups.

It insists on the purity of the means as that of the ends.

For the achievement of the aim, the following programme is followed:

Communal harmony (fellowship between followers of different faiths and sects); Removal of untouchability; Abolition of class distinctions, Prohibition; Promotion of khadi and other home industries; Village sanitation; Basic Education; Equality of status and rights for both men and women; Health and hygiene; Development of provincial languages; Removal of provincialism; Propagation of Hindustani as the national language; Economic equality; Development of agriculture; Organization of labour; Welfare of aboriginals; Organization of students; Service of leprosy patients; Relief-work; Cow protection; Naturopathy.

Whoever accepts the above aim and the basic principle and endeavours to follow them is eligible for the brotherhood of the Samaj. On sending his or her name and address to the Secretary of the Sarvodaya Samaj, Khadigram, Monghyr, Bihar, he or she will be registered as a "Sevak".

The 30th January of every year when Mahatma Gandhi passed away is observed at all places as Sarvodaya day.

On 12th February every year, fairs are organized at places where the Mahatma's ashes were immersed.

To facilitate mutual contact and exchange of views among the Sevaks Sarvodaya melas and Sammelans are held.

The deliberations of the Samaj are of an advisory nature and not mandatory in any way.

BHAGALPUR LITERARY & SCIENTIFIC INSTITUTE

Cleveland Road, Bhagalpur.

THE BIHAR CHAMBER OF COMMERCE (Estd. 1926).

Judges' Court Road, P.O. Box No. 71, Patna 1.

Representative organisation of the industries, trade and commerce of Bihar—stands to promote and safeguard the industrial and commercial interests of the State. Membership open to commercial and industrial companies and persons interested in trade, commerce and industry—given seats in University Senate, Railway and other Advisory Committees and other local bodies.

President: Harak Chand Jain.

Hon. Secretary: Dwarka Prasad Ojha.

BIHAR HARIJAN SEVAK SANGH

Annie Besant Road, Patna-4.

President: Acharya Badrinath Varma.

Secretary: Nagendra Narayan Sinha.

BIHAR INDUSTRIES ASSOCIATION

"Hassan Manzil," Fraser Road, Patna-1.

President: Shanti Prasad Jain.

Jasidih-Chairman, Gauri Shanker Dalmia, M.L.C.

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EASTERN ZONE MINING ASSOCIATION

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GOVERNMENT COTTAGE INDUSTRIES INSTITUTE

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Supdt: R. N. Banerjee.

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INDIAN COLLIERY OWNERS ASSOCIATION
I.C.O. Association Road, P.O. Box No. 70, P. O. Dhanbad, Dist. Dhanbad.

INDIAN CONFERENCE OF SOCIAL WORK
Bihar State Branch, Annie Besant Road, Patna 4.
President : **Pandit Binodanand Jha.**
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INDIAN SUGAR MILLS ASSOCIATION, BIHAR BRANCH
"Hasan Manzil," Fraser Road, Patna 1.

INSTITUTE OF POST GRADUATE STUDIES AND RESEARCH IN PRAKRIT, JAINOLOGY AND AHIMSA (PRAKRIT JAIN INSTITUTE)
Muzaffarpur.
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KISHORE-DAL
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An organisation for children.
Gen. Secretary : Mrs. K. N. Begam.

KODARMA MICA MINING ASSOCIATION
P.O. Kodarma, Hazaribagh (Bihar), E. Railway
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MANDAR VIDYAPITH
P.O. Mandar Vidyapith, Via. Barahat, Dist Bhagalpur.
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Darbhanga.
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Director : Dr. S. Mookerjee.
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PATNA MUSEUM
Patna.
Curator : S. A. Shere.

PATNA POLYTECHNIC
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Principal : Dr. S. M. Prasad, M.Sc., Ph.D. (Leeds).

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Ranchi.
Started in 1917. Imparts academical and spiritual education, and also teaches Yogic lessons. It is conducted by the Yogoda Sat-Sangha Society which has its headquarter at Dakshineswar, Calcutta. Yogoda Sat-Sanga Seva Ashram at Ranchia is a subsidiary institution of the Society.
Secretary : Swami Satchidananda Giri.

ADMINISTRATIVE PERSONNEL
(*See under 'Administrative Personnel of States'*)

BIHAR LEGISLATIVE COUNCIL
(*See under 'General Elections'*)

BIHAR LEGISLATIVE ASSEMBLY
(*See under 'General Elections'*)

BOMBAY STATE

For ' Administrative Personnel ' see under article ' States Administrative Personnel '. For membership of State legislature see under article 'General Elections.'

Area : 190,832.*

Population : 48,264,622.*

Capital : Bombay.

Districts : The districts given below are grouped according to the six Administrative Divisions into which the State is broken up. The district headquarters are given in brackets after the name of the District :

Ahmedabad Division (Ahmedabad) : Ahmedabad (Ahmedabad), Banaskantha (Palanpur), Baroda (Baroda), Broach (Broach), Kaira (Kaira, Nadiad), Mehsana (Mehsana), Panch Mahals (Godhra), Sabarkantha (Himatnagar).

Aurangabad Division (Aurangabad) : Aurangabad (Aurangabad), Bhir (Bhir), East Khandesh (Jalgaon), Nanded (Nanded), Osmanabad (Osmanabad), Parbhani (Parbhani).

Bombay Division (Mulund, Bombay) : Dangs (Ahwa), Greater Bombay (Bombay), Kolaba (Alibag), Nasik (Nasik), Ratnagiri (Ratnagiri), Surat (Surat), Thana (Thana), West Khandesh (Dhulia).

Nagpur Division (Nagpur) : Akola (Akola), Amaravati (Amaravati), Bhandara (Bhandara), Buldana (Buldana), Chanda (Chanda), Nagpur (Nagpur), Wardha (Wardha), Yeotmal (Yeotmal).

Poona Division (Poona) : Ahmednagar (Ahmednagar), Kolhapur (Kolhapur), Poona (Poona), Satara North (Satara), Satara South (Sangli), Sholapur (Sholapur).

Rajkot Division (Rajkot) : Amreli (Amreli), Gohilwad (Palitana), Halar (Jamnagar), Kutch (Bhuj), Madhya Saurashtra (Rajkot), Sorath (Junagadh), Zalawad (Surendranagar).

The five constituent units of the new Bombay State are Kutch, Saurashtra, Marathawada (roughly the Marathi-speaking Districts of the former Hyderabad), Vidarbha (roughly the Marathi-speaking Districts of the former Madhya Pradesh) and the residuary Bombay State (that is, the former Bombay State bereft of the Karnatak Districts).

The area and the population (in thousands) of these constituent units are given below :

Kutch : 16,724 sq. miles ; 568,000. Saurashtra : 21,451 sq. miles ; 4,137,000. Bombay (residuary) : 90,123 sq. miles ; 30,768,000. Marathwada : 25,694 sq. miles ; 5,185,000. Vidarbha : 36,880 sq. miles ; 7,607,000.

Some other census relating to Bombay State :

Density : 15 per cent ; Rural population : 72·1 per cent ; Urban population : 27·9 per cent ; Agricultural population : 62 5 per cent.

Area under cultivation : 55 per cent of the total area ; Per capita area under cultivation : 1·38 acres ; Area under food crops : 68·2 per cent of the total cultivated area ; Area irrigated : 5·6 per cent of the total cultivated area : Area under forests : 14·5 per cent of the total area of the State.

Bombay State now bulks larger in the size and economy of the country than before 1st Nov. 1956.

The area is 15 per cent of that of the Indian Union and the population 13·4 per cent.

The value of its annual textile production is about 70 per cent of that of the country and the number of persons employed in the industry 67 per cent of the number employed in the country as a whole.

It has 37·7 per cent of the area in India under ground nut, and 50 per cent of the area in India under cotton.

Of the manganese ore produced in India 21·1 per cent would be mined in this State.

The installed capacity of electrical energy in the new State is about 27·7 per cent of the installed capacity of the country as a whole, and the amount of electricity generated about 39·8 per cent.

The number of motor vehicles is 26·2 per cent of the country as a whole.

The State has 22·6 per cent of the total Indian student population.

POLITICAL SET-UP

The State has 43 Districts. All the Districts are territorially compact except two—Amreli and Nanded. Amreli is broken up into eight parts separate from one another all in the Kathiawad peninsula, while Nanded has Rajura and Kinwat Taluks (former Hyderabad State) which is separated from the main body of the District by Yeotmal.

Each of the six Administrative Divisions has a Divisional Commissioner.

The State is a member of the Western Zonal Council, the other member of which is Mysore.

The Bombay Secretariat has eleven Departments :

The Political and Services Department, Home Department, Revenue Department, Agriculture and Forests Department, Education Department, Local Self Government & Public Health Department, Finance Department, Public Works Department, Legal Department, Industries & Co-operation Department, Labour & Social Welfare Department.

The total number of officers in the I.A.S. Cadre has been tentatively fixed at 180 and of the I.P.S. at 128.

The strength of the Legislative Assembly is 396 and of the Council 108†. The State sends 66 members to the Lok Sabha and 27 to the Rajya Sabha.

GEOGRAPHY

The State embraces a wide diversity of soil, climate and people. In the residuary area of the former Bombay State there are the rich plains of Gujarat, watered by the Narmada and the Tapti, whose fertility is so marked that it has long been known as the Garden of India.

South of Bombay City the State is divided into two sections by the Western Ghats, a range of hills running parallel to the coast. Beyond the Ghats are the Deccan Districts ; on the sea side is the Konkan, a rice-growing tract, intercepted by creeks which make communication difficult.

The rainfall of the State is derived chiefly from the south-west monsoon between June and October. The amount of rainfall varies widely in different areas from 20" to about 250".

The population varies as markedly as soil and climate. The people of Gujarat although softened by prosperity, are among the keenest trading races in the world. The Deccan peasant has been seasoned by adversity ; the saying goes that the Deccan expects a famine one year in every three, and gets it.

Hindi in the Devanagari script is recognized by the Government as one of the regional languages of the State.

The principal occupation is agriculture, which supports sixty-four per cent of the population. In Gujarat the soils are of two classes, the black cotton soil, which yields the famous Broach cottons, the finest in India, and alluvial, which under careful cultivation in Ahmedabad and Kaira, makes splendid garden land.

The dominant soil characteristic of the Deccan is black soil, which produces cotton, wheat, gram and millet, and in certain tracts rich crops of sugar-cane.

The Konkan is a rice land, where the crop is grown under the abundant rains of the submontane regions.

There are no great perennial rivers suitable for irrigation, and the harvest is largely dependent upon the seasonal rainfall, supplemented by well irrigation. A chain of irrigation works, consisting of canals fed from great reservoirs in the region of unfailing rainfall in the Ghats, is gradually nearing completion, and this will ultimately make the Deccan immune to serious drought.

The territory covered by the former Saurashtra State stands boldly out into the Arabian Sea between Kutch and the Gujarat Coast.

Saurashtra's physical features suggest it may once have been an island or a group of islands of volcanic origin. The surface of Saurashtra is for the most part undulating with low ranges of hills running in very irregular directions. With the exception of the Thanga and Mandav hills, in the west of Jhalawar, and some unimportant hills in Halar the northern portion of the country is flat. But in the south from the neighbourhood of Gogha, the Gir range runs nearly parallel with the coast and at a distance of about 20 miles from it, along the north of Babariawad and Sorath to the neighbourhood of Girnar. The principal river is the Bhadar which rises in the Mandav hills and, flowing south-west, falls into the sea at Navibandar after a course of about 110 miles, everywhere marked by highly cultivated lands bordering its course. Other rivers in the area are Mauj, Machhu, Ozat and Shetrunji, the last remarkable for wild and romantic scenery There are a number of salt-water creeks. The area has a 600-mile coast line and a number of ports : Bedi Bunder, Navlakhi, Bhavnagar, Porbandar and Sica. Of these the first and chief port in the matter of import traffic from Europe is Navlakhi.

The area has a variety of minerals : sand stone pottery, clay, iron slags, moulding sand, chandani, bhutdo, black stone, white chalk stone, marble, lime-stone, clippings, white clay building stone and toad.

All the forests here are situated in one District Sorath. In addition there are a number of mangrove forests along the sea coasts. The main species of wood in the inland forests is teak. Others are sawar, tanach, sadado, bliokalam and haladvan.

The adjoining area of Kutch has good cultivable land, the principal crops being bajra, wheat barley and cotton. Irrigation is well developed The area is also rich in such deposits as gypsum clays, lime-stone and even larger deposits o

* Note that there is a small difference in the figures relating to area and population as published by the Government of India and the Government of Bombay. These are the Bombay Government figures.

† Originally it was fixed at 72.

lignite, alum, marble and ochres. The main occupation of the people apart from agriculture is embroidery and silver work. The Kutchis are an enterprising people. It is estimated that over six lakhs of them are in trade and industry in the cities of India or abroad. Kutch exports salt, cotton, wool, castor seeds and fish and imports foodgrains and cloth. The chief means of communication are the sea; and Kandla port which is now open is one of the major ports of India.

The south-eastern part of Bombay State is made up of Marathawada formerly in Hyderabad State. It is covered by trappean rock or black cotton soil and the chief produce is wheat and cotton. Part of it is hilly and covered by luxurious vegetation, but the forests have little economic value. The soil is very rich and advantage is taken of the water obtainable from rivers and wells to grow garden crops which are more profitable. Only two crops are raised during the rains. The kharif crops are yellow jawar, bajra, cotton, sana, kodru, til, toor and kulthi, the rabi crops are cotton, white jawar, chenna, karad, wheat, linseed, chillies, sugarcane and tobacco. There is in this area no wet cultivation.

There are cotton ginning and pressing factories in Aurangabad, Parbhani, Nanded and Bhir, and cotton mills in Nanded and Aurangabad.

In the far east of the State are the Nagpur, Wardha, Chanda and the Berar Districts. This is on the whole, rich agricultural land supported by industry and well provided with transport facilities and electric power.

The Nagpur plain and the Berar constitute with their black soil one of the richest cotton-growing areas in the country. The food crops are rice in Nagpur and jawar in Berar. The south-east is covered with forests where many jungle tribes live.

Cotton is the most important cash crop of which over ten lakh bales are produced every year. Out of this a quarter is consumed in the local mills and the rest is exported. Most of the cultivated area is under medium staple cottons like buri, cambodia, jarilla and veram and the rest under comra cotton.

The orange crop of Nagpur is notable. The Nagpur orange has the reputation of being among the most delicious and finds a ready market all over the country. Over a lakh ton of the fruit is produced annually valued at about Rs. 2·5 crores. There are two crops, winter and summer though the supply is continuous from September to the end of May.

Among the mineral deposits are coal and manganese. The reserves of coal in the Wardha valley (part of which lies in Madhya Pradesh) are estimated at 4,000 million tons. The manganese deposits chiefly in Nagpur and Bhandara are reckoned among the finest in the world. The reserves of higher grade ores are estimated at around 10 million tons.

The chief industry is, of course, the textile mill industry. But there are also glass, and soap factories and oil mills. Some lac is produced in Chanda.

There are about ten spinning and weaving mills in Nagpur, Hinganghat, Akola, Pulgaon, Badnera and Ellichpur. Some spin mostly coarse counts of yarn, the chief market for which is the handloom industry. Most of the producing units are medium-sized. There are over 400 cotton ginning and pressing factories. The increasing popularity of small-scale power looms is a significant feature of the textile industry. There are over 800 power looms operating in small weaving factories and cottages.

Bee-keeping is a popular cottage industry particularly in Nagpur, Wardha and Akola.

Electric power which is mostly of the thermal variety is well developed and covers by means of a grid a whole area from Akola to Chanda.

Road and railway communications are good except in the Chanda District.

ECONOMY

Bombay is a highly urbanized State. There are eleven cities with a population of a lakh and over in the State and a total population of 57·8 lakhs.

The State now accounts for the largest handling of the foreign trade of India about 41 per cent—53 per cent of the imports and 29 per cent of the exports.

Apart from the production of commercial raw materials, and the growth and development of foreign trade, the industrial environment in Bombay State has also been helped by development of means of communications and transport, generation and supply of electrical energy and growth and development of financial institutions as well as private enterprise.

The route mileage of railways located in Bombay State may be estimated at 5,962 miles. For every hundred sq miles area, Bombay State has railway routes of about 3·3 miles compared to the all-India average of 2·9 miles.

The State has a road route mileage of 36,050 of which 18,895 are metalled roads and 17,155 are unmetalled roads.

As it is, Bombay State accounts for 2·3 billion units or over a third of the electrical energy generated in the country of about 6 billion units at the end of the First Five-Year Plan. The supply of electrical energy in the State at the end of the Second Five-Year Plan will be considerably augmented by the Koyna Project, the Trombay extensions, the Koyna-Shedapur transmissions, the Vidarbha Grid Schemes, the North and South Gujarat Grid Schemes as well as by the Saurashtra Electricity Board's schemes.

When completed the schemes will add 30 per cent. to the present supply, and the State will still have the highest power resources of all the States in the country.

Of the 5,140 banking offices in the country opened according to the importance of business done, 1,290 or nearly one fourth are in Bombay State and considering the paid up capital and reserves and corresponding deposits, it may be estimated that these do over one-third of the country's banking business.

Insurance statistics are not available State-wise, but considering the transactions of one of the old major insurance companies doing business throughout India, it may be stated that nearly 40 per cent of the insurance business of the country is being done in Bombay State.

It may be estimated that the national income of Bombay State, as a part of the national income of India as a whole would be round about Rs. 2,000 crores or 20 per cent with a population share of 13·5 per cent of the all-India total.

Banks and their offices in this State account for 35 per cent of their resources in India as a whole and 40 per cent of the insurance business of the country is being transacted in this State.

The establishments registered under the Factories Act in this State employ about 10 lakh workers or nearly 40 per cent of the workers in the country.

A balance-sheet of the gain and loss through the reorganization of 1st Nov. 1956 would go somewhat like this:

In the case of the following industries there has been a substantial addition to the productive capacity: salt, vanaspati, cement, cotton textiles and sugar.

Bombay has lost the Bagalkot Cement Company. But this is more than compensated by the addition of the Saurashtra cement companies.

With the addition of Saurashtra and Vidarbha textile mills, there will be 179 composite cotton mills in Bombay State out of the total of 291 in the country as a whole. These mills will produce 3,468 million yards or about 70 per cent. of the mill cloth produced in the country.

Vidarbha and Saurashtra will also substantially add to the raw cotton production which will increase to 21·4 lakh bales or two-thirds of that produced in the country as a whole.

At present 10 per cent. of the sugar produced in India is produced in Bombay State.

With the addition of cement, gypsum, manganese ore, bauxite and China clay Bombay will have a more diversified and variegated industrial outlook.

The Government has established a mineral department at Nagpur for the growth and development of the minerals.

It will be possible to develop the manganese ore industry in the State which accounts for about a third of the manganese ore production of the country. Most of the manganese ore produced at present, about 4 lakh tons, is exported in its raw form.

For the first time in its history, Bombay State will also be a producer of coal, though the all-India importance is negligible.

It is quite possible that oil may be struck in northern Gujarat, Saurashtra and Kutch and explorations and experiments in this direction are being conducted.

The State produces about 40 per cent. of the groundnut of the country as a whole and it is possible that industries producing edible oil as well as Vanaspati can develop more than they have done hitherto.

PRODUCTIVE CAPACITY

The table below gives the rated productive capacity of the more important industries in Bombay State at the end of 1955-56:

1	Bicycles No (thousands)	100
2	Electric Transformers No KVs (thousands)	264
3.	Electric Motors H.P. (thousands)	124
4	Electric Fans (thousands)	66
5	G L S. Bulbs (Million)	5·4
6	Dry Battery Cells (Million)	52
7	Radio Receivers (000s)	84
8.	Sulphuric Acid (000 tons)	58
9	Salt (lakh maunds)	529
10	Sugar (000 tons of cane crushed per day)	13·5
11	Vanaspati (thousand tons)	166
12	Biscuits (thousand tons)	10·6
13	Confectionery (thousand tons)	12
14	Soda Ash (000 tons)	77
15.	Improved Ag Implements (Steel and Iron) (000s)	4·5
16	Power Driven Ag. Pumps (000s)	35
17	Diesel Engines (000s)	12·7
18.	Phosphatic Fertilisers (000 tons)	70
19	Dye stuff (Million lbs)	6·0
20	Starch (000 tons)	47
21	Plastic Moulding Power (tons)	1,182
22	Paints and Varnishes (000 tons)	20
23.	Soap Organised factories only (000 tons)	91
24	Vegetable Tanning (000 tons)	131
25.	Chrome tanning (000 tons)	86
26.	Paper and Paper Board excluding newsprints (000 tons)	12
27.	Cement (000 tons)	792
28	Glass (000 tons)	51
29.	Refinery — Crude Petroleum (Million tons)	3·2
30.	Cotton Textiles	
	(a) Spindles (No. 000)	7,000
	(b) Looms (No. 000)	143
	(c) Mills Composite (No.)	174
31.	Spindling	22
32.	Cloth (Million yards)	3,468
	Yarn (Million lbs.)	867

1. AREA AND POPULATION

Below we give statistical tables on a number of subjects relating to Bombay State.

	Bombay State	ADMINISTRATIVE DIVISIONS					
		Rajkot	Ahmedabad	Bombay	Poona	Aurangabad	Nagpur
1. Area (in square miles) ..	190,832	30,809	26,699	28,325	28,930	30,189	36,880
2. Number of towns	625	105	120	111	124	90	75
3. Number of villages	54,281	5,651	10,634	10,358	6,460	8,730	12,448
Population (Figs in thousands)							
Rural Population — Total ..	34,615	3,429	6,772	6,857	6,106	5,480	5,971
Males ..	17,415	1,733	3,477	3,360	3,067	2,776	3,002
Females ..	17,200	1,696	3,295	3,497	3,039	2,704	2,969
Urban Population— Total ..	13,650	1,593	2,427	4,573	2,245	1,170	1,636
Males ..	7,407	795	1,301	2,686	1,175	65	845
Females ..	6,243	798	1,126	1,887	1,070	571	791
Total Population (1951)	48,265	5,022	9,199	11,430	8,351	6,656	7,607

Source : Census of India, 1951.

2. TOWNS AND VILLAGES

Administrative Divisions	No. of villages	No. of towns	Density per sq. mile
I. Rajkot	5,651	105	126
II. Ahmedabad	10,634	120	345
III. Bombay	10,358	111	404
IV. Poona	6,460	124	289
V. Aurangabad	8,730	90	220
VI. Nagpur	12,448	75	206
Total—Bombay State	54,281	625	253

3. AGRICULTURAL CLASSES AND THEIR DEPENDENTS

(Figures in Thousands)

	Bombay State	ADMINISTRATIVE DIVISIONS					
		Rajkot	Ahmedabad	Bombay	Poona	Aurangabad	Nagpur
1. Cultivators of land wholly or mainly owned and their dependents	19,062	1,624	4,033	3,256	4,423	3,127	2,599
2. Cultivators of land wholly or mainly unowned and their dependents	3,982	425	887	1,492	395	317	466
3. Cultivating labourers and their dependents	5,865	200	638	856	668	1,468	2,035
4. Non-cultivating owners of land & Agricultural rent receivers and their dependents ..	968	88	215	108	205	178	174
Total ..	29,877	2,337	5,773	5,712	5,691	5,090	5,274

4. NON-AGRICULTURAL CLASSES AND THEIR DEPENDENTS

(Figures in Thousands)

	Bombay State	ADMINISTRATIVE DIVISIONS					
		Rajkot	Ahmedabad	Bombay	Poona	Aurangabad	Nagpur
1. Production other than cultivation	6,649	905	1,258	1,985	944	523	1,025
2. Commerce	3,610	536	710	1,165	447	296	456
3. Transport	1,033	129	137	442	118	74	133
4. Other services and miscellaneous sources	7,106	1,115	1,322	2,125	1,151	674	719
Total	18,399	2,685	3,427	5,717	2,660	1,567	2,333

5. LAND UTILIZATION AND AREA UNDER CROPS, 1955-56

(Figures in '000 acres)

	Bombay State*	ADMINISTRATIVE DIVISIONS					
		Rajkot	Ahmedabad	Bombay	Poona	Aurangabad	Nagpur
Land Utilization—							
1. Total geographical Area ..	120,080	24,168	17,063	18,193	18,201	18,778	23,641
2. Area under Forests	15,491	963	1,140	4,266	1,809	968	7,204
3. Barren Land	16,978	9,123	1,208	2,441	2,077	394	622
4. Land put to non-agricultural uses	2,389	807	385	161	314	438	1,018
5. Culturable Waste	3,530	779	777	1,160	381	208	729
6. Land under tree crops and groves	1,721	31	106	279	66	32	302
7. Permanent pastures and grazing grounds	5,691	1,576	955	506	558	969	1,527
8. Current fallows	3,305	889	218	475	491	1,248	215
9. Other fallows	4,222	183	346	1,115	674	1,073	751
10. Net area Sown	66,605	9,816	11,110	7,788	12,701	13,544	11,273
11. Gross cropped area	69,442	9,967	11,759	8,259	13,381	13,977	11,739
Area under Major Groups of Crops							
1. Cereals, pulses	44,244	5,290	7,245	5,615	10,140	8,949	7,246
2. Sugar crops	262	26	4	22	157	23	6
3. Fruits and vegetables ..	429	32	52	101	89	158	69
4. Condiments and spices ..	560	46	83	47	88	28	97
5. Miscellaneous food crops ..	242	1	2	2	1	72	1
6. Total food crops	45,736	5,395	7,386	5,787	10,475	9,230	7,419
7. Oilseeds	7,720	2,729	1,021	660	1,182	2,061	886
8. Cotton and other fibres ..	11,577	1,385	2,204	682	204	2,666	3,417
9. Drugs and Narcotics ..	286	4	146	4	79	4	4
10. Fodder crops	4,081	409	912	1,124	1,433	11	13
11. Miscellaneous non-food crops	93	45	90	2	8	5	....
12. Total non-food crops ..	23,757	4,572	4,373	2,472	2,906	4,747	4,320
13. Total area under crops ..	69,494	9,922	11,759	8,259	13,381	13,977	11,739

* These are corrected figures. While the figures in the rest of the columns are first estimates.

6. AREA AND PRODUCTION OF FOOD GRAINS, 1955-56

(Figures in thousands)

		Bombay State†	ADMINISTRATIVE DIVISIONS					
			Rajkot	Ahmedabad	Bombay	Poona	Aurangabad	Nagpur
1	Rice .. .. Area (Acres)	4,028	35	903	1,461	429	139	1,123
	Outturn (Tons)	1,445	11	226	674	155	34	349
2	Wheat .. Area (Acres)	3,511	379	708	381	277	608	692
	Outturn (Tons)	705	122	172	72	56	94	115
3	Jowar .. Area (Acres)	17,977	2,173	1,262	815	5,160	4,234	3,724
	Outturn (Tons)	2,540	86	168	161	992	806	1,019
4	Bajri .. .. Area (Acres)	8,744	2,463	2,271	1,261	2,526	986	81
	Outturn (Tons)	839	141	389	150	251	107	15
5	Ragi .. .. Area (Acres)	716	....	63	445	192	5	3
	Outturn (Tons)	210	....	40	144	46	....	....
6	Maize .. .. Area (Acres)	555	3	491	16	34	16	10
	Outturn (Tons)	184	....	187	4	14	2	2
7	Barley .. Area (Acres)	35	5,060	632	4,763	8,771	6,077*	5,675*
	Outturn (Tons)	8	360	1,393	1,283	1,542	1,120*	1,511*
8	Tur .. .. Area (Acres)	1,572	....	174	115	246	532	556
	Outturn (Tons)	440	....	35	29	56	84	359
9	Gram .. Area (Acres)	1,080	186	240	135	288	506	166
	Outturn (Tons)	238	12	44	16	40	75	28
10	Mug .. .. Area (Acres)	1,019	415	917	852	1,370	2,872*	1,571*
	Outturn (Tons)	88	18	148	132	176	349*	389*
11	Math. .. Area (Acres)	472						
	Outturn (Tons)	3						
12	Udid .. Area (Acres)	867						
	Outturn (Tons)	90						

*Estimates.

† These are corrected figures. While the figures in the rest of the columns are first estimates.

7. AREA AND PRODUCTION OF NON-FOOD GRAINS, 1955-56

(Figures in Thousands)

		Bombay State*	ADMINISTRATIVE DIVISIONS					
			Rajkot	Ahmedabad	Bombay	Poona	Aurangabad	Nagpur
1. Sugarcane	Area (Acres)	258	21	4	21	157	23	6
	Outturn (Tons)	717	51	7	55	506	40	8
2. Potatoes	Area (Acres)	24	....	4	1	18	....	1
	Outturn (Tons)	49	....	13	3	14	....	....
3. Chillies	Area (Acres)	349	3	27	30	60	141	89
	Outturn (Tons)	51	....	7	9	10	18	13
4. Groundnut	Area (Acres)	4,632	1,610	563	472	758	1,214	327
	Outturn (Tons)	1,011	237	178	112	239	421	94
5. Sesamum	Area (Acres)	766	290	214	56	32	96	190
	Outturn (Tons)	56	13	24	7	3	9	15
6. Castor Seed	Area (Acres)	349	139	159	15	1	10	5
	Outturn (Tons)	37	8	29	2	....	1	1
7. Rape, Mustard & Linseed	Area (Acres)	545	....	143	1	75	3	4
	Outturn (Tons)	67	....	36	....	13	1	1
8. Tobacco	Area (Acres)	255	1,445	2,173	668	183	2,520	3,371
	Outturn (Tons)	61	277	818	102	34	450	524
9. Cotton	Area (Acres)	11,227						
	Outturn (Bales of 392 lbs. each).	1,960						
10. Total Cereals	Area (Acres)	36,537						
	Outturn (Tons)	6,164						
11. Total Pulses	Area (Acres)	7,291						
	Outturn (Tons)	1,159						

* These are corrected figures. While the figures in the rest of the columns are first estimates.

8. AREA IRRIGATED BY SOURCES AND CROPS, 1955-56

(Figures in Thousand Acres)

	Bombay State*	ADMINISTRATIVE DIVISIONS					
		Rajkot	Ahmedabad	Bombay	Poona	Aurangabad	Nagpur
Area Irrigated by Sources—							
1. Government Canals	588	39	61	64	294	9	98
2. Private canals	61	....	1	17	38	....	..
3. Tanks	464	13	50	4	8	11	428
4. Wells	2,277	433	507	136	560	309	9
5. Other sources	95	1	14	10	46	6	17
6. Net irrigated area	3,449	487	634	231	955	334	632
7. Gross irrigated area	3,924	583	647	290	1,157	418	634
Area Irrigated by Crops—							
1. Rice	675	73	94	28	53	N. A.	532
2. Wheat	841	194	220	87	117	Do.	13
3. Jowar	638	51	16	2	390	Do.	1
4. Bajri	126	78	7	....	74	Do.	..
5. Barley	18	5	8	....	1	Do.	1
6. Maize	37	1	12	1	17	Do.	....
7. Tur	6	....	....	....	9	Do.	....
8. Gram	120	8	12	18	63	Do.	2
9. Other pulses	4	7	....	7	7	Do.	1
10. Sugarcane	250	24	3	22	157	Do.	6
11. Potatoes	17	....	3	1	11	Do.	....
12. Chillies	123	3	11	30	32	Do.	....
13. All food crops	3,369	478	466	242	1,043	401	632
14. Cotton	126	24	14	1	49	N. A.	1
15. Groundnut	23	4	....	3	17	Do.	....
16. Tobacco	29	....	31	....	4	Do.	....
17. Fodder crops	161	74	22	12	35	Do.	....
18. All non-food crops	536	127	161	48	115	52	2
19. Total area irrigated	3,924						

Note : The figures for area irrigated by crops for Bombay State are exclusive for Marathwada for which figures are not available. Also, the break-up of the figures for the Buldana District is not available. But the total which is available is added to the grand total.
* The figures here are the corrected figures, while the figures in the rest of the columns are the first estimates.

9. LIVE-STOCK, 1955-56

(Figures in Thousands)

	Bombay State	ADMINISTRATIVE DIVISIONS					
		Rajkot	Ahmeda-bad	Bombay	Poona	Auranga-bad	Nagpur
1. *Cattle*—	8,354	890	1,564	1,543	1,215	1,573	1,569
Males above three years ..	5,847	652	808	1,015	889	1,092	1,391
Females above three years	5,230	962	611	911	781	765	1,200
Young Stock							
2. *Buffaloes*—							
Males above three years ..	345	7	9	150	60	48	71
Females above three years	3,018	361	1,013	415	464	464	301
Young Stock	2,045	297	798	230	303	239	178
3. Sheep	3,850	1,252	474	233	1,086	648	157
4. Goats	6,968	980	1,430	1,076	1,510	1,181	782
5. Horses and Ponies	256	58	41	34	24	63	36
6. Donkeys	190	50	71	8	13	30	18
7. Camels	44	13	31	....	....	....	....
8. Pigs	188	....	....	35	36	71	46
9. Poultry	10,156	126	913	4,052	2,991	682	1,392
10. No. of Ploughs	3,121	339	837	789	361	312	483
11. No. of Carts	1,916	254	297	277	225	301	562

Note : Figures for the residuary Bombay State are provisional.

10. FORESTS, 1955-56

	Bombay State*	ADMINISTRATIVE DIVISIONS					
		Rajkot	Ahmeda-bad	Bombay	Poona	Auranga-bad	Nagpur
Area under —							
1 Reserved Forests ('000 acres)	10,465	427	229	3,497	1,767	8,086	N. A.
2 Protected Forests ,, ..	1,339	126	....	549	132	79	N. A.
3 Other Forests ,, ..	5,351	285	1,652	391	29	44	N. A.
4 Total area under Forests ('000 acres)	17,155	838	1,881	4,437	1,928	8,209	7,204
Value of Forest Produce ('000 Rs.)							
1 Timber	....	....	2,377	10,037	1,200	93	N. A.
2 Fuel	16,060	958	12,769	1,528	....	....	N. A.
3 Minor Forest Produce ..	40,198	1,443	1,735	232	255	....	N. A.

Note : Details of area under forest for Vidarbha are not available.
* The figures here are the corrected figures, while the figures in the rest of the columns are the first estimates.

11. MINERAL PRODUCTION

(Figures in tons)

1. Manganese Ore	400,671
2. Iron Ore	22,624
3. Coal	226,615
4. Bentonite	67
5. Bauxite	19,300
6. Calcite	708
7. Ochre	6,150
8. Salt (all types)	1,907,348
9. Gypsum	4,754
10. Marble	15,000
11. Lime Stone	912,742
12. Silica	12,000
13. China Clay	11,750
14. Fire Clay	4,194
15. Other Clays	23,525
16. Sand	1,308
17. Building material (Stone, grit, metal, etc.)	1,255,276

12. FACTORIES

1. Number of Factories	9,522
2. Average Number of Workers ..	885,545

Note : Figures for Bombay State are provisional.

13. INDUSTRIAL PRODUCTION, 1955-56

I *Wheat Flour*—	
(i) Working Capital (in '000 Rs.)	3,934
(ii) Value of Products (in '000 Rs.)	20,523
(iii) Persons Employed	1,800
II *Biscuit Making*—	
(i) Working Capital (in '000 Rs.)	2,862
(ii) Value of Products (in '000 Rs.)	5,233
(iii) Persons Employed	438
III *Fruit and Vegetable Processing*	
(i) Working Capital (in '000 Rs.)	2,862
(ii) Value of Products (in '000 Rs.)	5,233
(iii) Persons Employed	438
IV *Gur* -	
(i) Working Capital (in '000 Rs.) ..	2,187
(ii) Value of Products (in '000 Rs.)	10,449
(iii) Persons Employed	6,145
V *Sugar* —	
(i) Working Capital (in '000 Rs.) ..	56,985
(ii) Value of Products (in '000 Rs.)	1,24,153
(iii) Persons Employed	8,554
VI *Vegetable Oils*—	
(i) Working Capital (in '000 Rs.) ..	79,419
(ii) Value of Products (in '000 Rs)	3,35,409
(iii) Persons Employed	13,188
VII *Hydrogenated Oils (Vanaspati)*—	
(i) Working Capital (in '000 Rs.) ..	33,378
(ii) Value of Products (in '000 Rs.)	1,68,196
(iii) Persons Employed	3,501
VIII. *Paints and Varnishes*—	
(i) Working Capital (in '000 Rs.) ..	7,236
(ii) Value of Products (in '000 Rs.)	25,092
(iii) Persons Employed	1,457
IX. *Soap*—	
(i) Working Capital (in '000 Rs.) ..	27,778
(ii) Value of Products (in '000 Rs.)	97,560
(iii) Persons Employed	3,121
X. *Tanning*—	
(i) Working Capital (in '000 Rs.) ..	1,607
(ii) Value of Products (in '000 Rs.)	8,887
(iii) Persons Employed	614
XI. *Glass and Glassware*—	
(i) Working Capital (in '000 Rs) ..	5,201
(ii) Value of Products (in '000 Rs.)	18,190
(iii) Persons Employed	6,247
XII. *Ceramics*—	
(i) Working Capital (in '000 Rs.) ..	10,942
(ii) Value of Products (in '000 Rs.)	8,140
(iii) Persons Employed	3,712
XIII. *Paper and Paper Boards*—	
(i) Working Capital (in '000 Rs.) ..	4,443
(ii) Value of Products (in '000 Rs)	13,880
(iii) Persons Employed	2,849
XIV. *Matches*—	
(i) Working Capital (in '000 Rs.) ..	6,459
(ii) Value of Products (in '000 Rs.)	17,546
(iii) Persons Employed	2,683
XV. *Cotton Textiles*—	
(i) Working Capital (in '000 Rs.) ..	11,09,988
(ii) Value of Products (in '000 Rs.)	29,03,045
(iii) Persons Employed	4,58,183
XVI. *Woollen Textiles*—	
(i) Working Capital (in '000 Rs.) ..	31,740
(ii) Value of Products (in '000 Rs.)	47,594
(iii) Persons Employed	5,050
XVII. *Distilleries and Breweries*—	
(i) Working Capital (in '000 Rs) ..	863
(ii) Value of Products (in '000 Rs.)	1,951
(iii) Persons Employed	303
XVIII. *Starch*—	
(i) Working Capital (in '000 Rs.) ..	6,380
(ii) Value of Products (in '000 Rs.)	10,397
(iii) Persons Employed	870
XIX. *Chemicals* —	
(i) Working Capital (in '000 Rs) ..	1,03,250
(ii) Value of Products (in '000 Rs)	2,41,696
(iii) Persons Employed	10,958
XX. *Aluminium, Copper and Brass* —	
(i) Working Capital (in '000 Rs)	31,157
(ii) Value of Products (in '000 Rs)	88,176
(iii) Persons Employed .. .	6,357
XXI. *Iron and Steel* -	
(i) Working Capital (in '000 Rs.) .	9,259
(ii) Value of Products (in '000 Rs)	27,837
(iii) Persons Employed	3,335
XXII. *Bicycles* —	
(i) Working Capital (in '000 Rs) ..	7,280
(ii) Value of Products (in '000 Rs.)	18,795
(iii) Persons Employed	1,944
XXIII. *Electric Fans*—	
(i) Working Capital (in '000 Rs.) ..	1,192
(ii) Value of Products (in '000 Rs.)	2,875
(iii) Persons Employed	505
XXIV. *General and Electrical Engineering* —	
(i) Working Capital (in '000 Rs.) ..	1,24,449
(ii) Value of Products (in '000 Rs.)	2,95,021
(iii) Persons Employed	41,772

Note : Provisional figures from Census of Manufacturing Industries.
Figures for Industries less than 3 units among Constituent States have not been included.
Figures for Kutch are not available.

14. COMMUNICATIONS, 1955-56

	Bombay State	ADMINISTRATIVE DIVISIONS					
		Rajkot	Ahmedabad	Bombay	Poona	Aurangabad	Nagpur
1. Road Mileage	36,050	5,533	8,452	11,811	5,926	1,454	2,874
(a) Tar and Metalled Roads	18,895	3,017	3,051	6,271	2,651	1,442	2,463
(b) Non-metalled Roads	17,155	2,516	5,401	5,540	3,275	12	411
2. No. of Registered Vehicles—							
(a) Motor Cycles	8,378	917	1,456	2,984	1,813	87	1,121
(b) Motor Cars	47,846	4,632	6,278	28,052	3,630	332	4,922
(c) Taxis	5,281	872	156	3,765	175	32	281
(d) Stage carriages	5,250	831	1,110	1,375	675	200	1,059
(e) Lorries—Private carriers	5,277	408	630	3,460	420	38	321
Public carriers	15,692	2,855	3,250	6,370	1,250	359	1,608

Figures for Ahmedabad, Bombay and Poona regions are approximate.

15. ELECTRICITY, 1955-56

	Bombay State	ADMINISTRATIVE DIVISIONS					
		Rajkot	Ahmedabad	Bombay	Poona	Aurangabad	Nagpur
1. Installed capacity (kW.)	5,71,669	28,283	1,13,366	3,69,141	18,803	3,216	37,700
2. Energy Generated (lakh Kwts.)	24,357	697	5,509	16,236	320	57	1,538
3. Utilisation of Energy (lakh Kwts.)—							
(a) Domestic (lakh Kwts.)	1,459	96	192	957	161	20	33
(b) Commercial (lakh Kwts.)	1,040	27	108	715	165	12	10
(c) Industrial (lakh Kwts.)	16,509	399	3,426	11,430	428	11	816
(d) Others (lakh Kwts.)	980	50	221	182	92	14	421
(e) Total Utilisation (lakh Kwts.)	19,983	572	3,997	13,284	846	57	1,280

Installed capacity for private installation at Nanded is not included.

16. EDUCATION, 1955-56

	Bombay State	ADMINISTRATIVE DIVISIONS					
		Rajkot	Ahmedabad	Bombay	Poona	Aurangabad	Nagpur
1. No. of towns and villages with schools	....	4,459	6,313	7,758	5,659	N.A.	N.A.
2. No. of villages without schools	....	1,247	4,525	2,711	795	Do.	Do.
3. *Higher Education**—							
Institutions	174	10	40	54	35	6	12
Pupils	1,00,279	4,459	18,890	43,806	16,663	2,363	8,884
4. *Secondary Education** —							
Institutions	2,366	178	393	590	367	169	929
Pupils	7,78,541	60	128	228	95	69	273
5. *Primary Education**—							
Institutions	43,078	4,572	8,687	10,995	8,086	5,035	5,731
Pupils	46,13,543	390	998	1,290	1,022	410	395
6. *Special Schools**—							
Institutions	18,412	146	4,337	6,081	4,704	939	41
Pupils	4,71,830	3,121	1,21,000	1,67,000	1,04,000	21,547	4,935
7. *All Recognised Institutions**—							
Institutions	64,030	4,906	13,457	17,720	13,192	6,169	6,713
Pupils (000)	59,64,193	453	1,267	1,729	1,238	505	682
8. *Colleges for Education*—							
Institutions	14	....	3	3	4	1	3
Pupils	1,743	....	404	454	459	39	387
9. *Colleges for Engineering*—							
Institutions	10	1	3	2	2	....	2
Pupils	7,706	316	2,866	2,305	1,488	....	731
10. *Colleges of Medicine*—							
Institutions	19	1	4	7	4	....	3
Pupils	6,290	298	1,154	2,502	907	....	1,339
11. *Veterinary Colleges*—							
Institutions	1	....	....	1	....	....	....
Pupils	252	....	....	252	....	....	....
12. *Colleges of Agriculture*—							
Institutions	4	....	1	....	1	....	2
Pupils	1,079	....	234	....	396	....	449
13. *Colleges of Commerce*—							
Institutions	12	1	3	4	2	....	2
Pupils	8,602	345	1,844	4,065	1,253	....	1,105
14. *Colleges of Law*—							
Institutions	8	....	1	4	2	....	1
Pupils	4,746	....	1,140	2,710	292	....	604
15. *Colleges for other professions*—							
Institutions	5	2	....	1	1	....	1
Pupils	2,139	637	....	1,332	57	....	112

At the beginning of 1958 there were 143 multi-purpose schools in Bombay State.
Note: Figures for special schools are approximate.
* These are revised figures. The rest represent first estimates.

17. MEDICAL AND PUBLIC HEALTH, 1955-56

	Bombay State*	ADMINISTRATIVE DIVISIONS					
		Rajkot	Ahmedabad	Bombay	Poona	Aurangabad	Nagpur
Medical—							
1. No. of Dispensaries	1,595	373	256	160	111	136	187
2. No. of Hospitals		45	41	62	33	8	
3. No. of Subsidised Dispensaries	360	5	115	135	84	21	....
4. No. of Beds in Hospitals—	18,237	2,494	3,036	5,590	2,753	889	2,711
(i) Males	8,703	1,218	1,419	3,117	1,410	466	1,309
(ii) Females	9,534	1,276	1,617	2,473	1,343	423	1,402
5. No. of patients treated—							
(i) Outdoor patients (·000)	14,479	3,068	2,107	2,615	1,420	2,863	3,108
(ii) Indoor patients (·000)	734	65	107	170	72	23	38
Vital Statistics—							
1. Deaths due to principal diseases—							
(a) Cholera	....	5	4	49	20	N. A.	9
(b) Small-pox	....	44	689	479	606	N. A.	1,238
(c) Dysentery	....	284	3,271	9,882	60,567	N. A.	11,738
(d) Fevers	....	2,897	72,749	41,064	46,873	N. A.	6,318
(e) Tuberculosis and other respiratory diseases	....	655	25,338	22,109	30,911	N. A.	12,796
(f) Others	....	6,667	....	....	....	N. A.	708
2. Birth rate per thousand of population	....	N. A.	37·6	37·3	34 5	N. A.	40·5
3. Death rate per thousand of population	....	N. A.	14·5	16·5	13 8	N. A.	20·6
4. Infant mortality (Per 1000 live births)	....	N. A.	110 0	104·8	90·3	N. A.	157·6

* These are revised figures. The figures in the rest of the columns are first estimates.

18. CO-OPERATIVE SOCIETIES, 1955-56

	Bombay State	ADMINISTRATIVE DIVISIONS					
		Rajkot	Ahmedabad	Bombay	Poona	Aurangabad	Nagpur
Central Bank—							
Number of Banks	55	6	8	6	9	9	17
Members	63,473	4,694	6,402	6,051	20,893	5 036	20,397
Share Capital (in '000 Rs)	17 555	1,678	3 802	1,636	3,131	2 433	4,875
Working Capital (in '000 Rs)	2,06,536	12,618	47,546	34,280	42,418	34,353	35,321
Land Mortgage Banks—							
Number of Banks	30	1	3	4	3	8	11
Members	90,446	51,925	4 651	12,424	5,698	4,929	10,819
Share Capital (in '000 Rs)	2,305	1,099	401	428	126	119	132
Working Capital (in '000 Rs.)	35,162	22,141	3,674	3,982	1,584	1,145	2,636
Agricultural Credit Societies—							
Number of Societies	17,127	1 352	2,209	2,782	3,313	3,033	4,348
Members	11,05,080	977	1,70,554	2,31,401	2,84,860	1,40,102	1,57,186
Share Capital (in '000 Rs.)	45,665	3,550	9,088	10,352	14,653	4 978	3,044
Working Capital (in '000 Rs)	2,01,109	24,323	30,850	33,663	53,439	26,848	31,986
Non-Agricultural Credit Societies—							
Number	2,330	592	324	605	373	128	317
Members	9,84,731	43,640	1,59,223	5,48,182	1,48,459	33,600	51,627
Share Capital (in '000 Rs)	86,594	1,456	10,754	60,991	10,416	1,719	1,258
Working Capital (in '000 Rs)	3,43,532	2,253	48,818	2,25,926	49,237	13,420	3,878
Agricultural and Non-agricultural Non-Credit Societies—							
Number	5,817	610	1,478	1,680	1,088	444	517
Members	8,38,196	33,716	2,23,984	2,78,861	1,32,367	98,770	70,518
Share Capital (in '000 Rs.)	55,491	1,376	11,128	26,607	13,268	2,169	943
Working Capital (in '000 Rs.)	2,66,004	6,518	71,503	1,27,101	43,455	12,27	5,200

REVIEW, 1957-58

Below we give extracts from the Governor's Speech to the joint session of the legislature on 17th Feb., 1958 :

To give more effective representation to the local people in the day-to-day administration, Government decided to set up Panchayats so as to cover every village during the course of the next few years.

A State Council consisting of officials and non-officials, was established to advise the Government on matters relating to village panchayats.

Similar Councils were also established at the Divisional level.

The question of having a unified Village panchayat law for the whole State was being examined.

In all areas of the State, local bodies were made elective. It was decided to raise substantially the level of grants to local bodies, and to have a uniform system of financial assistance throughout the State.

The grant to village panchayats in all regions, will now range from 25 per cent to 30 per cent of the land revenue according to the classification of the village panchayats, to be prescribed by Government.

The grants to municipalities and District Local Boards to meet 50 per cent of the expenditure on account of dearness allowance to their staff, were extended to the whole State. The Boards would now get annual grants equal to 5 per cent of the land revenue collected in their respective areas excluding only the municipal areas.

A share of 2 per cent of the forest revenue was to be given to all District Local Boards throughout the State.

Development Boards at the District level have now been established throughout the State in addition to Development Councils for each Division.

Senior officers of Government were to be appointed as Commissioners of Divisions.* They would be entrusted with substantial powers hitherto exercised directly by Government. Powers were also to be delegated by Government to the various Heads of Departments so as to reduce to the minimum the need for making references to Government.

Proposals for further delegation of powers were to be investigated and would be implemented from time to time.

With the enlargement of the State, an urgent task before the Government was the integration of the various service cadres, administrative procedures, and laws prevalent in the different parts of the State. The old Bombay cadres were taken as the basis for organising the new ones. On the equation of posts, the scales of pay prescribed for the corresponding posts in the former Bombay State, were made applicable to the personnel from the former States of Madhya Pradesh, Hyderabad, Saurashtra and Kutch, with retrospective effect from the 1st Nov. 1956. The other conditions of service applicable to Government servants were also unified by extending the Bombay Civil Services Rules to the personnel allocated from the States other than the former Bombay State.

With a view to eradicating the evil of corruption Committees have been formed at the Head of Department and District levels. The Departmental Committees consist of three or four officers and representatives of different levels of administration. For better co-ordination of work, Government has sanctioned the establishment of an Anti-Corruption Bureau under the direct supervision and control of Government in the Home Department. This Bureau will be independent of the Police.

The work relating to the unification of laws in the State is also making progress. Certain measures have been passed in this behalf. On the more complicated matters such as tenancy, consolidation of holdings, primary education and industrial relations, the necessary measures aiming at uniformity are under preparation.

FOOD PRODUCTION

Due to unsatisfactory rains in certain districts in 1957, scarcity conditions made their appearance. Government took prompt measures to meet the situation: relief works to provide immediate employment, gratuitous relief to those who are unable to work, conservation of drinking water. Besides, local officers were instructed to give water free of cost for irrigation purposes in such areas. Waste lands adjoining tanks were allowed to be cultivated, and cultivators were allowed to dig katcha wells in tank beds to raise irrigated fodder. Fodder reserve stocks were also built up in these areas.

In spite of the set-back due to scarcity conditions in some parts, agricultural production recorded a substantial improvement. Even so, the over-all food position was by no means satisfactory. To make foodgrains available at reasonable prices, the fair price shop scheme was extended throughout the State.

Government has now introduced in Greater Bombay the Household Foodgrain Card System through which a limited quantity of rice is supplied according to the stocks made available by the Government of India. A sufficient quantity of wheat also is sold at the same shops. Government is watching the situation in other large cities like Ahmedabad, Poona and Nagpur. For ensuring sufficient supplies to the foodgrain shops, Government has opened godowns in the districts. Loans to the extent of Rs. 1,000 per village panchayat, are also given to encourage more village panchayats to undertake the work of distribution of foodgrains.

To economise the use of rice, restrictions have been placed on the service of rice or preparations made of rice in catering establishments, and in the number of participants in functions and parties where such preparations are served.

[It may be added here that the State is now almost entirely dependent on the Centre to fill up the gap in its rice requirements. The rice production in 1955-56 was 1,448,000 tons and in 1956-57 it was 1,569,000 tons. It needs about 400,000 tons more to meet its requirements. —*Editor.*]

Government has undertaken a large additional (besides the Plan works) programme of Minor Irrigation Works, especially construction of wells throughout the State. A programme for the construction of 35,000 new wells and repairs to 28,000 old wells, has been prepared for the remaining three years of the Second Plan. This scheme is expected to bring under irrigation, over 2½ lakh acres of land. The scheme has already been started; and during 1957-58 5,500 new wells were being constructed and 4,000 old wells repaired.

Under this Scheme, long term tagai loans and subsidy would be granted in all the regions of the State. For sinking of new wells, financial assistance to the extent of Rs. 2,500 per well would be given of which 25 per cent or Rs. 500 whichever is less will be treated as subsidy and the rest as loan. The response to the wells scheme was encouraging and in January alone over 10,000 applications for the construction of new wells were received.

Steps were taken to strengthen and reorganise the Irrigation Wing of the Public Works Department. A new post of Chief Engineer in charge of Irrigation Projects has been created. A special Circle called Water Resources Investigation Circle has been established. Government also decided to set up a Board of Irrigation for the State of Bombay.

Measures have also been taken to ensure that water from projects which have already been constructed, is utilised to the fullest extent. A State Water Utilisation Committee has been established to study the short-fall in the utilisation of irrigation water. The Agriculture Department is establishing about 40 trial-*cum*-demonstration farms in the commanded areas of the irrigation projects to bring home to the cultivators the advantages of irrigated farming.

To enable cultivators to familiarise themselves with the use of water for irrigation purposes, certain concessions have now been announced by Government for the initial years for irrigation works recently completed or in progress. For example, in respect of 'food grains and fodder crops', no water rate will be charged for the first year. For crops other than food grains and fodder crops, the charge, in the first year, will be ½ of the normal water rates. Another important scheme relates to soil conservation by contour bunding. This activity is now being intensified. In order to provide improved seed for all cultivated lands, 450 seed farms, each comprising an area of about 25 acres, are being established, one in each taluka. This programme is to be completed before the onset of the monsoon in June, 1958. The Japanese method of cultivation of paddy which has already yielded encouraging results in several parts, is being extended to cover about 1½ lakh acres.

While immediate efforts have to be made to increase food production in the manner mentioned above, it is evident that for any long term solution of the problem in this State, special attention has to be given for many years to schemes of major irrigation.

The major irrigation programme of the new Bombay State included in the Second Plan, whether viewed from the standpoint of its scope, or the capital expenditure involved, or the targets of areas to be irrigated, signifies a determined effort to implement it.

The programme of Community Development and National Extension Service was further extended during 1957 to cover about 45 lakhs of rural population in 68 blocks. Greater emphasis is now being laid on the programme of increase in agricultural production, the execution of construction works through village panchayats and the active participation of the Village Panchayats in the various activities of community development.

The programme for women and children is being co-ordinated with that of the State Social Welfare Board, and Government has also started five pilot projects for women in different districts.

It may be added here that in all 261 blocks covered 26,154 villages and a population of 1·73 crores at the end of 1957.

In regard to animal husbandry and dairy development, Government has constituted a new Department designated 'Animal Husbandry Department'.

Similarly, in view of the importance of urban and rural milk supply schemes, Government has decided to constitute a 'Dairy Development Department' with Regional Officers for different Divisions of the State.

In order to meet the demand for trained personnel, Government is establishing a Veterinary College at Nagpur for which assistance from the Government of India is expected.

The College is expected to start functioning from June 1958.

In the matter of land reforms, the policy of removing intermediaries and of making the tiller of the soil the occupant of the land, is being extended to all areas. The changes required in the tenancy laws of the various regions have been taken in hand.

In the case of the Marathwada area, the necessary amendment of the tenancy law was brought before the last session of the State Legislature.

Tenancy laws in the areas of Vidarbha, Saurashtra and Kutch do not provide for conferring occupancy rights on tenants or for fixing ceiling of land holdings.

The question of undertaking suitable legislation for these areas is, therefore, under consideration.

Amendments regarding the law in Saurashtra and in the Bombay merged territories, were carried out in 1957. The remaining work in respect of the areas of Kutch and Marathwada is expected to be completed in 1958. It is the policy of Government to abolish inams of all kinds. Service inams have hitherto been excluded from the purview of such abolition mainly on the ground that these have far-reaching financial and administrative consequences. Government has again taken up this matter and come to the conclusion that a beginning must be made in the direction of abolition of the inams of these inferior village servants. The proposals are being worked out.

The fullest possible advantage is being taken of the Co-operative Movement on the lines suggested by the All India Rural Credit Survey Committee. The principle of direct and indirect participation in the share capital of the co-operative credit institutions at all levels has been accepted and is being implemented.

Government has established a State Warehousing Corporation for putting up warehouses at suitable selected centres.

[It may be pointed out here that the Corporation was inaugurated on 10th Dec. 1957. The Bombay Government's share capital is Rs. 15 lakhs. A like amount is subscribed by the Central Warehousing Corporation. Initially it is proposed to provide 20 warehouses in the State in addition to the six to be set up by the Central Corporation. —*Editor.*]

Out of the fifteen co-operative sugar factories which have obtained licences for import of machinery, nine factories have gone into production with a total crushing capacity of 8,400 tons of sugarcane a day. Six more sugar factories are expected to complete their erection programme during the 1958 crushing season and to go into production in the 1959 season.

[It may be added here that the nine factories are in Pravaranagar (Poona Dt.), Bardoli, Sanasar (Poona Dt.), Kopargaon (Ahmednagar Dt.), two in Malegaon (Poona Dt.), Rahuri, Rohata and Karegaon (all three in Ahmednagar Dt.).

* These have now been appointed.

Each unit is capable of producing about 10,000 tons of sugar a year. —*Editor.*]

In the latter half of 1957-58 the accumulation of stocks of cloth adversely affected several cotton mills. Some of them discontinued their second and third shifts, and a few others put up notices of such stoppage. This resulted in some unemployment.

Some steps were taken to bring down the prices of medium varieties of cloth. As a result, the off-take of cloth improved.

Other measures are also being devised to improve the situation. The Narsinggirji Mills at Sholapur had closed down in August 1957, for financial reasons, throwing a considerable number of workers out of employment. With the object of providing relief to them, Government took over the mills on lease to run them as an Unemployment Relief Scheme.

Government also decided to fix minimum wages for employees in shops and commercial establishments. A notice declaring Government's intention was given, and minimum wages were to be fixed from 1st April 1958.

The State Government constituted a Wage Board for cotton textile industry in the Vidarbha region. During the 1957-58, eight new Employment Exchanges were opened in the State. It is proposed to start seven new Exchanges in 1958-59.

Government constructed from Nov. 1956 to Jan. 1958 4,968 tenements at a cost of Rs 246·37 lakhs under the Subsidised Industrial Housing Scheme, and work on about 11,000 more tenements was in progress.

It is proposed to construct another 7,000 new tenements.

Government also granted loans amounting to Rs 129·89 lakhs for the construction of houses under the Low Income Group Housing Scheme.

This scheme has now been modified so as to permit Government to construct houses direct and give them on rent to persons with low income. Full advantage would be taken of this modification by constructing tenements on a rental basis.

About slum clearance, schemes have been formulated for the more congested areas —by the Corporations of Bombay, Ahmedabad and Poona, and forwarded by the State Government to the Government of India. The Nagpur Corporation was formulating its schemes at the time.

The 1957-58 programme of road construction has been fully implemented, and in the 1958-59 programme a number of new roads in sugarcane areas are included. An additional provision of Rs. 2·5 crores for roads in the Plan for Vidarbha, has been agreed to by the Planning Commission. Of this, a provision of Rs. 75 lakhs is made for 1958-59.

About education, two integration committees —one for primary and the other for secondary education— have been appointed to work out a uniform policy.

The question of the integration of salaries of primary teachers was being actively considered on the lines recommended by the Government of India. As a measure of immediate relief, the Bombay Dearness Allowance rates were applied to the new areas at an average annual cost of Rs 1·27 crores to the State.

On the re-organisation of the State, 188 Junior Division troops (of the N.C.C.) including 164 for boys and 24 for girls from Saurashtra, Kutch, Vidarbha and Marathwada areas, came into the new Bombay State. In order to have uniformity throughout the State Government decided to re-start the Junior Division Scheme in the area of the former Bombay State which had previously been discontinued.

The Committee for the establishment of a University for Marathwada, has submitted its report which at the time of writing (Feb. 1958) was under the consideration of Government. It was hoped that the University would come into being by June 1958.*

In view of the growing importance of small savings to the Second Five-Year Plan, a Directorate of Small Savings has been set up in the Finance Department, to supplement the efforts of the National Savings Organisation of the Government of India. The Directorate has in consultation with the Government of India, secured several facilities for investments and incentives to small investors.

For the training of Small Savings workers, two training camps were organised - the first at Satana in the Nasik District in June 1957, and the other at Baroda in December last. These camps were the first of their kind in the country.

A single organisation has been formed for implementing the social welfare programme of Government —the Directorate of Social Welfare.

[A note on prohibition may be added here. This is not part of the Governor's address:

In pursuance of its decision to extend total prohibition to the remaining areas of the State of Bombay from April 1, 1959, the Government of Bombay decided to introduce prohibition in the Nagpur and Aurangabad (except East Khandesh District) divisions of the State in two stages.

In the Nagpur division, the first stage would be for the period from April 1, 1957 to March 31, 1958 and the second from April 1, 1958 to March 31, 1959, while in the Aurangabad division, the first stage would begin on October 1, 1957 and would last up to March 31, 1958 and the second stage would be from April 1, 1958 to March 31, 1959.

There is total prohibition in East Khandesh district. In Saurashtra and Kutch, the Bombay Prohibition Act, 1949 is in force except in respect of opium.]

BUDGET 1958-59

Revenue : Rs 130 crores.
Expenditure : Rs 122·01 crores.
Deficit : Rs 2 crores.

* A bill has now been passed.

ROAD TRANSPORT

Passenger road transport is partially nationalized in Saurashtra, Vidarbha and Marathwada and almost wholly in Kutch and the residuary Bombay State. Goods transport is not nationalized in any area.

All the nationalized transport services in the whole of the present Bombay State have now come under the Bombay State Transport Corporation.

The Bombay State Road Transport Corporation was constituted under the provisions of the Road Transport Corporation Act, 1950.

The Corporation operates in all the districts of the new Bombay State.

The information given below covers the period from April 1956 to March 1957.

The data given as on 31st March 1957 relates to the new Bombay State excluding the merged areas (Vidarbha, Marathwada, Kutch and Saurashtra).

The annual data relate to the original Bombay State upto 31st December 1956 and to the new Bombay State excluding the merged areas upto 31st March 1957.

The latter are indicated with an asterisk.

Position as on 31st March 1957 :

Capital invested in the residual Corporation :	
State Government	Rs. 770·38 lakhs
Government of India ..	Rs. 395·68 lakhs
No. of passenger vehicles owned by the Corporation.	2,710
No. of goods vehicles owned by the Corporation ..	669
No. of nationalised City Bus Services	Three (Baroda, Surat and Kolhapur)
No. of municipalised city bus services	Four (Bombay, Poona, Aurangabad and Sholapur)
Rate per passenger mile after nationalisation ..	Nine pies (No difference between pre and post nationalisation rates per mile)
Total No. of routes operated	1,880
Route mileage operated .	46,559
No. of persons employed ..	17,813

The Corporation has two major workshops for major overhauls, 13 Divisional Workshops for running repairs and servicing, and 121 depot and sub-depot workshops for maintenance of vehicles. The central workshop is at Dapodi, the regional workshop is at Ahmedabad, the divisional workshops are at the divisional headquarters, and the depot and sub-depot workshops are at various operating points spread over the entire residual State.

Annual results of the year 1956-57 :

Total bus miles operated ..	7,36,59,423*
Total number of passengers carried by the Corporation	18,48,79,056*
Total revenue expenses of the Corporation for 1956-57	Rs. 10,41,42,674*
Total revenue for 1956-57 ..	Rs. 11,67,91,584*
Cost of staff per bus mile ..	63·68 pies*
Expenses per bus mile ..	257·40 pies*

The Corporation provides comfortable buses, long distance express services for the convenience of long distance passengers, well-equipped bus stations at important places with all modern facilities, adequate services to meet the demand, and special services for fairs and other special occasions.

Passenger amenities provided by the Corporation as on 31st March 1957 : Booking Offices 142 ; Bus Stations 133; Passenger Stands 112; Canteens 127; Lavatories 161; Water Arrangements 113; Waiting Rooms 81.

MERGED AREA

The information given below covers the period from April 1957 to August 1957 for the 4 nationalised road transport undertakings in Saurashtra, Vidharbha, Marathwada and Kutch which are now in the new enlarged State of Bombay after the reorganisation of States.

The nationalised transport services in these areas are directed and co-ordinated by a department of the Government of Bombay, under the Motor Transport Controller, known as the Transferred Road Transport Undertakings' Department.

The names of the Transport Authorities are :

(*a*) Saurashtra: Saurashtra State Road Transport Corporation.

(*b*) Kutch: Kutch State Road Transport Corporation.

These Corporations are constituted under the provisions of the Road Transport Corporation Act, 1950.

Passenger Road Transport is almost completely nationalised in Kutch with 58 routes under operation.

In Saurashtra, however, passenger services are partially nationalised, and only 183 routes have been taken over.

(*c*) Vidarbha : Provincial Transport Services.

Government has constituted a Board to manage the operations of the Provincial Transport Services under the supervision of a Committee. 63 routes have been taken over in the districts of Nagpur, Wardha, Yeotmal, Amravati and Bhandara. Of these 63 routes, 14 are city services operated in Nagpur City.

(*d*) Marathwada : State Transport (Marathwada).

The State Transport (Marathwada) undertaking is run departmentally under the supervision of a Committee constituted by the Government of Bombay, and operates 81 routes including two city service routes.

Position as on 31-8-1957 :

(*a*) Total capital investment in the units :	
Contribution by State Government ..	Rs. 101·24 lakhs
Contribution by Central Government ..	Rs. 36·26 ,,
Total ..	Rs. 137·50 ,,

The Central Government has contributed towards capital only in the case of the Saurashtra and Kutch Corporations and the Provincial Transport Services, Nagpur, while the entire capital for Marathwada which is a Government department, is contributed by the State Government alone.

(*b*) Total no. of passenger vehicles owned by the 4 units	612
(*c*) Total no. of goods vehicles owned by the 4 units	7
(*d*) Total no. of nationalised city bus services	4 (at Nagpur, Aurangabad, Nanded, and Rajkot).
(*e*) Total no. of routes operated as on 31st Aug. 1957	302 (Rural) ; 23 (City).
(*f*) Route mileage operated as on 31st Aug. 1957	10,972
(*g*) No of persons employed	3,848

Rate and fare structure :

The rate per passenger per mile charged in the 4 units is as under :—

(*a*) *Saurashtra :* At 9 pies per passenger per mile on a mileage system. Minimum fare charged is one anna.

(*b*) At 12 pies per passenger per mile for lower class services and at 18 pies for upper class accommodation on a mileage system. Minimum fare charged is 2 annas.

(*c*) *Vidarbha :* At a telescopic rate of 7·5 pies to 5 pies per passenger per mile with a surcharge on fares of 1 anna per rupee or part thereof and two annas per rupee or part thereof on fares in excess of one rupee. Minimum fare charged is 2 annas.

(*d*) *Marathwada :* At 10·28 pies per passenger per mile and 3½ annas per each stage of 4 miles or part thereof. Minimum fare charged is 3½ annas per passenger per stage.

Under the Saurashtra State Road Transport Corporation there are two workshops, one each at Rajkot and Junagadh, while under the Kutch State Road Transport Corporation there is a workshop at Bhuj for major repairs and day-to-day maintenance.

As regards the Provincial Transport Services, Nagpur, the Central Workshop is situated at Nagpur, while in the case of State Transport (Marathwada) the workshop at Aurangabad carries out major repairs as well as day-to-day maintenance.

Operational results of the period from April 1957 to August 1957 :

(*a*) Total No. of passengers carried by the buses in the 4 transport units	1,59,25,997
(*b*) Total revenue from April 1957 to August 1957	Rs. 107·02 lakhs
(*c*) Total gross mileage operated	79,90,527
(*d*) Cost of staff per bus mile	49·6 pies
(*e*) Expenses per bus mile	190·5 pies

Amenities :

Comfortable buses are provided and regular bus services are operated in all the 4 units. For the convenience of long distance travellers express services are operated. At all important places, well-equipped bus stations with all modern facilities have been provided.

Way-side stands at traffic centres for *en route* passengers have also been provided at important places.

Adequate arrangements for the supply of extra buses have also been made to meet the traffic demand and special services are also run for fairs and on other special occasions.

Passenger amenities provided in the 4 units :

Total no. of Depots 37 ; Booking Offices 54 , Bus Stands 27 ; Sheds 49 ; Canteens 14 ; Lavatories 52 ; Water Arrangements 62 ; Waiting Rooms 34.

* Relates to the original Bombay State upto 31st Dec. 1956 and to the new Bombay State excluding the merged areas upto 31st March 1957.

IRRIGATION

Major projects now functioning :

Name of Project.	District/Area Benefited.	Date begun.	Date of completion.	Total Cost, Rs. in lakhs.	Development Expenditure, Five Years 1951-56. Rs. in lakhs.	Area irrigated on completion in '000 acres.
Gangapur	Nasik, Ahmednagar	1949	1957	395	234	45
Mahi right bank canal	Kaira	1948	1958	425	401	150
Ranand tank	North Satara	1949	1953	30.18	19	3.6
Lower Tapi valley (Stage 1) (Kakrapar)	Surat	1949	1955-56	626†	1,151	562

† Estimates under examination.

Second Plan Projects :

Project	Cost (Rs. lakhs)	Area (Acres)	District
Vir	541	99,850	Sholapur, North Satara.
Khadakwasla	1,023	80,000	Poona.
Mula	912	1,37,500	Ahmednagar.
Girna	905·4	88,900	East Khandesh.
Ukai	5,800	7,48,000	Broach and Surat.
Kadana	1,310	4,55,000	Kaira & Panchmahals
Narmada	2,500	9,97,500	Baroda & Broach
Dantiwada	702 52	1,15,000	Banaskantha & Mehsana
Gangapur 2nd Stage .	87 6	19,000	Nasik & Ahmednagar
Warna	172	7,500	Kolhapur and South Satara.
Kurmur	136	9,000	Sholapur.
Saraswati	167	32,000	Mehsana.
Hathmati	187·81	58,500	Sabarkantha and Ahmedabad
(shetrunji) Khodiar	123 92	19,000	Amreli.
Shamlaji	94 64	30,000	Kaira and Sabarkantha
Lor	160 00	50,534	Wardha.
Saigunga	123 00	43 900	Buldhana.
Purna	555	1,60,000	Parbhani and Nanded.
Manad	140	70,000	Nanded.
Bhadar	323	68,000	Madhya Saurashtra and Sorath
Shetrunji (Saurashtra)	431 66	80,000	Gohilwad.
Rudramata	53 88	15,000	Bhuj Taluka in Kutch

The Bombay State has about the highest percentage of sown area to cultivable area. It is traversed by major rivers like Sabarmati, Mahi, Narmada, Tapi, Godavari and Krishna. Yet the proportion of area irrigated by Government irrigation works, tanks and canals to cultivable area before 1947 was only 2% as against 30% to 50% in States like Madras, the Uttar Pradesh and the Punjab.

After the completion of the Nira Right Bank Canal in 1926, no important irrigation work worth mentioning was taken up in this State till 1947. After the advent of Independence and with a view to making the country self-sufficient in regard to food grains, irrigation has been given priority. Before the First Five Year Plan began the total area under irrigation was 10·5 lakh acres.

At the end of 1955-56 it was 14·1 lakh acres.

During the First Five Year Plan period a provision of Rs. 2,257 lakhs was made for the construction of the following six major irrigation schemes to irrigate an area of 12,61,200 acres at full development :—

Kakrapar Weir and Canal Project, Mahi Right Bank Canal Stage 1, Ghataprabha Left Bank Canal Project, Gangapur Dam Project, Ranand Tank, and Kolchi Weir Project.

An expenditure to the extent of Rs. 1,806·41 lakhs was incurred on the six projects upto end of March 1956. An additional area of 79,425 acres was irrigated by the end of 1955-56.

The Mahi Right Bank Canal Project (Kaira) forms the first stage of the Mahi Valley Development. It consists of a weir at Wanakbori and a canal 44 miles long to take off from the right bank. The project was originally envisaged with a canal capacity of 2,000 cusecs at a cost of 4·25 crores. The work was started in 1948. The scope of the scheme has subsequently been revised and the canal is now designed for a monsoon supply of 7,000 cusecs.

Work is in progress and the Project is being continued in the Second Plan period. The project will benefit Kaira Dist. and will bring under irrigation 4,47,000 acres of land. It would be completed in 1958-59.

The Kakrapar Project (Surat) consists of a weir at Kakrapar and two canals on either side to irrigate an area of 562,000 acres. It forms part of a more comprehensive project for the development of the Lower Tapi Valley. The project is estimated to cost Rs. 626 lakhs and is under revision. The work on it is making good progress and will be continued during the Second Plan.

Irrigation has started on the completed section of the canal.

The Gangapur Project (Nasik) comprises a dam on the Godavari river at Gangapur, 8 miles from Nasik, to impound 5,500 m cft of water, and remodel the existing Godavari right and left bank canals, and a new canal to take off directly from the dam, Nasik Left Bank Canal. The project will bring under irrigation an area of 45,000 acres in Nasik and Ahmednagar Districts. The work on the dam proper is completed and that on the canal is at an advanced stage of completion. The project is estimated to cost Rs. 395 lakhs.

Water from the storage is being utilized on the existing Godavari Canal System. Irrigation on a section of the Nasik Left Bank Canal has also started.

Ranand tank (Satara North) is situated in Man Taluka of North Satara District and is estimated to cost Rs 30·18 lakhs. There are two canals. The project will bring under irrigation an area of 3,550 acres after completion. The tank proper is complete. The two canals are also complete.

Irrigation was started in 1954.

Besides this, the Meshwa Canal Project in Kaira District and the Radhanagari Hydro-electric Scheme (Irrigation part) in Kolhapur District were also taken up outside the Plan and have been practically completed.

The Meshwa Project is estimated to cost Rs 53 lakhs and would irrigate an area of 18,000 acres and has been completed. Irrigation started in June 1956.

The Radhanagari Project is estimated at Rs. 166·25 lakhs and will irrigate an area of 32,000 acres.

Irrigation is done by means of lifts on the Panchganga and Bhogawati rivers at the dam site.

In addition to the above six major irrigation works, schemes giving quick production of food crops had to be put through. The Government of India came forward with loan assistance for the programmes. The programmes are —

a) Special Loan Programme Rs 1 crore.

b) Scarcity Programme Rs 1·11 crores.

c) Minor Programme of Irrigation Rs 80 lakhs.

d) " " " Rs 4 lakhs.

A programme of much greater importance was one of Rs 4·87 crores later revised to Rs 10·5 crores.

Some of the important irrigation works taken up under this programme now under construction are

Name	Estimated cost Rs lakhs	Dist
Ghod Dam Project	485	Poona and Ahmednagar.
Extension of Krishna Canals	82	South Satara.
Mosam Bandhara	57	Nasik.
Budhal Tank	65	Sholapur.
Karad Tank	65	Panch Mahals.
Patadungri Tank	53	Panch Mahals.
Moti Fatewadi Canal	48	Ahmedabad.

The works taken up in the medium and minor irrigation programmes will irrigate an area of 2,32,866 acres.

A total expenditure of Rs. 480 lakhs was incurred by March 1955 and the approximate expenditure during 1955-56 was Rs. 321·57 lakhs.

A North Gujarat Tube Well Scheme which envisages the construction of 400 tube wells in the scarcity tracts of Ahmedabad, Mehsana and Banas Kantha Districts at a cost of Rs. 247 lakhs has been taken up. An expenditure of Rs. 164·02 lakhs was incurred till the end of March 1956. So far about 396 tube wells have been drilled. An area of 80,000 acres will be brought under irrigation by this Scheme on full development.

In the Saurashtra area 70 tube wells are proposed to be sunk in Second Plan to irrigate about 5,600 acres.

Thus an additional area of 361,300 acres would have been brought under irrigation by the end of 1955-56 over and above 1,050,000 acres irrigable during 1950-51. On the completion of the schemes under the First Five Year Plan period, an additional area of 1,531,740 acres would have been brought under irrigation, and after full development, 1,722,000 acres.

In the Second Five Year Plan a capital outlay of Rs. 88·14 crores is proposed on irrigation in the entire reorganised Bombay State. However, some of the major schemes included in it will not be completed during the Second Plan period and may spill over in the subsequent plan or plans.

The estimated costs of all these schemes on the present estimation is well over Rs. 200 crores.

Details of some of the important schemes are given in a table on the previous page.

When completed they will bring an additional area of 38,41,000 (seasonal) acres of land under irrigation.

By the end of the Second Plan, however, 9,13,000 acres would come under irrigation.

Preliminary work has started on almost all the projects except Narmada and Kurnoor. The former is still under investigation while the investigation of the latter has just been completed.

Besides the ones in the table, the following medium schemes in the various parts of the State are in progress.

In the Saurashtra area works under progress are: Machu Stage I; Aji, Bhogavo Stage I, Rangola, Brahmani, Sassi Dam, Mej, Hiran, Raval, Macchundari, Munjsar and Bhogavo Stage II, Limbdi-Bhogavo, Sakroli, Fulzar, Ghelo, Rojki, Demi Ozar Stage II.

In the Kutch area works under progress are: Gajod, Sanandro, Kalia and Kankavli Upto the end of March 1956 an expenditure of Rs. 51·6 lakhs was incurred.

Preliminary work has been started on Suvai, Nironi, Gagansar.

In the Marathwada area works under progress are: Dhaku, Zin, Shivana Anicut, Poorna Anicut, Bendsura Kamli, Talwar Khasapur and Naldurg.

Others provided for in the Second Plan are: Chandni, Therna, Khadkali and Harni.

In Vidarbha work on the scheme for improvement to the Navegaon project is in progress. Upto the end of March 1956 the expenditure was of the order of Rs. 5 10 lakhs.

In the Second Five Year Plan of the new Bombay State a total amount of Rs. 947·385 lakhs is proposed to be spent on minor irrigation and tube-wells under the Public Works Department.

Out of this amount, a sum of Rs. 314·09 lakhs constituted spill over from certain minor irrigation projects undertaken in the old Bombay State.

Including this, a total amount of about Rs. 560·09 lakhs will be spent on minor irrigation and tube-wells in the areas constituting the old Bombay State (excluding the transferred areas) during the Second Five-Year Plan period.

For the Saurashtra and Kutch areas provisions have been made of Rs. 144 lakhs and Rs. 130·00 lakhs respectively for expenditure on Minor Irrigation Works.

The Vidarbha and Marathwada areas will have Rs. 24·29 lakhs and Rs. 28·75 lakhs respectively, for the execution of Minor Irrigation Works under the Public Works Department.

In addition to the above, various flood control measures are taken by the Irrigation Department for controlling the recurring floods during the monsoon. The Baroda Flood Control Scheme on the Vishwamitri river may be mentioned in this connection. It has protected the Baroda town from flooding.

ELECTRIC POWER DEVELOPMENT

For major particulars about electric power development in Bombay State see under the relevant table* in this article.

TATA PROJECTS

The greatest hydro-electric undertakings in the State are the three schemes developed and brought into operation by Tata Sons, Ltd., and continued under their management until 1929, when they were transferred to the management of the Tata Hydro-Electric Agencies, Ltd., in which Messrs. Tata Sons retain a majority interest. These undertakings are :—

(a) The Tata Hydro-Electric Power Supply Company, Ltd. Supply started in 1915.

(b) The Andhra Valley Power Supply Company, Ltd. Supply started in 1922.

(c) The Tata Power Company, Ltd. Supply started in 1927.

The three Hydro-Electric Companies are interconnected with the 64 MW Chola Steam Station of the Central Railway and the State Electricity Board's 54 MW Steam Station also at Chola under the same roof as the Railways and operated by them; together they are operated as a Hydro-Thermal system under the co-ordinated control of the Hydro Companies.

The three Hydro Companies have constructed a modern Steam Thermal Station of 125 MW capacity at Trombay which is also interconnected to the system.

This station which consists at present of two 62,500 kW units was opened on 15th Dec. 1956. A third unit of the same capacity is being planned (For details see below.)

During the nine months of 1956-57 (July to March) the system demand was 352·3 MW.

The sales by Tatas during the period was 1,147 million units and the purchase of Thermal Energy to supplement Hydro during the year was 154 million units.

Khopoli.—The hydraulic works of the Tata Hydro-Electric Power Supply Company are situated near Lonavla at the top of the Bhor Ghat. The monsoon rainfall is stored in three lakes, namely Lonavla, Walwan and Shirawta, from which it is conveyed in open masonry canals to the Forebay at Khandala and thence through steel pipes to the Power House at Khopoli at the foot of the Ghats, where the head at turbine nozzles is 1,726 feet or approximately 750 lb. per sq. inch. The capacity of the Power Station at Khopoli is 70,000 kW.

This scheme was formally opened by the Governor of Bombay on the 8th of February 1915.

Bhivpuri.—Investigations in 1917-18 led to the discovery of a site on the Andhra River just to the north of the Tata Hydro-Electric Supply Company's lakes, where additional power could be developed.

These investigations resulted in the formation of the Andhra Valley Power Supply Co. and the construction of the schemes, the principal features of which consist of a reservoir formed by a dam about 190 feet high, across the Andhra River and a tunnel 8,700 feet long driven through solid trap rock to the scarp of the Ghats, from which the water is taken in steel pipes 4,600 feet long to the turbines in the generating station at Bhivpuri. The head of water at turbine nozzles is 1,743 feet or approximately 750 lb. per sq. inch.

The electrical energy is transmitted to Bombay over a transmission line 57·5 miles long for augmenting the supply from Khopoli.

The present capacity of this station is 72,000 kW.

Bhira.—The Tata Power Company's scheme on the Nila-Mula River to the south-east of Bombay was investigated and developed along lines similar to the Andhra Valley scheme and has an installed capacity of 132,000 kW.

The power is transmitted to Bombay over a transmission line 76 miles long and is used to augment the supply of the two earlier companies to mills, factories and railways.

The Trombay Thermal Power Station, the most modern of its kind in India, is situated on a 132-acre land on the south shore of Trombay Island, about seven miles north-east of Bombay. The station consists, at present, of two 62,500 kW units, and the layout permits expansion to an ultimate of four such units. A third unit of the same capacity is on order.

The plant is of semi-outdoor type, designed on the unit system basis with one boiler and one turbine per unit. The radiant type, water tube boilers at Trombay are designed to burn refinery waste gas, oil, and low-grade coal, and each of them is capable of generating steam at a rate of 600,000 lbs. hr at 1,325 psig and 955° F. The steam from the boiler will be delivered at 1,250 psig and 950° F to a 22 stage, twin cylinder, impulse turbine, which exhausts the steam into a single shell two pass condenser at 2½" Hg absolute. The steam in the condenser is cooled by means of sea water pumped from Bombay harbour through a 4,066 ft long 72" diameter steel pipe which projects approximately 2,000 ft. into the sea from the low water line. The condensed steam will be fed back to boiler at 410° F after passing through 5 feed-water heaters.

Each turbine drives a hydrogen cooled 13·8 KV, 50,000 62,500 KVA generator, which is connected to the transmission grid through a 80,000 KVA, 13 8/100 KV transformer.

The station was opened on 15th Dec. 1956.

The Tata Hydro-Electric System, comprising the Tata Hydro-Electric Power Supply Company, the Andhra Valley Power Supply Company and the Tata Power Company, is operated as an integrated electric power system serving an area in the State of Bombay of more than 1,000 square miles.

It is the largest power system in the country having a fixed capital expenditure in excess of Rs. 25 crores and an annual output representing more than one-fifth of the total electricity production.

Electric service is rendered to the textile mills and other industries of Bombay and the suburban areas, to the railways for electric traction, to local authorities, and, in bulk for retail distribution, to the electrical undertakings supplying Greater Bombay, Poona and ten other localities within the area.

The transmission network of the system consists of 576 circuit miles of 100,000-volt lines and the distribution network of 129 circuit miles of 22,000-volt overhead as well as 114 miles of 22,000-volt and 124 miles of 6,600-volt underground cables.

Substantial additions to the transmission and distribution network are expected to be made during the next few years.

The interconnected transmission lines of the Railway add another 272 circuit miles to form the combined Tata Hydro-Railway Grid.

Due to the change in the character of the system from one of pure hydro to a hydro-thermal and the increasing purchases of thermal

* Page 382.

energy to meet the growth, it became necessary to levy a thermal surcharge of 15 per cent on 1-4-54 which was revised effective from 1-1-56 to 24½ per cent to meet the cost of thermal energy. This resulted in increasing the overall charge from 0·42 As. before levy of any thermal surcharge to 0·525 As. per kWh. Still, it is lower than the average price at the beginning of the Second World War and compares favourably with that in any large commercial centre in the world.

A small quantity of power is also being drawn from the operation of the Power Pool *viz* an arrangement whereby private diesel generator sets with consumers are used to supplement the system requirements.

The full capacity of the Chola Plant of the State Electricity Board has already been brought into use and has been used up. The first set of Trombay went into operation in Dec. 1956 and the second set was brought into commission in April 1957. This would add to the system 125 MW.

The firm capacity of the entire system will then be 417 MW.

Indications are that this is not adequate and will be used up as it becomes available. Therefore, a study is in hand for adding additional capacity to the system.

ELECTRICITY BOARD SCHEMES

The original Bombay State Electricity Board for the pre-reorganization Bombay State was reconstituted on 1st February 1957, and has now taken over the assets and liabilities of all the State Electricity schemes in the merged areas.

Members of the Board : V. N. Mahida (*Chairman*), P. C. Hansotia, J. K. Modi, P. H. Bhutta, K. C. Patel, G. L. Natu.

Position as in March 1957 :

Total installed capacity ..	1,71,104 kW. Steam : 1,43,300 Hydro : 5,824 Diesel : 21,920.
Total number of towns and villages supplied with electricity	509
Total length of Transmission lines above 11 KV in miles ..	2,834
Total number of consumers ..	1,01,560
Total production	about 370 million units.
Total sale	about 308 million units.
Total expenditure on Electricity Schemes from 1950-51 upto 31st March 1957 ..	Rs. 23,00 lakhs (approx.).
Amount spent in 1956-57 on Electricity Schemes	Rs. 6,50 lakhs.
Establishment expenditure for the year ending 31st March 1957	Rs 26·92 lakhs.
Total estimated cost of the Schemes under the Second Five Year Plan	Rs. 30,00 lakhs.
Total estimated Foreign Exchange component required during the period	Rs. 17,10 lakhs.
Estimated Capital Expenditure for 1957-58	Rs.9,47 lakhs.

As a result of the intensive work carried out by the Bombay State Electricity Board the per capita consumption of electricity contributed by the Board is expected to be 25 kWh at the end of the Second Plan as against 12 kWh at the end of the First Plan.

The names of the more outstanding projects with the Installed capacity of each :—

North Gujarat Electric Grid Scheme	22,500 kW.
South Gujarat Electric Grid Scheme	22,500 kW.
Kolhapur-R.H.E. Scheme ..	6,000 kW.
Bhatgar Hydro Electric Scheme.	1,000 kW.
Khaperkheda Thermal Scheme.	30,000 kW.
Ballarshah Power House ..	22,500 kW.
Shahpur Grid Scheme	6,000 kW
Rajkot Diesel station	2,000 kW

The capital assets of the Board stood at about Rs. 31 crores on 31st March 1957.

North Gujarat Scheme

Under this scheme power is being purchased in bulk from the power station of the Ahmedabad Electricity Company at Sabarmati, which has an installed capacity of 127·5 kW, and distributed to various load centres in the North Gujarat area.

Capacity to the extent of 22,500 kW is assigned to the Board.

The first stage of the scheme has been completed. It comprises about 70 miles of 66 110 kV line, 14 miles of 33 kV and 50 miles of 11 kV transmission lines and about 180 miles of distribution lines, a receiving station at Sabarmati and 66/11 kV step-down transformer stations at Baroda, Nadiad, Anand, Barejadi and Petlad and 33/11 kV sub-stations at Kalol, Umreth together with 11 kV 400-230 Volts sub-stations in various towns and villages.

The supply under this scheme was commenced on February 15, 1951 and the licensees or the industries as the case may be at Baroda, Nadiad, Anand, Kalol, Petlad, Barejadi, Vallabh Vidyanagar and Dakore-Umreth now receive power under the scheme. Besides this, 68 villages were also electrified.

The system demand established upto the end of 1956 was 18,800 kW and the number of consumers served 5,419.

The total transmission and distribution lines laid is 750 circuit miles.

The area within the economic reach of the scheme is about 2,400 sq. miles.

During the Second Five-Year Plan extensions to the North Gujarat Scheme have been planned. The main features are :

Extension of Gaothan area of villages (Rs 23·48 lakhs); Extensions to Dehgaon and electric tube-wells (Rs. 27 84 lakhs); Electrification of Kalol-Vijapur Zone (Rs. 68·43 lakhs). Extensions to Jambusar and other villages (Rs. 34 99 lakhs); Extensions to major Sub-Stations to cater for additional loads (Rs. 37·81 lakhs); Extension to Karjan (Rs. 8·15 lakhs); power supply to the Surendra Nagar area from Pareja li sub-station, costing approximately Rs. 35 lakhs.

The cost given in brackets represents original estimates.

The total cost of these extensions is Rs. 224·59 lakhs in the Second Five-Year Plan, out of which Rs. 64 lakhs are to be provided by the Government of Bombay. The balance will have to be met from the internal resources of the Board.

The funds earmarked by the Bombay Government for the North Gujarat schemes are 64 lakhs, the balance will therefore be met from the internal resources of the Board ; as a result of the extension to the South Gujarat Scheme, loads in Baroda and the surrounding area can be met from the Utran power station of the Board under the South Gujarat Scheme.

South Gujarat Scheme

During the first Plan this scheme consisted of a steam power station at Utran near Surat, with three turbo-alternator sets of 7,500 kW each for supply of power in areas from Surat to Bulsar.

Supply under this scheme was commenced in November, 1952 and power is at present being given to Surat, Navsari, Billimora, and also to Bulsar, Rander and Kathor users.

Besides this, Gandevi town and 10 villages in Bulsar Taluka are also supplied with electricity.

The diesel generating station at Surat with an installed capacity of 3 000 kW of the Surat Electricity Co is interconnected with this scheme and is run as a controlled station when required.

The system demand upto end of March 1956 was 15,000 kW.

The number of consumers served was 1,158. The total transmission and distribution lines laid was 160 circuit miles.

An area of 900 sq. miles is within the economic reach of this scheme.

During the Second Five-Year Plan major extensions have been planned. They have also been approved by the Planning Commission, by which the installed capacity of the Utran power station would be augmented by three sets of 15 000 kW each. This will meet all additional loads expected to come on the system during the next five years and will also make possible supply to the Broach and Baroda loads from the South Gujarat Scheme, thus enabling corresponding blocks of power from the Ahmedabad Electricity Company's power house at Sabarmati to be distributed in the area north of Ahmedabad.

The revised estimate shows that the scheme might cost Rs. 384·20 lakhs

A transmission and distribution system will supply power to needy areas.

Extension of Utran Set-up Station ; a 66 kV D C line from Utran to Baroda via Broach, a distance of 80 miles will connect the north and south Gujarat schemes, a sub station at Broach, a second circuit for the Utran-Navsari-Bilimora 66 kV Line.

Nursery Schemes

For isolated towns and rural areas beyond the economic reach of the grid lines and with possibilities of cottage and small-scale industries and agricultural pumping small diesel stations under diesel nursery schemes were established.

A good number of the merged States power houses were old and the distribution system outmoded and inadequate. Some of them were therefore closed down and connected to neighbouring grid schemes.

Large scale renovation schemes were started particularly in Himatnagar, Radhanpur and Devgad Baria

The total aggregated units supplied under this scheme was 5·1 millions and the number of consumers served upto the end of the first Plan was 18,000. The total distribution lines instal ed is 360 miles.

A list of some towns covered under the Nursery Scheme is given below :—

District	Towns covered	Remarks
Surat (Rs. 4·97 lakhs) ..	Ten villages in Bulsar Taluka.	Supply has already commenced ; power in bulk was purchased from Bulsar licensee. These villages are now being supplied from the South Gujarat Grid Scheme.
Ahmedabad	Dhanduka.	Scheme was postponed due to financial stringency. The Central Government are giving a loan. Installation of diesel sets is in progress.
East Khandesh (Rs. 14·40 lakhs).	Dharangaon, Erandol and Parola.	Supply from the diesel power station (400 kW) has commenced.
Sholapur	Akluj.	Scheme was postponed due to financial stringency. The Central Government are giving a loan. Installation of diesel sets is being planned
Poona	Lonavla-Talegaon area.	Power is being purchased from Tatas.
Satara (North) (Rs. 11·34 lakhs).	21 villages in Satara Taluka.	Power in bulk is purchased from Satara licensee. Supply has already commenced.
Satara (South) (Rs. 4·57 lakhs).	Islampur-Peth.	Supply from the diesel power station (150 kW) has commenced.
Ratnagiri (Rs. 23·16 lakhs).	1) Ratnagiri. 2) Vengurla. 3) Chiplun. 4) Malwan.	The supply from all the four diesel power stations (400 kW) each has already commenced. Arrangements have been made to instal two 200 kW sets each at Ratnagiri and Vengurla to meet a growing demand. A 200 kW set at Ratnagiri has been commissioned.

Phaltan-Bhatgar Hydro-Electric Project. - A demand of about 10,000 kW can be met from this source, provided the power station is linked up either with Koyna when developed or the Tata system at Poona.

At present Bhatgar Power House has an installed capacity of 1,024 kW. Power from this station is transmitted to Rajewadi, Shirwal, Nira, Narsapur, Lonand and Phalton.

The number of consumers served was 548 and the maximum demand established was 560 kW.

Bhandardara-Randha Electric Scheme.— The existing Wilson dam across the Pravara River in Ahmednagar District lets down water in varying quantities in the Pravara Canal System. About 3½ miles down stream at Randha the river has a natural fall of 140 feet. Power is proposed to be generated at the foot of the Wilson dam and at Randha.

The scheme provides for the installation of two 7,500 kW sets at Bhandardara and two of 6,000 kW at Randha. Advantage is proposed to be taken of the nearness of Central Railway transmission lines at Igatpuri which form a part of Bombay-Poona Inter-connected System. In times of low output, one of the 18,000 kW sets at Chola will be brought into service.

Power will be supplied to Nasik, East and West Khandesh and Ahmednagar Districts where the demand is estimated to be 17,000 kW

The capital cost of the scheme is estimated to be of the order of Rs. 700 lakhs.

Narbada River Project.—In order to meet the anticipated demands of power in the Fourth Five Year Plan it is imperative that the development of the lower reaches of Narmada River be so taken up as to enable the commissioning of the initial power house at Punasa (in Madhya Pradesh) together with storage facilities there, more or less by the end of the Fourth Five Year Plan.

For this purpose the Central Water and Power Commission are expected shortly to start the preliminary surveys and investigations. The Rs. 70 crores Punasa Power Project in Khandwa District is expected to generate 3,00,000 kW of power initially.

Tapi(Tapti) Project.—Under this project, which was initially intended to be an irrigation scheme only, it is now proposed to also develop hydel power with initial installed capacity of 24,000 kW the ultimate capacity being 216,000 kW. The work is being carried out by the Central Water and Power Commission on behalf of the Bombay Government. The Tapti Hydel power when available will supply the power requirements of the South and the North Gujarat Electric Grid Schemes.

At present only the irrigation part of the project is being proceeded with because of financial stringency. Total cost : Rs. 6 crores.

Radhanagari.—The Radhanagari scheme is a multi-purpose project for irrigation, power generation and water supply and comprises construction of a dam, about 140 feet high above the deepest foundation across the Bhogavati River, about 32 miles from Kolhapur, and a power station with an installed capacity of 4,800 kW at Radhanagari in Kolhapur District.

Hydro-Electric supply was commenced from August 1952.

This is operated in conjunction with :
The Emergency Irrigation Diesel Power Station (1,350 kW) for supplying power for irrigation and industries at Kolhapur.

The estimated cost of the two together is about Rs. 35·62 lakhs.

The interconnected system, besides supplying power to Kolhapur City which is partly served by Government and partly by the Kolhapur Electric Supply, supplies power to 39 agricultural pumps along Bhogawati and Panchaganga rivers and to the licensees of Kolhapur, Ichhalkaranji, Jaysingpur, Wadgaon, Hupri and seven other villages in the region.

The extension of the scheme towards Sangli and Miraj was executed under the Second Plan.

The total number of consumers served is about 5,000.

Chola Steam Station.—In order to relieve the acute power shortage existing in the Bombay-Poona area since 1949, it was decided, in consultation with the Railway Board, to extend the Railway's power station at Chola by an additional installed capacity of 54,000 kW (3 units of 18,000 kW each).

The scheme cost about Rs. 4 crores and is operated as a part of the Tata-Central Railway Interconnected System.

This has been in operation since 1954. To ensure full supply to the Bombay-Poona area Tatas have set up a thermal station at Trombay. Later the Koyna project will contribute its supply of electric power.

The Chola Station has now been taken over by the Railways.

Koyna Project.—The first stage of development of the revised project as at present approved by Government now comprising storage of 36,045 m.c.ft. of water, behind a dam of 208 feet height above the river bed at Jalkawadi, sufficient to produce 240,000 kW of power.

The estimated cost of the dam, tunnel, necessary generating plant and transmission and transformation equipment for the first stage development is expected to be approximately Rs. 39 crores.

Upto Feb. 1958 about Rs. 10·35 crores was spent.

The foundation stone of this scheme was laid on January 16, 1954.

Supply of power is expected to start in 1961.

The dam is under construction, under the auspices of the Koyna Control Board.

The Koyna-Sholapur Transmission Scheme is based on the purchase of power from the Koyna Power House with major 110 kV substations at Karad, Satara, Vishrambaug, Pandharpur and Sholapur.

To strengthen the Bhatgar system an initial arrangement for supplying power from the Tata's Ganeshkind sub-station near Poona is also contemplated under the scheme.

This scheme is likely to cost about Rs. 457·85 lakhs out of which Rs. 300 lakhs will be spent under the Second Plan.

The scheme forms part of the Second Five Year Plan Projects under the Bombay Electricity Board.

Initial supply of power from this Scheme is expected to be commenced six working seasons after the funds are allotted for the commencement of the work.

Some Power Houses

The capacity and cost of other power houses are given below :

Chhota-Udepur (300 kW ; Rs. 5·01 lakhs) ; Rajpipla (410 kW ; Rs. 3·70 lakhs) ; Himatnagar (160 kW ; Rs. 2·63 lakhs) ; Radhanpur (60 kW ; Rs. 97,929) ; Dharampur (215 kW ; Rs. 1·66 lakhs) ; Mansa (16 kW ; Rs. 31,695) ; Santrampur (56 kW ; Rs. 54,755) ; Devgad-Baria (300 kW ; Rs. 1·27 lakhs) ; Banasa (80 kW ; Rs. 1·14 lakhs) ; Janjira (93 kW ; Rs. 52,239) ; Jawahar (38 kW ; Rs. 41,496) ; Wai (80 kW).

2·91-Crore Loan Scheme

This is a scheme sponsored by the Central Government for increasing employment opportunities. As it was sanctioned only towards the end of the First Five Year Plan period not much progress could be achieved in the First Plan. The scheme is, therefore, continued in the Second Plan period and works under it are in full swing. The extensions coming under this scheme are mainly the following :—

i) Extension to Kadi Licensee.
ii) Electrification of Mahuda, Vina and Ankalav.
iii) Electrification of Viramgam and Sonand.
iv) Electrification of Dholka and round about villages.
v) Electrification of villages in the Nadiad-Petlad Zone and the Anand-Petlad-Cambay Zone.
vi) Electrification of tube-wells in Mehsana.
vii) Renovation of the existing diesel nursery schemes and the installation of the new diesel nursery schemes.

Revised Khandesh-Marathwada Electrification Scheme

This scheme contemplates power supply to the Khandesh and Marathwada areas. Stage I of the project is proposed to be completed during the Second Five-Year Plan and Stage II in the Third Five-Year Plan.

Under Stage I of the scheme it is proposed to extend the Akola (Paras) Power Station by the addition of a 30 MW turbo alternator set, and supply power to important loads in Khandesh and Marathwada areas, including the Railway load at Bhusaval for the proposed electrification of their Igatpuri-Bhusaval tracks.

There will be major 132 KV sub-stations at Bhusaval and Dhulia, and 66 KV sub-stations at Parbhani, Purli, Nanded, Jalna and Aurangabad supplying power at 11, 22 and 33 KV to the towns of Bhusaval, Jalgaon, Raver, Faizapur, Savda, Yaval, Amalner, Chalisgaon, Chopda, Dhulia and Malegaon in Khandesh, and Parbhani, Purli, Jalna, Aurangabad, Nanded and Ganjakhed in the Marathwada area.

Under the Stage II of the scheme, in order to meet the increasing demands of these areas, a power station is proposed to be established at Bhusaval with an installed capacity of 2 × 30 MW capacity. Further transmission and distribution lines also will be laid and besides meeting additional loads in the towns already served under Stage I, power supply will also be made available to Jamner, Shendurni, Pachora, Nerdana, Shirpur in Khandesh area and Sailu, Purna, Manwat, Partur, Jantur, Hingoli, and Pathri in Marathwada area.

The total cost of the scheme is Rs. 1,420 lakhs of which Rs. 626 lakhs is the estimated cost of the 1st Stage.

The scheme has only recently been approved by the Bombay State Electricity Board and is under the consideration of the Government of Bombay and the Planning Commission.

MERGED AREAS

Vidarbha Region

The Khaperkheda Scheme: This consists of a thermal generating station at Khaperkheda, situated 8 miles by road from Nagpur, with 3 turbo alternator sets of 10,000 kW each.

Power generated here is transmitted to Amaravati a distance of 120 miles from Khaperkheda. From Amaravati another line, 29 miles long, caters to the loads in Achalpur area. Akola and Khamgaon areas in Akola District are supplied over 112 miles of 66 KV line from Amaravati. The 66 KV lines are tapped at Wardha, Pulgaon, and Murtizapur to feed the loads in these areas. 33 KV and 11 KV distribution lines totalling 280 miles are laid to supply the loads at Chandur, Dhamangaon, Akot, Yeotmal, Darwa, Digras, Pusad, Karanja, Daryapur and Basim from the sub-stations.

From the Khaperkheda power station a 66 KV line also takes off towards the north to supply power to Mansar, Tumsar and Gondia in Bhandara District; the Balaghat and Katangi areas in Madhya Pradesh are also fed from Khaperkheda over this line. The supply of power also extends over a 66 KV line to Saoner, Chhindwara, Barkui and as far as Parnara in Madhya Pradesh.

From the main 66 KV sub-station at Nagpur, all the important taluka towns and commercial centres are fed by means of 33 KV and 11 KV distribution lines, totalling about 200 miles in length.

In the Second Five-Year Plan, under the head "Development in Southern Grid", it is proposed to extend the Khaperkheda Thermal Station by an additional set of 30,000 kW and to lay 41 miles of 66 KV line from Khaperkheda to Bhandara and to erect necessary sub-stations. The project also provides for a 30,000 kW Thermal Station at Paras near Akola and laying transmission lines in Amravati-Akola-Malkapur Region and erection of necessary sub-stations, 203 miles of 66 KV lines, 117 miles of 33 KV lines and 250 miles of 11 KV lines.

The total estimated cost of the scheme under the Second Five-Year Plan is Rs. 728·59 lakhs.

The Ballarshah Thermal Station is the other central power station situated in the Southern Grid area. This comprises 3 turbo alternator sets of 7,500 kW each and is interconnected with the Khaperkheda system over 66 KV transmission system at Wardha. The double circuit line of length 89 miles between Wardha and Ballarshah also supplies power to the Hinganghat and Warora areas in the Wardha and Chanda Districts respectively.

The maximum demand of this interconnected Khaperkheda-Ballarshah system *viz.*, the Southern Grid, has gone to about 30,000 kW and the anticipated load in 1960 is about 53,000 kW.

The Ballarshah station (22·5 MW) lies in the coal mining region of Vidharba.

The capital expenditure spent on the various schemes in the Vidarbha areas which passed to the Bombay State Electricity Board is approx. Rs. 1029·39 lakhs.

Saurashtra Electricity Board

Shahpur Station: This project consists of two turbo-sets of 3,000 kW each at Shahpur, on the bank of the river Ozat in the district of Sorath. The power generated at this station is stepped up to 33,000 volts for distribution to important places in the areas of Junagadh, Dhoraji, Upleta, Manavadar, Keshod, Mangrol, Veraval and Kodinar. The area of supply practically covers the whole of Sorath and a part of Madhya Saurashtra.

Three 33 KV lines going to Upleta, Manavadar and Veraval form the backbone of the grid system based on this station.

The scheme was commissioned in December 1956.

The estimated cost of the scheme is about Rs. 153·66 lakhs.

The construction of lines to various load centres included under the First Plan was delayed and an amount of Rs. 50 lakhs will be spent in the Second Plan to complete the above scheme. It is also proposed in the Second Plan to extend the Shahpur Thermal Station by the installation of 2 × 5,000 kW turbo-alternators sets and to supply power to Veraval and Kodinar areas by the extension of suitable lines.

The total estimated cost of this Shahpur-Veraval Scheme in the Second Five Year Plan is Rs. 100 lakhs

Bhavnagar Power House: Bhavnagar Power House with an installed capacity of 2,000 kW belonged to a private company, *viz.* Godhra Electricity Co Ltd. A new company called the Bhavnagar Electricity Co. Ltd. was formed in 1952 wherein the State invested Rs. 20 lakhs to acquire interest in the power house before proceeding with the expansion.

The old power house was taken over by the new company in April 1954. Soon after taking over one 2,000 kW turbo-set was added. One 45,000 lbs. per hour boiler was also installed. As the old building was not large enough a new building was constructed.

The scheme as included in the Second Five Year Plan consists of the installation of 2 × 4,000 kW turbo-sets in the new power station and extension of lines from Bhavnagar Power House for power supply to Sihor, Songadh, Palitana, Lathi and Kartej. The estimated cost of the Board's contribution in the Bhavnagar Electricity Co. Ltd. for the establishment of a Grid in Bhavnagar area is Rs. 50 lakhs only.

Power Houses at Rajkot, Gondal, Dhrangadhra, Porbunder, Dhoraji and Palitana: The expansion in the above areas was necessary mostly to regularise, and to make available, dependable power to the community, which was mainly dependent upon the surplus power available from the industrial concern in those places.

The expansion of the six power houses mentioned above added nearly 4,300 kW of generating capacity, 38 miles of 33 kV lines, 12 miles of 11 KV lines, H.T. and L.T. Substations, 750 kW of rectifying plant, etc.

The Rajkot area scheme consists of an extension to the existing diesel station at Rajkot by the installation of 3 × 1,000 kW diesel sets and the conversion of the existing D.C. supply to A.C. supply and the extension of transmission and distribution lines to meet the increasing demand in Rajkot, Gondol, Toramba and Pudhari. The station capacity has been extended by 3,000 kW and transmission work including conversion is in progress. 1,379 consumers were converted to A.C. supply during the year.

The estimated expenditure of the scheme in the Second Plan is Rs. 22·57 lakhs.

The Porbunder Scheme consists of the installation of 3 × 5,000 kW turbo-sets to supply power to Porbunder, the Soda Ash and Caustic Soda Plant of Messrs. Birla Bros. and the cement factories that are proposed to be set up in the region. Power is proposed to be transmitted over 33 and 11 KV lines to Kutiana and Bhavnagar towns. The work on steam station erection is in progress.

The estimated expenditure of the scheme is Rs. 168·16 lakhs during Second Five Year Plan period.

The area was served by a diesel power house at Jamnagar belonging to Jamnagar Electric Supply Co. and the Sikka Steam Station of Messrs. Nawanagar Electric Supply Co. Both these stations were acquired by the Saurashtra Electricity Board. The scheme of power supply to this area in the Second Plan therefore consists of extensions to the diesel power house at Jamnagar and the Sikka Steam Station at Sikka.

The extension of the Jamnagar diesel station was planned by the installation of 2 × 646 kW and 1 × 1,000 kW diesel generating sets, and the conversion to A.C. of 1,200 street lights and 7,000 consumers. Two 646 kW diesel generating sets were erected, tested and commissioned during the year. 3 — 300 KVA sub-stations were erected and energised 8 miles of L.T. lines were laid and 250 street lights and 1,018 consumers converted to A.C. supply during the year.

The Sikka Steam Station had an installed capacity of 8,000 kW with two turbo alternators of 4,000 kW capacity each. The extension envisages the addition of two more turbo-generators of 4,000 kW capacity each and associated equipment. Both the turbo-sets have been ordered and one has been received at the site. One boiler purchased from Messrs. Sholapur Spinning & Weaving Mills was to be commissioned in a short time while the other from Messrs. Skoda (India) Ltd. is under erection

The estimated cost of the scheme in the Second Five-Year Plan is Rs. 25·32 lakhs.

The Surendranagar area scheme consists of a step-down station at Surendranagar for which power will be transmitted over 66 KV S/C line from the North Gujarat Electric Grid Sub-Station at Barejadi. Power will be supplied to Limdi and Dhrangadhra from Surendranagar by providing suitable 22 kV distribution lines.

The Morvi-Wankaner scheme as originally proposed consisted of the installation of 2 × 2,000 kW turbo-sets at Morvi, part of this power being supplied to the Wankaner Licensee. The scheme is under modification. It is now proposed to connect up the Licensees power house at Morvi with the Board's Power House at Rajkot by 66 kV transmission lines.

Marathwada

In this region there are only two important schemes, at present, one at Aurangabad and the other at Nanded.

At Aurangabad a diesel generating station with an installed capacity of 787 kW serves 1,890 consumers whose total connected load amounts to 1,706 6 kW. This system consists of 19 5 miles of 3 3 KV transmission lines and a distribution network of 23·5 miles.

At Nanded, 250 kW of power purchased from the local Osmanshahi Mills in bulk is distributed to 1,487 consumers, with a connected load of 1,378·2 kW. The system consists of 8·25 miles of 6·6 KV lines and a distribution network of 15·6 miles of L.T. lines.

The new Nanded Thermal Power Station scheme envisages installation of 3 diesel generating sets of 500 kW at Nanded, and is expected to meet the full demand of Nanded Town.

22 KV transmission lines 40 miles long will be laid to Purna and Parbhani. The estimated load demands are about 200 kW at Purna and 400 kW at Parbhani.

The estimated cost of the scheme in the Second Five-Year Plan is Rs. 16·82 lakhs.

The rural electrification scheme included in the Second Five Year Plan consists of the electrification of 5 towns, *viz*., Latur, Bhir, Hingoli, Purli and Osmanabad by installing small diesel nursery stations with the following installed capacities. It is essentially a spill-over scheme from the First Plan :
Bhir, 2 × 50 kW ; Osmanabad, 2 × 50 kW ; Purli, 2 × 50 kW, Hingoli, 2 × 50 kW ; Latur, 2 × 200 kW.

The total cost of the scheme is Rs. 16·48 lakhs

The Purna Hydro Electric Scheme is being executed under the auspices of the Government of Bombay. However, it is expected that the transmission and distribution portion of the project would be handed over to the Bombay State Electricity Board. Some important features of the project as at present sanctioned, are as under :—

The scheme envisages the construction of a storage dam 132 ft. high at Yeldari on the River Purna, a tributary of the Godavari. The reservoir has a gross capacity of 25,307 million cft. and a net capacity of 16,432 million cft.

In the power station situated at the top of the dam, it is proposed that 2 units of 5,000 kW be installed initially with a provision for the addition of a third unit of the same size at a later stage.

The total estimated cost of the project is Rs. 303·92 lakhs and can serve the power needs of the industrial towns in the Marathwada Districts of Parbhani, Nanded, and Aurangabad.

Power Projects of Kutch

Kutch has about 964 villages and 10 towns, out of which Bhuj is the largest. At the beginning of the First Plan, Kutch had a total installed capacity of 615 kW (all diesel generation) and the total demand on these power stations was about 275 kW.

Out of a total of Rs. 112 lakhs allotted during the First Plan Rs. 23 lakhs was spent for the following projects :

i) Taking over of the electrical undertakings at Mandvi and Bhuj from the Kutch Development Co.

ii) Construction of a new power house at Bhuj and conversion of D.C. to A.C. in this town.

iii) Rural electrification of the Nakhatrana area.

iv) Supply of electricity to Kandla Port and adjoining areas.

v) Power station at Mundra.

vi) Extension of electric lines to 15 villages around Bhuj, Mandvi and Mundra.

Of the above numbers (i) and (v) were completed during the First Plan period.

The rest would be completed during the second Plan period for which a provision of Rs. 88·9 lakhs has been made.

The Central Power Station at Kandla and the rural electrification schemes consist of the installation of 2 × 3,000 kW turbo-sets at the Central Steam Station at Kandla, the major port of Kutch and the west coast area at a capital cost of Rs. 68·49 lakhs. 33 kV lines are contemplated from this station to supply the loads at Bhuj, Anjar, Bachau, Nakhatrana, Mandvi and Mundra from where 11 KV lines will meet the rural loads nearby.

Diesel Stations of 300 kW and 600 kW capacity respectively are also contemplated at Rapar and Kothara.

A number of villages are also proposed to be electrified during the Second Plan at an estimated cost of Rs. 129·99 lakhs.

HOUSING

Notes are given below about housing projects in Bombay.

In Bombay city itself it might be pointed out there are about 140 slum areas housing nearly half the city's population.

There are about 200,000 single-room tenements which house about 1,200,000 persons.

About 20,000 to 55,000 residential buildings are over 60 years old. About 9,000 of these accommodate as many as 500,000 persons.

The State has 21 slum clearance projects at a total cost of Rs. 2·67 crores (Union Govt. subsidy 25 per cent, loan 50 per cent). Of these 21 projects five are for the Poona Corporation (1,930 total one-room tenements), seven are for the Ahmedabad Corporation (1,856 total one-room tenements), the remaining nine projects for the Bombay Corporation (2,342 one-room tenements).

Practically all the tenements have individual bath and W.C. for each unit.

They are due for completion by March 31, 1960.

There is a Rural Housing Cell for Bombay State at the State headquarters. It will provide technical guidance to local authorities in drawing up master plans for housing projects.

In Special Multi-purpose Projects—Community Development—National Extension Service Block areas, Collectors and Deputy Commissioners have been given power to advance loans to villagers on certain conditions.

In 1957-58 Rs. 3,80,000 were allotted for subsidizing housing for Scheduled Tribes, and Rs. 1,50,000 for Scheduled Castes.

BOMBAY HOUSING BOARD

The achievement of the Bombay Housing Board is given below in a tabular form : The position is as it existed at end of Aug. 1957.

No.	Scheme.	Tenements completed.	Under construction.	Total.	Total expdtr. (Rs in lakhs)
	(A) *Industrial Housing.*	17,050	4,864	21,914	771 152
	(B) *Low Income Group Housing.*				
1.	New construction of buildings	2,067	–	2,067	122 82
2.	Reconditioned hutments	1,187	-	1,187*	28 98*
3.	'Own Your Own House' scheme for Low Income Group .	..	18	18	1 00
4.	Development of sites for Low Income Group people (Juhu and Vile Parle) .	–	–	–	2 76
	(C) *Rehabilitation Housing.* Housing for D P's. .	25,162	828	25,990	486 00
	(D) *Schemes on behalf of Private bodies.*				
5.	Burmah-Shell Oil Refineries Ltd .	500		500	36 95
6.	Juhu-Vile Parle Development Scheme works of Development of 18 co-operative Housing Societies only in the area .	–	–	–	75 91
	Total ..	45,966	5,710	51,676	1525·572

* Ex Military Hutments have since been demolished and the credits accrued have been adjusted accordingly.

During the Second Plan it is proposed to construct 16,623 tenements (old State) at an estimated cost of Rs. 6·58 crores.

LABOUR AND SOCIAL WELFARE DEPARTMENT

The Government of Bombay undertakes construction of tenements for industrial workers under the Industrial Housing Schemes sponsored by the Government of India.

Till the end of the year 1956-57, the construction of 15,872 tenements costing Rs. 538 78 lakhs had been completed and the construction of 12,702 tenements costing Rs. 440·85 lakhs was under progress.

These tenements were constructed at Bombay, Ahmedabad, Nagpur, Rajkot, Nanded and other industrial centres.

The construction of tenements is undertaken through certain statutory bodies, *viz*., the Bombay Housing Board, the Saurashtra Housing Board and the Vidarbha Housing Board.

In Marathwada, the construction is departmentally undertaken.

Particulars about Low Income Group Housing Schemes carried out under the auspices of the Labour and Social Welfare Department are given below :

No. of tenements completed upto June. 1957 ..	1,960
Land developed	95 acres
Total expenditure on the Scheme	Rs. 214 lakhs

Loan is given to various categories of persons and institutions such as individuals, Co-operative Housing Societies, Local Bodies like Municipalities, Panchayats, Charitable Institutions, etc.

No rent is charged in the case of individuals as they have taken loans for their own residence. In the case of Local Bodies, they may fix the rents in accordance with the cost of construction, floor area, etc.

The scheme is intended to relieve the housing shortage in the case of persons whose total annual income does not exceed Rs. 6,000. The loan is granted upto 70 per cent. of the estimated cost of construction of a tenement subject to the maximum limit of Rs. 8,000 at rates varying from 5 to 5½ per cent. per annum. It is repayable by half yearly or annual equated instalments within a period of 10, 20 or 30 years The person repaying the loan instalments regularly gets a rebate of ½ per cent.

For the purpose of individuals who are not in a position to obtain house building sites and construct houses with loans themselves, the Bombay Housing Board has been given a loan to construct houses and sell these houses on a hire-purchase basis.

The Scheme of Low Income Group Housing has recently been modified by the Government of India so that the State Governments are authorised to construct houses for rental purposes on No Profit No Loss basis, and accordingly a programme for the construction of houses in the bigger cities by the Bombay Housing Board is under active consideration.

The details of construction of tenements, shops and school buildings for Displaced Persons are given as under :-

Item.	Completed.
Residential tenements in Displaced Persons Colonies .	38,113
Shops	2,565
School buildings	15

Every Collector of a District in the residuary State area is competent to grant loans for that area For Vidarbha the Secretary, Vidarbha Housing Board, Nagpur, is competent to grant loans.

Government has decided to participate in the Slum Clearance Scheme of the Government of India, which provides for a Central loan of 50 per cent and a subsidy of 25 per cent on condition that the State Governments and local bodies concerned bear the balance of the cost in their share of the subsidy

It is proposed to concentrate first on large industrial cities such as Bombay, Ahmedabad, Poona and Nagpur, where slum conditions are bad

Projects worth about Rs 4 crores have already been forwarded to the Government of India, and that Government has sanctioned schemes worth Rs 47 lakhs.

Proposals from other smaller Municipalities have also been called for and the scheme would be extended to these towns, if sufficient funds available

MARATHWADA

Brief notes on industrial housing and low-income group houses in Marathwada are given below.

No. of tenements completed upto the end of 1957 : 1,490 (Industrial Labour Houses) ; 267 (Low Income Group) ; Total : 1,757.

No. of tenements under construction : nil.

Total expenditure upto 31st March, 1957 : Rs 49,36,903.

Size of tenements and no. of each class. 1,077 one-room ; 348 two-room ; 32 three-room. The size of a room is 12' × 9'

Cost of building : One-room Rs. 2,700 ; two-room Rs. 4,600 ; three-room Rs. 7,000.

Rent charged (provisional) : one-room Rs. 10 ; two-room Rs. 18 ; three-room Rs. 26. These are exclusive of water or electricity charges.

The location of these tenements is as follows.

Industrial Labour Houses : Aurangabad 200 ; Latur 200 ; Jalna 283 ; Nanded 807.

Low Income Group : Aurangabad 50 ; Nanded 50 ; Latur 40 ; Parbhani 26 ; Jalna 40 ; Hingoli 10 ; Basmathnagar 10 ; Udgir 15 ; Osmanabad 10 ; Bhir 15.

SAURASHTRA HOUSING BOARD

At the end of 1955, 700 tenements were completed under the industrial housing scheme. The target for the second Plan is a total of 6,034 tenements.

The tenements are one-roomed, with a total floor space (including bath, W.C.) of 288 sq. feet. Each tenement costs about Rs. 3,300. The Government of India has fixed the standard rent at Rs. 10 per month. The rent actually charged is in some cases Rs. 9 and in others Rs 10.

The District-wise distribution of the 700 tenements completed is as follows :

Gohilwad 200, Halar 200, Madhya Saurashtra 200, Sorath 40 and Zalawad 60.

During the year 1955-56 the construction of 1,000 tenements was undertaken by the Board under the Subsidised Industrial Housing Scheme.

During 1956-57 the construction of another 834 tenements was taken in hand.

A sum of Rs 19,28,939 was debited for the construction of all these tenements upto 31st March, 1957.

In all, it is proposed to build 4,334 tenements during the Second Plan under this scheme.

With a view to providing fully developed plots to Co-operative Societies and individual applicants for the construction of houses on No Profit No Loss basis, it is proposed to develop 30 acres of land for each of the five years of the second Five-Year Plan from 1956-57 to 1960-61 at an estimated cost of Rs 17,50,000. A sum of Rs 3,45,000 for the development of 30 acres of land during 1956-57 is already sanctioned by the Government of India, and that amount has been allotted to the Board

A sum of Rs 3,45,000 was provided in the budget estimate for 1957-58 for the development of 30 acres of land at Jamnagar.

VIDARBHA HOUSING BOARD

Details about subsidized industrial housing schemes and low-income group housing schemes executed by the Vidarbha Housing Board are given below

Under the industrial housing scheme plans for about 4,350 one-roomed tenements were drawn up during the First Plan period under the Government of India's original as well as the modified schemes of 1949 and 1952. Of these 4,350 tenements, 1,680 were completed.

The progress achieved to the end of Aug 1957 is as follows :

Period.	Qrs. built by Co-op. Societies.	Qrs. built by Local Bodies.	Qrs. built by Individuals	TOTAL
1957-58 (upto end of Aug 1957)	437	135	124	696
In progress	462	135	63	660

The tenements built under this scheme are being allotted on hire-purchase basis or on outright sale.

The area provided by a tenement is roughly 220 sq. feet. The standard cost of building is about Rs. 2,700 inclusive of cost of land. The rent charged is Rs. 10 per month.

Details regarding the town-wise distribution of the tenements built are as follows :

Fifty tenements were built by the Vidarbha Mills at Achalpur. These were completed on May 1st, 1955. They were built under the Government of India's original scheme of 1949.

Under the Government of India's modified scheme of 1952, 450 tenements were built in Nagpur, 100 at Pulgaon and 100 at Hinganghat.

A third scheme was set on foot to construct 1,000 tenements at Nagpur and 200 at Akola. While the 980 tenements at Nagpur were completed, work on the 200 tenements at Akola has not started.

A fourth scheme has been drawn up for the construction of 2,000 tenements in Nagpur, 200 in Akola, 100 in Pulgaon and 200 in Achalpur. But work is still in the preparatory stage.

Under the Low Income Group Housing scheme, a 30 year loan is advanced to the State Government for disbursement to persons whose income does not exceed Rs. 6,000 a year or to Housing Co-operative Societies consisting of such persons. The loan assistance is limited to a figure not exceeding 80 per cent of the actual estimated cost of the house, inclusive of land, subject to a maximum of Rs 8,000 per house In the case of local bodies the loan assistance is limited to a figure not exceeding 80 per cent of the actual cost of the house, including land subject to a maximum of Rs 2,800 per house. The remaining 20 per cent of the cost will have to be found from the builders' own resources.

The accommodation to be provided in each house built under the scheme, should not be less than 380 sq. ft of floor area, and normally not more than 1,200 sq ft The Housing Board was asked by the old Madhya Pradesh Government to implement the Scheme.

The total amount of loan obtained from Government to the end of March 1957 was Rs 1,10,93,400 A further sum of Rs 5,00,000 was received from Government in June 1957 for disbursement during 1957-58 under the scheme. Thus the total amount of loan obtained from Government was Rs 1,15,93,400 of which Rs 1,08,95,842 was disbursed to the end of October 1957.

EMPLOYEES' STATE INSURANCE CORPORATION

The following particulars show the position as on 31st Dec 1957 in relation to the Bombay region (that is, the old Bombay State, Saurashtra and Kutch) :

Total number of employees : 8,71,516.

The following particulars show the position as on July 1, 1957 in relation to Greater Bombay :

Total number of insured workers : 5,54,422.

Total number of panel doctors : 1,196 (118 ayurvedic, 6 unani, rest allopathic).

Total number of general beds sanctioned : 500.

Total T. B. beds : 250.

Number of diagnostic centres : 6, Number of ambulances 6.

Number of laboratory tests 2,08,394; Number of persons screened : 44,394, Number of persons X-rayed : 46,074; Number of approved chemists : 104, Number of costly drugs : 105.

The following particulars show the position as on 31st Dec. 1957 in relation to Vidarbha :

In the eight Districts here the scheme has so far been implemented in three towns : Nagpur, Akola and Hinganghat. (The last in Wardha District.)

The number of employees covered : 39,500.

Diagnostic and special treatment are provided in the Mayo Hospital and the Medical College Hospital, Nagpur.

General medical treatment is provided under the 'service system,' that is, in the State Insurance dispensaries.

The number of beds reserved in Nagpur: 45 (includes 10 T.B. and 10 maternity beds); in Akola: 6; in Hinganghat: 4.

In addition to the above, five T.B. beds are reserved in the T.B. Sanatorium at Buldana.

The offices concerned are:

1. Employees' State Insurance Corporation, Bombay Regional Office, Colaba Causeway, Bombay 5.
2. Administrative Medical Officer, The Employees' State Insurance Scheme, Bombay State, Indian Mercantile Chambers, Ballard Estate, Bombay 1.
3. Employees' State Insurance Corporation (Kanpur Regional Office), 7/202, Swarup Nagar, P.O. Box 169, Kanpur.
4. Regional Administrative Medical Officer, Employees' State Insurance Scheme, Vidarbha Region, Nagpur.

The last two for the Vidarbha area.

(See also Employees' State Insurance Corporation in the article 'Labour'.)

AAREY MILK COLONY, 1957

Started: March 1949.

Area: 3,167 acres.

Number of dairy farm units at Aarey: 28.

Number of buffaloes and other stock: 17,300 (Sept. 1957).

Total quantity of milk per day from Aarey: 2,400 maunds.

Total quantity of milk per day from Anand: 800 mds.

Number of milk distribution centres in Greater Bombay: 843.

Total number of consumers taking milk from Scheme: 15,00,000.

Quantity of toned milk distributed to school children in Bombay city per day: 60,000 in 6 oz. bottles.

Value of milk distributed per annum Rs. 3,60,00,000.

Number of bottles filled daily at the colony: 500,000.

Total quantity of whole milk processed per day: 2,200 maunds.

Total quantity of toned milk processed per day: 2,200 maunds.

Government employees working in the scheme: 5,000

Private employees of the cattle-owners: 2,500.

Sale price of whole milk per seer: 88 nP.

Sale price of toned milk per seer: 44 nP.

LABOUR

Particulars about labour in Bombay State are given below:

Total number of registered Factories: 10,813 (As on 31st Dec. 1956).

Number of Works Committees functioning: 286 (24 in Saurashtra and Kutch, 'Nil' in Vidarbha, 2 in Marathwada and 260 in the remaining areas of the State).

Average daily number of workers employed in factories: 9,60,333 (in 1956).

Number of towns covered by the:

Bombay Shops & Establishments Act: 86.

Saurashtra Shops & Establishments Act: 22.

Central Provinces & Berar Shops and Establishments Act: 14.

Hyderabad Shops & Establishments Act: 16.

Number of industries covered by the Bombay Industrial Relations Act, 1946: 10.

Number of workers covered by the Bombay Industrial Relations Act, 1946: 5,24,500 (As on 1st Aug. 1957).

Number of registered trade unions in the State: 1,599 (As on 31st March 1957).

Total membership of registered trade unions 7,75,688 (As on 31st March 1957) in respect of 1,176 unions. The membership figures of 423 unions from the merged areas is not available.

Number of Regd. trade unions affiliated to I.N.T.U.C.: 176 (As on 31st March 1957) *.

Membership of unions affiliated to I.N.T.U.C.: 2,31,434 (As on 31st March 1957) *.

Number of regd. trade unions affiliated to A.I.T.U.C.: 38 (As on 31st March '57) *.

Membership of unions affiliated to A.I.T.U.C.: 57,914 (As on 31st March '57) *.

Number of regd. trade unions affiliated to H.M.S.: 81, (As on 31st March 1957). *

Membership of unions affiliated to H.M.S.: 90,707 (As on 31st March 1957) *.

Total number of strikes: 143 (Jan. to June 1957)

Total number of workers involved in the strikes: 95,428 (Jan. to June 1957).

Total number of man-days lost due to the strikes: 3,70,662 (Jan. to June 1957).

The number of welfare centres in the

(*i*) Saurashtra and Kutch Areas: 25.

(*ii*) Vidarbha Area: 7.

(*iii*) Marathwada Area: 3.

(*iv*) Remaining Areas of the State: 50.

Attendance at these centres:—

(*i*) Saurashtra & Kutch Areas: 10,27,928 during 1955-56.

(*ii*) Vidarbha Area: 50 or more workers attend each centre daily.

(*iii*) Marathwada Area: About 100 per day.

(*iv*) Remaining Areas of the State: 1,87,16,889 during 1956-57.

WAGES

The statement below shows the per capita annual earnings of factory workers during the year 1956:

Industry.	earnings Rs.
Processes allied to agriculture (Gins and Presses)	141·69
Food except beverages	693·90
Beverages	1,195·03
Tobacco	476·86
Textiles	1,474·87
Footwear, other wearing apparel and made-up textile goods ..	1,051·90
Wood and Cork except furniture	829 72
Furniture and fixtures	970·02
Paper and Paper products ..	971·17
Printing, publishing and allied industries	1,269·97
Leather and Leather products (except footwear)	977·70
Rubber and rubber products ..	995·47
Chemicals and Chemical products	1,384·74
Products of petroleum and coal ..	1,812·94
Non-metallic mineral products (except products of petroleum and coal)	832·39
Basic metal industries	1,316·56
Metal products (except machinery and transport equipment)	1,271·99
Machinery (except electrical machinery)	1,268 15
Electrical machinery, apparatus, appliances and supplies ..	1,512·40
Transport equipment	1,819 03
Miscellaneous industries ..	1,170·06
Electricity, gas and steam ..	1,563·37
Water and sanitary services ..	1,273 85
Recreation services (cinema studios)	1,353 00
Personal services (laundries, dyeing and cleaning)	854·91

BOMBAY STATE FINANCIAL CORPORATION

The Bombay State Financial Corporation was set up by a notification of the Government of Bombay dated 30th November 1953 in exercise of the powers conferred by the State Financial Corporation Act, 1951.

The Corporation started functioning on 1st December 1953.

With effect from Nov. 1, 1956 the Bombay and Saurashtra State Financial Corporations were amalgamated and the new Corporation is called the Bombay State Financial Corporation, with headquarters in Bombay and a branch office in Rajkot.

It is proposed to open a branch office in Nagpur also.

The main office is at the United India Building, Sir Phirozeshah Mehta Road, Bombay.

The branch office is at Vijay Kunj, Jagnath Road, Rajkot.

The main object of the Corporation is to provide financial assistance to medium and small-scale industrial concerns in the State for purposes of purchase of land, plant and machinery and other assets for renovation and expansion of existing units and for the development of new ones.

Under an arrangement with the Government of Bombay, the Corporation, on behalf of the Government of Bombay, considers applications from small and medium scale units, under the State Aid to Industries Rules from Rs. 10,000 up to Rs. 75,000 and in exceptional cases up to Rs. 1 lakh. Liberal terms are offered to the prospective loanee concerns under the scheme, the rate of interest chargeable being 3 per cent for loans up to Rs. 50,000 and 5 per cent for loans up to Rs. 1 lakh.

Industrial concerns which are eligible for financial accommodation from the Corporation are those engaged in or to be engaged in the manufacture, preservation or processing of goods, or engaged in mining or in the generation or distribution of electricity, or other forms of power.

The Government of Bombay has fixed the authorised capital of the Bombay State Financial Corporation at Rs. 4 crores divided into 400,000 fully paid-up shares of Rs. 100 each of which 200,000 fully paid-up shares of the total value of Rs. 2 crores were issued and subscribed.

The shares of the Bombay State Financial Corporation are guaranteed by the State Government as to the repayment of the principal. Payment of annual dividend at the minimum rate of 3½ per cent. per annum is also guaranteed by the State Government.

The dividend payable on shares of the Corporation is limited to a maximum of 5 per cent. per annum.

In October 1957, the Corporation issued 4½ per cent 1967 10-year bonds of the face value of Rs. 1,16,50,800 at Rs. 99/8 per cent. Repayment of the principal and interest at 4½ per cent on the bonds is also guaranteed by the Government of Bombay.

Rate of interest for loans advances: 6½ per cent.

The period of loan is decided on merit but will not generally exceed ten years.

The amount of loan is advanced to the extent of 50 per cent. of the net value of the fixed assets, consisting of land, building, plant and machinery.

The Corporation received (inclusive of Rajkot branch) 66 applications during 1957-58 and the total amount of loan applied for, exceeded Rs. 1,98,00,000. The Board of Directors of the Corporation sanctioned loans of the aggregate amount of Rs. 3,21,20,000 till that date.

* Excludes information for Marathwad, Vidarbha, Saurashtra and Kutch.

BOARD OF DIRECTORS

Purushottam Kanji (*Chairman*), Gansham G. Thakkar, Dr. M. R. Mandlekar, T. K. Ramasubramaniam, Pravinchandra V. Gandhi, D. V. Potdar, V. P. Pandit, P. H. Bhutta, P. C. Malhotra, O. H. Gheewala (*Managing Director*).

OFFICIALS

Managing Director, O. H. Gheewala, B.A., LL.B.

Secretary, R. S. Pochkhanawala, B.Sc. (Lond.), Bar-at-Law.

Officer-in-charge, *Rajkot Branch*, L. D. Dave, B.A., LL.B.

CENTRAL PROVINCES RAILWAYS CO., LTD.

2'-6" gauge, open, worked by the Central Railway.

In 3 Sections, *viz.* :—

	Miles.
Murtajapur-Ellichpur	47·81
Murtajapur-Yeotmal	70·00
Pulgaon-Arvi	21·83
	139·64

CAPITAL.—Rs. 1,00,00,000 in shares of Rs. 100 each, out of which Rs. 94,00,000 has been issued.

Chairman, A. N. Haksar.

Directors, M. R. Chinoy; R. R. Saraiya; E. D. Sheppard; K. G. Milne; Financial Adviser and Chief Accounts Officer, Central Rly., Bombay, (Govt. Director).

Bankers, The Chartered Bank, Bombay.

Solicitors, Messrs. Little & Co., Bombay.

Auditors, Messrs. A. F. Ferguson & Co., Bombay.

Agents, Messrs. Killick Industries Ltd., Bombay.

REGISTERED OFFICE OF THE COMPANY. Killick House, Home Street, Fort, Bombay.

SECOND FIVE YEAR PLAN

The Plan for the new Bombay State involves a total outlay of Rs. 350·22 crores over the Second Plan period. For the year 1957-58 the programme was to involve an expenditure of Rs. 73·48 crores. This programme is, as always, subject to minor modifications. The details of the allotments are given below.

In addition to this programme the State Government will undertake schemes sponsored by the Central Government. The entire cost of these schemes is borne by the Centre. They are not, therefore, shown below. Prominent among these schemes are those relating to national highways, roads financed from the Central Road Fund, rehabilitation schemes, certain special backward classes schemes and the local development works programme.

(Rs. in lakhs)

Head	Plan 1956-61	1957-58
I. *Agriculture and Community Development*		
(i) Agricultural Production	838·52	214·82
(ii) Land Development	405·83	101·94
(iii) Minor Irrigation	1201·28	370·40
(iv) Warehousing and Marketing	321·08	80·26
(v) Animal Husbandry	296·18	57·89
(vi) Dairying and Milk Supply	446·30	88·23
(vii) Forests	274·07	41·27
(viii) Soil Conservation	476·07	126·53
(ix) Fisheries	111·52	24·50
(x) Community Development, National Extension Service and Rural Development	3819·04	710·11
(xi) Co-operation	463·76	109·81
(xii) Miscellaneous	21·51	4·09
Total, Agriculture and Community Development	8675·15	1929·85
II. *Irrigation and Power*		
(i) Multi-purpose Projects	4659·70	853·87
(ii) Major and Medium Irrigation Projects	6605·87	1307·09
(iii) Power Projects and Miscellaneous	2393·59	541·50
Total, Irrigation and Power	13659·16	2702·46
III. *Industry and Mining*	1313·67	285·55
IV. *Transport and Communications*—		
(i) Roads	2427·52	538·39
(ii) Road Transport	347·60	91·00
(iii) Ports and Harbours	149·20	42·35
Total, Transport and Communications	2924·41	670·74
V. *Social Services*—		
(i) Education	2296·71	370·50
(ii) Health	2749·05	630·84
(iii) Housing	1735·97	450·85
(iv) *Other Social Services*—		
(i) Labour and Labour Welfare	210·97	62·39
(ii) Welfare of Backward Classes	449·66	83·65
(iii) Social Welfare	167·60	18·17
Total, Social Services	7609·96	1616·40
VI. *Scientific and Industrial Research, etc.*	880·78	138·18
Grand Total	35063·13	7343·18
Deduct allocation for Abu Taluka	— 41·55	
	35021·58	

DEVELOPMENT PROGRAMME FOR (1958-59).

Below we give the development programme for 1958-59 :

Name of Head	(Rs. in Lakhs)
I. *Agriculture & Community Development*	
(a) *Agricultural Programme :—*	
1. Agricultural Production	392·06
2. Minor Irrigation	470·28
3. Land development	107·70
Total-Agriculture	970·04
Animal Husbandry	
1. Animal Husbandry	63·27
2. Dairying & Milk Supply	70·08
Total Animal Husbandry	133·35
1. Forests	42·93
2 Soil conservation	218·19
Total Forests & Soil Conservation	261·12
Fisheries	25·12
Co-operation	
1. Ware-housing & Marketing	68·34
2. Co-operation	82·35
Total Co-operation	150·69
Miscellaneous	4·72
Total (a)	1,527 04
(b) National Extension & Community Project	378·17
(c) Other Programmes, Village Panchayats and rural development	283·95
TOTAL I	2,207 16
II. *Irrigation & Power*	
1. Irrigational	1,367·48
2. Power (and Miscellaneous)	1,385·00
TOTAL II	2,752·48
III *Industry & Mining*	
1. Large & Medium Industries	75·25
2. Mineral Development	1·50
3. Village & Small Industries	102·65
TOTAL III	179·40
IV *Transport & Communications*	
1. Roads	688·14
2. Road Transport	51·00
3. Ports & Harbours	50·00
TOTAL IV	789·14
V. *Social Services :*	
1. Education	435·59
2. Health	587·00
3. Housing	388·69
4. Welfare of Backward Classes	101·00
5. Social Welfare	29 00
6. Labour & Labour Welfare	47·57
TOTAL V	1,589·45
VI *Miscellaneous :*	
1. Statistics	7·50
2. Publicity	13·34
3. Local Bodies & Urban Development	118·70
4. Cultural activities	4 46
5. Others	1 41
TOTAL VI	160 11
GRAND TOTAL	7,677 74

GREATER BOMBAY

On 1st Feb. 1957 Greater Bombay was enlarged by the addition of 34 villages of the Thana District having an area of about 75 sq. miles and a population of about 2 lakhs.

The area of Greater Bombay now would be about 175 sq. miles and the population over 30 lakhs.

The areas added include Malad, Kandivli, Mulund, Goregaon and Dahisar.

The new northern boundary now runs from the north of Dahisar village in the west, in the centre between the mile stones 21 and 22 on the Agra Road, and in the east north of Mulund Municipality.

The municipal area of Greater Bombay described above is also the area covered by Bombay City and the Bombay Suburban District from the point of view of revenue division.

The area of Bombay City is 25 sq. miles and the population 2,329,020 (1951 census). The area of the Bombay Suburban District is now about 150 sq. miles and the population about 7 lakhs (1951 census).

The Collector for Bombay City is also the Collector for the Bombay Suburban District. Bombay City Collectorate is directly under the Government and is governed in accordance with the provisions of the Bombay City Land Revenue Act of 1876.

The Bombay Suburban District has besides the Collector one Deputy Collector and two Mamlatdars one for each of the Talukas Andheri (also called South Salsette) with headquarters in Andheri, and Borivli with headquarters in Borivli.

The courts of Judicial Magistrate, First Class and Civil Judge (Junior Division), Borivli, were abolished.

Instead, three courts of Presidency Magistrates were established, two at Borivli and one at Mulund to deal with criminal cases. Civil suits up to the value of Rs. 3,000 will be disposed of by the Court of Small Causes, Bombay, and those of the value up to Rs. 25,000 by the Bombay City Civil Court. Suits of the value of over Rs. 25,000 will be filed in the High Court.

There are now six police stations under the Greater Bombay Police in the new area, one each at Borivli, Kandivli, Malad, Goregaon, Aarey and Mulund.

From February 1, 1957 the villages of Mulund and Nahur of Thana taluka and the whole of Borivli taluka, except the seven villages of Bhayandar, Dongri, Ghodbunder, Kashi, Mire, Rai Murdhe and Uttan, stood transferred from Thana district to the Bombay suburban district and were constituted into a taluka known as Borivli taluka.

The seven excluded villages have been transferred to the Thana taluka of Thana district.

In the process of amalgamation with Bombay City, the old Municipal Boroughs of Bandra (established in 1876), Kurla (estb. 1877), Parle-Andheri (estd. 1931), Juhu (estd. 1921), Ghatkopar-Kirol (estd. 1916) Malad, Kandivli and Mulund have ceased to exist.

AGRICULTURE

In Bombay Island proper though about 8 sq. miles of unbuilt and undeveloped land is available there is practically no agriculture. Vegetables, flowers and fruit are grown in private gardens and Wadis but on a very negligible scale. In the newly merged areas and the adjoining suburbs, however, extensive paddy cultivation is carried on. Vegetables and fruit are also grown especially during the monsoon. The produce is largely marketed in Bombay.

COMMERCE AND INDUSTRY

Commercially and industrially Bombay is the second, if not the first City in India. It is the principal centre of the cotton textile industry (66 cotton mills with 64,500 looms). Its share in looms and spindles is about 31 per cent of the total in the country. There are 170 textile factories including silk, woollen and hosiery ; 400 engineering undertakings ; 110 establishments manufacturing articles of food, drink and tobacco ; 110 establishments producing chemicals, etc. ; 50 hides and skins processing concerns, and 150 factories of a miscellaneous character.

After Calcutta, Bombay is the biggest financial centre in India. The Stock Exchange, Bullion Exchange and Cotton Exchange regulate trading in stocks and shares of a wide circle of industrial undertakings. The Reserve Bank of India, the central banking and currency authority has its headquarters in Bombay. About 33 Scheduled Banks operate in Bombay. Of these six have their headquarters here. There are over 15 foreign Exchange Banks. Of these seven have their principal offices located in Bombay. The head office of the Life Insurance Corporation of India is also located in Bombay.

Being the best natural harbour in India, the trade carried through Bombay is about 46 per cent of the total trade of India. The principal items of import are bricks, cement, sand, etc.; China clay ; coal ; cotton ; glassware ; grain ; hardware ; iron and steel ; kerosene ; fuel oil ; motor vehicle parts ; machinery ; boilers and railway materials ; oilman stores ; oils ; vegetables, etc. ; paper ; piece-goods; petrol ; sugar ; timber ; twist and yarn ; Government and naval and military stores.

The main exports are coal ; cotton ; flour ; groundnuts ; hemp ; hides and skins ; kerosene and fuel oils ; manganese ore ; myrobalans ; oil-cake ; piece-goods ; seeds ; spices ; sugar ; wool packages ; twist and yarn ; Government and naval and military stores.

The total returns to the Central Government from Greater Bombay in customs revenue is about 46 per cent of the total revenue from the seaborne trade of India. The income-tax return to the Central Government from Greater Bombay is about 30 per cent of the total income from the country. The Corporation Tax amounts to about 20 per cent of the total income from this source.

COMMUNICATIONS

From the communications point of view Bombay holds a unique position. There are numerous air routes connecting Bombay with the rest of the country, and it is also directly linked with foreign countries aerially. The head offices of two chief railway systems, the Central and Western Railways are in Bombay which is rail linked with Calcutta, Delhi, Nagpur and Madras. It is the second biggest port and the chief sea communications centre of India. Greater Bombay's transport requirements are met by the local services of the two railways, Central and Western, besides the tram and bus services of the municipalised Bombay Electric Supply and Transport Undertaking.

1951 CENSUS

Note : After the census were taken Greater Bombay was enlarged and a population of about 700,000 was added to it. The census given below do not include particulars about these 700,000 persons. But the census would indicate in a rough way the chief census characteristics of the population of the area.

The number of each religious group in Greater Bombay is given below. The first figure shows the number of males, the second figure the number of females :

Hindus (1,291,004 ; 748,240) ; Sikhs (8,617 ; 5,367) ; Jains (47,110 ; 33,000) ; Buddhists (1,049 ; 448) ; Zoroastrians (34,924 ; 33,736) ; Muslims (268,902 ; 143,364) ; Christians (117,560 ; 88,639) ; Jews (9,247 ; 6,838) ; Non-tribals (846 ; 379).

NON-INDIAN NATIONALS

The number of non-Indian nationals in Greater Bombay is given below. The first figure shows the number of males, and the second figure the number of females :

Portuguese (7,398 ; 4,361) ; British (2,624 ; 2,222) ; Pakistani (1,388 ; 289) ; Iranian (1,101 ; 525) ; Nepalese (792 ; 78) ; Chinese (964 ; 396) ; American (320 ; 174) ; Afghan (199 ; 43) ; Arabian (184 ; 72) ; African (43 ; 35) ; Burmese (43 ; 48) ; German (70 ; 48) ; Swiss (79 ; 65) ; Ceylonese (105 ; 30) ; French (60 , 40) , Danish (88 , 23) ; Russian (70 ; 20) ; Greek (24 ; 18) , Swedish (31 ; 15) , Israelites (43 ; 32) ; Italian (33 ; 28) ; Spanish (51 ; 4) , Norwegians (55 , 11) , Australians (32 , 14) ; Eire (23 ; 31) ; Iraqui (31 , 20).

For the rest the figure is less than 50 for each group.

AGE AND LITERACY

A ten per cent sample survey by age group showed the following position. The first figure in the brackets shows the number of males, and the second figure the number of females :

Number surveyed (171,940 , 103,996) ; Literates (93,654 , 38,847) , Illiterates (78,286 ; 65,149).

Age group 5 —9 : Literates (5,141 ; 4,445) ; Illiterates (7,531 ; 8,191).

Age group 10—14 : Literates (9,007, 6,747) ; Illiterates (3,833, 3,976).

Age group 15 24 : Literates (27,566 ; 24,400) ; Illiterates (54,008 ; 76,571).

Age group 25 - 34 : Literates (40,846 ; 13,707) , Illiterates (51,492 ; 73,357).

Age group 35 44 : Literates (14,527 , 4,255) ; Illiterates (11,530, 7,249).

Age group 45 —54 : Literates (7,758 , 2 106) ; Illiterates (5,995 ; 4,682).

Age group 55 64 : Literates (3,170 ; 1,070) , Illiterates (2,098; 2,531).

Age group 65 -74 : Literates (994 460) , Illiterates (467 , 924).

Age group 75 and over : Literates (295 , 152) ; Illiterates (143 , 406).

OCCUPATION GROUPS

The main occupation groups in Greater Bombay are as follows. The first figure in the brackets shows the number of males and the second figure the number of females :

All Industries and Services

Employers (48,933 , 1,614) ; Employees (879 268 ; 71,134) ; Independent workers (215,248 , 21,251).

Fishing

Employers (480 ; 22) ; Employees (1,694 , 125) ; Independent workers (2,805 , 761).

Salt, Saltpetre, Saline substances

Employers (11 , 0) , Employees (388 , 181) ; Independent workers (10 ; 2).

Foodstuffs, Textiles, Leather

Employers (4 567 ; 154) Employees (256,374 ; 19,558) , Independent workers (21,900 , 2,497).

Tobacco

Employers (91 ; 13) ; Employees (3,151 ; 1,045) ; Independent workers (1,719 ; 1,119).

Textiles

Employers (711 ; 37) ; Employees (206,713 , 16,405) , Independent workers (1,485 ; 157).

Wearing Apparel

Employers (1,832 ; 62), Employees (12,368 ; 314) ; Independent workers (10,413 ; 887).

Other Textiles

Employers (139 ; 4) ; Employees (11,733 , 944) ; Independent workers (511 ; 89).

Leather and its products

Employers (336 ; 1) ; Employees (5,415 ; 178) ; Independent workers (4,704 ; 76).

Manufacture of Metals and Chemicals

Employers (2,039 ; 38) ; Employees (75,532 ; 1,964) ; Independent workers (6,049 ; 227).

Manufacture of Iron and Steel

Employers (131 ; 5) ; Employees (6,605 ; 132) ; Independent workers (195 ; 9).

Transport equipment

Employers (236 ; 7) ; Employees (22,282 ; 190) ; Independent workers (660 ; 6).

Electrical Machinery

Employers (175 ; 0) ; Employees (4,725 ; 104) ; Independent workers (598 ; 18).

Machinery including Engineering

Employers (431 ; 5) ; Employees (14,919 ; 259) ; Independent workers (1,534 ; 18).

Medical Preparations

Employers (59 ; 2) ; Employees (2,014 ; 185) ; Independent workers (67 ; 83).

Clay products

Employers (53 ; 1) ; Employees (1,443 ; 437) ; Independent workers (206 ; 12).

Rubber products

Employers (50 ; 0) ; Employees (2,100 ; 91) ; Independent workers (75 ; 2).

Wood and wood products

Employers (399 ; 10) ; Employees (16,693 ; 145) ; Independent workers (7,266 ; 303).

Printing and Allied Industries

Employers (609 ; 16) ; Employees (15,353 ; 172) ; Independent workers (653 ; 15).

Buildings

Employers (747 ; 7) ; Employees (10,004 ; 1,559) ; Independent workers (9,443 ; 296).

Roads, Bridges

Employers (6 ; 0) ; Employees (356 ; 53) ; Independent workers (34 ; 0).

Electric Power and Gas Supply

Employers (12 ; 0) ; Employees (2,821 ; 32) ; Independent workers 209 ; 1).

Sanitary Works

Employers (28 ; 1) ; Employees (8,854 ; 2,157) ; Independent workers (471 ; 100).

Commerce

Employers (28,342 ; 727) ; Employees (129,336 ; 4,744) ; Independent workers (91,453 ; 6,979).

Retail trade in foodstuffs

Employers (6,923 ; 239) ; Employees (20,469 ; 781) ; Independent workers (33,080 ; 4,595).

Retail trade in fuels

Employers (1,108 ; 31) ; Employees (8,389 ; 227) ; Independent workers (1,515 ; 115).

Retail in textile and leather

Employers (3,809 ; 63) ; Employees (8,643 ; 128) ; Independent workers (8,795 ; 158).

Wholesale trade in foodstuffs

Employers (710 ; 49) ; Employees (1,341 ; 170) ; Independent workers (1,724 ; 105).

Real estate

Employers (70 ; 4) ; Employees (2,059 ; 21) ; Independent workers (270 ; 15).

Insurance

Employers (163 ; 4) ; Employees (5,964 ; 148) ; Independent workers (642 ; 39).

Money lending, banking

Employers (1,058 ; 25) ; Employees (11,907 ; 350) ; Independent workers (5,244 ; 164).

Transport, storage, communications

Employers (1,374 ; 63) ; Employees (95,386 ; 2,491) ; Independent workers (15,795 ; 270).

Below we give the totals of some other categories. The first figure shows the number of males and the second the number of females :

Transport by road (33,982 ; 592) ; Transport by water (36,062 ; 601) ; Transport by air (2,534 ; 91) ; Railway transport (24,689 ; 424) ; Storage and ware-housing (2,835 ; 417) ; Postal services (5,965 ; 216) ; Telegraph services (1,783 ; 77) ; Telephone services (1,657 ; 315) ; Wireless services (161 ; 3) ; Health, education and public administration (74,389 ; 12,170) ; Medical and health services (9,407 ; 4,466) ; Educational Services and Research (10,316 ; 4,334) ; Police (11,108 ; 209) ; Employees of municipalities and local bodies (13,597 ; 1,281) ; Employees of State Governments (14,832 ; 1,337) ; Employees of Union Govt. (14,715 ; 511) ; Employees of non-Indian Governments (172 ; 26) ; Services not elsewhere specified (226,880 ; 34,177) ; Domestic services (65,784 ; 21,091) ; Barbers and beauty shops (9,836 ; 104) ; Laundries and laundry services (13,871 ; 444) ; Hotels, restaurants, eating houses (46,725 ; 1,790) ; Recreation services (13,777 ; 1,270) ; Legal and business services (14,000 ; 1,143) ; Arts, letters, journalism (3,232 ; 137) ; Religious, charitable and welfare services (5,776 ; 312).

AGE GROUPS

In a 10 per cent sample survey the numbers in the different age groups were as follows :

	Males	Females
0	3,232	3,278
1—4	10,828	10,688
5—14	25,512	23,359
15—24	41,959	23,402
25—34	43,422	19,417
35—44	26,057	11,504
45—54	13,753	6,788
55—64	5,268	3,601
65—74	1,461	1,384
75 and over	438	558

Total number of households : 568,862.

22,695 households were examined in a sample survey. The number of persons living in them was 107,282—66,530 males and 40,752 were females.

Out of these households, the number of small households (3 members and less) was 9,110, and the number of persons living in them was 18,518 ; of medium households (4 to 6 members) 8,238, and the number of persons 39,699 ; of large households (7 to 9 members) 3,656, and the number of persons 28,454 ; of very large households (10 and above) 1,691, and the number of persons 20,611.

THE GREATER BOMBAY CORPORATION

THE municipal area of Greater Bombay is now divided into 15 administrative wards. These are A, B, C, D, E, F, G, H, K, L, M, N, P, R, and T.

For election purposes the municipal area of Greater Bombay is divided into 44 electoral wards—and are numbered 1 to 44.

From a demarcation point of view one or more electoral wards would go to make one administrative ward.

Total no. of seats : 131.

The administrative ward, the electoral ward, the area covered by the electoral ward, and the number of seats allotted to it are given below :

Administrative	Electoral	Area	Seats
A	1	Colaba	2
A	2	Fort	2
A	3	Bori Bunder	3
C	4	Mandvi	2
B	5	Dongri	2
B	6	Umerkhadi	3
C	7	Kharatalao	3
B & C	8	Kumbharwada	3
	9		3
C	10	Dhobi Talao	3
C	11	Fanaswadi	3
C & D	12	Girgaum	3
D	13	Khetwadi	3
D	14	Walkeshwar	3
	15		
D	16	Tardeo	3
E	17	Kamathipura	2
E	18	Nagpada	2
E	19	Mazgaon	3
E	20	Byculla West	4
E	21	Byculla East	3
	22		
E & F	23	Sewri	3
F	24	Lalbaug	2
E & F	25	Parel	2
F	26	Naigaum	5
F	27	Matunga	2
F	28	Sion	3
	29	Love Grove	4
G	30	Lower Parel	3
G	31	Worli	4
G	32	Prabhadevi	4
G	33	Dadar	4
G	34	Mahim	5
H	35	Bandra East	4
H	36	Bandra West	3
K	37	Andheri Vile Parle (South)	3
K	38	Andheri Vile Parle (North)	4
L	39	Kurla	3
M	40	Chembur	2
N	41	Ghatkopar	3
P	42	Goregaon-Malad	3
R	43	Kandivli-Borivli	3
T	44	Mulund, Tulshi, and Vihar Lake area	1

The municipal government of Greater Bombay vests in the Municipal Corporation, composed of 131 representatives elected on adult franchise.

The Corporation has four statutory committees, the Standing Committee, the Improvements Committee, the Education Committee and the Bombay Electric Supply and Transport Committee.

The executive power in regard to general municipal administration vests in the Municipal Commissioner. The administration of the B.E.S.T. Undertaking, however, vests in the General Manager, B.E.S.T.

The Corporation is required to meet at least once a month. In actual practice it meets twice a week and oftener if necessary. Meetings of the Corporation are presided over by the Mayor who also convenes the meetings. The Mayor's term of office is one year and he is elected at the first meeting in April.

The Standing Committee consists of 17 members, 16 of whom are elected by the Corporation. The Chairman of the Education Committee serves as an additional member. Half the members retire at the end of each year. The Chairman is elected by the members of the Committee at the first meeting in April every year. The main functions of the Committee are to sanction contracts, to scrutinise the budget and establishment schedule, frame service regulations, sanction investment of funds, prescribe the form of keeping accounts and conduct their scrutiny. The Committee meets once every week usually on Wednesdays.

The Improvements Committee consists of 16 Councillors, all of whom are elected by the Corporation. The Chairman is elected for a term of one year, while half the Councillors retire at the end of each year. The Committee is charged with all improvement and development schemes, slum clearance, poorer classes accommodation and purchase and sale of land which does not exceed Rs. 50,000. The Committee usually meets once a fortnight on Tuesdays.

The Bombay Electric Supply and Transport Committee consists of nine members, one of whom is the Chairman of the Standing Committee (ex-Officio), while the remaining members are appointed by the Corporation from among persons who (may or may not be members of the Corporation) have experience of administration, transport or electric supply, or of engineering, industrial, commercial, financial or labour matters. The Chairman is appointed by the members for a period of one year, while half the members retire every second year. The Committee usually meets every Friday ; and the Chairman and members are paid a fee for attending the meetings. The Committee exercises a general control over the electric supply and transport undertakings of the Corporation.

The Education Committee consists of 16 members of whom 12 are Councillors and 4 non-Councillors of whom two have to be women. The Chairman of the Committee is elected for a period of one year, while half the members retire at the end of each year. The Committee usually meets on the first Friday of every month. The main function of the Committee is to administer the Primary Education Act or any other law for that purpose for the time being in force.

Besides the Statutory Committees mentioned above there are four Special Committees appointed by the Corporation. These are : 1. the Works Committee, 2. the Medical Relief and Public Health Committee, 3. Markets and Gardens Committee, and 4. Law, Revenue and General Purposes Committee. Each Committee consists of 24 Councillors appointed by the Corporation after each general election. There are a Chairman and a Deputy Chairman for each Committee who are elected by the members and who hold office for one year. All questions that are due to go before the Corporation must first be considered by the appropriate Special Committee which then makes its recommendations to the Corporation.

Then there are a number of *ad hoc* Consultative Committees appointed from year to year, to which the Corporation can refer any matter for consideration and report.

The four most important officers of the Corporation are the Municipal Commissioner, the General Manager of the Undertaking, the Municipal Secretary and the Municipal Chief Auditor.

The Municipal Commissioner is at the head of the Executive. He is usually a senior member of the Indian Civil Service and is appointed by the Government for a renewable period of three years. He can be removed by the Corporation by a five-eighths vote. If however Government desire to revert him to their service the consent of the Corporation is necessary. He attends meetings of the Corporation and Committees but does not vote. He is assisted by three Deputy Municipal Commissioners with one Assistant Commissioner to look after the extended suburbs.

The General Manager of the Undertaking is in the same position to the Electric Supply and Transport Undertaking as the Municipal Commissioner is to the Corporation as a whole. He is appointed by the Corporation subject to the approval of the Provincial Government for a renewable period of not more than five years at a time. He can be removed by the votes of not less than half the total number of Councillors. He attends the meetings of the B.E.S.T. Committee and takes part in the discussions but does not vote.

The Municipal Secretary is in charge of all the secretarial work pertaining to the Corporation and its Committees. He is independent of the Commissioner and is directly under the Standing Committee.

The Municipal Chief Auditor is also independent of the Commissioner and is directly under the Standing Committee.

Primary education is free and compulsory in the Lower Primary standards of Municipal Schools all over Greater Bombay. It is the special responsibility of the Corporation.

From 1958 the benefit of free education is to be extended to the upper primary classes too.

There were on March 31, 1957, 605 Municipal Schools and Classes conducted by the Education Committee and 324 Aided Schools to which the Corporation makes grants or gives recognition. The total number of pupils in all Primary Schools on March 31, 1956 was 3,23,337 out of whom 2,43,522 were in Municipal Schools and 79,815 in Aided Schools. The Corporation grant to the Education Committee was Rs. 1,25,69,000. Of this Government contributed Rs. 90,50,000.

To meet the growing expenditure on primary education the Corporation decided for the first time in 1958 to levy an education cess at 1½ per cent.

The Municipality maintains the Victoria and Albert Museums at Victoria Gardens and a number of free reading rooms and libraries (3 libraries in each ward, one for women and two for men).

As for medical relief the Municipality conducts one large fever hospital (Arthur Road), and three large general hospitals (K.E.M., Nair and Sion) and four hospitals, an isolation centre and three

clinics for tuberculosis patients, while in the suburbs there are two general hospitals and a provision for 100 beds for T.B. patients. Then there are 35 free dispensaries, five maternity homes, 15 ante-natal clinics, 22 family planning clinics and one venereal diseases clinic.

WATER SUPPLY

The water supply of the City is drawn from four lakes: Tansa, Vihar, Tulsi and Vaitarna. The Tansa Lake can supply more than 100 million gallons per day and is the main source of water supply. It is situated about 66 miles north-east of Bombay. The Vihar Lake can supply 20 million gallons a day exclusively to the north-east part of the City and also partly to Chembur and Kurla. It is situated about 18 miles north of Bombay. The Tulsi Lake which is to the north-west of Vihar Lake supplies about 4 million gallons a day to H, K and L Wards.

The Vaitarna Lake feeds the Tansa at present.

Under Section 140 of the Bombay Municipal Corporation Act the Corporation can levy water tax on buildings, lands and premises in the City. The tax is fixed as a certain percentage of the rateable value of the building, land or premises. The present rate is 3¾ per cent. Under Section 169 the water supplied can also be charged on meter measurement and at the rates prescribed from time to time by the Standing Committee. Water tax is the first charge on a property under Section 141, and can be recovered from the owner by distress (Sections 203,204) and is also recoverable from tenants by authorizing them to make payments from their rents (Section 209). The supply of water to any premises can be cut off in default of payment of water tax or any sum due for water or hire of meter or expenses of work done (Section 279 (1) (a)). Copies of Water Charges Rules can be had from the office of the Hydraulic Engineer on payment of a sum of annas 9 per copy.

The amalgamated areas of the former Bombay Suburban District are divided into five wards for purposes of water supply H, K, L, M and N, with two Assistant Engineers in charge, one looking after H and K Wards and the other after L, M and N. The supply is throughout metered.

The obligatory duty of the Corporation to supply an adequate quantity of water relates to the provision of supply only up to the boundary of the premises, as distinguished from the distribution of water within the premises. Any premises can be served by means of one communication pipe only, the size of which depends upon the quantity of water needed in the premises. The owner can have separate connections to each floor provided he pays the cost of all the connections but one.

If the Municipal Commissioner finds that any premises are not provided with an adequate supply of pure water he has the power under Section 271(2) to compel the person who pays the property tax to obtain an adequate supply from a Municipal Water Works and carry out all such works as is necessary for a proper distribution of the water.

No one except a licensed plumber can undertake work on water-pipes and fittings and no person can allow any such work to be done by anyone except a licensed plumber.

For purposes of distribution Bombay is divided into 3 parts, called A Division, B Division and C Division. Broadly speaking, the A Division consists of the areas of Clerk Road, Hornby Vellard up to Jacob Circle, Lamington Road, part of Grant Road, Kika Street, Abdul Rehman Street and Carnac Road up to the Victoria Dock in the north, and on the west coast along Back Bay, Walkeshwar, Nepean Sea Road and Warden Road up to Clerk Road Junction—this Division is served by the Malabar Hill Reservoir.

Division B consists of the localities of Kalachowki Road, Reay Road, Coal Bunder in the north, on the eastern coast up to Carnac Road, Abdul Rehman Street, Kika Road, Falkland Road and part of Grant Road up to Lamington Road in the south, in the west Lamington Road and Arthur Road and finally some areas of Dongri and Mandvi and Mazagon. The whole of this Division is supplied from the Bhandarwada Hill Reservoir. The C Division, that is the north of the Island is served directly from the Trunk mains as they enter the City.

Total water supplied per day: 146 mln. gallons after completion of the first phase of Vaitarna-Tansa Scheme. When the scheme is completed the total supply is expected to be 220 million gallons a day.

The Tansa supply is chlorinated at the Chlorination Plants of Powai and Ghatkopar, while the Vihar supply is sterilized at Powai.

There is regular bacteriological and chemical analysis of water carried out by the Municipal Analyst.

PUBLIC HEALTH DEPARTMENT

The Public Health activities are carried on under the direct control and supervision of the Executive Health Officer. The Department is divided into several branches such as environmental sanitation, food sanitation, vital statistics, prevention and control of communicable diseases, maternity and child hygiene, medical relief and health propaganda.

Environmental sanitation comprises inspection and supervision of premises, provision of public sanitary conveniences, sanitary control over factories, licensable trades, overcrowding.

The veterinary staff inspects the stables in the city and are also in charge of the bullock hospital and segregation sheds in Mahalaxmi.

For purposes of sanitation, registration and vital statistics the city is divided into seven divisions, each division being under the charge of an Assistant Health Officer who is directly responsible to the Executive Health Officer.

For the hygienic control of foodstuffs including milk trade there are Milk Sub-Inspectors and Sanitary Inspectors.

For pest control there is a Malaria and Insecticide Branch.

The vaccination staff includes a Superintendent, a Head Vaccinator, a number of Vaccinators including a Lady Vaccinator. There are 67 permanent public vaccination stations 5 of which work daily at: 1. The Central Vaccine Depot, Parel, 2. The Sanitary Institute Building, Dhobi Talao, 3. Arthur Road Hospital, 4. Municipal Suburban Offices, Wakefield Road, Bandra, and 5. Municipal Office, Gazdar Hall, Andheri. The remaining centres work on one day every week by rotation for about 2½ hours. Besides, 4 additional temporary centres work one day every week for 2½ hours.

Hygiene includes maternity and child welfare, family planning and school health.

There are five Maternity Homes, each in charge of a Lady Medical Officer. Twenty Health visitors, do the follow-up work and domiciliary care under the direction of the Lady Medical Officer. A small maternity unit is conducted at Dharavi. Expectant mothers are encouraged to attend ante-natal clinics, of which there are 15 in number. The five Maternity Homes are at Cadell Road, Victoria Road, Bellasis Road, Khetwadi and Imamwada Road. And child welfare clinics are conducted (besides the Maternity Homes) at Fergusson Road Dispensary, Dadar Main Road Dispensary, Labour Welfare Centre at Arthur Road Chawls, Ambewadi Dispensary at Parel Tank Road, District Dispensary at Souter Street, Tardeo Flats Dispensary, District Dispensary at Charni Road, District Dispensary at Panjrapole, Palton Road Stables Dispensary, District Office at Kolsa Mohalla.

There are Family Planning Clinics at 264, Charni Road; Bai Gulbai Choksy Dispensary at Dr. D'Silva Road, Dadar; Bellasis Road Maternity Home; Victoria Road Maternity Home; Imamwada Maternity Home; Cadell Road Maternity Home; and Khetwadi Maternity Home; Municipal General Hospital, Sion and fourteen other Centres.

School Health Work is limited to Municipal Schools only and is under a Medical Officer. Children found to have defects are taken for treatment in school buses to the school clinic at K.E.M. Hospital. Dental care is given at the Dental Clinic at the Bai Yamunabai L. Nair Hospital. Undernourished children in municipal schools are given free milk and snacks on working days.

The Public Health Laboratory which is under the charge of a Municipal Analyst conducts routine and special examinations of water, sewage, food, urine, blood and sputa of patients at Municipal Institutions.

The Conservancy Branch, under the City Engineer, is in the charge of a Public Health Engineer. Under him are Supervisors, Senior Overseers, Junior Overseers, Depot attendants, etc.

Conservancy includes cleansing of streets, etc., removal and disposal of refuse, destruction of rats and dogs, veterinary service, removal of carcasses, disinfection, ambulance and so on.

The Veterinary staff is under a Senior Veterinary Inspector, who has a number of Junior Inspectors and qualified veterinary surgeons.

Medical Relief is given at the following general hospitals: K.E.M., Nair, Sion Municipal Hospital, R.P.T.B. and Arthur Road, at Municipal Free dispensaries and one Eye Dispensary and Hospital.

There are dispensaries at 55, Rajwadkar Street, Colaba; 303, Frere Road, Fort; 250, Vallabhbhai Patel Road, Dongri; 212(1) Panjrapole Street, Bhuleshwar; 264, Charni Road, Girgaum; 15-17, Khetwadi First Lane; 1, Souter Street, Byculla; 143, Foras Road; Bai Gourabai Dispensary, Kamathipura 8th Lane; Bai Gulbai Choksy Dispensary, D'Silva Road, Dadar; B.D.D. Chawl, No. 45, Worli; 213C, Delisle Road; 245(H) and (I), Dharavi Road; New Parbadevi Road and Cadell Road Junction; Mulji Bhuvan, Sewri New Road; New Chawl, Ambewadi, Parel Tank Road; 160-160-A, New Delisle Road; Tardeo Flats, Mahalaxmi; Connaught Road, Byculla; Chembur Dispensary, Chembur; King George V Infirmary, Haines Road, Mahalaxmi; Palton Road; Zandu Ayurvedic, Gokhale Road (South), Dadar; Dadar Main Road, Municipal Chawl No. 1; Waterfield Road; Kherwadi, Khar East; Vile Parle; Andheri; Jogeshwari; Versova; Kurla; Bhandup and Ghatkopar.

The Eye Dispensary is in Bai Lingubai Building in Kamathipura where an eye hospital is also located.

There are also physiotherapy and occupational therapy centres, school clinics, a rehabilitation and training centre for the crippled and family health at the K.E.M. Hospital; dental clinics at the Nair Hospital Dental College; and the benefit of a paying-beds scheme at the Sion Hospital.

The Bombay Civic Journal

To stimulate civic awareness and promote closer contact with the public, the Corporation has been running an illustrated English monthly called 'The Bombay Civic Journal' from March 1954. It deals with the activities and problems not only of the Bombay Municipality, but also of other local bodies all over the country and

seeks to foster 'an objective discussion of civic issues and the larger questions relating to local self-government from the national angle.'

Editor, U. G. Rao; *Advertisement and Circulation Manager*, R. S. Shanbhag.

Another new development is the starting of a Public Relations Department from February 1956 to attend to complaints from the public and do publicity. The old Propaganda Section of the Public Health Department and the Ward Officers' section are merged in it.

HISTORY

One of the earliest self-governing institutions in the country, with a history of autonomous functioning going back to nearly a century, the Bombay Municipal Corporation had until 1950 a territorial jurisdiction more of less confined to the seven islands of Bombay, with an area of 26 square miles and a population of about 23 lakhs.

Owing to the rapid growth of population during and after the war years, the lack of room for expansion within the existing limits, the increasing dependence of the suburbs on the City for essential services like water supply, medical relief and fire protection and the need of a proper pooling of resources and a co-ordinated plan for development, it was found necessary to merge the suburbs in the City proper to constitute Greater Bombay. This came about on April 15, 1950.

It brought a territory as large as 68 square miles, with a population of five lakhs, under the control of the Corporation, and the strength of the civic body was raised from 117 Councillors to 135, to be reduced later to 124 by the abolition of the representation to various public organisations.

Six years later, following the decision of Parliament to create the bigger bilingual State of Bombay, it became clear that the importance of Bombay as a political, commercial, industrial and educational centre would increase, resulting in a large influx of population from the newly-merged territories and also necessitating major plans of development.

Finding that it is imperative that the limits of the Municipality should be further extended the Corporation passed a resolution on September 20, 1956, requesting the State Government to take urgent steps to merge the following areas in Greater Bombay to promote co-ordinated development: (1) Borivli Taluka of Thana District excepting the villages of Bhayander, Dongri, Ghodbunder, Kashi, Mire, Murdhe and Uttan; and (2) the villages of Mulund and Nahur in Thana Taluka of Thana District.

The requisite legislation being passed, a territory, extending over 75 square miles with a population of about two lakhs, was absorbed in Greater Bombay on February 1, 1957, and the membership of the Corporation was increased by seven to 131 to give adequate representation to what have come to be known as the extended suburbs.

The new areas, now in charge of an Assistant Municipal Commissioner, have been divided for administrative and electoral purposes into three wards: P Ward (Goregaon-Malad), R Ward (Kandivli-Borivli) and T Ward (Mulund).

Thus in the course of about seven years, from 1950 to 1957 the Corporation saw almost a seven-fold increase in the extent of its territory.

Greater Bombay now spreads over 175 square miles from Colaba to Dahisar on the Western Railway and to Mulund on the Central Railway, with a population of over 30 lakhs according to the census of 1951.

In the process of amalgamation with Bombay City, the old Municipal Boroughs of Bandra (established in 1876), Kurla (estd. 1877), Parle-Andheri (estd. 1931), Juhu (estd. 1921), Ghatkopar Trirol (estd. 1916), Malad, Kandivli and Mulund have ceased to exist.

Meeting the civic needs of this vast territory as already mentioned are the following statutory authorities: the Corporation; the Standing Committee; the Improvements Committee; the Bombay Electric Supply and Transport Committee; the Education Committee; the Municipal Commissioner; and the General Manager of the B.E.S.&T. Undertaking.

A notable feature of the Act governing the Corporation is that while the municipal government of the City vests in the Corporation except where it is otherwise expressly provided, the executive power in regard to ordinary municipal administration is vested in the Commissioner.

With regard to the B.E.S.&T. Undertaking, the General Manager enjoys executive powers similar to those of the Commissioner in the Corporation.

The Corporation has been a pioneer in many spheres of civic activity. It was the first in the country to experiment with adult franchise, introduce free compulsory education at the primary stage, to be extended in 1958 to the upper primary classes, to own and administer urban transport and electric supply, to undertake trading, supply free milk and snacks to under-nourished school children, and to promote family planning.

Other notable activities of the Corporation have been the building of a dormitory for the homeless in the City, starting of physiotherapy and occupational therapy schools and centres, and several new ventures in medical relief, education and research; conduct of two medical colleges and a dental college, the creation of a family health centre and a health museum, and the running of a regular monthly publication, 'The Bombay Civic Journal', for publicising the activities of the Corporation and of other civic bodies and for promoting discussion of civic issues.

Other activities include the production of films for health education, the introduction of various modern devices for traffic control, starting of a unit for research in primary education, the opening of a municipal bank, the building of an open-air theatre for the recreation of citizens, holding of civic exhibitions, organisation of Health and Cleanliness Weeks and the starting of a department of preventive and social medicine at the Topiwala National Medical College.

A vast new five-storied structure, designed to accommodate the numerous scattered departments of the Corporation was built by the side of the old head office and declared open on February 5, 1958.

The City Engineer's, the Special Engineer's and the Hydraulic Engineer's departments are all now housed in the new building.

The new building, has lounges, party rooms and committee rooms for Councillors and also accommodates the Municipal Secretary's Office, the Estate Agent and Land Manager's Department and the Public Health and Public Relations Departments.

The Corporation, however, continues to meet in the Corporation Hall in the old building.

GREATER BOMBAY

Below we give particulars about Greater Bombay:

No. of Hospitals (Municipal, Government and Private): 18.
No. of Municipal Hospitals: 7.
No. of Municipal Dispensaries: 35.
No. of Primary Schools (Municipal and Private): about 950.
No. of pupils in all Primary Schools: about 3,23,337.
No. of Municipal Primary Schools: 605.
No. of children in Municipal Primary Schools: 2,43,522.
No. of teachers in Municipal Primary Schools: 6,603.
No. of Medical Colleges: 3 including a Dental College.
No. of Motor Vehicles: More than 40,000.
Road Mileage: about 466.
No. of Markets (municipal and private): 60.
No. of gardens, open spaces etc.: about 115.
No. of Fire Brigade Stations: 12.
Total no. of employees: 24,310 (1956).
Wage bill of employees: Rs. 3·6 crores

CITY

Below we give some facts about the City for 1957-58:

Area of the City	16,762 acres (26·189 square miles).
Population	2,329,020 (according to census of 1951).
Density of population	139 per acre.

INCOME:—

	Rs.
General Tax at 17 per cent and Fire Tax at ¾ per cent	4,18,83,270
Water Tax at 3¾ per cent including other receipts from Water Works	2,40,19,945
Halalkhore Tax at 3 per cent including receipts from special service	76,90,860
Total income (including revenue from other sources)	10,40,96,378
Rates charged for water connections by measurement	From As. 12 to Rs. 2-6-0 per 1,000 gallons according to class of property.

EXPENDITURE:—

	Rs.
Primary Education (including suburbs)	1,85,47,000
Medical Relief and Education	1,23,80,691
Water Works—	
Maintenance etc. Rs. 49,17,858	
Debt Charges .. 1,90,84,165	
	2,40,02,023
Public Health	47,47,780
Fire Brigade	17,92,062
General Supervision, Collection of Revenue etc.	39,92,233
Contribution to Education Budget	1,14,84,778
Grants-in-aid to Public Institutions	9,24,500
Debt charges (excluding Water Works)	1,09,11,335
Total expenditure including other items	10,64,03,253

The following facts relate to 1956-57:

TAXES, LOANS ETC.:—

	Rs.
Incidence of taxation per head	37-3-5
Total rateable value of properties	25,74,42,002
Properties registered in the Assessment Book	54,788
Rateable value per head of population	110-10-11
Number of vehicles and animals taxed	48,466

	Rs.
Demand in respect of Urban Immovable Property Tax levied by Government and collected by Municipality for the year	1,07,44,677
Amount collected including previous arrears ..	1,11,05,596
Debts outstanding	33,41,31,582
Redemption or Sinking Fund in hand or invested	6,13,32,632
Net loan debt	27,27,98,950
Net debt per head of population	117-2-1

BIRTHS AND DEATHS

Total number of births registered during the year (1956-57)	64,835
Birth rate per thousand living	27·8
Total number of deaths during the year ..	27,759
Death rate per thousand of population	11·9

Budget, 1958-59

Here are a few salient features of the City Budget for 1958-59 as presented to the Corporation by the Chairman of the Standing Committee :

	Rs.
Opening balance on April 1, 1958	55,04,000
Income on existing basis of taxation	10,76,70,000
Expenditure	11,16,57,000
Deficit	39,87,000
Total (surplus)	15,17,000
Anticipated savings in expenditure	40,00,000
Closing Balance	55,17,000

Loan Works—

Out of the total expenditure of Rs. 545·75 lakhs proposed for the loan works programme for 1958-59, Rs. 4,40·48 lakhs are for works in progress and Rs. 76·75 for new works and Rs. 14·80 lakhs for plant and machinery to be purchased out of advances from Special Funds.

Among the major allocations are : Master Plan for distribution of water supply in City Rs. 112·71 lakhs ; Vaitarna-cum-Tansa Scheme Rs. 43·23 lakhs ; acquisition of land for further extension of B.Y.L.N. Charitable Hospital and T.N.M. College Rs. 30·28 lakhs ; enlarging of Tansa Water Main Rs. 25 lakhs ; construction of a new building for T.N.M. College Rs. 15 lakhs ; re-modelling of Colaba Sewerage Scheme Rs. 15 lakhs.

Some interesting minor items are : acquisition of sites rendered vacant by house collapses along with adjacent built-up areas for various municipal purposes Rs. 12·14 lakhs ; development of the interior of Mahim Rs. 10 lakhs ; construction of an industrial estate building at Bapty Road Rs. 7·26 lakhs ; construction of a vehicular subway near Princess Street junction Rs. 3 lakhs ; construction of nurses' home at Sion Hospital Rs. 3 lakhs ; extension of municipal press building Rs. 3 lakhs ; construction of a fire brigade station with staff quarters at Colaba Rs. 3 lakhs ; construction of an open-air theatre near Shivaji Park Rs. 2·25 lakhs ; establishment of a recreation centre at Sion Hill Fort Rs. 2 lakhs ; and construction of a 200-bed hospital in the premises of the T.B. Hospitals at Sewri.

Capital Account :—

Provision of Rs. 94·26 lakhs has been made in the capital budget for 1958-59 for laying sewers or improving them at various places, constructing or improving roads and streets, providing housing accommodation to the poorer classes and building more than 22,000 tenements in various localities, including acquisition of land. A sum of Rs. 62·54 lakhs has been set a part for acquisition of land for slum clearance at Kamathipura, Ghorupdeo Road, Lower Parel and Palton Road and construction of tenements and other buildings.

SUBURBS

The following particulars relate to the year 1957-58 :

Area of the Suburbs	43,396 acres (67·81 miles)
Population	510,250 (according to the census of 1951).
Density of population	11·75 per acre.

INCOME :—

General Tax at different rates varying from 10 per cent to 17 per cent and Fire Tax at ¾ per cent	Rs. 73·88 lakhs.
Water Tax by measurement (including other receipts from Water Works)	„ 47·36 lakhs.
Halalkhore Tax at 3 per cent including receipts from special service	„ 8·78 lakhs.
Grant-in-aid from Government	19·91 lakhs.
Share from City Budget under Town Duties ..	„ 17·60 lakhs.
Total income, including revenue from other sources	„ 193·88 lakhs.
Rate charged for water supplied by measurement	From As. 12 to Rs. 2-6-0 per 1,000 gallons according to class of property.

EXPENDITURE :—

Education (Secondary)	Rs. 9 lakhs.
Medical Relief and Education	„ 8·31 lakhs.
Water Works—	
Maintenance etc. .. Rs. 35·15 lakhs.	
Debt Charges .. .. „ 6·01 „	
	41·16 lakhs.
Public Health	„ 10·09 lakhs.
Fire Brigade	„ 1·51 lakhs.
General Supervision, Collection of Revenue etc.	„ 9·33 lakhs.
Contribution to Education Fund	„ 18·41 lakhs.
Grants-in-aid to Public Institutions	„ 0·95 lakhs.
Debt charges excluding Water Works	„ 16·35 lakhs.
Total expenditure including other items ..	„ 205·03 lakhs.

The following particulars relate to 1956-57 :

TAXES, LOANS ETC. :—

Incidence of taxation per head	Rs. 33-3-7
Total rateable value of properties	„ 4,94,60,710
Properties registered in the Assessment Book ..	„ 41,800
Rateable value per head of population	„ 96-14-11
Number of vehicles and animals taxed	4,050 (excluding those taxed under Public Conveyance Acts).
Demand in respect of Urban Immovable Property Tax levied by Government and collected by Municipality	Rs. 17·21 lakhs including arrears of previous years.
Amount collected including previous arrears ..	„ 16·80 lakhs.
Debts outstanding	„ 2,62·10 lakhs.
Redemption or Sinking Fund in hand or invested	„ 37·30 lakhs.
Net Loan Debt	„ 2,24·79 lakhs.
Net debt per head of population	„ 44-0-9

BIRTHS AND DEATHS :—

Total number of births registered during the year (1956-57)	22,239
Birth rate per thousand living	43 6
Total number of deaths during the year ..	5,835
Death rate per thousand of population	11·4

Budget, 1958-59

Here are a few salient features of the Budget for the Suburbs, (1958-59) as presented to the Corporation :

	Rs.
Estimated Opening Balance on April 1, 1958	65,45,000
Income on present basis of taxation	„ 1,96,92,000
Expenditure	„ 2,33,27,000
Deficit	„ 36,35,000
Total (surplus)	„ 24,10,000
Deduct—Advance for Plant and Machinery	„ 6,20,000
Closing Balance	„ 17,90,000

Loan Works—

A sum of Rs. 138·31 lakhs has been provided for the Loan Works Programme during 1958-59, comprising the completion of works in progress and the execution of new works considered necessary in connection with water supply, drainage, building of a garage for municipal vehicles, construction of a fire station at Vikhroli, provision of gardens and open spaces, extension of markets and extension of village amenities. A total of Rs. 97·04 is for works in progress and Rs. 41·27 for new works.

EXTENDED SUBURBS

The following particulars relate to 1957-58 :

The extended suburbs, merged in Greater Bombay on February 1, 1957, consist of areas once forming part of the municipal districts of Malad, Kandivli, Borivli and Mulund, village panchayats of Goregaon and Dahisar and 24 villages of the Thana District where there was no municipal administration of any kind, though certain functions were being performed by the District Local Board of Thana.

Area of the Extended Suburbs	About 48,000 acres (75 sq. miles).
Population	About two lakhs (according to the census of 1951).
Density of population	About 4·2 per acre.

INCOME :—

General Tax at different rates varying from 6 per cent to 17½ per cent	Rs.	19·02 lakhs.
Water Tax (including other receipts from Water Works)	,,	6·94 lakhs.
Halalkhore Tax at 3½ per cent including receipts from special service	,,	1·78 lakhs.
Grant-in-aid from Government	,,	3·70 lakhs.
Share from City Budget under Town Duties	,,	4·40 lakhs.
Total income, including revenue from other sources	,,	38·99 lakhs.

EXPENDITURE :—

Education (Primary)	Rs.	6·35 lakhs.
Education (Secondary)	,,	0·03 lakh.
Medical Relief and Education	,,	1·3 lakhs.
Water Works	,,	4·17 lakhs.
Public Health	,,	0·54 lakh.
General Supervision, Collection of Revenue etc.	,,	2 35 lakhs.
Grants-in-aid to Public Institutions	,,	0·018 lakh.
Total expenditure including other items	,,	33·55 lakhs.

Budget, 1958-59

Here are a few features of the Budget for the Extended Suburbs (1958-59) as presented to the Corporation:

Estimated Opening Balance on April 1, 1958	Rs.	6·39 lakhs.
Income on the present basis of taxation	,,	44 58 lakhs.
Expenditure	,,	43·33 lakhs.
Surplus	,,	1·25 lakhs.
Total (surplus)	,,	7·64 lakhs.
Deduct—Advance for plant and machinery	,,	1·38 lakhs.
Closing Balance	,,	6·26 lakhs.

Loan Works—

A sum of Rs. 32·10 lakhs has been provided for the Loan Works Programme during 1958-59, comprising the completion of works in progress and execution of urgent new works in connection with the laying of water mains, construction of a maternity home at Borivli, staff quarters at Mulund, acquisition of building for municipal office at Malad, erection of a market at Borivli (East) and provision of village amenities. A total of Rs. 12·68 lakhs is for works in progress and Rs. 19·42 for new works.

B.E.S. & T. UNDERTAKING

The following particulars relate to 1956-57:

Total staff in the whole Undertaking	15,052
Tramway Section—	
No. of vehicles	298 plus 26 trailers
Route Mileage	27·151
No. of passengers carried during the year	18,66,09,341
Total income for the year	Rs. 1,25,26,756
Total expenditure	,, 1,05,76,282
Daily earnings	about Rs. 32,000
Bus Section—	
No. of vehicles	631
Route Mileage	340·08
No. of passengers carried during the year	32,35,71,770
Total income for the year	Rs. 3,42,91,138
Total expenditure	,, 3,09,48,053
Earnings per day	about Rs. 1,14,000
Specially-built luxury buses for tourists	4
Electric Supply Section—	
Total number of units purchased	380·9 millions
Total number of units sold (supply)	338 millions
Total number of units sold (traction)	11·82 millions
Total number of consumers	2,01,373
Total income for the year	Rs. 3,38,89,060
Total expenditure for the year	,, 2,71,52,723

Budget, 1958-59

Estimated opening balance	Rs.	1,00,000
INCOME :—		
Electric Supply	,,	4,51,18,920
Tramways	,,	1,18,17,040
Buses	,,	5,46,16,240
	,,	11,15,52,200
Total	,,	11,16,52,200
EXPENDITURE :—		
Electric Supply	Rs.	3,97,94,135
Tramways	,,	1,59,90,779
Buses	,,	5,16,96,836
Total	,,	10,74,81,750
Appropriation to statutory and other funds or objects	Rs.	40,70,450
Estimated Closing Balance	,,	1,00,000
Total	,,	11,16,52,200

Capital Estimates (1958-59) :—

Out of total capital estimates of Rs. 248·813 lakhs for the year, an expenditure of Rs. 21·55 lakhs is proposed for extensions to existing receiving stations and construction of new receiving stations at Colaba, Parel and Dharavi; Rs. 106·87 for the purchase of 222 new buses and construction of bus garages, depots and a terminus; Rs. 5·00 lakhs for an aerial ropeway to Malabar Hill; and Rs 35·80 lakhs for staff quarters at Parel, Santa Cruz, Kurla, Colaba and Byculla.

RAINFALL OF BOMBAY

COLABA OBSERVATORY

Note : From the year 1957 rainfall figures are recorded in Millimeters instead of inches. 1 inch equals 25·4 mms.

Years	May	June	July	August	September	October	November	Yearly Total	Number of Rainy Days in the year*	Maximum fall in one day
1880..	0·00	21·48	18·37	4·08	22·80	1·18	0·00	67·94	109	5·20
1..	0·36	15·29	29·47	19·06	4·56	4·17	0·09	73·04	113	11·30
2..	0·02	27·54	26·94	3·36	10·08	1·12	0·03	69·23	105	10·18
3..	0·33	13·65	39·88	12·57	12·37	10·40	0·86	90·18	122	6·85
4..	0 00	13·25	25·87	15·29	17·04	2·22	0·60	75·44	110	7·37
5..	0 02	5·11	21·81	25·42	12·01	3·54	0·00	67·91	113	10·29
6..	0·96	43·45	35·79	10·69	6·54	1·69	0·61	99·74	110	16·10
7..	0·09	24·07	30·98	17·59	18·23	2·79	1·02	94·95	112	7·84
8..	0·00	15·76	22·47	11·43	4·92	0·11	1·16	57·82	107	4·66
9..	0·67	19·89	30·45	10·32	2·71	3·80	0·00	67·84	103	4·04
1890..	0·06	24·55	21·54	10·61	6·45	0·58	1·25	65·18	116	4·61
1..	0·00	13 99	32·48	6·94	22·53	1·04	0 00	77·18	100	5·82
2..	0·11	13·30	23 86	36·56	18·73	1·89	0·67	95·12	114	5·43
3..	6·30	21·47	16·14	13·55	7·54	0·45	1·63	67·24	124	4·97
4..	0·00	16·87	26·16	8·40	12·04	3·08	0·00	66·85	124	4·77
5..	0 08	17·84	18·04	15·97	11·91	3·62	0·06	67·59	109	6·82
6..	0·26	28·02	26·44	20·77	1·62	0 01	0·53	87·65	102	6·21
7..	0 00	14·40	30·19	13·82	20·60	2·51	0·00	81·52	108	4·92
8..	0·16	27·21	20·72	5·28	19·94	0·48	0·18	74·09	110	5·13
9..	0 08	20·81	4·72	5·23	3·49	0 00	0 00	35·90	87	6·58
1900..	0·00	18·26	25·75	17·62	7·49	0·00	0·00	69·12	91	8·04
1..	0·01	25·36	32·70	14·27	1·81	0·39	0·00	75·32	98	6·55
2..	0 00	9·77	16·96	16·53	27·11	0·78	0·01	71·97	100	6·74
3..	7·79	19·75	24 82	18 23	7·82	5·91	0·00	84·49	111	6·03
4..	0·02	15·10	10·14	5·72	1·81	0·56	0 00	33·42	90	3·32
5..	0·00	6·53	15·30	4 35	6·16	0·20	1 04	33·66	89	4·00
6..	0 00	13·20	18·10	20·91	3·94	0·00	0·00	56·20	95	4·89
7..	0 00	22·49	59·26	15 93	2·75	0 02	0 00	100·78	94	8 84
8..	0 00	15·19	21·13	9·67	6 71	0·62	0 00	53·54	100	4 20
9..	0·00	16·68	31·37	7·82	15·35	0·00	0 00	71·22	100	4 07
1910..	0 03	23·92	7·42	16 89	13 84	0 62	0·14	67·86	104	8 14
1..	0 04	10·85	15·89	16 90	2·50	0 00	0 27	46 51	92	4·78
2..	0·43	10·79	25 77	9·70	3·09	0·65	3 62	54·05	87	7·86
3..	0 00	25·81	33 58	3 47	5·75	2·35	0·00	70·96	94	5·50
4..	0·00	16·69	31·12	12 44	21 03	0·01	0 16	81·62	114	6 28
5..	0 36	40·10	14·39	8 98	10·21	2·55	0 02	77·68	100	11·41
6..	0 07	23·55	25·10	17·19	14·59	4·79	0 72	86·05	128	7·60
7..	0 88	15 33	12 91	33·27	19·58	16·11	0·00	99·76	134	5·96
8..	11·17	10 65	4·31	4·80	3 06	0·00	0·09	35·54	94	4·98
9..	0·00	23·35	24·49	10 63	8·16	1·40	0·18	68 32	106	8·74
1920..	0 00	8·16	22·60	4 58	4·05	0 24	0·00	41·05	98	5·51
1..	0 00	26·79	35·67	10 37	13·13	0 06	0·00	86 02	101	7·68
2..	0·00	26·63	31·00	5·15	7·43	0·61	0 00	70·96	111	6·56
3..	0·00	6 96	41·88	8·33	18·32	..	0·00	77·56	90	11·03
4..	0 00	7·46	16·75	15·42	12·12	0·06	0 38	52·19	101	3 12
5..	3·83	26·86	8 31	7·71	3·55	0·19	0·37	50·82	109	7·54
6..	0·10	6·51	30·68	21·93	8·84	1·29	0·00	72·84	107	8·21
7..	0·00	35·52	14·06	6·59	5·20	7·25	5·48	74·28	128	7·10
8..	0 00	23·46	30·24	16 69	9·81	0·43	0·09	85·78	109	8·96
9..	0·00	26·09	15·78	5·85	6·49	3·78	0·22	59·76	114	5·29
1930..	0·02	27·48	9·61	6 60	43·77	2·50	0·00	89·98	98	21·59
1..	0·00	7·66	46·94	22·69	4·53	13·02	2·40	97·24	111	10 06
2..	0·57	10·64	35·47	6·77	11·13	9·01	0·07	73·66	106	5·62
3..	3·23	9·01	15·69	17·25	12·42	2·93	0·01	62·37	116	5·25
4..	0·00	29·06	22·74	12·14	5·83	0·21	3·23	73·25	110	5·05
5..	0·00	28·14	23·70	16·71	11·83	1·04	0·18	81·62	99	7·00
6..	0·34	32·62	8·13	9·23	5·73	0·00	2·31	58·48	118	5·60
7..	0·00	18·32	30·42	5·45	14·20	1·77	0·00	70·16	109	3·66
8..	1·29	31·24	16·06	16·77	10·35	15·17	1·13	92·01	124	7·13
9..	0·00	4·67	33 06	10·37	5·39	0·17	0·15	54·24	95	9·12
1940..	0·00	29·06	21·03	23·27	11·26	4·89	0·76	97·58	106	6 42
1..	0·00	8·09	14·03	5 83	6·17	1·62	0·00	35·81	81	4·14
2..	0·00	27·39	32·96	3·24	13·52	0·00	0·00	81·80	96	7·03
3..	6·02	30·19	29·62	3·30	8·15	3·77	0·04	81·37	116	8·01
4..	0·20	9·47	45·56	16·32	1·66	0·80	0·60	74·10	80	7·18
5..	0·00	24·36	31·87	26·10	6·16	0·79	0·87	90·38	99	8·65
6..	0·22	21·61	16·29	15·23	17·90	0·81	6·48	79·14	120	10·48
7..	0·00	3·61	22·03	20·56	25·45	2·92	0·00	77·09	104	10 88
8..	0 00	8·78	27·16	17·03	11·78	2·11	4·54	71·74	105	6 79
9..	0·96	18·31	23·64	15·22	49·01	1·35	0·00	108·51	124	26·98
1950..	0·13	11·22	23·82	3·39	21·50	1·23	0·06	61·60	93	5·97
1951..	1·46	20·25	35·11	3·55	1·74	2·71	0·11	70·41†	103	5·11
1952..	0 00	23·69	27·51	6·32	3·05	2·26	0·00	63·23	97	7·06
1953..	0·00	32·59	29·99	12·99	4·59	3·24	0 00	93·57	108	8·35
1954..	0·00	24·66	51·56	33·72	24·84	1·89	0·20	137·08	108	10 31
1955..	0·04	19·99	21·65	24·76	11·44	5·81	0·97	85·64	116	6·77
1956..	1·99	25·86	32·34	17·37	20·69	2·53	0·50	101·28	133	8·84
1957..	25.4	233.0	777 2	578.9	65·7	21·2	23·9	1775·3	98	162 9

* A rainy day is one on which 0·01" of rain or more has fallen.

† There were also a few showers in March and April.

ASSOCIATIONS (TRADE & COMMERCIAL) IN GREATER BOMBAY*

ADVERTISING AGENCIES ASSOCIATION OF INDIA

Kitab Mahal, 4th Floor, 192, Dadabhoy Naoroji Road, Bombay 1. (Tel. No. 264771)

AFRICA & OVERSEAS EXPORTERS' CHAMBER

31, People's Bldg., 4th Floor, Sir Phirozshah Mehta Road, Fort, Bombay 1.

ALL-INDIA BOBBIN MANUFACTURERS' ASSOCIATION

C/o Engineering & Agencies Ltd., 24-B Homji Street, Bombay 1.

ENTRANCE FEE: Rs. 51; ANNUAL SUBSCRIPTION: Rs. 100.

OFFICE-BEARERS:—*President:* K. J. Shah; *Vice-President:* D. K. Panchal; *Hon. Secretary:* S. K. Khan; *Hon. Treasurer:* B. P. Koppikar; *Secretary:* V. Mahendra.

ALL-INDIA EXPORTERS' ASSOCIATION

Churchgate House, Vir Nariman Road, Bombay 1.

Secretary: Harilal A. Bharucha.

ALL-INDIA FOOD PRESERVERS' ASSOCIATION

93, Apollo Street, Bombay 1.

President, M. C. Mahajan; *Chairman*, K. C. Patel; *Hon. Secretary*, L. J. de Souza.

ALL-INDIA IMPORTERS' ASSOCIATION

Churchgate House, Vir Nariman Street, Bombay 1.

Secretary: G. J. Idnani.

ALL-INDIA INSTRUMENT MANUFACTURERS & DEALERS ASSOCIATION

198, Jamshedji Tata Road, Bombay 1.

This is an Association of the members of the Instrument Industry and Trade having its sphere of activities throughout the country. The main object of this Association, amongst many others is, to foster the interests of Manufacturers and Dealers of Scientific, Industrial and Research Instruments, encourage co-ordination between industry, trade and the Government and so form a link between the Instrument interests and the Government.

President: Y. A. Fazalbhoy.
Vice-President: N. M. Athavale.
Hon. Secretary: B. D. Toshniwal.
Hon. Treasurer: G. N. Banerjee.

ALL-INDIA MANUFACTURERS' ORGANISATION

Co-operative Insurance Bldg., 4th Floor, Sir Pherozeshah Mehta Road, Bombay 1.

There are State and Regional Boards in New Delhi, Calcutta, Nagpur, Saurashtra, Madras, Bangalore, Ernakulam, Bombay and Hyderabad and District and City Councils in important centres of industrial activity.

Founder President: Sir M. Visvesvaraya; *Chairman:* S. N. Haji; *Vice-Chairmen:* M. L. Tannan; K. N. Mody; V. Seshasahyee; S. K. Sen and F. R. Moos; *Hony. Secretaries:* J. V. Patel; G. G. Morarji and Pranlal Patel.

Hony. Treasurer: P. B. Advani.
Secretary: P. L. Badami.

ALL-INDIA NON-FERROUS METALWARE MANUFACTURERS' ASSOCIATION

Liberty Building, Marine Lines, Bombay 1.

President.—Vithaldas H. Shah, J.P.
Vice-President.—Chunilal P. Bhatt.
Hon. Secretary.—Ramanlal M. Shah.
Hon. Treasurer.—Navnitlal Vadilal Shah.

THE ALL INDIA PLASTICS MANUFACTURERS' ASSOCIATION

Chowpatty Chambers, Sandhurst Bridge, Bombay 7. *Tel.* 42561. *Tel. Address:* "ASOPLASMAC". *President:* B. M. Thakkar; *Vice-Presidents:* M. B. Gidwani and S. R. Podar; *Hon. Secretaries:* C. A. Ferens and I. M. Mehta; *Secretary:* A. H. Srikanta Aiyar.

ALL-INDIA RADIO MERCHANTS' ASSOCIATION

Fateh Manzil, Opera House, Bombay 4.

The Association has its central office at Bombay, and zonal offices at New Delhi, Calcutta, Madras and Bombay.

CENTRAL COMMITTEE.—R. L. Mulchandani, *President;* Rev. R. Conesa, K. L. Bansal, D. N. Chaudhuri, *Vice-Presidents;* J. R. D. Bakshi, *Hon. General Secretary;* V. J. Bhatt, *Hon. Secretary;* N. D. Kooka, *Hon. Treasurer; Committee Members:* E. J. Daruwalla, S. N. Gurnaney, N. J. Irani, L. S. V. Easwar, H. K. L. Arora, R. S. Bhatnagar, V. Y. Kamat, Anantray J. Valia.

ALL-INDIA RAZOR BLADE MANUFACTURERS' ASSOCIATION

Industrial Assurance Bldg., Opp. Churchgate Station, Bombay.

President, S. M. Dahanukar.

ALL-INDIA SINDWORK MERCHANTS' ASSOCIATION

Commissariat Building, 231, Hornby Road, Bombay 1.

Main object of the Association is to promote and safeguard the interests of the Overseas Indian Sindhi merchants.

President: Purshotam H. Sabnani.
Vice-President: T. Murli.
Hon. Secretary: Hashmatrai M. Thadani.
Jt Hon Secy.: H. B. Chanrai.

ALL-INDIA STARCH MANUFACTURERS' ASSOCIATION PRIVATE LTD.

12, Rampart Row, Fort, Bombay 1.

President: Chinubhai Manibhai; *Secretary:* S. B. Sethi.

AMATEUR CINE SOCIETY OF INDIA

C/o A. Q. Jairazbhoy, 2, Rehem Mansion, Colaba Causeway, Bombay 1.

OFFICE-BEARERS *President*—A. Q. Jairazbhoy; *Vice-President.*—Ramchand Khanna. *Jt Hon Secretaries:*—B. M. Adur, S. Venkatesh; *Hon. Treasurer:*—Rusi P. Gandhi.

ASSOCIATION OF ELECTRICAL UNDERTAKINGS, BOMBAY STATE

Killick Building, Home Street, Bombay 1.

President—M. J. Manockji; *Vice-President:* N. N. Adajania; *Members of the Council:* P. D. C. R. Clark, J. A. Colaco, M. B. Lukmani, G. D. Morarka, N. C. Javeri, P. E. Patel, K. S. Guzder, D. H. Nariman, G. R. Mineeyar; *Secretary:* R. T. Aiyer.

THE ASSOCIATION OF INDIAN INDUSTRIES

4th Floor, "Co-operative Insurance Building," Sir Pherozshah Mehta Road, Fort, Bombay 1.

President: S. M. Dahanukar; *Vice-Presidents:* R. D. Sidhwa, B. D. Somani.

ASSOCIATION OF INDIAN TRADE & INDUSTRY

Bombay Mutual Chambers, 21, Hamam Street, Fort, Bombay 1.

President: Seth Tulsidas Kilachand; *Secretary:* Dr. K. B. Paymaster.

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* In the case of some associations, besides the title and the address a short note is added about their aims, etc. This is generally done where the aims, activities, organization are not immediately obvious from the title. Also, when an association appears for the first time in our book a note is generally added. The addition of a note is not necessarily an indication of the relative importance of the association, that is, in relation to others.

Two points should be kept in mind: office-bearers may change; addresses given may sometimes be in the nature of a reference specially where we say c/o.

ASSOCIATION OF MERCHANTS AND MANUFACTURERS OF TEXTILE STORES AND MACHINERY, INDIA

Sir Vithaldas Chambers, 16, Apollo Street, Bombay 1.

PRESIDENT:—Hiralal L. Shah; VICE-PRESIDENT:—B. M. Ghia; HON. SECRETARY:—J. R. Engineer; HON. TREASURER:—P. J. Engineer; SECRETARY:—V. S. Jogiekar.

AUDIT BUREAU OF CIRCULATIONS LTD.

Wakefield House, Ballard Estate, Bombay 1.

Estd. 1948. Membership comprises many leading national Advertisers, Advertising Agencies and Publishers of newspapers, periodicals and magazines.

COUNCIL OF MANAGEMENT: *Chairman*, Edward J. Fielden, J. Walter Thompson Co. Private Ltd.; *Deputy Chairman*, P. L. Tandon, Hindustan Lever Ltd.; *Hon. Secretary*: J. C. Jain "The Times of India"; *Hon. Treasurers*, Jagan Nath Jaini, National Advertising Service Private Ltd.; Miss S. Batlivala, Tata Oil Mills Co. Ltd.; R. V. Leyden, Voltas Ltd.; A. D. Mani, "The Hitavada"; G. H. Gates-Reed, Shalimar Paint, Colour & Varnish Co. Ltd.; G. Narasimhan, "The Hindu"; D. M. Harris, "The Statesman"; A. M. Patel, Everest Advertising Private Ltd.; H. R. Moharay, "Samyukta-Karnatak"; R. K. Sirkar, Dunlop Rubber Co. (India) Ltd.; M. Yunus Dehlvi, "Shama" Magazine; Upendra Acharya, "Indian Nation", T. S. Krishnan, Express Newspapers (Private) Ltd.; *Secretary*: S. D. Kumar.

BOMBAY ARMS DEALERS' ASSOCIATION

246, Abdul Rehman Street, Bombay 3.

President: Salehbhai A. Bandukwala; *Secretary*: Husaini E. Bandukwala.

THE BOMBAY BULLION ASSOCIATION LIMITED

185, Sheikh Memon Street, Bombay 2.

President: Chunilal Bhaichand Mehta; *Vice-President*: Premchand Kedia; *Secretary*: Krishnakumar N. Ghia.

THE BOMBAY CAMPHOR MERCHANTS' ASSOCIATION LTD.

218, Samuel Street, Bombay 3.

President: Nandlal Premji; *Vice-President*: Girdhardas Purshotamdas; *Hon. Secretary*: Dharamdas Trikamdas Shah.

BOMBAY CHARCOAL MERCHANTS' ASSOCIATION LTD.

Coal Depot, Sewri, Bombay 15.

President: Babu Sukhdeosingh Shumsheresingh; *Vice-President*: Shah Ramniklal Tokarsey; *Treasurer*: Chatrabhuj Pragji Thakkar; *Secretary*: N. D. Trivedi.

THE BOMBAY CLOVE MERCHANTS ASSOCIATION LTD.

Masjid Bunder Road, Gaya Building, 4th Floor, Room No. 50, Bombay 3.

President: Gokaldas Velji; *Hon. Secretary*: Jamnadas Ranchhoddas; *Secretary*: Morarji Walji.

BOMBAY COAL & COKE MERCHANTS' ASSOCIATION LTD.

94, Medows Street, Fort, Bombay 1.

President: V. C. Shah; *Vice-President*: G. C. Doshi; *Secretary*: A. B. Parjhi.

BOMBAY COMMISSION AGENTS' ASSOCIATION

Sai Bhuvan, Princess Street, Bombay.

President.—Shivram Raghoba Prabhu Salgaonkar; *Vice-President*.—Hari Ganesh Prabhu Salgaonkar; *Secretaries*.—Anant Ghanasham Shetye, Narayan Appa Dubie; *Treasurer*.—D. Chunilal Gordhandas.

BOMBAY COTTON MERCHANTS' & MUCCADUMS' ASSOCIATION LTD.

2nd Floor, S. 72-73, Cotton Exchange, Sewree, Bombay 15.

President: Ramji Ravji Lalan, J.P.; *Vice-President*: Fatehchandji Jhunjhunwala; *Hon. Secretary*: Hansraj Jivandas, J.P.; *Secretary*: I. N. Parikh, M.A.

BOMBAY CUSTOM HOUSE CLEARING AGENTS' ASSOCIATION

46, Veer Nariman Street, Bombay 1.

Office-Bearers.—President:—Karsandas Tulsidas; *Vice-President*:—J. N. Gazdar; *Treasurer*:—M. T. Bandiwdekar; *Hon. Secretary*:—Arvind Parikh.

BOMBAY CUTPIECE & PIECEGOODS MERCHANTS' ASSOCIATION

Radha Galli, Swadeshi Market, Bombay 2.

President: Mayabhai C. Shah; *Hon. Secretaries*: Adi Nariman Mody; Ravjibhai Desaibhai Patel.

THE BOMBAY CYCLE MERCHANTS' ASSOCIATION

143, Sai Bhavan, 2nd Floor, R. No. 3, Princess Street, Bombay 2.

President: N. B. Talati; *Vice-President*: Maneklal V. Shah; *Hon. Secretary*: R. M. Shah.

BOMBAY DIAMOND MERCHANTS' ASSOCIATION

Zaveri Bazar, Dhanji Street, Bombay 3.

President.—K. D. Parikh.

Vice-President.—Ratilal C. Kothari, J.P.

Hon. Secretaries.—Vadilal Kalidas Jhaveri and Navinchandra Laxmichand Shah.

THE BOMBAY ELECTRO-PLATERS' ASSOCIATION

139, Bhendi Bazar, Bombay 3.

THE BOMBAY EXCHANGE BANKS' ASSOCIATION

C/o The Chartered Bank, Mahatma Gandhi Road, Bombay 1.

Chairman: Manager, The Chartered Bank, Bombay (Ex-officio); *Vice-Chairman*: Manager, National Overseas & Grindlays Bank Ltd., Bombay (Ex-officio).

BOMBAY FLOURMILLS OWNERS' ASSOCIATION

Parekhwadi, V. P. Road, Bombay 4.

President: Iswardas Somabhai Patel; *Secretary*: Narandas Nanchand Gandhi; *Treasurer*: Thakorlal Gordhandas Shah.

BOMBAY GLASSWARE MERCHANTS' ASSOCIATION

163, Sheriff Devji Street, Bombay 3.

President: Esmail G. Esmail; *Vice-President*: Rajabaly Molcobhoy; *Jt. Hon. Secretaries*: Shankatali R. Dossa and Santilal H. Parekh.

THE BOMBAY GRAIN DEALERS' ASSOCIATION

Grain-Dealers Building, 103, Keshavji Naik Road (New Chinch Bunder Road), Bombay 9. (Tel. No. 70143).

President: V. N. Salia; *Vice-President*: K. S. Shah.

Hon. Secretaries: M. V. Mehta, S. M. Maru.

BOMBAY GRASS MERCHANTS' ASSOCIATION

Bombay Central Grass Yard, Jacob Circle, Bombay 11.

President: P. M. Rao, B.Com.; *Vice-President*: H. M. Gandhi.

THE BOMBAY HARDWARE MERCHANTS' ASSOCIATION

C/o Burhani Building, 57, Sarang Street, Bombay 3.

BOMBAY HARDWARE TRADERS' ASSOCIATION LTD.

Taher Mansion, Narayan Dhuru Cross Lane, Bombay 3.

President.—Narsindas Ranchhoddas Goradia.

Hon. Secy.—Piarelal P. Talwar.

BOMBAY INSURANCE BROKERS' ASSOCIATION

19, Bruce Street, Bombay 1.

Directors.—M. M. Patel, M. N. Shanghavi, J. B. Papa, K. S. Popat, B. J. Ashar, Jethabhai D. Nagda and Jethabhai Narshi.

President.—P. N. Mehta; *Vice-President*.—M. A. Kadwani; *Jt. Hon. Secretaries*.—K. S. Popat and Jethabhai Narshi; *Jt. Hon. Treasurers*.—Chunilal V. Thakkar and Chatrabhuj U. Chheda; *Asstt. Secy*.—D. A. Chavda.

THE BOMBAY IRON MERCHANTS ASSOCIATION LIMITED

Iron Market, Carnac Bunder, Bombay 9.

President: Babubhai O. Valia; *Vice-President*: Ramniklal V. Valia; *Secretary*: J. V. Doshi.

BOMBAY LEGAL AID SOCIETY

Hamam House, Hamam Street, Bombay 1.

The object of the Society is to co-operate with the judiciary, bar and organisations interested in the administration of justice, so as to make justice more readily accessible to the poor.

Patron.—The Hon. Mr. Justice M. C. Chagla, Chief Justice of Bombay.

President.—Framroze A. Vakil. *Hon. Secretary.*—Nayan H. Pandia.

THE BOMBAY LIGHT MERCHANTS' ASSOCIATION

Shreeji Bhuvan, Lohar Chawl, Pydhonie, Bombay 2.

Secretaries : Shantilal M. Shah, Chimanlal V. Sanghvi.

THE BOMBAY MARBLE & TILE MERCHANTS' ASSOCIATION

32, Apollo Street, Fort, Bombay 1.

President : Rustom D. Sidhwa, *Jt. Hon. Secretaries :* N. Pedder and Chimanlal B. Shah.

BOMBAY MASTER PRINTERS ASSOCIATION

274, Tardeo Road, Bombay 7.

President.—N. L. Contractor.
Vice-Presidents.—G. U. Mehta, A. F. Varavala.
Secretary and Treasurer.—Naval J. Ardeshir.

THE BOMBAY MERCURY TRADERS' ASSOCIATION LTD.

218, Samuel-Street, Bombay 3.

President : Hirji Keshavji Kesharwala ; *Hon. Secretary :* Amritlal Padamshi Shah ; *Office Secretary :* Rasiklal M. Shah.

BOMBAY METAL DEALERS' ASSOCIATION LTD.

C/o 96, Kika Street, Gulalwadi, Bombay 4.

BOMBAY METAL EXCHANGE LTD.

Gogate Mansion, Kika Street, Bombay 4.

President : Gopaldas Aggarwal ; *Vice-Presidents :* Abheraj H. Baldota, Raj Kumar Bagri ; *Secretary :* Madhurkant S. Mehta.

THE BOMBAY MOTOR MERCHANTS' ASSOCIATION LTD.

Sukh-Sagar, 3rd Floor, Sandhurst Bridge, Bombay 7.

President : M. G. Kapadia ; *Vice-President :* S. Gurucharan Singh Sethi ; *Hon. Secretary :* Satya Bhushan Anand ; *Hon. Jt. Secretary :* R. M. Trivedi ; *Hon. Treasurer :* S. Balwant Singh Chadha.

THE BOMBAY MUDIBAZAR KARIANA MERCHANTS ASSOCIATION

43, Mudibazar, Kazi Syed Street, Bombay 3.

President : Gabharubhai Jivabhai Oza ; *Hon. Secretary :* Purushottam Laxmidas Thakker.

BOMBAY OIL MERCHANTS' ASSOCIATION

C/o Messrs. Muljee Jaitha & Company, Katha Bazar, Bombay 9.

THE BOMBAY OILSEED CRUSHERS' ASSOCIATION

57-59, Kazi Syed Street, Bombay 3.

President : Dr. J. S. Radami ; *Vice-President :* A. B. Argo ; *Hon. Secretary :* C. V. Mariwala, *Secretary :* R. C. Sheth.

BOMBAY OILSEEDS & OILS EXCHANGE LTD.

Jenabai Building, Masjid Bunder Road, Bombay 3.

President.—Ramdas Kilachand ; *Vice-President :* Mangula Trikamlal ; *Secretary.*—Bipin R. Chinai.

BOMBAY OVERSEAS FREIGHT BROKERS ASSOCIATION

C/o Pitamber & Co., Scindia House, Ballard Estate, Bombay 1.

Chairman : Vithaldas Purshottam ; *Hon. Secretary :* Chandrasen Govindji ; *Hon. Treasurer :* N. T. Toprani.

THE BOMBAY PAINTS MERCHANTS' ASSOCIATION

C/o 23, Mangaldas Road, Princess Street, Bombay 2.

BOMBAY PARSI TEXTILE LEAGUE

Prospect Chambers Annexe, Dr. Dadabhoy Naoroji Road, Fort.

President.—Major S. R. Bamji, F.R.S.A., M.B.E., J.P. ; *Vice-Presidents.*—J. S. Rutnagur ; D. D. Chothia ; *Hon. Jt. Secretaries.*—J. F. Shroff and Godrej Vakharia ; *Hon. Jt. Treasurers.*—Godrej Vakharia and B. M. Daroowalla.

BOMBAY PIECE-GOODS MERCHANTS' MAHAJAN

Mulji Jetha Cloth Market Hall, Sheikh Memon Street, Bombay 2.

Office-Bearers.—Ratansi Champsi, *President ;* Navnitlal L. Shah, *Vice-President ;* Ratilal C. Shah, Vasantrai K. Mehta, *Hon Secretaries ;* Bhagwandas N. Shroff, Ramdas Jamnadas, *Hon. Treasurers.*

BOMBAY PIPES & FITTINGS MERCHANTS' ASSOCIATION

208, Nagdevi Street, Bombay 3.

President : Narmadashahker J. Desai ; *Jt. Hon. Secretaries :* Chandulal D. Parikh ; Chandrakant C. Anandpara.

BOMBAY PRESS-OWNERS' ASSOCIATION

196B, Gaiwadi, Girgaum, Bombay 4.

***Honorary Secretary and Treasurer :*—M. C. Modi.**

THE BOMBAY PROVISION MERCHANTS' ASSOCIATION

C/o Empire Stores, Crawford Market, Bombay 1.

President : D. V. Sharma ; *Vice-President :* Devraj ; *Hon. Secretary and Treasurer :* Dinshaw B. Irani.

THE BOMBAY RICE MERCHANTS' ASSOCIATION

116, New Chinch Bunder Road, Bombay 9.

THE BOMBAY SALT MERCHANTS' & SHILOTRIES' ASSOCIATION

583, Chira Bazar, Bombay 2.

President : Jayantilal Tribhovandas ; *Vice-Presidents :* Maneckshaw S. Kotwal ; Chandrakant Bhaidas ; *Hon. Secretaries :* Rameshwarlal Harakchand ; Haribux Gadodia.

Treasurer : Ardeshir H. Bhiwandiwalla.

THE BOMBAY SANITARYWARE ASSOCIATION

Jeroo Building, 137 Mahatma Gandhi Road, Bombay 1.

Chairman : K. J. Horn ; *Vice-Chairman ;* C. C. Datta ; *Hon. Secretary :* G. C. Puri.

THE BOMBAY SHARE-HOLDERS' ASSOCIATION

Agakhan Building, 3rd Floor, Dalal Street, Fort, Bombay.

BOMBAY SHROFFS' ASSOCIATION LTD.

233, Shroff Bazar, Bombay 2.

President : Sheth Mohanlal Ambalal Parikh, B.A. ; *Vice-President :* Sheth Shankarlal C. Sura, B.A. ; *Hon. Secretaries :* Sheth Bipinchandra K. Zaveri, B.Com. ; Sheth Kirtanlal Lallubhai Desai ; *Treasurer :* Sheth Tribhovandas B. Nadiadwala ; *Secretary :* Chunilal V. Mody, B.A. (Hons.).

THE BOMBAY SPORTS TRADERS ASSOCIATION

C/o Messrs. Durham Sports, Dhobi Talao, Bombay 2.

President : D. N. Mehta ; *Vice-President :* R. D. Wagle ; *Secretary :* C. D. Verma ; *Treasurer :* D. M. Patel.

BOMBAY STATE CONSUMERS' CO-OPERATIVE SOCIETY LTD.

Victoria Mills Compound, Bombay 7.

The Society runs 10 stores all over the State out of which 7 are in Bombay city, which cater to the requirements of the common people of all consumers goods.

BOMBAY STATE POULTRY ASSOCIATION

C/o Poultry Development Officer, Government of Bombay, Poona 3.

THE BOMBAY STATIONERS' ASSOCIATION

205, Abdul Rehman Street, Bombay 3.

***Vice-President :* Sheth Trambaklal Keshavlal Sanghani ; *Treasurer :* B. J. Shanghavi ; *Secretary :* Shantilal N. Shah.**

THE BOMBAY STEVEDORES' ASSOCIATION LTD.

Janmabhoomi Chambers, Fort Street, Bombay.

President : K. A. Dubash ; *Vice-President :* D. A. Dhunjibhoy.

BOMBAY SUGAR MARKET LTD.

104-114, Frere Road, opp. Victoria Dock, Bombay 9.

The aims and objects of the Bombay Sugar Market are : to provide business premises and godowns for sugar merchants ; to pool and purchase sugar, gur, molasses and the by-products of sugar and to consider and settle all questions connected with the trade of sugar.

BOARD OF DIRECTORS :—Ardeshir Hormasji Bhiwandiwalla (*Chairman*) ; Manekial Ujamshi (*Mg. Director*) ; Dr. Kantilal Jagjivan Seth, Chunilal Manekchand, Amritlal Parmanand Bhutta. *Secretary.*—Gautamlal A. Shah, B.A., LL.B., Advocate, High Courr.

BOMBAY SUGAR MERCHANTS' ASSOCIATION LTD.

104/114, Frere Road, opp. Victoria Dock, Bombay 9.

President.—Sheth Manekial Ujamshi.
Vice-President.—Sheth Chunilal Manekchand.
Hon. Secretary.—Sheth Jhamnadas Thakurdas Talreja.
Secretary.—Gautamlal A. Shah, B.A., LL.B., Advocate.

THE BOMBAY SWADESHI MARKET BOARD

Swadeshi Market, Kalbadevi Road, Bombay 2.

President : B. N. Joshi ; *Hon. Secretary :* P. R. Sampat ; *Hon. Treasurer :* P. J. Lodhavia.

BOMBAY TEA MERCHANTS' ASSOCIATION

222-A, Samuel Street, Vadgadi, Bombay 3.

BOMBAY TEXTILE AND ENGINEERING ASSOCIATION

Opp. Railway Station, 343, Grant Road, Bombay.

President :—H. L. Dawlatjada, M.A., LL.B., B.SC. ; *Vice-President :* N. F. Bharucha, Comp. I.E. ; *Hon. Secretary :*—K. S. Punegar ; *Hon. Treasurer :*—R. P. Dalal.

THE BOMBAY TIMBER MERCHANTS' ASSOCIATION LTD.

Victoria Road, Mustafa Bazar, Bombay 10.

President : Miya Ahmed Darvesh ; *Vice-President :* Pragji Makanji ; *Hon. Secretary :* Homi Cavasji Bharucha.

BOMBAY TYPE FOUNDRY OWNERS' ASSOCIATION

B-196, Gaiwadi, Girgaon, Bombay 4.

Hon. Secretary :—M. C. Modi.

BOMBAY WATCH MATERIAL MERCHANTS' ASSOCIATION LTD.

138, Nagdevi Street, Bombay 3.

President : Vali Mohomed Roshan & Company, Abdul Rehman Street, Bombay 3 (Ex-officio) ; *Secretary :* Zion Watch Co., 138, Nagdevi Street, Bombay 3.

THE BOMBAY WOOL MERCHANTS' ASSOCIATION

Post Box No. 1040, Bombay 1.

President.—Manoobhai Doongursee.
Vice-President.—Parmanand Issardas.
Jt. Hon. Secretaries.—Vijaysinh Virchand ; Saradchandra Maheshwari.

BOMBAY WOOLLEN DEALERS' CORPORATION

C/o 65, Champagalli, Bombay 2.

BOMBAY WOOLLEN PIECEGOODS MERCHANTS' ASSOCIATION

Mulji Jetha Cloth Market Hall, Sheikh Memon Street, Bombay 2.

President : Khanjibhai Khodidas Mehta ; *Vice-President :* Himatlal J. Desai ; *Hon. Jt. Secretaries :* Bhurabhai C. Shah ; Tryambaklal K. Katakia.

BOMBAY YARN MERCHANTS' ASSOCIATION & EXCHANGE LIMITED

111, Chawala Building, Tambakanta, Bombay 3.

President : Gordhandas Jadavji ; *Vice-President :* Punjalal N. Shah, B.SC. ; *Hon. Treasurer :* Ratilal Kuberdas Patel ; *Secretary :* D. M. Boradia, B.A., LL.B.

BUILDERS' ASSOCIATION OF INDIA

United India Building, Sir Phirozshah Mehta Road, Fort, Bombay 1.

President : Rai Saheb Bhagwandas ; *Vice-President :* Glyn Jones ; *Hon. Secretary :* Y. G. Patel ; *Hon. Treasurer :* G. R. Jolly.

BUTTER MANUFACTURERS' ASSOCIATION

C/o Star of India Dairy Co., 112, Medows Street, Fort, Bombay.

President :—Narayan S. Kajrolkar.
Vice-President :—Naval Nariman.
Hon. Secy. :—Hiralal A. Parikh.
Hon. Treasurer :—V. L. Shah.
Secretary :—E. T. Dewjee.

CENTRAL ORGANISATION FOR OIL INDUSTRY & TRADE

57-59, Kazi Syed Street, Bombay 3.

President : Naval H. Tata ; *Chairman :* Ratilal M. Gandhi ; *Secretary :* R. C. Sheth.

THE CHEMICAL AND ALKALI MERCHANTS' ASSOCIATION

242, Samuel Street, Vadgadi, Bombay 3.

President : C. C. Marfatia ; *Vice-President :* D. G. Valia ; *Hon. Treasurer :* C. L. Parekh ; *Jt. Hon. Secretaries :* N. R. Swamy, N. G. Valia.

CHEMISTS' & DRUGGISTS' ASSOCIATION

Block 3, Devkaran Mansion, 43, Princess Street, Bombay 2.

President : V. G. Gandhi, J.P. ; *Vice-President :* B. M. Shah ; *Hon. Jt. Secretaries :* C. T. Ghatalia, K. A. Parikh ; *Hon. Treasurer :* R. N. Shah.

CINEMATOGRAPH EXHIBITORS' ASSOCIATION OF INDIA

Sandhurst Building, Sardar Patel Road, Bombay 4.

President.—B. D. Bharucha ; *Vice-President.*—S. G. Patwardhan. *Secretary.*—I. K. Menon ; *Hon. Treasurer.*—K. V. Desai.

CINEMATOGRAPHIC IMPORTERS' ASSOCIATION

Sandhurst Building, Sardar Patel Road, Bombay 4.

President : Dr. B. M. Adalja ; *Vice-President :* S. N. Agarwal.

COMMERCIAL ARTISTS' GUILD

4th Floor, India House, Fort Street, Bombay 1.
(Tel No. 264781)

CONCRETE ASSOCIATION OF INDIA

C/o A. C. C. Ltd., 121, Queen's Road, Fort, Bombay 1.

Chief Engineer and Editor, "Indian Concrete Journal" : K. K. Nambiar, B.E., C.E. (Hons.), M.I.E. (India), F.Inst. H.E. (England), M.I.Mun.E. (England), M.Am.Soc. C.E. ; *Dy. Chief Engineer and Associate Editor, "Indian Concrete Journal" :* H. S. Batlivala, B.E., M.I.E. (Ind.), M.I.Struct.E., M.Inst. H.E., M.Am., Soc.C.E.

COPPER & BRASSWARE MANUFACTURERS' & SELLERS' ASSOCIATION LTD.

64, Kansara Chawl, Room No. 80, 2nd Floor, Bombay 2.

President : Jagjiwandas Baldevdas ; *Hon. Secretaries :* M. M. Bhavsar ; S. Khetsibhai.

COTTON BUYERS' ASSOCIATION

1st Floor, State Bank Building Annexe, Fort, Bombay 1. (Tel. No. 252231).

CULTURED PEARLS IMPORTERS & EXPORTERS ASSOCIATION

184-186, Sheikh Memon Street, Bombay 2. (Phone : 23785).

President : Nagardas C. Javeri ; *Secretary :* Maganbhai B. Javeri

DECCAN SUGAR FACTORIES' ASSOCIATION

Stadium House, Block No. 2, Veer Nariman Rd., Bombay 1.
(Phone : 36725 ; Grams : "DECSUGAR".)

President, F. Edwards ; *Vice-President*, S. K. Somaiya ; *Secretary*, G. G. Rege, M.A., LL.B., Solicitor.

DYESTUFFS MANUFACTURERS' ASSOCIATION OF INDIA

Girton House, Lamington Cross Road, Bombay 7.

President : S. Santokh Singh, M.Sc. (Hons.) ; *Hon. Secretary :* M. V. Musumdar ; *Office-Secretary :* R. Gopalan.

EAST INDIA COTTON ASSOCIATION, LIMITED

Cotton Exchange, Marwari Bazar, Bombay 2.

Chairman.—Madanmohan R. Ruia ; *Vice-Chairman :* Manilal H. Patel ; *Secretary.*—C. M. Parikh.
Asstt. Secretary.—S. A. P. Aiyar.

THE ELECTRIC MERCHANTS' ASSOCIATION

Vithal Sayana Building No. 2, Lohar Chawl, Bombay 2.

President.—C. K. Shah.
Vice-President.—R. C. Kadakia.
Hon. Secretaries.—V. B. Kapadia ; C. B. Shah.

ELECTRICAL CONTRACTORS' ASSOCIATION

63, New Stock Exchange Building, Apollo Street, Bombay 1.

EXHIBITION SOCIETY

Central Bank Building, Hornby Road, Bombay 1.

The Society is founded for organising exhibition sales of indigenous household articles with the dual object of giving publicity and encouraging sales of Indian arts and crafts and to give facility to the general public to buy varieties of goods including cloth at marked prices from one place only.

FEDERATION OF BOMBAY RETAIL CLOTH DEALERS' ASSOCIATIONS

13, Bhangwadi, Kalbadevi Road, Bombay 2.

President : A. K. Jobanputra ; *Vice-President :* M. V. Dhabliwalla ; *Hon. Secretaries :* H. V. Dedhia and V. O. Shah ; *Hon. Treasurer :* S. M. Mehta.

FEDERATION OF BRITISH INDUSTRIES

(Incorporated in England by Royal Charter.)

Head Office : 21, Tothill Street, London, S.W.1.
Indian Branch Office : United India Building, Sir Phirozshah Mehta Road, Bombay 1.

The Federation's membership comprises over 8,000 British manufacturing firms in the United Kingdom covering all industries ; in addition, over 300 individual trade associations are affiliated to the Federation.

Branch Manager.—G. P. Brownie.

FEDERATION OF ELECTRICITY UNDERTAKINGS OF INDIA

Killick House, Home Street, Bombay 1.

OBJECTS : To promote, protect and assist the rights and interests of its members and licensees in India.

COMMITTEE.—K. G. Milne ; I. A. Macpherson ; S. M. Zubair ; J. W. Fawcett ; S. C. Farmer ; S. Venkataraman ; P. E. Patel ; N. C. Javeri ; B. P. Mehta ; M. M. Tayal.
Secretary.—R. P. Aiyer.

FEDERATION OF MOTOR TRANSPORT ASSOCIATIONS

Meher Bldg., Chowpatty, Bombay 7.

Objects : To encourage, promote and develop the Motor and Allied Trades and Motor Transport Industry in India.

President.—Dr. J. M. Rane; *Vice-President.*—P. Matthan ; *Hon. Secretary.*—B. V. Vaga.

THE FEDERATION OF PUBLISHERS AND BOOKSELLERS ASSOCIATIONS IN INDIA

(Registered under Section 26 of the Indian Companies Act, 1913).
Contractor Building, Nicol Road, Bombay 1.

OBJECTS : To promote and protect the publishers' and booksellers' trade in India ; to consider legislative and other measures affecting the trade ; to confer with governments and other public bodies on matters affecting the trade ; to promote honourable trade practices ; to aid and encourage the production, distribution and promotion of literary and other works ; to promote art, literature, science, culture and education.

President, P. J. Pandya ; *Secretary*, J. H. Shah ; *Treasurer*, B. J. Lakhani.

THE FEDERATION OF WOOLLEN MANUFACTURERS IN INDIA

J. K. Building, Dougall Road, Ballard Estate, Bombay 1

Chairman : V. C. Calloway ; *Vice-Chairman :* T. N. Khaitan. *Secretary :* S. Das Gupta.

GHEE MERCHANTS' ASSOCIATION

C/o 191/193, Samuel Street, Bombay 9.

GRAIN AND OILSEEDS MERCHANTS' ASSOCIATION

72-80, Masjid Bunder Road, Mandvi, Bombay 3.

President.—Seth Velji Lakhamsi Nappoo, B.A., LL.B. ; *Vice-President.*—Seth Devji Rattansey ; *Hon. Secretary.*—Seth Vallabdas Parsi ; *Secretary.*—K. N. Joshi.

GREY ART SILK MANUFACTURERS' GROUP

C/o The Central Weaving & Manufacturing Co., Swastik Mills Compound, Ferguson Road, Lower Parel, Bombay 13.

Hon. Secretary : J. K. Turakhia.

HINDUSTANI MERCHANTS' & COMMISSION AGENTS' ASSOCIATION LTD.

342, Kalbadevi Road, Bombay 2.

President : Puranmal Bubna ; *Vice-President :* Harnarayan Gopaldas ; *Hon. Secretaries :* Deviprasad Kejriwal ; Ramashai Pandey.

HOOSHAMI OLD IRON MERCHANTS' ASSOCIATION

Darukhana, Mazagaon, Bombay 10.

HOTEL & RESTAURANT ASSOCIATION OF BOMBAY REGION

Taj Mahal Hotel, Apollo Bunder, Bombay 1. (Tel. No. 219101).

OFFICE-BEARERS.—*President.*—Sir Rustom P. Masani ; *Hon. Secretary.*—Maneck S. Shaw ; *Hon. Treasurer :* Ramnath Kapur ; *Secretary :* Shrikant Joshi.

INDIAN BANKS ASSOCIATION

Devkaran Nanjee Bldg., Horniman Circle, Fort, Bombay

Chairman : C. H. Bhabha ; *Dy. Chairman :* N. M. Chokshi ; *Hon Secretary :* S. L. Kothari ; *Secretary :* Dr. S. G. Panandikar.

INDIAN CENTRAL COTTON COMMITTEE (UNDER GOVT. OF INDIA, MINISTRY OF AGRICULTURE)

14, Nicol Road, Ballard Estate, Fort, Bombay 1.

President : Dr. M. S. Randhawa, D.Sc., F.N.I., I.C.S. ; *Vice-President :* M. R. Ruia ; *Secretary :* Dr. B. L. Sethi, M.Sc., Ph.D (Wales) ; *Deputy Secretary :* K. Dharmarajulu, M.Sc. ; *Assistant Secretary :* T. T. Paulose, B.A., LL.B., C.A.I.I.B. ; *Director, Technological Laboratory :* Dr. R. L. N. Iyengar, D.Sc. (Madras).

INDIAN CHEMICAL MANUFACTURERS' ASSOCIATION

(Bombay Regional Office)
Sir Vithaldas Chambers, 6th Floor
16, Apollo Street, Bombay 1.

Chairman.—J. H. Doshi ; *Vice-Chairman :* A. L. Chandavarkar ; *Hon. Secretary :* V. N. Sardesai.

THE INDIAN COTTON MILLS' FEDERATION

Elphinstone Building, Veer Nariman Road, Fort, Post Box No. 95, Bombay 1.

Chairman : Kasturbhai Lalbhai ; *Vice-Chairman :* Krishnaraj M. D. Thackersey ; *Secretary :* B. G. Kakatkar.

INDIAN COUNCIL OF FOREIGN TRADE

Co-operative Insurance Bldg., 4th Floor, Sir Phirozshah Mehta Road, Bombay 1.

OBJECTS.—The object of the Council is to promote International trade with all countries on the basis of equality with due regard to the needs of the industrialisation of the country and with a view to increasing the aggregate national income and to take all steps for promoting and safeguarding the interests of trade in general.

OFFICE-BEARERS : *President :* Murarji J. Vaidya (Bombay); *Vice-Presidents :* P. B. Advani, B. N. Banerjee, D. C. Kothari, Vallabhdas V. Mariwala ; *Hon. Gen. Secretary :* R. V. Vora.

INDIAN ENGINEERING ASSOCIATION (BOMBAY BRANCH)

C/o Bombay Chamber of Commerce, Post Box 473, Bombay 1.

Chairman : G. E. Kerr ; *Dy. Chairman :* F. A. Jasdanwalla.

INDIAN GRAIN DEALERS' FEDERATION

Grain Dealers' Building, Kessowji Naik Road, Bombay 9.

President : Khimji M. Bhujpuria, J.P. ; *Vice-Presidents :* Virji N. Salia, J.P. and Husseinbhai A. Valjee, J.P.

THE INDIAN INSURANCE COMPANIES' ASSOCIATION

Co-operative Insurance Bldg., Sir Phirozshah Mehta Road, Bombay 1.

Chairman.—P. U. Patel.
Vice-Chairman.—M. S. Dastur.
Secretary.—D. N. Majmudar, B.A., LL.B.

THE INDIAN LANGUAGES NEWSPAPERS' ASSOCIATION

C/o Janmabhoomi Bhavan, Ghogha Street, Fort, Bombay 1.

INDIAN MOTION PICTURE DISTRIBUTORS' ASSOCIATION

Mogul Lane, Off Sitaladevi Temple Road, Mahim, Bombay 16.

Registered under the Indian Company's Act 1913 on the 14th September, 1939. The aims and objects of the Association are to promote, aid, help, encourage and develop the distribution branch of the Indian Film Industry in all possible ways.

INDIAN MOTION PICTURE PRODUCERS' ASSOCIATION

Sandhurst Building, Sardar Patel Road, Bombay 4.

President.—J. B. Roongta ; *Vice-Presidents.*—R. Chandra ; Bimal Roy ; *Secretary.*—I. K. Menon ; *Hon. Treasurer.*—Gaurishanker.

INDIAN NATIONAL STEAMSHIP OWNERS' ASSOCIATION

Scindia House, Ballard Estate, Bombay 1.

President.—Smt. Sumati Morarjee.
Vice-President.—Vikramsinh S. Vallabhdass.
Hon. Treasurer : J. M. Kapadia.
Honorary Secretary.—K. P. Shah.
Secretary.—S. K. Aier.

INDIAN PAINT & ALLIED INDUSTRIES ASSOCIATION

C/o The Elphinstone Paint and Colour Manufacturing Co., 50, Elphinstone Road, Bombay 13.

President : Narsidas M. Shah ; *Secretary :* R. A. Mehta.

INDIAN ROADS & TRANSPORT DEVELOPMENT ASSOCIATION, LIMITED

27, Bastion Road, Bombay 1.

The Association has its headquarters in Bombay and branches at Calcutta, Bombay, Madras, Nagpur, New Delhi and Gauhati.

The aims and objects of the Association are to promote the development of transport of any kind including Road, Motor and Air Transport throughout India.

President.—A. D. Wenzel ; *Secretary :* C. S. Mair.

INDIAN RUBBER INDUSTRIES ASSOCIATION

12, Rampart Row, Fort, Bombay 1.

President : C. Rai ; *Hon. Gen. Secretary :* K. M. Philip. Tel. No. 252015. Grams : "AMUNDUL."

INDIAN SOCIETY OF ADVERTISERS LTD.

Army and Navy Buildings, Mahatma Gandhi Road, Bombay 1.

Aims and Objects : To promote, maintain and uphold sound ethical and economic principles of advertising, to encourage and promote unanimity among members on all subjects involving their common good, to secure joint action in all matters affecting the common interests of members, and to take constructive action in all important branches of advertising.

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(Estd. Jan. 1947.)

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THE BOMBAY MOTHERS AND CHILDREN WELFARE SOCIETY

No. 10, B.D.D. Chawl, DeLisle Road, Bombay No. 11.

Chairman:—Lady Cowasji Jehangir.
Hon. Treasurer:—K. S. Sethna; *Hon. Secretary:*—Dr. K. S. Bhaskar.

BOMBAY NURSING COUNCIL

Zorastrian Bldg., 2nd Floor, 16, Horniman Circle, Bombay 1.

President.—Dr. D. P. Setna, F.R.C.S. (Eng.).
Vice-President:—Dr. R. N. Cooper, F.R.C.S. (Eng.); *Registrar:*—P. N. Mazumdar, M.A. (Lond.), B.A., LL.B.

BOMBAY PARSI PASTAKIA ANJUMAN FUND

Trustees of the Fund.—Pardunji Framji Guard; Ruttansha Dadabhoy Rustomjee Bhabha; Burjor Dadabhoy Bhabha; Ardeshir Manockji Jilla; Byramji Ardeshir Mistree; Kaikhushroo Framroze Tamboli.

HONORARY TREASURER.—Ruttansha Dadabhoy Rustomjee Bhabha, Meher Mansion, near Tardeo Bridge, Tardeo, Bombay 8.

BOMBAY PINJRAPOLE

Post Girgaon, Bombay 4.

The Bombay Pinjrapole is a charitable trust and an asylum for unserviceable and disabled animals and birds, giving them shelter, food and medical treatment. It has branches in Bhiwandi, Raita and Chembur. It has a breeding centre for the best Gir cows and gives animals to farmers and tillers almost free of charge. The institution carries on the mission of mercy for dumb animal friends.

SECRETARY.—Dasharathlal Manilal Thaker.

BOMBAY SOCIETY FOR THE PREVENTION OF CRUELTY TO ANIMALS

including

BAI SAKARBAI DINSHAW PETIT HOSPITAL FOR ANIMALS

No. 1, Govt. Gate Road, Parel, Bombay 12.

BOMBAY STATE WOMEN'S COUNCIL

Town Hall, Fort.

(*See under Women's Associations*).

BOMBAY STATE WOMEN'S COUNCIL RESCUE HOME FOR WOMEN

South Jail Road, Umerkhadi, Bombay 9.

BOMBAY SUBURBAN MEDICAL AND RELIEF SOCIETY

C/o The Jasmine Ladies Welfare Union, Turner Road, Bandra, Bombay 20.

Enquiries: Miss G. J. Patel. Tel. 75307.

BRITISH WOMEN'S ASSOCIATION

114, Apollo Street, Fort, Bombay 1.

Telephone: 253208.

CATHOLIC WOMEN'S WELFARE SOCIETY

Convent Street, Bombay 1.

The Society undertakes family case work and runs the St. Martha's Hostel (Dr. Viegas Street, Cavel) for working girls, at the lowest possible rates.

President.—His Eminence the Archbishop of Bombay.

CHILD GUIDANCE CLINIC OF THE TATA INSTITUTE OF SOCIAL SCIENCES

Bai Jerbai Wadia Hospital for Children, Parel.

AIMS AND OBJECTS: Helping children who present difficulties of adjustment and psychological problems. Cosmopolitan.

ACTIVITIES: Treatment centre for children presenting difficulties of adjustment and habit, personality and behaviour problems. A laboratory for students of social work and students of child psychiatry. The Clinic is open every day and new cases are registered on Tuesdays and Fridays. Holds lectures for doctors. Also lectures before parent-teacher groups. Mental testing is done at the Clinic. The Clinic functions as part of the Tata Institute of Social Sciences.

Officer-in-Charge.—G. B. Banerjee.

CHILDREN'S AID SOCIETY, BOMBAY

88, Lady Hardinge Road, Mahim, Bombay 16.

CITIZENS' ADVISORY BUREAUX

Head Office: 173, J. Tata Road, Bombay 1.

1. Bombay State Women's Council, Town Hall (Monday to Friday; 10-30 a.m. to 4-30 p.m.)
2. Social Service League, Servants of India Society, Sandhurst Road (every day 4 to 5 p.m.).
3. Nagpada Neighbourhood House, Nagpada, Byculla.
4. Diamond Jubilee Trust Office, Khoja Jamat Khana Compound, Khadak (Monday to Friday, 3 to 7 p.m.).
5. Naigaum Social Service League, B.D.D. Chawls, Naigaum.
6. Y.M.C.A., Lamington Road.

Note: The first five are under the auspices of the Bombay State Branch, Indian Conference of Social Work, and the last under the auspices of the Y.M.C.A.

COUNTESS OF DUFFERIN FUND

Raj Bhavan, Bombay 6.

Nature of Body: Endowments for scholarships.

Hon. Secretary and Treasurer, R. N. Bhavnagri, 113, Mahatma Gandhi Road, Bombay.

COWASJI BEHRAMJI DIVECHA TRUST

Darya Building, 375, Dr. Dadabhoy Naoroji Road, Fort.

Nature of Body: Endowments for Maintenance.

CURRIMBHOY IBRAHIM KHOJA ORPHANAGE

Telang Road, Matunga, Central Railway.

DABHOLKAR SCHOLARSHIP ADVISORY BOARD

22, Horniman Circle, Fort, Bombay 1.

DADAR BHAGINI SAMAJ

3rd Lane, Hindu Colony, Dadar, Bombay 14.

Industrial classes, and library service for women and children.

Activities.—Library for women and children; Recreation Centre; Gymkhana; Udyog Mandir; Classes in Hindi, English, French, Embroidery, Serving etc.

President.—Smt. Sushila Kashikar.

DADAR PARSI WELFARE CENTRE

614, Bachoobai Mansion, Jam-e-Jamshed Road, Parsi Colony, Dadar, and Munsiff Building, 635, Joshi Road, Parsi Colony, Dadar.

Principal Activities: Charitable Nursery School and General Welfare Centre for Parsi children; charitable tuition classes in Cutting & Tailoring and Hand & Machine Embroidery for Parsi women and girls, etc.

Hon. Secretaries.—H. D. Katrak; K. A. Tata; *Hon. Treasurer.*—Mrs. D. S. Bharucha.

DADAR SCHOOL FOR THE BLIND

160, Dadasaheb Phalke Road, Dadar, Bombay 14.

President.—Kamalnayan Bajaj; *Hony. Secretaries.*—Champaklal G. Modi, B.A., LL.B., J.P.; Smt. S. R. Potnis, B.A., LL.B.; Smt. Sudha V. Bhandarkar; *Principal.*—N. K. Ajgaonkar, B.A., LL.B.

DAUGHTERS OF THE CROSS, LIEGE, BELGIUM

St. Joseph's Convent, Bandra.

Nature of Body: Free School.

DAUGHTERS OF MARY IMMACULATE

Villa Vincenta, 2, Convent Street, Fort, Bombay 1.

The institution conducted by this Congregation comprises; (1) Home and Orphanage for destitute children, and child servants; (2) Recreation and Social Centre for Young Women and Girl domestic servants; (3) Holy Name Dispensary and Health Centre and; (4) Hostel for Young Women.

DAWOODI BOHRA SOCIETY

Mashati House, Mohamedalli Road.

Nature of Body: Endowments for Maintenance.

DEPRESSED CLASSES MISSION SOCIETY OF INDIA

112, Medows Street, Fort.

President :—Dr. M. R. Jayaker, Bar-at-Law ; *Hon. General Secretary* :—N. S. Kajrolkar ; *Chairman* :—M. B. Maniar, Bar-at-Law.

DR. DHIRAJRAM DALPATRAM AND BAI DAHIGAORI CHARITABLE TRUST

Tulsi Villa, Harvey Road, Gamdevi.

THE DIAMOND JUBILEE TRUST

Khoja Jamatkhana Compound,
Chinchbunder Road, Khadak, Bombay 9.

A public charitable trust.

President :—Abdulla Soomar.
Hon. Gen. Secy. :—Mrs. Zarina E. G. Currimbhoy, J. P. ; *Hon. Jt. Secy.* :—Haji Mahomed Jamal, J. P.

DISTRICT BENEVOLENT SOCIETY OF BOMBAY

Sir J. J. Dharmasala, opp. State Bank of India, Byculla Branch.

Committee Members.—Sir Jamsetjee Jeejeebhoy, Bart., *Chairman* ; G. Ross Thomas, *Hon. Treasurer* ; *Secretary.*—Mrs. Jer N. Gobhai ; *Jt. Hon. Secretary.*—Dr. Mrs. B. M. Dubash ; *Assistant Secretary.*—Mrs. N. J. Patel.

FAMILY PLANNING ASSOCIATION OF INDIA

Metropolitan House, Dadabhai Naoroji Road, Bombay 1.

The Association conducts (*a*) a *Family Welfare Centre* (Kutumb Sudhar Kendra), where advice on and assistance in birth control are given at premises in the Bombay Central Station Compound, with Branch services in B.D.D. Chawls, DeLisle Road, Mahim and Kurla ; and the *Family Welfare Bureau* where treatment for infertility and subfertility is available, at premises in the New Hospital for Women, New Queen's Road, under the direction of Dr. G. L. Phadke with a panel of Specialists ; (*b*) family planning clinics are being run in Badlapur village and Kalyan Refugee Camp ; (*c*) clinics are also being conducted by the Association at the Reserve Bank Colonies in Byculla and Mahim, at the Century Mills and Spring Mills ; (*d*) the Association conducts a free library and reading room at Metropolitan House, Dadabhai Naoroji Road, Bombay 1 ; (*e*) it publishes a monthly bulletin 'Planned Parenthood' giving information and general news items on the subject, and other literature is issued from time to time ; (*f*) the Association also arranges lectures (in various languages) and film-shows for educative propaganda ; (*g*) Doctors, health visitors and social workers are also given specialised training courses in family planning in Bombay and other places.

The Association has branches in Ajmer, Bengal, Delhi, Hyderabad, Jalpaiguri, Jamnagar, Mysore, Punjab, Kalyan Camp, Kerala, South Kanara and Vidarbha.

The Association is affiliated to the International Planned Parenthood Federation.

President.—Smt. Dhanvanthi Rama Rau.
Vice-President.—Smt. Mithan J. Lam.
Hon. Gen. Secretary.—Smt. Avabai B. Wadia.
Jt. Hon. Treasurers.—Smt. Vaidehi Char, Smt. M. S. H. Jhabvala.

THE FAMILY WELFARE AGENCY

209, Dadabhai Naoroji Road, Fort.

FELLOWSHIP OF THE PHYSICALLY HANDICAPPED

No. 7, Queen's Barracks, Foreshore Road, Backbay Reclamation, Bombay 1.

President : Mrs. Fathema Ismail ; *Vice-President* : H. B. Kher ; *Hon. Gen. Secretary* : Mrs. S. K. Kothavala ; *Associate Hon. Gen. Secy.* : Mrs. B. Ratanlal ; *Hon. Treasurer* : D. P. Gusdar ; *Assoc. Hon. Treasurer* : Mrs. J. P. Bhatt.

FREE OPHTHALMIC HOSPITALS' SOCIETY

Jehangir Merwanji Road, Pothavdi, Parel, Bombay 12.

President.—Khan Saheb Haji Hyderally Haji Bachooally, J.P.
Chairman.—Dr. D. S. Sardesai.
Hon. Secretary.—Dr. M. K. Sathe.

GANDHI SEVA SENA

Adenwalla Mansion, Chowpatty Sea Face, Bombay 7.

The Seva Sena conducts the village centre at Shirale Village in Murbad Taluka and the Khadi and Village Industries Shop at 12, New Petit House, Nana Chowk, Bombay.

GARIB ZARTHOSTIONA REHETHAN FUND

Rustom Building, Vir Nariman Road, Fort.

Nature of Body : Cheap housing.

GIRDHAR JIVA CHARITY TRUST

88, Dadyseth Agiary Lane, Bombay 2.

Trustee : Jamnadas Harjivandas.

GIRLS' DIOCESAN HOSTEL

Successors to All Saints Community, All Saints Convent, Masagon, Bombay 10.

The All Saints Sisters having withdrawn from their work in Bombay handed over their property to be used by the Girls' Diocesan Hostel Committee. The Girls' Diocesan Hostel Committee runs three Establishments, a Hostel for working girls and students, St. Elizabeths' Home for elderly and retired women and St. Faith's Home for poor Indian women.

GOCULDAS TEJPAL BOARDING SCHOOL & SANSKRIT PATHSALA

Gowalia Tank, Bombay.

Prepare students upto the Acharya examinations in Sahitya, Vyakaran and Jyotish, conducted by the Government Sanskrit College, Banaras.

Superintendent.—Gopal B. Dev, B.A., B.T., S.T.C.

GOCULDAS TEJPAL CHARITIES

7, Bastion Road, Fort, Bombay.

GOCULDAS TEJPAL NURSING ASSOCIATION

Forbes Building, Home Street, Fort, Bombay 1.

Chairman.—Dr. R. N. Cooper, M.S. (Lond.), F.R.C.S. (Eng.).
Hon. Secretary & Treasurer.—J. D. Smithard, M.A. (Oxon.).

GOVERNOR'S HOSPITAL FUND FOR BOMBAY

C/o Jehangir J. K. Patell, W. I. A. A., Post Box No. 211, Bombay 1.

Chairman.—Vacant ; *Joint Hon. Secretaries.*—Khatau G. Dayal, Jehangir J. K. Patell ; *Hon. Treasurer.*—N. B. Jijeebhoy.

GOWALIA TANK ROAD PARSI WELFARE CENTRE

President.—H. N. Dallas ; *Vice-President.*—Adi K. Munshi ; *Jt. Hon. Secretaries* :—R. D. Bugwadia and N. B. Cardmaster ; *Jt. Hon. Treasurers.*—H. H. Panthaky and M. K. Saklatwala. All communications to be addressed to R. D. Bugwadia, Forjett Cross Lane, Bombay 36.

GRAM SEVA SAMAJ

129, Gulalwadi, Bombay 4.

Nature of Body : Free distribution of medicines in rural areas.

HABONIM WORK ROOM

55, Forbes Street, Fort.

Women and girls from all strata of society are admitted, preference being given to displaced and destitute persons.

For deserving people free training, free meals every afternoon, free medical attention and bus transportation fees are given.

President and Founder-member : Mrs. E. Judah.

HAJI ALLARAKHIA RAHIMTOOLA SONAWALLA CHARITY TRUST (WAKF) FUND No. 1.

Khetwadi 9th Lane, Bombay 4.

President :—Husseinally M. Visram.
Managing Trustee :—Valimahomed Haji Alarakhia Sonawalla
Trustee :—Cumruddin G. Vakil.

HAJI ALLARAKHIA RAHIMTOOLA SONAWALLA CHARITY TRUST (WAKF) FUND No. 2.

Khetwadi 9th Lane, Bombay 4.

President :—J. R. B. Jeejeebhoy.

Managing Trustee :—Vallimahomed Haji Alarakhia Sonavala ; *Trustee* :—Haji Rajabally P. Ebrahim.

HAPPY HOME & SCHOOL FOR THE BLIND

B. D. D. Chawl 52, 3rd Floor, Worli.

This charitable residential institution for blind boys between 6 and 20 and fully secular, is the only one of its kind to provide for street blind and delinquents. It was started in 1925. It aims at giving educational and vocational training to blind juvenile boys. Music both instrumental and vocal as well as cane-work, weaving, net-work, sewing, knitting, dramatics, physical culture, scouting etc., are taught, with a view to making them self-supporting. It gives general education in Marathi and Gujarati upto the 7th standard. Hindi and a little bit of English are also taught. Special attention is paid to developing the character of inmates and turn them into useful citizens thus saving them from becoming beggars.

There are 56 inmates with room for 60, funds permitting.

President :—Kamalnayan Bajaj.

Hon. Secretary :—Mrs. Coomi Sohrab Bharoocha 63, Pedder Road, Bombay 26.

HARIJAN SEVAK SANGH

(Bombay Provincial Board)

C/o Congress House, Bombay 4.

President.—N. S. Kajrolkar.

Hon. Secretary.— H. N Trivedi, J.P.

HIND KUSHTA NIVARAN SANGHA

(Indian Leprosy Association)

Bombay State Council, Red Cross Office, 141, Mint Road, Bombay 1.

President The Minister for Health, Bombay

Hon. Secy. & Treasurer. Capt. N. J. Vazifdar.

HINDU DEEN DAYA SANGH

Plot No 255-56, Sion Road, Bombay 22.

A foundling home for infants and orphans

President Mangaldas M Pakvasa. *Trustees*.- Bhavanji A. Khimji, M P , J P , Madhavalal H Shah, J P , Liladhar P. Shah, J P , Navalmal K Firodia, B Sc *Chairman* Prabhashanker R Bhatt, J P *Vice-Chairmen* - Dr D D Vora, M D , M R C P ; Nathalal M. Parekh, J P *Hon Secretaries*. -Lalbhai P Shah , Miss Premaben Jeevandas, J P ; Pravinchandra T Shah *Hon Treasurer* Laxman G Vinze

HINDU SEVAK SAMAJ

C/o Mrs. Usha Khandwalla, Fulchand Nivas, Chowpatty Sea Face.

Nature of Body : Free School.

HINDU WOMEN'S RESCUE HOME SOCIETY

(Shraddhanand Anath Mahilashram.)

King's Circle, Matunga (C. Rly.), Bombay.

Chairman.—Mrs. Tarabai M. Premchand.

Hon. Treasurer.—K. H. Dhamdhere. *Joint Hon. Secretaries*.—S. S Navare, B. V. Dhadphale.

HOLY NAME DISPENSARY & HEALTH CENTRE

(Conducted by Daughters of Mary Immaculate)

Villa Vincenta, Convent Street, Fort.

HOME & ORPHANAGE FOR CHILD SERVANTS (GIRLS)

(Conducted by Daughters of Mary Immaculate)

Villa Vicenta, Convent Street, Bombay 1.

Free dispensary for the poor—both sexes.

INDIAN CONFERENCE OF SOCIAL WORK

16, Government Hutments, 6/A, Cooperage, Bombay 1.

The Central Office is situated in Bombay and it serves as a clearing house of information and a central body for planning, co-ordinating and collaborating social work in India. A Regional Office of the International Conference of Social Work for the Far East with jurisdiction from Australia to Iraq, also functions in Co-operation with the Central Office of I.C.S.W.

INDIAN COUNCIL FOR MENTAL HYGIENE

Cumbatta Chambers, Eros Building, 42, Queen's Road, Bombay 1.

INDIAN RED CROSS SOCIETY

(Bombay State Branch.)

141, Mint Road, Bombay 1.

President.—The Governor of Bombay.

Chairman -N K Pettigara, B A , LL B

Hon. Secretary.—Dr. J. N. Vazifdar, M.B.B.S., M.C.P.S.

Hon. Treasurer.—P. A. Engineer

General Secretary.—Capt. Khan Bahadur N. J. Vazifdar, M B.S., L.M. & S., F.C.P.S., F.C.S. (Lond), J.P.

INDIAN SAILORS' HOME SOCIETY

Masjid Siding Road Bombay 9

Office-Bearers :—L. T. Gholap, I.C S. (*Chairman*); T V. Rajagopalan (*Hon. Secretary*); I. B Das Gupta (*Hon. Treasurer*); Syed Mahamad (*Superintendent*).

INSTITUTE OF SOCIAL SERVICE

Two year Home Science Course, two year Social Service Course.

Nirmala Niketan, 38, New Marine Lines, Bombay 1.

IRANIAN ZOROASTRIAN ANJUMAN

Kermani Building, Sir P. M. Road, Fort.

Nature of Body : Endowments for Maintenance.

Secretary — Aspundiar M. Aga, B.A.

JAM-E-JAMSHED CHARITY FUNDS

Mangalore Street, Ballard Estate.

JAMSETJEE JEEJEEBHOY HOSPITAL NURSING ASSOCIATION

Maneckji Wadia Bldg , 6th Floor, 127, Mahatma Gandhi Road, Bombay 1.

Neville N. Wadia (*President*) ; J. R. Taleyarkhan (*Hon. Secy. and Treasurer*).

JEEJEEBHOY DADABHOY CHARITIES

Alice Building, Hornby Road.

Chairman :—Nanabhoy B. Jeejeebhoy.

Secretary :—Nariman R. Neralwalla.

Trustees :—Rustom D. Jeejeebhoy ; Padam D. Jeejeebhoy ; Dinbai J. M. Jeejeebhoy.

JEWISH RELIEF ASSOCIATION

Hague Building, Sprott Road, Ballard Estate, Post Box No. 47.

Hostel :—Habib Chambers, 324, Victoria Gardens Road, next to Christ Church football compound, Bombay 8.

J. J. HOSPITAL AMBULANCE

J. J. Hospital, Bombay 8.

The J. J. Group of Hospitals Ambulance is available for the General Public in the City of Greater Bombay if phoned on the Telephone No. 71103 between 8-0 A.M., and 7-0 P.M., on all working days and on Telephone No. 76565 at any other time. The ambulance charges are Rupees five for first five miles and every additional mile is charged twelve annas per mile. The free ambulance service is given to poor and indigent patients only, and to Bombay Government Servants and their family. This service is available for carrying the patients from J. J. Group of Hospitals to their home and vice versa in Greater Bombay only.

J. N. PETIT PARSI ORPHANAGE

28, Bund Garden Road, Poona.

BOMBAY OFFICE : N. M. Petit Charity Fund, Petit Building, Dr. Dadabhoy Naoroji Road, Fort.

President.—Sir Dinshaw Petit, Bart.

Vice-President.—Nasarwanji Hormusji Sethna. *Secretary*.—D. S. Buhariwalla. *Principal*.—H. A. Vatcha.

J. N. TATA ENDOWMENT FOR THE HIGHER EDUCATION OF INDIANS

Bombay House, Bruce Street, Fort.

Director.—Mrs. Piroja J. Vesugar.

Secretary.—V. G. Narainasami.

KASHIBAI HERLEKAR HOME

98, Deepak, Shivaji Park, Dadar
and
88, Cadell Road, Govind Bhuvan.

Nature of Body : Hostel.

Secretary.—Smt. Shantabai Kashalkar.

KASTURBA MAHILA MANDAL

Jiwan Prakash, Tulsi Pipe Road, Bombay 16.

KESARBAI CHARITY TRUST

88, Dadiseth Agiary Lane, Kalbadevi Road.

Trustee : Jamnadas Harjivandas.

KHOJA GIRLS' ORPHANAGE

125, Jail Road East, Habib House, Bombay 9.

KING EDWARD MEMORIAL MEN'S INDUSTRIAL HOME

(The Salvation Army.)
122, Ripon Road, Byculla.

Senior Major D. A. Smith, *Social Services Secretary*.

KING GEORGE V MEMORIAL

Infirmary and Lady Dhunbai Jehangir Home for the Destitute.
Royal Insurance Bldg., Backbay Reclamation, Churchgate.

Chairman.—Lady Cowasji Jehangir, J.P. ; *Hon. Secretaries*.—C. M. Desai, B.A., LL.B., A.I.I.I., J.P.; P. R. Mullaferoze, B.Com., F.C.C.A., J.P.; *Hon. Treasurer*.—K. S. Sethna, J.P.

KUDALDESHASTHA GAUD BRAHMIN VIDYAVRIDDHI SAMAJ

30, Kudaldeshkar Brahmin Niwas, Bombay 4.

Nature of Body : Endowments for scholarships and loans.

LADY TATA MEMORIAL TRUST

Bombay House, Bruce Street, Fort, Bombay 1.

Trustees.—Lady Ratan Tata, J. R. D. Tata (*Chairman*), Sir Homi Mody, K.B.E., J. D. Chokai, D. R. D. Tata, Mrs. P. J. Vesugar, Professor R. Chokai.

Secretary.—N. D. Godbole.

LEAGUE OF MERCY FOR THE STATE AND DIOCESE OF BOMBAY

61, Clare Road, Byculla, Bombay 8.

President.—The Right Rev. the Bishop of Bombay.

Vice-Presidents.—The Venerable the Archdeacon C. A. Bolton, 19, Waudby Road ; Mrs. J. W. E. Gurr, 5, Cuffe Parade ; Mrs. M. G. R. Aitken, M.B.E., 5, Sealand, Cuffe Parade.

Hon. Treasurer.—J. D. Gillies ; *Associate Hon. Secretary*.—Mrs. J. F. Fewings-Tate.

LIAISON COMMITTEE FOR ORGANISATION OF PARSI CHARITIES

Zor. Asen. Indust. Inst. Bldg., Chikhalwadi, Tardeo, Bombay.

LOKA SEVA MANDAL

Kalla Killa, Dharavi, Bombay 17.

Activities :—Charitable dispensary, Gymnasium, Library, Reading room, Prohibition work, Free milk distribution to Children and Co-operative movement (Consumer & Housing Society).

LOKMANYA SEVA SANGH

Tilak Mandir, Ram Mandir Road, Vile Parle.

A non-communal social body does educational work. It runs a library, a gymnasium, tailoring and embroidery classes for ladies, Hindi classes and ayurvedic and allopathic dispensary.

President :—B. D. Phansalkar.

Secretaries :—P. G. Surve, S. M. Modak.

MAHILA SANGH D-WARD (A.I.W.C.)

Servants of India Society Bldg., 2nd Floor, Sardar Vallabhbhai Patel Road.

MANECKJI NOWROWJI SETT CHARITIES

Kodak House, Dr. Dadabhoy Nowroji Road, Fort, Bombay 1.

MANECKJI NOWROJI SETT POLYTECHNIC INSTITUTE

Kodak House, Dr. Dadabhoy Nowroji Road, Fort, Bombay 1.

MANGALOREAN CATHOLIC CO-OPERATIVE CREDIT SOCIETY LTD.

14, Noble Chambers, Parsi Bazar Street, Bombay 1.

MANGALOREAN CATHOLIC EDUCATIONAL CO-OPERATIVE CREDIT SOCIETY, LTD.

14, Noble Chambers, Parsi Bazar Street, Fort.

MANGESH VISHWANATH RAJADHYAKSHA SCHOLARSHIPS AND CHARITY FUND

Mangesh Building, Bhatwadi Road, Bombay 4.

The object of the Trust is to help the poor and deserving students and destitutes in the whole of the Gowd Saraswat Brahman community. The trust spends annually Rs. 3,000, two-thirds of which are given by way of scholarships and the balance as subsistence allowance to destitutes.

MARATHA VIDYARTHI SAHAYAKARI MANDAL

Batatawalla Mansion, Lal Baug.

MOGAVEERA VYAVASTHAPAKA MANDALI, BOMBAY

Manek Mansion, 8, Nanabhai Lane, Bombay 1.

Objects :—Promoting the spread of education through day and night schools.

DR. MOTIBAI KAPADIA EDUCATION FUND

C/o Mr. Jamshed J. J. Cursetjee, Managing Trustee, 55, Worli Sea Face, Bombay 18.

MR. & MRS. BAGOMAL TULSIDAS CHARITIES

Gopal Mansion, Turner Road, Bandra, Bombay 20.
Benevolent Institution giving medical relief.

Sole Trustee :—G. B. Sujan.

Medical Officer in Charge of Dispensary and Pathologist.—Dr. L. H. Mirchandani ; *Dental Surgeon.*—Dr. A. N. Shah.

MUNICIPAL AMBULANCE DEPOT

(For Infectious Diseases)
174, Arthur Road.

Telephones : 73271 - 73272.

MUSLIM AMBULANCE SOCIETY

152, Kambeker Street, near Zakeria Masjid, Bombay 3.

President.—Abdul Rahim B. Sheth, B.A., LL.B. ; *Hon. Secretaries.*—Yousuf Nensey ; Fakirmohamed A. R. Nakhuda.

MUSLIM GIRLS AND BOYS ORPHANAGE

Darul Yatama Building, 69, Kambekar Street, Bombay 3.

Chairman :— Fakirmohamed, A. R. Nakhuda.
Trustee :—Ahmed Hajee Abdullah Gareeb.
Superintendent :—Saifuddin Gulamrasool Qazi.

N. F. KANNY CHARITY TRUST FUND

C/o P. A. Wadia, 173, Jamshedji Tata Road, Backbay, Bombay 1.

N. M. WADIA CHARITIES

22-D, Parsi Bazar Street, Fort.

Trustees :—**Sir Jamsetjee Jeejeebhoy, Bart., Sir Rustom P. Masani, Kt., C. P. Wadia and Sir Shapoorjee B. Billimoria, Kt., M.B.E.**

Secretary.—**Lt. Comdr. D. B. Morris, O.D.A., A.C.A., I.N. (Retd.).**

N. S. D. INDUSTRIAL HOME FOR THE BLIND

B.D.D. Chawl No. 52, Worli, Bombay 18.

The chief aim is to educate, train and rehabilitate its inmates to lead an independent economic life.

Hon. Secretaries.—**Capt. H. J. M. Desai, M.A., LL.B. ; Lt. G. L. Nardekar.**

Superintendent.—**(Kumari) S. S. Gaitonde.**

NAGPADA NEIGHBOURHOOD HOUSE

New Nagpada Road, Byculla.

Activities.—Medical and Family Planning Clinics, children's welfare centre, nursery, dramas, meetings, cinemas, games, classes, clubs, athletics, night schools, lectures, sales centre for All-India Village Industries, employment bureau, working men's and women's hostels and libraries for adults and children, Bombay School of Social Welfare and Citizen's Advisory Bureau.

Director.—P. R. Gaikwad, B.A., Dip. S.S.A., M.S.

Medical Officer.—Dr. (Mrs.) P. M. Mody, M.B.B.S.

NARAYANRAO KULKARNI MEMORIAL WELFARE SOCIETY

20, Hamam Street, Fort.

Aims and objects :—The Society has established a cheap and charitable welfare institution at Saral, Alibag, *viz.*, a Holiday Home for the use of members and their families who wish to go for a short change of air.

President :—A. S. Padukone, B.Sc. ; *Vice-President :*—Dr. S. S. Kulkarni, L.C.P.S., D.T.M. ; *Jt. Hon. Secretaries :*—V. R. Kulkarni ; B. N. Kulkarni.

NASSERWANJEE MANOCKJEE PETIT CHARITY FUND—(1888)

Petit Building, Dr. Dadabhoy Naoroji Road, Fort, Bombay.

NASSERWANJEE MANOCKJEE PETIT FUND FOR HELPING DESTITUTE INSANE ZOROASTRIANS

Petit Building, Dr. Dadabhoy Naoroji Road, Fort, Bombay.

THE NATIONAL ASSOCIATION FOR THE BLIND

3rd Floor, Jehangir Wadia Building, Flora Fountain, Bombay 1.

Bombay 7. (Tel. No. 41536.)

AIMS AND OBJECTS.—To work in the whole of India for the prevention and cure of blindness and for the welfare of the blind, to bring about co-operation among the various organisations of the blind, to co-ordinate their activities, to organise and start new organisations and institutions for various activities for the welfare of the blind and to do all such other things as may be necessary for the promotion of the interest of the blind.

Funds are derived from donations from the public and by organising entertainments, etc.

OFFICE-BEARERS :—*President.*—R. M. Alpaiwalla, Bar-at-Law; *Vice-Presidents.*—M. N. Chhatrapati, Advocate, U. A. Basrurkar, E. Edward Jonathan ; *Secretaries.*—Capt. H. J. M. Desai, K. N. K. Jussawala, Lt. G. L. Nardekar, Smt. Piloo D. Khambatta, Rajendra T. Vyas ; *Treasurers.*—Mrs. Jer N. Gobhai, Noshir P. Dastur.

PARSI CHARITY ORGANISATION SOCIETY

Thakur Nivas, 173, Jamshedji Tata Road, Bombay 1.

Hon. Secretary.—**Prof. P. A. Wadia, M.A.**

PARSI PUNCHAYET FUNDS AND PROPERTIES

209, Dr. Dadabhoy Naoroji Road, Fort, Bombay.

The Parsi Punchayet Funds and Properties run 12 institutions under their auspices namely the Fort Nursery and Infant School, Noble Chambers, Parsi Bazaar Street, Bombay 1 ; the Health Unit, Gamadia Building, Gamadia Colony, Tardeo ; Hostel for Boys, Gamadia Colony, Tardeo ; the Central Employment Bureau, 209, Dr. D. Naoroji Road, Fort, Bombay 1 ; the Industrial Institute ; Gamadia Colony, Tardeo ; Sir Jamsetjee Jejeebhoy Zarthoshti Madressa, Engineer Building, Princess Street, Bombay 2 ; Sir Jamsetjee Jejeebhoy Commercial Institute, Sir J. J. P. B. Institution Building, 209, Dr. D. Naoroji Road, Fort, Bombay 1, the Boarding Home for Rural Boys, Gholvad ; the B. N. Gamadia Technical Institute, Gamadia Colony, Tardeo ; M. P. Khareghat Memorial Hall, Khareghat Colony, Hughes Road, Bombay 7 ; the Standing Committee of Public Trusts of Bombay, 209, Dr. D. Naoroji Road,

Bombay 1 (*President*, Sir Cowasji Jehangir, Bart.; *Hon. Secretary*, S. F. Desai); Department of Psychological Services, Office of the Trustees of the Parsi Punchayet Funds and Properties, 209, Dr. D. Naoroji Road, Bombay 1.

Chairman.—Sir Cowasjee Jehangir, Bart. *Trustees.*—Sir Shapoorjee Billimoria, Kt., Nadirshah Mulla, Solicitor, Lady Hirabai Cowasjee Jehangir, Lt.-Col. R. M. Kharegat, Sir Navroji J. Wadia, Kt. and Erach Ardeshir Nadirshah.

Secretaries.—Sapur Desai; Gustasp Antia.

POONA SCHOOL AND HOME FOR THE BLIND

Khadilkar Road, Girgaum, Bombay 4.

Honorary Secretary :—Dr. S. R. Machave, L.C.P.S., Khadilkar Road, Girgaum, Bombay 4.

THE POPULAR AMBULANCE ASSOCIATION

(Tel. 73808.) Talmakiwadi, Tardeo, Bombay 7.

President.—A. S. Padukone; *Vice-President.*—K. Panduranga Rao; *Chairman.*—S. M. Jothady; *Hon. Secretary.*—Dr. B. P. Divgi; *Hon. Treasurer.*—N. G. Ubhayakar.

PROBATION AND AFTER-CARE ASSOCIATION, BOMBAY STATE

B.I.T. Block No. 33, King's Circle, Matunga.

Telephone : 60152.

After-care, adult probation work and aid to discharged prisoners.

Conducts a hostel at Chembur near Shell Colony and Beggars Home.

President.—Smt. T. M. Premchand.

Vice-President.—G. K. Rege; *Hon. Treasurer.*—R. G. Gokhale, B. Com., J.P.; *Chief Officer.*—E. B. Shah, B.A.

PROF. DATE'S CHARITABLE DEAF AND DUMB INSTITUTE

Opp. Kalaram Mandir, Thakurdwar Road, Bombay 2.

This is a pioneer institution and one of the first of its kind. Prof. Date has worked out a technique of teaching the deaf and dumb how to speak, read and write in their mother tongue. He has also trained a body of teachers. Experts from overseas who visited his institution have expressed appreciation of the institution and its work.

RAMAKANT KRISHNA BHENDE SCHOLARSHIP FUND

22, Horniman Circle, Fort, Bombay 1.

RAO BAHADUR ANANT SHIVAJI DESAI TOPIWALA CHARITY

Kudaldeshkar Brahmin Niwas, Girgaon, Bombay 4.

Chairman.—S. N. Desai Topiwalla; *Managing Trustee.*—N. P. Samant; *Hon. Secretary.*—S. R. Desai.

RASHTRA DHARMA SARASWATI MATH SANSTHA

Ganga Nivas, 234, Walkeshwar, Bombay 6.

Founded in 1927, the Society is devoted to Education and Rural Welfare.

RECREATION AND SOCIAL CENTRE FOR YOUNG WOMEN AND GIRL DOMESTIC SERVANTS

Villa Vincenta, 2, Convent Street, Fort, Bombay 1.

Conducted by the Daughters of Mary Immaculate, Villa Vincenta 2, Convent Street, Bombay 1.

ROHIDAS SUDHARAK MANDAL

B.D.D. Block No. 12/B, Room 54, Naigam, Dadar.

Nature of Body : Endowments for scholarships and loans.

President.—R. B. Chandorkar; *Secretary.*—V. D. Kaprekar.

ROYAL BOMBAY SEAMEN'S SOCIETY

Nicol Road, Ballard Estate, Bombay.

President.—The Rt. Rev. The Lord Bishop of Bombay.

Chairman.—N. H. G. Grant; *Port Chaplain.*—The Rev. Robert Barlow.

SALVATION ARMY

(*See p. 427.*)

Post Box No. 4510, Morland Road, Byculla.

SARAIYA CHARITY TRUST

Swastik Court, 132, Queen's Road, Churchgate Reclamation.

SAU BHRATRA SANGHA LTD.

14, Vasant Breezy Chambers, King's Circle, Bombay 19.

The Sangha, incorporated as a Company limited by guarantee, in June 1951, under the Indian Companies Act VII of 1913, has for its objects the alleviation of the lot of middle-class people generally and in particular, provision of houses for the homeless immediately by organising a homogeneous colony of people whose ways of life are identical.

President :—R. V. Murthy; *Vice-President*, N. R. Chandran; *Hony. Secretary*, M. Sivaraman; *Hon. Treasurer*, N. K. Krishna.

SCHOOL FOR CHILDREN IN NEED OF SPECIAL CARE

Sewri Hill, Sewri Road, Bombay 15.

Director.—Mrs. Jai H. Vakeel.

SETH ARDESHIR SORABJI FRAMJI PATEL CHARITY FUND

Yusuf Building, Mahatma Gandhi Road, Fort.

Secretary : P. P. Antia.

SETH MANECKCHAND HIRACHAND JUBILEE BAUG TRUST FUND

Jubilee Baug, Tardeo, Bombay 7.

Office : 190, Javeri Bazar, Bombay 2.

Endowments for scholarships.

Manager.—R. R. Shah.

SETH RANCHHODDAS CHATURBHUJ CUTCHI LOHANA BAL ASHRAM

63, Parel Road, Chinchpokli, Bombay 12.

Chairman.—Purshotam Chaturbhuj.

Hon. Secy.—Hirji Lakmidas; *Jt. Hon. Secy.*—N. P. Chandan, *Superintendent.*—M. S. Somaiya.

SEVA SADAN SOCIETY

Gamdevi, Bombay 7.

President.—Mrs. Rasikmani B. Desai; *Hon. Secretary.*—Miss A. Engineer, M.B.E., M.A., LL.B.; *Jt. Hon. Secretary.*—Mrs. V. Mazumdar.

SHEPHERD WIDOWS' HOME

Byculla.

Arch Dean :—The Rev. C. W. Venkataramiah.

Honorary Secretary :—Mrs. D. G. Leach, C/o F. J. Vickery, Hill Crest, 31, Pedder Road, Bombay 26.

SHRADHANAND ANATH MAHILASHRAM

King's Circle, Matunga, Bombay 19.

SHREE MODH SUBHECHAK FUND

542, Sandhurst Bridge, Bombay 7.

Nature of Body : Endowment for maintenance.

SHREE RAMKUNVAR CHARITABLE X-RAY INSTITUTE TRUST

Ranade Road, Jiva Devsi Nivas, Dadar (Western Rly.).

Managing Trustee :—Girdharlal Damodar Daftary.

The trust conducts the Shri Ram Kunvar Charitable X-Ray Institute, Shri Damodar Ambavidas Daftary Sarvajanik Dispensary at Chembur and Ghatkopar

SHREE VILE PARLE KELAVNI MANDAL

Dadabhoy Road, Vile Parle.

Nature of Body : Free school.

SHRI JAIN MAHILA SAMAJ

Mangrol Mansion, Bora Bazar Street, Bombay 1.

(Estd 1910).

Dadar Centre : A-36, Palanji Sojpal Bldg., Portuguese Church Street, Bombay 28.

It is open to all Indian women above the age of 18. There are 1 200 members at present Coaches ladies for the diploma course in tailoring of the Technical Education Department of Bombay and conducts classes for its own tailoring Adult education in Hindi, Gujerati and English also given. Besides the Samaj conducts a Kanya Mandal for girls between 12 and 16 years of age and a Bal-Mandir for children of 3 to 6. *Vikas*, a magazine is run by the Samaj. Classes in cutting, sewing and music are also held. Scholarships are given to needy women and girls joining Nursing Course and Teacher's Training College Courses

President :—Smt. Taraben M. Premchand.

Hon. Secretaries :—Smt. Lilavatiben Devidas, Smt. Menaben T. Sheth, Smt. J. M. Kapadia.

SHRI MAHAVIRA JAINA VIDYALAYA

Gowalia Tank Road, Bombay 26.

Nature of Body : Endowments for scholarships and loans.

SHRI RAMKUNVAR CHARITABLE X-RAY INSTITUTE

Ranade Road, Jiva Devsi Niwas, Dadar (Western Rly.).

Medical Superintendent.—Dr S. P. Mehta, M.D. ; *Radiologists*.—Dr G. K. Kripalani ; Dr. M. M. Mehta, M.B.B.S., D.M.R.E. ; Time 8 to 9-30 A.M. and 4 to 6 P.M.

SIR DORABJI TATA TRUST

Bombay House, Bruce Street, Bombay 1.

Trustees.—Lady Ratan Tata, Sir Homi Mody, K.B.E. (*Chairman*), J. R. D. Tata, A. D. Shroff, Dr. John Matthai, N. H. Tata, Prof. R. Choksi.

Secretary.—N. D. Godbole.

SIR RATAN TATA CHARITIES

Bombay House, Bruce Street, Fort.

Trustees.—Lady Ratan Tata ; Naoroji Hormusji Tata ; Sir Hormuzdiar Dastur, Kt. ; Dhanjishaw Hosangshaw Nanavati.

Secretary.—Pirosha Peatonji Mistri.

SIR RATAN TATA INDUSTRIAL INSTITUTE

Sir Ratan Tata Industrial Institute, Hughes Road.

SIR RATAN TATA WELFARE CENTRE

Cowasji Jehangir Colony, Tardeo, Bombay 7.

SOCIAL SERVICE DEPARTMENT

J.J. Group of Hospitals, Byculla.

SOCIAL SERVICE LEAGUE

St. Xavier's College, Bombay 1.

SOCIETY FOR THE CARE, TREATMENT AND TRAINING OF CHILDREN IN NEED OF SPECIAL CARE

Ravi Lodge, Warden Road, Bombay.

President.—Sir N. J. Wadia, Kt.

Director, Mrs. Jal H. Vakil.

SOCIETY FOR THE PROTECTION OF CHILDREN IN WESTERN INDIA

The Byramjee Jeejeebhoy Home for Children, Matunga, Bombay 19.

President.—Frank Oliveira, B.A., LL.B.

Vice-Presidents. Sir Rustom Masani, M.A. (*also Chairman*); J. R. B. Jeejeebhoy *Hon. Secretaries*.—Lady Masani ; Lady Kania ; Diwan Bahadur Dr J. S. Nerurker. *Hon. Treasurers*.—J. R. B. Jeejeebhoy ; K. A. Chidambaram. *Superintendent*.—Miss I. A. Sabnis.

SOCIETY FOR THE REHABILITATION OF CRIPPLED CHILDREN

Haji Ali Park, Clerk Road, Mahalakshmi.

Chairman.—Dr. A. V. Baliga, F.R.C.S. (Eng.).

SOCIETY OF N. SRA. DA PIEDADE, DABUL

49, Dukerwadi, Bombay.

A charitable institution

SOCIETY OF ST. VINCENT DE PAUL, ST. PETER'S CONFERENCE

St. Peter's Church, Hill Road, Bandra.

Nature of Body : Endowments for Maintenance.

SORABJI MANECKJI SETT CHARITIES

C/o R. D. Sethna, Spinner Building, 8/10, Tamarind Lane, Fort, Bombay.

ST. ANTHONY'S HOME

Bellasis Road, Byculla.

Nature of Body : Orphanage and foundling home.

ST. CATHERINE'S HOME

Ambivili, Off Versova Road, Post Andheri.
Nature of Body : Home for destitutes.

ST. FRANCIS D'ASSISI HIGH SCHOOL & ORPHANAGE

Mount Poinsur, P.O. Borivli.
SUPERIOR.—REV. Brother Leonard.
Principal.—Rev. Brother Amandus.

ST. JOHN AMBULANCE ASSOCIATION

BOMBAY STATE CENTER

President.—The Governor of Bombay.
Chairman.—Commandant-General M. J. B. Maneckji.
Hon. Secretary.—Capt. N. J. Vazifdar, M.B.E., L.M. & S., F.C.P.S., F.C.S. (Lond.).
Secretary.—M. K. Saklatvala.
Office Address.—141, Mint Road, Bombay 1.

ST. JOHN AMBULANCE BRIGADE (INDIA)

No. 3 District, Bombay.

District Headquarters.—Red Cross and St. John Ambulance Building, Town Hall Compound, Fort, Bombay.
Commissioner.—Commandant-General M. J. B. Maneckji.
District Surgeon.—Capt. F. N. Kapadia, M.D.; *District Superintendent.*—Capt. Khan Bahadur N. J. Vazifdar, M.B.E., L.M. & S., F.C.P.S., F.C.S.; *District Superintendent, Nursing Division.*—Mrs. Khorshed N. Kalyanivala.

ST. JOHN AMBULANCE BRIGADE (INDIA)

COSMOPOLITAN DIVISION

Divisional Headquarters—Sir Byramji School, opposite Charni Road Station, Bombay. *President:* Lt.-Col. J. D. Kothawala, C.St.J., J.P., A.I.R.O. (Retd.); *Divisional Superintendent:* S. P. Rane, S.B.St.J., S.T.C., C/o St. John Ambulance, H. Q., Town Hall, Bombay 1.

ST. JOHN AMBULANCE BRIGADE (INDIA)

PARSI DIVISION

Lady Willingdon Building,
1, Mahatma Gandhi Road, Fort, Bombay.
Divisional Supdt.—T. P. Panthakey.

ST. JOHN AMBULANCE BRIGADE OVERSEAS

MUSLIM AMBULANCE DIVISION

152-154, Kambekar Street, Bombay 3. Phone No. 70145.
Divisional Surgeon.—Dr. G. R. Shaikh, D.Sc., M.B.B.S.
Divisional Superintendent.—Khan Saheb M. I. Baig, Mastanshah Bungh, Dimtimker Road, Bombay 8.
AMBULANCE OFFICER.—Shareef Abdul Hameed, Parkar Chambers, Khandia Street, Bombay 8.

ST. JOHN AMBULANCE BRIGADE OVERSEAS

MUSLIM NURSING DIVISION

152-154, Kambekar Street, Bombay 3. Phone No. 70145.
Divisional Surgeon.—Dr. H. Y. Khwaja, M.B., L.R.C.P., F.R.C.S. (Eng.), D.L.O. (Lond.).
Lady Divisional Superintendent.—Mrs. Khadija Shuffi Tyabji, J.P.
Lady Ambulance Officer & Lady Divisional Secretary.—Mrs. Sultana Fazlehussain.

ST. JOSEPH'S HOME AND NURSERY

Reynold's Road, Byculla, Bombay 8.

ST. PETER'S SCHOOLS AND HOSTEL

Managaon, Bombay 10.

STRI ZARTHOSTI MANDAL

Hughes Road, Bombay 7.
Nature of Body : Work classes.

President.—Lady Ratan Tata; *Hon. Gen. Secretary.*—Mrs Dinbai F. S. Patuck; *Hon. Treasurer.*—Mrs. Shirin S. Talati.

SWASTIK LEAGUE

Seth Varjivandas Motilal Swastik Mandir, Vithalbhai Patel Road, Bombay 4.
Ambulance Service Tel. No. 70232.

President.—Mr. Justice P. B. Gajendragadkar, M.A., LL.B.
Vice-Presidents.—Mr. Justice B. N. Gokhale, M.A., LL.B.; Seth V. M. Saraiya, B.A.; Dr. K. S. Mhaskar, M.A., M.D., D.P.H.; Prof. V. G. Rao, B.A., Bar-at-Law, O.A., J.P.; D. J. Nanavaty, B.A., LL.B. (Advocate) and Dr. A. J. Kohiyar, B.A., M.D. (Lond.).
Chairman.—M. V. Jayakar, B.A., LL.B., Solicitor.
Jt. Honorary Secretaries.—M. W. Pradhan, B.Sc., LL.B.; S. G. Rane, B.A., LL.B., Advocate.
Jt. Honorary Treasurers.—Dr. V. P. Kamat, M.B.B.S.; G. D. Lovalekar.

TAHERI SCHOLARSHIP SOCIETY

Mohamedi Baug, 21, Sarang Street, Bombay 3.

The Society is being run by contributions from His Holiness Syedna Dr. Taher Saifuddin Saheb and members of the Dawoodi Bohra community for awarding scholarships and for promoting the educational interests of the Dawoodi Bohra students. As part of its activities, the Society holds an annual Elocution Competition and Essay Competition among Dawoodi Bohra Students studying in Schools and Colleges.

Hon. Secretaries.—E. A. Dalal, B.A., LL.B. and S. H. Fatehi.

THE RT. HON'BLE H. H. THE AGAKHAN'S SHIA IMAMI ISMAILIA COUNCIL

Khoja Jamatkhana, Khadak, Bombay 9.
Social reforms institution.

UTTAR BHARTIYA MAZDOOR SANGH

Amba Bhavan, Bholwada, Parel, Bombay 12.

VACHA (Dr. B. E. AND R. B.) EDUCATION FUND

14-K, Hamam Street, Fort.

VANI VIHAR SANSKRIT MAHA VIDYALAYA

(Chokri Bhavan, Bhimani Street, Matunga.)
Instruction is free. Also weekly Bhagavat Gita discourses.
Founder Principal, M. R. Gopalacharya, M.A.
Honorary Secretaries, H. S. K. Rao; S. P. Rao.

VANITA VISHRAM

Sardar Vallabhbhai Patel Road.

The institution aims at ameliorating the condition of women in Bombay State and other places and also elevating their social status. It conducts Primary Teachers' Training Colleges, Primary Schools and Ashrams at Bombay and Surat and a High School at Bombay. About 1,900 students take their education in the institutions without distinction of caste, creed or religion. There are also 2[illegible] boarders.

Hon. Secretary.—Mrs. Kanta Khandwala, B.A.

VICENTA MARIA SOCIAL SERVICE SOCIETY

This Society, conducted by the Daughters of Mary Immaculate comprises the following:

Fort Branch.—Villa Vicenta, Convent Street, Bombay 1.

1. Home and Orphanage for destitute children and child servants; 2. Recreation and Social Centre for Young Women and Girl domestic servants; 3. Holy Name Dispensary and Health Centre (free Dispensary for the poor—both sexes); 4. Hostel for Young Women.

Byculla Branch.—Convent of Mary Immaculate, Love Lane, Bombay 27.

1. Home for destitute children and child servants; 2. Recreation and Social Centre for young domestic servants (female); 3. Hostel for Young lady students and business women.

VICTORIA MEMORIAL SCHOOL FOR THE BLIND

Tardeo Road, Bombay.

Chairman.—Mr. Justice M. C. Chagla, Chief Justice.

Vice-Chairman.—Lady Jamshedji Duggan; M. D. Bhat.

Hon. Secretary.—J. R. Shroff, B.A. *Principal.*—K. N. K. Jussawala, B.A., B.T., U.N.O. Fellow. *Matron.*—Mrs. T. C. Ranikhetwala.

FORT OFFICE—Sir Vithaldas Chambers, Apollo Street, Fort, Bombay.

VILLA THERESA HOSTEL & SCHOOL

66, Pedder Road, Cumballa Hill.

WORKER'S EDUCATIONAL SERVICE LEAGUE

Municipal Central Urdu School Bldg., Mustanshah Tank Road, New Nagpada, Bombay 8.

WORLI GOPCHAR AND BHOYE SAMSTHAN

Worli, Bombay 18.

Managing Trustees.—B. H. Mantri, Y. W. Mantri, G. K. Worlikar, J. A. Mantri and A. M. Raote.

YOUNG MEN'S CHRISTIAN ASSOCIATION

12, Wodehouse Road, Bombay 1.

YOUNG MEN'S FREE NIGHT HIGH SCHOOL

179, Bazargate Street, Fort; 200, Bora Bazar Street, Fort.

Officer-in-Charge, C. T. Salian, L.S.G.D.

Head Master, S. Venkataraman, B.A., L.T.

CHAMBERS OF COMMERCE IN GREATER BOMBAY

AFRICA AND OVERSEAS EXPORTERS' CHAMBER

31, People's Building, Pherozshah Mehta Road, Bombay 1.

(Established 1936). Phone No. 261055.

Number of members : 167.

Activities : Exports of cotton piece-goods and cotton yarn and other commodities to any part of the world. Telegraphic Address : "AFRISHIP."

President :—Babubhai C. Shroff.

Vice-President :—Suryakant C. Vakil.

Hon. Secretaries :—S. C. Vakil, N. R. Shah.

Hon. Treasurer :—K. K. Sheth.

Office Secretary :—M. V. Rupani.

BOMBAY CHAMBER OF COMMERCE & INDUSTRY

Mackinnon Mackenzie's Bldg., Ballard Estate, Bombay 1.

All firms or persons engaged or interested in merchantile or industrial pursuits are eligible for election as Ordinary Members or Associate Members in their conventional or corporate name. The Chamber member's annual subscription is Ordinary Rs 720, Associate Rs. 540. An Ordinary Member on election pays an entrance fee of Rs. 1,000 and an Associate Member Rs. 100.

Officials and others indirectly connected with the trade, commerce or manufactures of India, or who may have rendered distinguished service to the interests represented by the Chamber may be elected by the Committee Honorary Members of the Chamber.

GENERAL COMMITTEE :—(1958-59) H. L. Murray (*President*), L. D. Mudie (*Vice-President*) ; C. H Campbell, N. Dandeker, G. Dodds, S. K. Handoo, E Parker, O B E , J. R Price, E D Sheppard, S. H. Turner, E. S. Vernon-Jones, N M. Wagle ; B. Barker (*Secretary*).

EAST INDIA CHAMBER OF COMMERCE LIMITED

Patwa Chawl, Sheikh Memon Street, Bombay 2. (Tel. No. 30913).

Number of members : 500. The Chamber at present deals in forward trade in guvar.

President, Shivlal Narpatlal Manlar ; *Vice-President*, Manilal Jamnadas Shah ; *Hon. Secretary*, Jayantilal Chunilal Shah ; *Jt. Hon. Secretary*, Jayantilal Nanchand Shah ; *Treasurers*, Narandas Navalchand Doshi and Jivanlal Amulakh ; *Manager*, Ambalal Kalidas Dave.

INDIAN MERCHANTS' CHAMBER

Lalji Naranji Memorial, Indian Merchants' Chamber Building, 76, Veer Nariman Road, Churchgate, Bombay 1.

The Chamber has a membership of over 2,000. About 122 Commercial and Trade Associations representing various trades such as rice, grain and seeds, iron, match, bullion, indigenous banking, insurance, cotton, etc., in the city and State of Bombay are affiliated to the Chamber.

The Chamber is directly represented on several public bodies.

President :—Gopaldas P. Kapadia.

Vice-President :—Lalchand Hirachand.

Members of the Committee.—K. M. D. Thackersey, Dr. R. C. Cooper, Pallonji Shapoorji Mistry, Madanmohan R Ruia, Dhirajlal Maganlal, Prof. M. P. Gandhi, Tanubhai D. Desai, Chandrakant S. Desai, Someshchandra M. Nanavaty, Dhirajlal C. Modi, Brijratan S Mohatta, Soonderdas Morarji, Babubhai M. Chinai, Murarji J. Vaidya, Ratanji Mulji, Bhogilal C. Shah, Pratap Bhogilal, Pratapsinh S. Vallabhdas ; Gordhandas Bhagwandas, Babulal Bubna, Sankalchand G. Shah, Dahyabhai V. Patel, Lt.-Col. J. D. Kothawala, D. M. Desai.

Co-opted (5 *Individuals*).— Naval H. Tata ; M. A. Master ; Chunilal B. Mehta ; Ramnath A. Podar ; Dharamsey M. Khatau.

Ex-Officio :

Trustees.—Gordhandas G. Morarji ; Chatrabhuj Gordhandas : Bhawanji A. Khimji ; Ratilal M. Gandhi ; R. G. Saraiya.

Bombay Port Trust :—B. D. Somani ; Devji Rattansey ; Ambalal Kilachand ; Gordhandas Jadavji ; Mathradas Haridas ; C. H. Bhabha ; Ramdas Kilachand (*Indian Central Cotton Committee*) ; Pravinchandra V. Gandhi (*Western Rly. Zonal Rly. Users' Consultative Committee*) ; Babulal Bubna (*Central Rly. Zonal Rly. Users' Consultative Committee*).

Secretary.—A. C. Ramalingam.

Deputy Secretary.—C. L. Gheevala.

Jr. Asstt. Secretaries.—M. K. Desai, D. S. Pendurkar.

Journal of the Indian Merchants' Chamber.

(Anglo-Gujarati Monthly) : Established in 1907.

Editor : A. C. Ramalingam. Published by P. M. Pathak for the Indian Merchants' Chamber, 76, Veer Nariman Road, Churchgate, Fort, Bombay 1. Official organ of the Indian Merchants' Chamber.

INDO-GERMAN CHAMBER OF COMMERCE

P.O. Box No. 1689,

Vulcan Insurance Bldg , Veer Nariman Road, Bombay 1.

The Chamber promotes and fosters trade and commerce of all description between the Union of India and the Federal Republic of Germany.

President :—Chinubhai Kilachand.

Vice-President :—H. L. Nebeling.

Treasurer :—V C. Setalvad.

Secretary :—Dr. K. Pracht.

MAHARASHTRA CHAMBER OF COMMERCE

12, Rampart Row, Bombay 1.

Membership of the Chamber is open to all carrying on trade, commerce and industry in the Maharashtra area in Bombay State irrespective of caste, creed or community.

The Chamber issues a monthly magazine *Vaibhav* and distributes it free of cost to its members.

Membership : Chamber has over 600 members spread over throughout the territory it serves.

Number of Joint Stock Companies : over 115.

Number of Commercial Associations : over 20 (having amongst them more than 1,000 members).

Office-Bearers :

President.—B. D. Garware.

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CHURCHES IN GREATER BOMBAY

ALL-INDIA FEDERATION OF NATIONAL CHURCHES

St. Paul's Indian National Hindustani Church, Bellasis Road, Byculla, Bombay-8.

It is a Christian Fellowship of National and Independent Churches of various Denominations which function under the management of either of their own congregations or properly elected Local Panchayats, quite independent of any outside control.

The Federation was founded in 1952. There are a number of Bishops, Ministers, Churches and Christian Groups affiliated to the Federation.

His Excellency the Most Reverend Dr K. C. Pillai, D.D., Archbishop and Metropolitan of India in the Indian (National) Orthodox Church is also the Bishop recognised for all the Apostolic and Episcopal Churches within the Federation.

The Very Rev. Father Dr. J. S. Williams, M.A., D.D., C.T., M.R.S.T. (England), *Secretary-General & Ag. President.*

ST. PAUL'S INDIAN NATIONAL HINDUSTANI CHURCH

Bellasis Road, Byculla, Bombay 8.

It is an autonomous Hindustani Church under a purely indigenous and nationalist leadership, and a cultural and educational centre for Hindi, Urdu and Hindustani-speaking people in the State of Bombay. It is affiliated to the All-India Federation of National Churches, is chartered by the Ecumenical League for Christian unity, is in fellowship with the World Fellowship of Faiths and *Registered under Government of India Act, XXI of 1860*

9-30 A.M. Sunday Divine Service in National Language

7-15 P.M. Thursday Open-Air Public Meeting

6-00 P.M. Monday, Tuesday, Wednesday, Free Hindi Classes for all Communities

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BAPTIST CHURCH

Opp. Colaba Post Office, Colaba.

The church has been on the present site since 1911 when it was moved from Byculla.

MINISTER.—Reverend J. A. Johnson. TREASURER.—W. J. Baker. Sunday School at 9-30 a.m. Church Services at 10-30 a.m. and 6-30 p.m.

Hindustani Service 5-15 p.m.

Telugu Service 8-15 a.m. each Sunday.

CHRISTIAN SCIENCE SOCIETY

31, Murzban Road, Bombay 1.

This society is a branch of The Mother Church, The First Church of Christ, Scientist in Boston, U.S.A. and holds services every Sunday at 10-30 a.m. and 6 p.m. Sunday School for pupils and visitors up to the age of 20 years convenes at 10-30 a.m. Testimony Meetings are held every Wednesday at 6-30 p.m. A Reading Room is maintained at the same address, where the Bible, the Christian Science Textbook, "Science and Health with Key to the Scriptures" by Mary Baker Eddy and other authorized Christian Science literature may be read, borrowed or purchased. Reading Room open daily.

CHURCH OF INDIA, PAKISTAN, BURMA AND CEYLON

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Malabar Hill, Bombay 6.

SERVICES:—Sundays, 8 A.M. Holy Communion 10 A.M. Family Service and Sunday School.

CHAPLAIN:—The Rev. Canon Arnold Bolton.

CHRIST CHURCH

Clare Road, Byculla, Bombay.

SUNDAY SERVICES.—7 a.m. Holy Communion (Said), 8-30 a.m. Holy Communion (Sung, with Sermon), 5 p.m. Sunday School, 6-30 p.m. Evensong and Sermon.

WEEKDAY SERVICE—Holy Communion daily 7-30 a.m.

MATINS—Daily half an hour before Holy Communion.

CLERGY.—The Rev. C. W. Venkataramiah (*Chaplain*); The Rev. N. Whittam, (*Asstt. Chaplain*); The Rev. K. F. MacGowan (*Hon. Deacon*).

CHURCH OF SAINT JOHN THE EVANGELIST

Colaba.

SERVICES: Sundays, Holy Communion, 7 a.m. and 8-15 a.m. Morning Prayer, 7-45 a.m. Evensong and Sermon, 6-30 p.m. Children's service 11 a.m. and 5 p.m. Mondays to Saturdays, Holy Communion, 7-30 a.m. Adults' Bible Class, Wednesdays, 7 p.m.

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Marathi Service —Sundays 10 a.m.

Gujarati Service —Sundays 3-30 p.m.

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There are in the parish over 500 persons. It is a very scattered parish.

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The Scots Kirk Office at 11, Waudby Road, Bombay 1, is open daily.

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Bombay.

The Methodist Church has been established in the City since 1887, and has the following centre:

Wesley Church, The Causeway (opp. Electric House). This Church is in charge of the Rev. P. P. B. Phillpson, Wesley House, 62, Causeway, Fort, Bombay 1. Services on Sundays at 10 a.m. and 6-30 p.m.

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CHURCHES:

Bowen Memorial Church: Landsdowne Road, Fort, Bombay 1. D. Hine Butler.

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Robinson Memorial Church: 13, Sankli Street, Byculla, Bombay 8. Kanarese Central Church: Rev. Charles Salins; Marathi Church Rev. Joshua David, G.Th.

Centenary Church Grant Road, Bombay 7; Gujarati Central Church: Rev. A. G. Bhatt, M.A., M.D., M.Th.; Malayalam Central Church: Rev. M. J. Poyyayil, B.A.; Hindustani Central Church: Rev. B. B. Misra, G.Th.

Rahator Memorial Church: Elphinstone Road, Parel. Bombay 12. Marathi Church: Rev. D. D. Chandekar, G.Th., B.D.: Telegu Church: Rev. K. Manikyam; Tamil Church: Rev. J. N. Harris, B.A.; Gujarati Church: Rev. S. Trivedi.

Worli Union Church: Behind Podar Hospital, Worli, Bombay 18. Kanarese Church: Rev. Darious Mallappa.

Kurla Methodist Church: New Mill Road, Kurla; Marathi Church: Rev. J. David, G.Th.; Hindustani Church: Rev. B. B. Misra, G.Th.; Telugu Church: D. S. P. Rao.

Circuits:

Kanarese-Telugu: Rev. Darious Maalippa.

The Women's Division of Christian Service connected with the Methodist Church has its headquarters at 22, Club Back Road, Byculla, with a hostel for women and Kindergarten work. This institution is managed by Miss C. Kleiner. A centre in Rebeich Street, Agripada, has a nursery for children and a sewing class for women, managed by Miss Ivy Childs. Miss S. Trikamlal is in charge of the hostel for women.

The W.S.C.S. of the Kanarese Central Church run a Kindergarten School at 22, Club Back Road, Byculla, which is indigenous.

Other Ministerial Workers.—Rev. V. R. Jonah; Rev. V. D. Deolaliker; Rev. A. C. F. King.

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The Parish runs the Sant Thoma Charitable Dispensary.

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Vicar of Parish.—Rev. Fr. K. G. Thomas.

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St. Paul's Church, Matunga Labour Camp: Rev. M. L. Sathe (Worli Church Residence, off Annie Besant Rd., Worli).

The Ambroli Church: Rev. S. J. Tivade (Dr. Wilson Street, Girgaum).

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Girgaum, Bombay.

The Ambroli Church, formerly supported by the United Free Church of Scotland Mission, was founded by the Rev. John Wilson, D.D. the renowned missionary.

It stands on Vithalbhai Patel Road halfway between C. P. Tank and Prarthana Samaj.

Sunday Service (Marathi) .. .. .. 5 P.M.

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President :—Com. C. B. Sethna (Retd. I.N.) ; *Vice-President :*—Rutton P. Shroff ; *Hon. Treasurer :*—A. M. R. Nasir ; *Hon. Secretary :*—K. F. Golwalla.

BOMBAY STATE ASSOCIATION OF PHYSICAL EDUCATION AND RECREATION

No. 10, B.D.D. Chawl, DeLisle Road, Post Jacob Circle, Bombay 11.

OFFICE-BEARERS : *President.*—Dr. K. S. Bhaskar, M.A., M.D., B.Sc., D.P.H. ; *Vice-President.*—G. V. Puranik, B.A. ; *Hon. Gen. Secretary.*—Vasant P. Borkar ; *Hon. Treasurer.*—Dr. M. N. Natu.

BOMBAY STATE BHARAT SCOUTS & GUIDES

Hamam House, Hamam Street, Bombay 1.

President : Mangaldas Pakvasa ; *State Chief Commissioner :* Lt.-Col. K. T. Mangalmurti ; *State Commissioner (Scouts) :* Sardar Lakshman Singh ; *State Commissioner (Guides) :* Smt. Nirmala Raje Bhosle ; *Honorary State Treasurer :* V. L. Arya ; *Honorary State Secretary :* Padam S. Pavri.

BOMBAY STATE BILLIARDS ASSOCIATION

C/o Islam Gymkhana, Kennedy Sea Face, Bombay 2.

CHIEF OFFICE-BEARERS :—*President :* A. A. Jasdenvala ; *Vice-President :* R. K. Vissanji ; *Jt. Hon. Secretaries :* N. K. Vissanji and B. K. Adenwalla ; *Hon. Treasurer :* Bhogilal C. Shah.

BOMBAY STATE CHESS ASSOCIATION

C/o Parisian Restaurant, Bruce Street, Bombay 1.

Chairman : Rev. Fr. M. M. Balaguer.
Hon. Secretary : D. P. Ratnagar.
Hon. Treasurer : V. K. Raman Menon.

BOMBAY STATE CO-OPERATIVE UNION

C/o 9, Bakehouse Lane, Bombay 1.

President : V. L. Mehta.

BOMBAY STATE COUNCIL FOR SPORTS

C/o Principal, Institute of Physical Education, Kandivli.

BOMBAY STATE DENTAL COUNCIL

Swadeshi Mills Estate, Near Roxy Cinema, Tata Road, New Queen's Road, Bombay 4.

The Council is a statutory body constituted under the Dentists Act, 1948.

The Council maintains the Dentists Register for the State and administers the Code of Dental Ethics.

President.—Dr. H. P. Moolgavkar, L.D.S.R.C.S. (Eng.), F.D.S.R.C.S. (Eng.) ; *Vice-President.*—Dr. H. D. Merchant, D.M.D. (U. Bonn.) ; *Registrar.*—B. M. Sidhaye, B.A., LL.B., B.T.

BOMBAY STATE SHORTHAND WRITERS' ASSOCIATION

(Registered under Act XXI of 1860—Estd. 1932).

(Recognized by Government of Bombay).

No. 1, Krishna Nivas, Station Road, Matunga, Bombay 19.

President :—K. R. Ramanathan ; *Vice-President :*—K. V. Anantharaman ; *Hon. Secretary :*—R. Narayan ; *Hon. Treasurer :*—K. Chidambaram.

BOMBAY STATE WOMEN'S COUNCIL

Town Hall, Bombay 1.

Activities.—A depot for the sale of women's handicrafts at Green's Hotel. Rescue Home at Umerkhadi. Bal Mandirs at Matunga Labour Camp. Literacy and handicraft classes. Children's Holiday Library. Recreation centres for children at Municipal parks. Agitation on Beggar Problem. Child Guidance Clinic and a class for mentally retarded children at Ravelin Street, Fort. Haj—Helps pilgrims during embarkation and disembarkation. Parliamentary—Submits opinion on legislative bills and free legal advice.

Membership.—(a) 1,012 members. *Affiliated Societies :* 35. Branches : 2—Ahmedabad, Poona.

President : Mrs. Gulestan R. Billimoria, M.A., L.T.C.L. ; *Vice-President :* Mrs. Sushila D. Joshi, B.A. ; *Hon. Treasurer :* Mrs. Padmavati R. Sarsiya ; *Executive Secretary :* Mrs. Dolly P. F. Masani, B.A.

BOMBAY STEVEDORES' ASSOCIATION LTD.

Janmabhoomi Chambers, Opp. Alexandra Dock, Fort Street, Bombay 1.

President : K. A. Dubash ; *Vice-President :* D. A. Dhunjibhoy.

BOMBAY TAMIL SANGAM

Sion Road, Bombay 22.

President, V. R. Subramaniam ; *Vice-Presidents,* Lakshmi Mani, and V. Vembu ; *Hon. Secys.,* K. Sundaresan, K. R. Sankaranarayanan ; *Hon. Treasurer,* N. Parthasarathy.

BOMBAY TENANTS' ASSOCIATION

17, Benham Hall Lane, Bombay 4.

OFFICE BEARERS :—*President.*—V. G. Dalvi, Bar-at-Law. *Vice-Presidents.*—Shalome Abraham and Major Sohrab R. Bamji. *Joint Hon. Secretaries.*—N. S. Giradkar, M.A., LL.B. and Mrs. Shera N. Vajifdar, M.Com. *Hon. Treasurer.*—R. B. Patel, L.S.G.C.

There are branch offices and secretaries in each ward and 42 members of the Managing Committee.

BOMBAY UNION OF JOURNALISTS

Prospect Chambers Annexe, Hornby Road, Bombay 1.

Chairman of Executive Committee :—V. S. Bapat ; *Secretary* :—D. B. Mahatme ; *Treasurer* :—M. N. Gurjar. Tel. 253486.

BOMBAY VIGILANCE ASSOCIATION

Churchgate House, 30-32, Vir Nariman Street, Bombay 1.

The objects of the Association are (1) to secure recognition of the principle that the moral law is the same for both men and women ; (2) to suppress and prevent the traffic in women and girls and the outrage, corruption, abduction and prostitution of persons under eighteen ; (3) to do rescue and vigilance work in general ; (4) to see that the provisions of the Indian Penal Code and of the Prevention of Prostitution Act of 1923, are efficiently carried out ; (5) to prevent the publication and sale of indecent and obscene pictures, books and papers, and of objectionable advertisements, cinema films and theatrical performances ; and (6) to carry on active propaganda work for the ultimate and complete abolition of brothels.

Shelter.—125, Dadar Main Road, Dadar.

BOMBAY WOMEN'S RELIEF COMMITTEE

1-A, Mafatlal Park, Bhulabhai Desai Road, Bombay 26.

Chairman.—Smt. Taraben M. Premchand ; *Hon. Secretary*.—Smt. Kulsum Sayani ; *Hon. Treasurer*.—Smt. Lilavati Banker.

BOMBAY WOMEN'S WORK GUILD

Readymoney House, Nepean Sea Road, Bombay 6.

Vice-Presidents : Lady Cowasji Jehangir, Mrs. M. C. Chagla ; *Jt. Secretaries* : Miss S. Dallas, Miss Arny F. Khan.

BOMBAY ZIONIST ASSOCIATION

(Central Organisation in India)

63-67, Meadows Street, Fort, Bombay, P.O. Box 539.

The aims and objects of the Association are to educate public opinion regarding Zionist activities throughout the world ; to foster Zionist ideals among Jews in India and to promote the interests of the Jewish National Home in Israel.

EXECUTIVE COMMITTEE :—*President*.—J. S. Ezra ; *Vice-President*.—E. S. Somekh ; *Chairman*.—H. Cynowics ; *Secretary*.—John B. Hyams ; *Treasurer*.—B. R. Daniel Kelly.

BRAHMAN SAHAYYAK SANGH

Ganesh Wadi, D. L. Vaidya Road, Dadar, Bombay No. 28.

President.—S. P. Athavale ; *Secretary*.—S. K. Upadhye ; *Treasurer*.—B. V. Apte.

CALEDONIAN SOCIETY OF BOMBAY

The object of the Society is to promote and foster matters of Scottish national interest and more particularly to provide for the due observance of the anniversary of St. Andrew and generally to promote fellowship among Scots. The Society may so far as its funds admit and so far as is deemed advisable by its Committee, render aid in cases of real and urgent distress among Scots and make donations to Scottish charities, institutions and objects.

OFFICE BEARERS.—*President* : R. J. R. Davidson, Andrew Yule & Co. Ltd., Bombay ; *Vice-President* : P. D. C. R. Clark, Killick Industries Ltd., Bombay ; *Vice-President* : L. D. Mudie, Burmah-Shell, Bombay ; *Hon. Treasurer* : J. M. C. Alston, The Chartered Bank, Bombay ; *Hon. Secretary* : D. Spink, National Overseas & Grindlays Bank Ltd., P.O. Box 93, Bombay.

CENTRAL RAILWAY INSTITUTE
Byculla, Bombay.

This Institute caters for tennis, billiards, monthly socials, dances, and whist drives, which are held every Saturday, open to all, includes prizes, especially on first Saturday of every month, being a Bumper Day.

CERCLE LITTERAIRE BIBLIOTHEQUE DINSHAW PETIT—1886

60, Forbes Street, Bombay 1.

Object :—To promote the study of French language, literature and civilization.

Patrons :—Sir Dinshaw Manockjee Petit, 3rd Bart. ; *President* :—Rev. Fr. J. Dubr, S.J. ; *Hon. Treasurer* :—D. P. Mateak ; *Hon. Secretary* :—P. J. Bahadurji.

CHAMBER OF INCOME TAX CONSULTANTS

Sun Beam Chambers, Opp. Liberty Cinema, Marine Lines, Bombay.

President : D. C. Shah ; *Vice-President* : G. N. Desai ; *Hon. Secretary* : V. G. Mehta.

CHEMBUR MITRA MANDAL

C-77, Deolwadi, Station Avenue Road, Chembur, Bombay 38.

President.—Vasantrao Khanolakar, B.A. (Hons.) ; *Secretary*.—Purushottam Krishnarao Raje, B.A. (Hons.) ; *Treasurer*.—Narahar K. Joshi.

COLLEGE OF PHYSICIANS AND SURGEONS OF BOMBAY

Hospital Avenue, Parel, Bombay.

The College is at present an examining body only but, by encouraging the formation of good teaching schools and by means of its professional museums and library, it is eventually intended to become the centre of medical education in the State. The College consists of a President, a Council and an unlimited number of Fellows and Members and grants M.C.P.S., F.C.P.S., and post-graduate Diplomas in several subjects.

PRESIDENT.—Shantilal Chhaganlal Sheth, M.D., B.S. (Bom.), M.R.C.P. (Lond.), D.C.H. (Eng.), F.C.P.S.

SECRETARY.—Darabsha Kharshedji Bharucha.

COMMERCE GRADUATES' ASSOCIATION

Wadia Building, Dalal Street, Bombay 1.

President.—Bhabubhai M. Chinai, J.P., M.L.C. ; *Chairman*.—Dr. Rustom C. Cooper, M.Com., Ph.D. (Econ.), F.S.A.A., F.C.A.

Jt. Hon. Secretaries.—K. U. Barodia, M.com. ; Shafi N. Thanawalla, B.com. ; *Hon. Treasurer* : K. B. Thanawala, B.com.

COMMUNIST PARTY OF INDIA

Bombay Committee : Dalvi Bldg., Parel, Bombay 12.

Secretary : P. P. Sansgiri.

DAVID SASSOON LIBRARY AND READING ROOM

152, Mahatma Gandhi Road, Bombay 1.

Life membership is Rs. 300 and Ordinary membership Rs. 8 per quarter.

President.—Oscar H. Brown, C.I.E., O.B.E., Bar-at-Law.

Vice-President.—A. S. Bakre, M.A. (Cantab), Bar-at-Law, J.P.

Hon. Secretary.—R. C. Shroff, B.A., LL.B.

Hon. Treasurer.—V. N. Rao, A.C.A.

DEMOGRAPHIC TRAINING & RESEARCH CENTRE

Tata Institute of Social Sciences, Chembur, Bombay 38.

The Government of India, in association with Sir Dorabji Tata Trust and the United Nations, have established a Demographic Training and Research Centre at Bombay. It is intended to serve not only India but also other Asian countries.

Indian and foreign students are undergoing training at the Centre, which is also developing research programmes in the field of population. It is now located at the Tata Institute of Social Sciences, Chembur.

The Demographic Centre is an autonomous institution with a Governing Body for its management.

Chairman.—Dr. John Matthai ; *Co-ordinating Officer*.—Dr. K. C. K. R. Raja.

DEPRESSED CLASSES MISSION SOCIETY OF INDIA

112, Medows Street, Fort, Bombay.

Literary and Social.

President.—M. R. Jayakar, Bar-at-Law ; *Chairman*.—M. B. Maniar Bar-at-Law ; *Hon. Gen Secretary*.—N. S. Kajrolkar.

DEPRESSED INDIA ASSOCIATION

Rascol Building, Clarke Road, P.O. Jacob Circle, Bombay 11.

President & Chairman.—R. S. Nekmjay ; *Hon. Secretary*.—D. G. Waghmare.

DEVADIGA SUDHARAKA SANGHA

106, Bora Bazar Street, Bombay 1.

President—B. K. Shriyan; *Jt. Hon. Secretaries.*—B. K. Salian, S. M. Salian.

DIABETIC ASSOCIATION OF INDIA

Maneckji Wadia Bldg., 1st Floor, Mahatma Gandhi Road, Bombay 1.

Objects: To study diabetes and allied subjects and also spread knowledge about diabetes and help diabetics in India in general. Conducts survey of diabetes by celebrating a diabetic detection drive every year and also arranges lectures and symposia on diabetes.

President—Dr. R. V. Sathe, M D, M.R.C P. (Lond).

Vice-President.—Pranjeevan Madhavji, Solicitor.

Chairman.—Dr. J. N. Karande, M D., F.C P S.

Hony. Jt Secretaries—Dr. S. S. Ajgaonkar, D.O.D L O. (Vienna), L M (Dublin); Dr. T. P. Vyas, M B.B S.

Treasurer.—Y. S. Prabhu.

EAST BOMBAY BHARAT SCOUTS & GUIDES LOCAL ASSOCIATION

Headquarters.—Sir Chunilal Mehta Scout and Guide Hut [Mahatma Gandhi Road], Bombay.

President—Sir Hormasdyar Phiroze Hoshang Dastur, Kt., Bar-at-Law.

Chairman.—Lt.-Col. J. D. Kothawala.

Vice-Chairman.—Dr. (Mrs) Tehmi B. Mehta.

Dist. Commissioner (Scouts).—J. F. Shroff.

Dist Commissioner (Guides).—Miss Freny S. Baria.

Hon. Secretary.—Padam S. Pavri.

Jt Hon. Secretary for Guides.—Miss Freni N. Taraporewala.

Hon. Treasurer.—F. R. Titina

Hon. Auditor.—Dara Sorabji.

EMPIRE OF INDIA PHILATELIC SOCIETY

C/o Dr. M. U. Mascarenhas, Victoria Garden Road, Bombay 27.

EMPLOYERS' FEDERATION OF INDIA

Bombay House, Bruce Street, Bombay 1.

Objects.—To promote and protect the interests of employers engaged in the trade, commerce, industries and manufactures of India; to consider and support well-considered schemes for the welfare and uplift of Labour and establish harmonious relations between Capital and Labour; and to carry on propaganda for the purpose of educating public opinion with regard to the character, scope, importance and needs of industrial enterprise as represented by the Federation.

President.—Sir Homi Mody, K.B.E.

Deputy Presidents.—Sir Vithal Chandavarkar, Sir Allan Elliott Lokhart and W. H. J. Christie.

Secretary.—T. S. Swaminathan.

ENGINEERING ASSOCIATION OF INDIA

Bombay Region.

The All-India body has its office at Calcutta, India Exchange, 8th Floor, Calcutta, 1, while the Regional body has its office in Bombay, at Roseourne Stadium, 87, Veer Nariman Road, Bombay 1.

The Chairman of the Regional body is B. P. Kapadia and the Secretary M. de Melo.

ESIS MEDICAL SPECIALISTS' ASSOCIATION (EMSA)

Churchgate New Clinic, Vir Nariman Road, Bombay 1.

EX-SERVICES ASSOCIATION, INDIA

BOMBAY BRANCH.—T/18, Barracks, Near Hospital Asvini, Colaba, Bombay 5.

Chairman.—Brig. F. H. B. Ingall, D.S.O., O.B.E.

Vice-Chairman.—B. J. O'Shaughnessy.

Hon. Treasurer.—R. R. M. Mayne.

Secretary.—Major A. H. Gryllo.

FILM FEDERATION OF INDIA

96, Walkeshwar Road, Bombay 6

President—M B Billimoria

Vice-Presidents. J B H. Wadia, A Bose

Hon. Treasurer. B D Bharucha

THE FILM JOURNALISTS' ASSOCIATION

70, Trinity Street, Bombay 2.

(Established 2nd June 1955)

Objects—Brings together in one organisation all the journalists who are attached to the Daily papers and other periodicals either as Film Editors or Screen Representatives or Film Critics or Press Photographers or Cartoonists irrespective of language or languages, strives to maintain high standards of professional conduct and raise the level of film journalism and gives annually awards for the best efforts in different categories of film making

President Burjor Pavri, *Vice-President* Ajit Merchant; *Secretary:* Shantaram Khale, *Treasurer.* M. B Tamhankar

FIRE SALVAGE ASSOCIATION OF BOMBAY, LTD.

Jacob Sassoon Building, 6, Rampart Row, Bombay 1.

Secretaries, Insurance Association of India, Bombay Regional Council

Secretary—Vaman H Thakor, B A, LL B, Advocate (O.S).

Objects.—To provide an organised salvage corps of trained men, who will always be ready to attend at fires, take charge of salvage and handle salvage, if necessary.

Station.—Sewree Cotton Depot *Superintendent.*—S. M. Saleh; *Station Officers*—M A. Telang, C. L Job.

FRIENDS OF BURMA SOCIETY

17, Horniman Circle, Bombay 1.

FRIENDS OF THE MENTALLY ILL

C o Tata Institute of Social Sciences, Chembur, Bombay 88.

GIRGAUM NAGARIK SEVA MANDAL

Servants of India Society's Home, Sardar Vallabhbhai Patel Road, Bombay 4.

To guard and improve civic amenities of the Girgaum locality. To promote friendly feelings, goodwill, co-operation, brotherhood and general advancement among the residents of the Girgaum locality.

President—V. B Thite; *Vice-President*—A. L. Sohoni; *Jt. Secretaries.*—A. B Dalvi, Madhav Kirtikar; *Treasurer*—Padmakar Nagpurkar.

GOAN UNION

75, Princess Street (West), Bombay.

A representative Association of the Goans.

The Goan Union Educational Trust of the Union owns and conducts the Little Flower of Jesus High School founded in 1924 by late Rev. Fr. Herculano Gonsalves.

GOMANT BHARATI

J. K. Building No. 4/20, Gamdevi, Bombay No. 7.

President.—Acharya Kakasaheb Kalelkar, *Chairman.*—Vasant P. Borkar; *Hon. Treasurer.*—Kumari Sarojini Nanavati.

GOODWILL CO-OPERATIVE HOUSING SOCIETY LTD.

83, Rafi Ahmed Kidwai Rasta, Wadala, Bombay 31.

President: E. S. Iyer; *Chairman:* P. R. Krishnan; *Vice-Chairman:* P. V. Gadgil; *Hony. Secretary:* K. C. Nilakantan.

GRAND CHAPTER OF UNITED SCOTTISH ROYAL ARCH FREEMASONRY OF INDIA & PAKISTAN

17, Murzban Road, Fort, Bombay.

Grand Scribe: K. J. Mody.

GRAND LODGE OF UNITED SCOTTISH FREEMASONRY IN INDIA AND CEYLON

17, Mursban Road, Fort, Bombay.

Grand Secretary.—K. J. Mody; *Asst. Grand Secretary.*—F. D. Dhondy.

GUJARAT RESEARCH SOCIETY

46-48, Esplanade Mansion, Mahatma Gandhi Road, Bombay 1.

The objects of the Society are:—To promote, organise and co-ordinate research in all branches of knowledge with special reference to Gujarat, Saurashtra and Kutch. It is interested in surveys of health and economic conditions of the Gujarati families. It has undertaken a survey of the tribes of Gujarat. A psychological research bureau has been initiated for standardising intelligence tests in Gujarati and using them for vocational guidance, educational guidance and child guidance and study of problems of abnormal behaviour.

PRESIDENT.—P. G. Shah; VICE-PRESIDENTS.—Sir H. V. Divatia; Sir M. B. Nanavati; K. M. Munshi; Dr. B. B. Yodh; Prof. C. N. Vakil; R. G. Saraiya; HON. TREASURER.—Dr. A. S. Kalapesi; HON. GENERAL SECRETARY.—Dr. D. T. Lakdawala; HON. JT. SECRETARIES.—J. H. Trivedi and Dr. C. H. Shah.

GUJARATI HINDU STREE MANDAL

123, Vithalbhai Patel Road, Bombay 4.

The main activity of the Mandal is educational. It conducts home classes, an industrial home, Lady Teachers' College of Tailoring and Embroidery, the P.S.C. class, the Bala-Mandir, etc., in its premises.

The Mandal maintains the Jamnabai Sakkai Free Library, and also the Sir Jagmohandas Library for children. It issues a monthly patrika.

President.—Lady Tarabai C. Mehta; *Jt. Hon. Secretaries.*—Mrs. Rasikmani B. Desai, Mrs. Kusumgauri M. Munshi and Mrs. Tilottama S. Pathak.

HAFFKINE INSTITUTE

Parel, Bombay 12.

Haffkine Institute is the principal State medical research institute of western India. In addition, it carries out large-scale manufacture of plague, cholera, T.A.B. and anti-rabic vaccines; anti-toxins, sera and toxoids, vitamin and sulfa tablets, intravenous solutions, etc. It also undertakes drug testing and clinical pathological work. It is recognised as a Post-Graduate Institution.

Director.—H. I. Jhala, M.D., F.C.P.S., D.T.M.

HARIJAN SEVAK SANGH

Congress House, V. Patel Road, Bombay 4.

INDIA-AFGHANISTAN FRIENDSHIP SOCIETY

Patanwala Building, 62, Connaught Road, Bombay 27.

President: H. H. Ismail; *Vice-Presidents:* H. H. the Maharani of Baroda; Sardar Bahadur Bhakshi Dalip Singh; *Hon. Secretary:* F. E. Patanwala; *Hon. Treasurer:* Smt. Padma Koregaonkar.

INDIA-AMERICA SOCIETY

6, Petit Road, Cumballa Hill, Bombay 26.

President: Sir Homi Mody; *Vice-Presidents,* W. T. Turner, Sir B. Rama Rao; *Hon. Secretary:* Prof. J. C. Daruwala.

INDIA-CHINA FRIENDSHIP ASSOCIATION

Neelam Manzil, 350, Lamington Road, Bombay 7.
(Tel. No. 70800).

President.—B. K. Karanjia.

INDIA-INDONESIA SOCIETY

Anjuman-I-Islam, 92, Dadabhoy Naoroji Road, Bombay 1.

Chairman, S. F. B. Tyabji, M.P.; *Vice-Chairman,* Meenakshi Bhakhle; *Jt. Hon. Secretaries,* A. A. Shaikh, Sita Pooviah.

INDIAN ASSOCIATION OF INDUSTRIAL EDITORS

Office: Army & Navy Building (3rd Floor), Mahatma Gandhi Road, Fort, Bombay 1.

Founded in 1956 comprising the Editors and Assistant Editors of well-known Company publications published by industrial and business firms in the country.

President: Victor Paranjoti (A.C.C.); *Vice-President:* Manoj Chatterji (Stanvac); *Hon. Secretaries:* S. P. S. Talyarkhan (Voltas) and Pothen Philip (I.S.A.); *Hon. Treasurer:* S. S. Gupte (Premier Automobiles).

INDIAN CANCER SOCIETY

Tata Memorial Hospital, Parel, Bombay 12.

The aims and objects of the Society are to encourage and support scientific investigation of the cause, prevention and control of cancer; to create a public awareness of the curability of early cancer and a medical awareness of the best methods of detection, diagnosis and treatment; to encourage and aid financially and otherwise persons suffering from cancer; to combat quackery; to increase the facilities for more efficient social service to cancer victims in rural areas; to encourage research in the newer techniques of diagnosis and treatment. Thus it has initiated a cytology training scheme for medical and scientific workers throughout India, at the Tata Memorial Hospital. It has also set up Colposcopy and Chemotherapy Service Units at the same Hospital. To achieve these objects the Society depends entirely on and seeks voluntary aid from the public.

Chairman:—N. H. Tata.

Hon. Treasurer:—P. A. Narielwala.

Hon. Secretary:—Dr. D. J. Jussawalla, M.S., F.R.C.S.E., Surgeon, Tata Memorial Hospital, Parel, Bombay 12.

INDIAN CONFERENCE OF SOCIAL WORK

Central Office: 16, Govt. Hutments, 6/A, Cooperage, Bombay 1.

The Indian Conference of Social Work is a central national organization for the promotion of social welfare in India.

It is affiliated to the International Conference of Social Work.

Office-Bearers.—President: V. V. Giri; *Vice-Presidents:* Smt. Zarina E. G. Currimbhoy, Acharya Jugal Kishore, Nawab Mehdi Nawaz Jung; *Honorary Treasurer:* F. R. Surti; *Honorary General Secretary:* Smt. M. Clubwala Jadhav; *Executive Secretary:* B. Chatterjee; *Honorary Associate Secretary:* Smt. A. Wahabuddin Ahmed.

A South-East Asia Regional Office of the International Conference has been established in conjunction with the Central Office of the Indian Conference of Social Work in Bombay.

Officers of the International Conference in India:—Vice-President: Dr. Jivraj N. Mehta; *Asstt. Treasurer-General:* Smt. Gulestan R. B. Billimoria; *Asstt. Secretary-General:* B. Chatterjee; *Asstt. Secretary:* Smt. S. Dastur Patel.

INDIAN DOCUMENTARY PRODUCERS' ASSOC.

National House, Tulloch Road, Bombay 1.

President: Paul Zils; *Vice-President:* K. Subrahmaniam; *Jt. Secretaries:* G. Aggarwal, V. M. Vijayakar.

INDIAN INSTITUTE OF ARCHITECTS

Prospect Chambers Annexe, Dr. Dadabhoy Naoroji Road, Bombay 1.

President: Walter George, F.R.I.B.A., F.I.I.A.; *Vice-President,* B. D. Mhatre, O.D. Arch., F.I.I.A.; *Jt. Hon. Secretaries:* A. S. Patil, F.R.I.B.A., F.I.I.A., J.P., J. Billimoria, F.R.I.B.A., F.I.I.A.; *Hon. Treasurer:* S. P. Satsangi, A.R.I.B.A., F.I.I.A.

INDIAN INSTITUTE FOR EDUCATIONAL AND CULTURAL CO-OPERATION

22-D, Parsi Bazar Street, Bombay 1.

The Institute functions as the Bombay Association for the United Nations.

INDIAN MEDICAL ASSOCIATION (Bombay Territorial Branch)

Shri Nivas, Sardar Vallabhbhai Patel Road, Bombay 4.

President: Dr. Mangaldas J. Shah, *Vice-Presidents:* Dr. S. S. Ugrankar, Dr. B. K. Menda; *Hon. Secretary:* Dr. M. A. Panwala; *Hon. Jt. Secretaries:* Dr. Arvind M. Shah; Dr. D. S. Mungekar; *Hon. Treasurer:* Dr. J. J. Merchant.

INDIAN MEDICAL ASSOCIATION
(Bombay Branch)

Shri Nivas, Sardar Vallabhbhai Patel Road, Bombay 4.

President : Dr. Mangaldas J. Shah ; *Vice-Presidents :* Dr. S. S. Ugrankar, Dr. T. J. Lalwani ; *Jt. Hon. Secretaies :* Dr. R. K. Menda, Dr. A. D. Daftary ; *Hon. Treasurer :* Dr. V. K. Toraskar.

INDIAN NATIONAL THEATRE

Agakhan Building, 9, Dalal Street, Bombay 1.

INDIAN SOCIETY OF AGRICULTURAL ECONOMICS

46-48, Esplanade Mansions, Mahatma Gandhi Road, Fort, Bombay.

INDIAN SOCIETY OF ANAESTHETISTS

B 12/60, Dr. Kelkar's Bldg., Naigaum Road No. 2, Bombay 14.

President : Dr. B. N. Sircar, M.B B.S. (Bom.), F.R.C.S. (Eng.), D.A. ; *Gen. Secretary :* Dr. Satyendrasingh, M.R.C.S., L.R.C.P., F.F.A. R.C.S. (Eng.), D.A.

INDO-ARAB SOCIETY

12, Nagin Mahal, Veer Nariman Road, Bombay 1.

President, Mrs. Kamaladevi Chattopadhyay ; *General Secretary*, Dr. Rafiq Zakaria : *Hon. Treasurers*, A. S. Bassam, I. M. Kanga.

INDO-BULGARIAN FRIENDSHIP SOCIETY

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16, Yusuf Bldg., Veer Nariman Road, Bombay 1.

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12, Rampart Row, Bombay 1.

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Co-operative Insurance Building, 4th Floor, Sir Pherozshah Mehta Road, Bombay 1.

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1-D, Naaz Building, Lamington Road, Bombay 4.

INSTITUTE FOR LABOUR WELFARE WORKERS

Govindji Keni Road, Naigaum, Bombay 14.

Principal : V. B. Kamath, M.Sc. (Bom.), B.Sc. (Spl.), Lond., F.S.S. (Lond.).

The Institute was started in 1947 with the purpose of organising training of leaders for labour and social work. Till 1955, 9 months and 3 months Courses were conducted for the same for which students from all over India and nominees sent by the several State Governments, prominent industrial establishments and trade union organisations, besides fresh students were taken up. In July 1955 the Institute started a 2-year Diploma Course in Labour Welfare for training of Labour Welfare Officers. As before it gets the patronage of all the State Governments and employers and trade union organisations who in all send 40 graduates and post-graduate students every year.

Steps are being taken to institute a post-graduate Diploma in Labour Welfare in the University of Bombay and the Institute proposes to seek affiliation to the University.

Particulars of the members of the staff are given below. In addition, outside experts in different fields are invited to deliver lectures on various topics in the curriculum.

Lecturers.—O. P. Goel, B.A., Dip.S.P.A., S.A.P. (U.N.O.), V. G. Mhetras, M.A., LL.B., G. K. Thakker, M.com., R. D. Joshi, B.A. (Hons.) ; *Librarian.*—H. L. Thadani, B.A., Dip.Lib.

THE INSTITUTION OF ELECTRICAL ENGINEERS

(Founded in 1871), (Incorporated by Royal Charter 1921).
Electric House, Fort, Bombay (Tel. No. 219191).

Chairman, Local Committee : J. H. Smyth, B.Sc., M.I.E.E. ; *Honorary Secretary :* T. M. Shivram, M.I.E.E.

INSTITUTION OF ENGINEERS (INDIA)
BOMBAY CENTRE.

This is the local centre of the Institution of Engineers (India).

Library, Reading Room and Office :—Ilaco House, Sir Pherozeshah Mehta Road, Bombay 1.

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C/o. Hindustan Lever Ltd., Sewri, Bombay 15.

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(Estd. 1922).

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The Association, originally the Recreation Club Institute, a philanthropic and humanitarian body, founded in 1912, with the object of uplifting and elevating the poor without distinction of caste or creed.

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For culture and therapy. Fee ranges from Rs. 2 to Rs. 15 a month.

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13, 1-2, Association Building, Talmakiwadi, Tardeo Road, Bombay.

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192, Bazar Gate Street, Bombay 1.

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Nature of Body : Social.

KHORSHED MANDAL

C/o Messrs. Gagrat & Co., Alli Chambers, Medows Street, Bombay 1.

Objects :—Advancement *inter alia* of the religious, moral, educational and social well-being of Parsis professing the Zoroastrian Faith.

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OBJECTS :—To promote friendliness among writers everywhere, to uphold freedom of speech and to foster national cultural unity by spreading appreciation of the Indian literatures outside their own linguistic areas, by means of public lectures, *The Indian P. E. N.* and a series of P.E.N. books on the Indian Literatures and Writers' Conferences.

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C/o Jehanbax Bomanshaw Vatcha, Tafti Building, South Frere Bridge, Grant Road, Bombay 7.

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107, Mahatma Gandhi Road, Bombay 1.

Aims and Objects :—To protect and safeguard the political, economic and other interests and rights of the Parsi community and for that purpose to take such steps as may be necessary and expedient.

President.—Sir Cowasji Jehangir, Bart., K.C.I.E., O.B.E.

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Secretary : Peter Alvares.

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196B, Gaiwadi, Girgaum, Bombay 4.

Hon. Secretary.—M. C. Modi.

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(Phones : 253494 and 251711).

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A Parsi association founded in Bombay for the physical, mental, moral, social and religious upliftment of the Parsi community.

Hon. Secretary & Treasurer.—Jehanbax Bomanshaw Vatchha, Tafti Building, South Frere Bridge, Grant Road, Bombay 7.

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Literary and Social Institution.

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Devoted to the conservation of life and property through the maintenance of a continuous educational safety propaganda through the press, platform, the radio and the Association's monthly magazine "Efficiency News" and through publications such as Industrial Efficiency Communiques, Games Lessons, Indian Highway Codes, leaflets and posters, exhibitions and film shows.

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The Society has its headquarters in Gamdevi, Bombay, and maintains the following departments of work: (1) Home for the homeless; (2) *Ashramas* (Training homes); (3) a Marathi Training College, with a Primary School; (4) Home education classes; (5) Industrial department including a workroom: sewing, cutting, hosiery, cooking and pastry, and machine and hand embroidery are among the chief industries taught. The total number of women in the different classes is over 900.

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A Society for the promotion of economic, social and educational interests of Indians abroad, for improving travelling conditions during the voyage; and for assisting them during their sojourn in India.

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Servants of India Society's Building, Vallabhbhai Patel Road, Girgaon, Bombay 4.

Aims and Objects:—Collection and study of social facts. Promotion of the physical, moral and economic welfare of the people. Training of social workers. Cosmopolitan. *Activities:*—Two night schools, the Marathi Night School at Chinchpokli and New Nagpada Urdu Night School at Nagpada. A free library and reading room at Chinchpokli and at Madanpura. The Mafatlal Gagalbhai Textile Technical School at Parel. Industrial schools for women in 6 different centres in the city and a Social Workers' Training class. Two dispensaries, namely, Bachoobai Kanji Karsandas Charitable Allopathic Dispensary at Parel and Ayurvedic Charitable Dispensary at Parel. A gymnasium for working men at Parel. Night High School at Damodar Thackersey Hall, Parel. A Co-operative Credit Society for members. *Magazine:*—A quarterly magazine called the *Social Service Quarterly. General Secretary:* T. A. Kulkarni.

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207, Bazar Gate Street, Bombay 1.

Aims and Objects.—The pursuit of social service generally, and especially with a view to ameliorating the physical, moral and mental condition of the people, irrespective of caste or creed.

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BENGALI EDUCATION SOCIETY'S HIGH SCHOOL (Dadar, Morbag Road), Stds. V—XI.
BHARAT NIGHT HIGH SCHOOL (DeLisle Road), Stds. VIII—XI.
BHARDA NEW HIGH SCHOOL (Waudby Road, Fort), Stds. V—XI.
BHESANIA HIGH SCHOOL (Grant Road), Stds. V—XI.
BOMBAY EDUCATION LEAGUE'S HIGH SCHOOL (Thakurdwar, Bombay 2), Stds. VIII—XI.
BOMBAY EDUCATION LEAGUE'S HIGH SCHOOL (Worli), Stds. V—XI.
BOMBAY EDUCATION LEAGUE'S NIGHT HIGH SCHOOL (Worli), Stds. VIII—XI.
BOMBAY FORT FREE NIGHT HIGH SCHOOL (Holi Chakla Street, Fort), Stds. V—XI.
BOMBAY NIGHT HIGH SCHOOL (Thakurdwar, Bombay 2), Stds. VII—XI.
B.P.K. SAHAKARI VIDYA MANDIR (Tardeo), Stds. V—VII.
BRADLEY NIGHT HIGH SCHOOL (Angrewadi), Stds. VIII—X.
BRIJMOHAN LAXMINARAYAN RUIYA HIGH SCHOOL (Vile Parle (East)), Stds. V—XI.
BYCULLA MODEL SCHOOL (Love Lane, Byculla), Stds. V—VII.
BYRAMJI JIJEEBHOY PARSI CHARITABLE INSTITUTION (Queen's Road), Stds. V—XI.
CHEMBUR HIGH SCHOOL (Chembur), Stds. V—X.
CHIKITSAKA SAMOOHA SHIROLKAR HIGH SCHOOL (Kandewadi, Girgaon), Stds. V—XI.
CHILDREN'S ACADEMY (Gamdevi), Stds. V—XI.
CITY HIGH SCHOOL (Thakurdwar, Bombay 2), Stds. VII—XI.
C.V.O. JAIN PATHSHALA, (Chinchpokli), Stds. V—XI.
DADAR VIDYA MANDIR (Dadar Ash Lane, Gokhale Road, North), Stds. VIII—XI.
DEPRESSED CLASS EDUCATION LEAGUE'S FREE NIGHT SCHOOL (Chandanwadi), Stds. V—IX.
DHARMAPRAKASH SHREENIWAS HIGH SCHOOL (Sion), Stds. V—XI.
DIAMOND JUBILEE HIGH SCHOOL (Masagaon, Nesbit Road), Stds. V—XI.
DONGRI EDUCATION SOCIETY'S B. S. EZEKIEL ENGLISH SCHOOL (Dongri), Stds. VII—IX.
ESPLANADE HIGH SCHOOL (Hornby Road, Fort), Stds. V—XI.
ESPLANADE MIDDLE SCHOOL (Kalbadevi), Stds. V—IX.
FELLOWSHIP HIGH SCHOOL (Gowalia Tank), Stds. V—XI.
FORT AND PROPRIETARY HIGH SCHOOL (Empire Building, Hornby Road), Stds. V—XI.
FORJET HIGH SCHOOL (Tardeo), Stds. V—VII.
G. E. INSTITUTE'S ENGLISH SCHOOL (Mahim), Std. V—XI.
GENERAL EDUCATION INSTITUTE'S CHABILDAS LALLUBHAI BOYS' HIGH SCHOOL (Dadar, Western Railway), Stds. V—XI.*
GENERAL EDUCATION INSTITUTE'S HIGH SCHOOL (Kurla), Stds. V—XI.
GHATKOPAR SHIKSHAN PRASARAK MANDAL'S MARATHI VIDYALAYA (Ghatkopar), Stds. VIII—X.
GOCULDAS TEJPAL HIGH SCHOOL (Kalbadevi), Stds. V—XI.
GOKHALE EDUCATION SOCIETY'S PAREL NIGHT HIGH SCHOOL (Parel), Stds. V—XI.
GOKHALE EDUCATION SOCIETY'S R. M. BHATT HIGH SCHOOL (Poibavdi, Parel), Stds. V—XI.
GOKHALE EDUCATION SOCIETY'S SHETH DHARAMSEY GOVINDJI THACKERSEY HIGH SCHOOL (Vithalbhai Patel Road), Stds. V—XI.
GOKULDAS TEJPAL SEMINARY VIDYALAYA (Vadgadi), Stds. V—XI.
GRANT ROAD CENTRAL HIGH SCHOOL (Grant Road, Pannalal Terrace), Stds. V—XI.
GURU NANAK HIGH SCHOOL (Sion, Koliwada), Stds. V—XI.
GURU NANAK NATIONAL SCHOOL (Koliwada, Sion), Stds. V—VII.
GUJARATI NIGHT HIGH SCHOOL (Dongri), Stds. V—XI.
HABIB HIGH SCHOOL (Dongri, Bhimpura Street), Stds. V—XI.
HAIDERY MIDDLE SCHOOL (Dongri, Kesar Baug), Stds. V—X.
HANSRAJ MORARJI PUBLIC SCHOOL (Nav Gujarat, Andheri), Stds. V—XI.
HASHMIA HIGH SCHOOL (Zakaria Masjid), Stds. V—XI.
HIGH SCHOOL FOR SINDHEES (Elph. Tech. High School Compound, Dhobitalao), Stds. V—XI.
HINDI HIGH SCHOOL (Ghatkopar), Stds. V—XI.
HIND NIGHT HIGH SCHOOL (Matunga), Stds. VIII—XI.
HIND VIDYALAYA HIGH SCHOOL (Angrewadi), Stds. V—XI.
HIRJI GHELABHAI SAVLA VIDYALAYA (Shraddhanand Road, Matunga (C. R.), Bombay 19), Stds. V—XI.
HUMB HIGH SCHOOL (Byculla), Stds. V—XI.
IDEAL EDUCATION SOCIETY'S UNION HIGH SCHOOL (Khetwadi Main Road), Stds. V—XI.

* One division of Standard VIII of this school is converted into a Technical High School Division. The instruction in Technical subjects is imparted at the Govt. Technical High School centre at Dadar, Bombay.

IDEAL HIGH SCHOOL (C. P. Tank), Stds. V—XI.
IDEAL MORNING HIGH SCHOOL (Thakurdwar, Bombay 2), Stds. VII—XI.
IDEAL NIGHT HIGH SCHOOL (Gokhale Road, North), Stds. VIII—XI.
IMPERIAL HIGH SCHOOL (Gowalia Tank), Stds. V—XI.
INDIAN EDUCATION SOCIETY'S BOYS' HIGH SCHOOL, (Dadar, Portuguese Church Street), Stds. V—XI.
INDIAN EDUCATION SOCIETY'S KING GEORGE HIGH SCHOOL (Dadar Hindu Colony), Stds. V—XI.
ISMAIL BEG MOHAMED HIGH SCHOOL (Mohamedali Road), Stds. V—XI.
JAWAHARLAL FREE NIGHT HIGH SCHOOL (Carnac Road, Dhobitalao), Stds. V—XI.
JAY BHARAT NIGHT HIGH SCHOOL (Dadar), Stds. VIII—XI.
JOGESHWARI ENGLISH SCHOOL (Jogeshwari), Stds. V—XI.
KAMLA HIGH SCHOOL (17th Road, Khar), Stds. V—XI.
KARNATAK FREE NIGHT HIGH SCHOOL (Gunbow Street, Fort), Stds. V—XI.
KHAR EDUCATION SOCIETY'S SHREE M. M. PUPILS OWN HIGH SCHOOL AND SHARDA MANDIR (Khar), Stds. V—XI.
KHOJA KHAN MOHAMED HABIBBHAI HIGH SCHOOL (Samuel Street, Mandvi), Stds. V—XI.
K. J. KHILNANI HIGH SCHOOL (Gokhale Road, North), Stds. V—XI.
K. J. KHILNANI HIGH SCHOOL (Hornby Road, Fort), Stds. V—XI.
K. M. S. PAREL HIGH SCHOOL (Parel), Stds. V—XI.†
K. M. S. PAREL NIGHT HIGH SCHOOL (Parel), Stds. VIII—XI.
LIBERTY HIGH SCHOOL (Kalbadevi Road), Stds. V—XI.
LOKMANYA NIGHT HIGH SCHOOL (Bhavani Shankar Road, Dadar), Stds. VIII—XI.
LOKMANYA VIDYA MANDIR (Mahim) Stds. V—VIII.
MADANPURA URDU FREE NIGHT SCHOOL (Madanpura) Stds. V—X.
MAHARASHTRA HIGH SCHOOL (DeLisle Road, Lower Parel), Stds. V—XI.
MANDVI HIGH SCHOOL (Dongri), Stds. V—XI.
MARATHA PHULE NIGHT HIGH SCHOOL (Vincent Road, Dadar) Stds. V—XI
MARATHA HIGH SCHOOL (Opera House, Girgaon), Stds. VII—XI.
MARINA MODERN HIGH SCHOOL (Chowpatty), Stds. V—X.
MARWARI COMMERCIAL HIGH SCHOOL (Guzdar Street), Stds. V—XI.
MARWARI VIDYALAYA HIGH SCHOOL (Sandhurst Road), Stds. V—XI.
MASTER'S TUTORIAL HIGH SCHOOL (Nana Chowk, Gowalia Tank), Stds. V—XI.
MATUNGA PREMIER HIGH SCHOOL (Matunga), Stds. V—XI.
MAZGAON NIGHT HIGH SCHOOL (Mazgaon, Dongri), Stds. VIII—XI.
M. K. NATHA BHATIA GUJARATI HIGH SCHOOL (Hornby Road, Fort), Stds. V—XI.
MODEL NIGHT HIGH SCHOOL (Dongri), Stds. V—XI.
MODERN NIGHT HIGH SCHOOL (Lamington Road), Stds. VIII—XI.
MODERN SCHOOL (Sicka Nagar, V. P. Road), Stds. V—XI.
MOGVEERA VYAVASTHAPAK MANDALI'S FREE NIGHT HIGH SCHOOL (Gunbow Street, Fort), Stds. V—XI.
MOTHER INDIA FREE NIGHT HIGH SCHOOL (Elph. Tech. High School Compound, Dhobitalao), Stds. V—XI.
MUNICIPAL HIGH SCHOOL (Bandra), Stds. V—XI.
NAIGAUM NIGHT HIGH SCHOOL (Naigaum), Std. VIII
NATIONAL ANGLO-VERNACULAR SCHOOL (Sonawala Building, Tardeo), Stds. V—IX.
NATIONAL KANNADA EDUCATION SOCIETY'S HIGH SCHOOL (Matunga), Stds. V—XI.
NATIONAL NIGHT HIGH SCHOOL (Thakurdwar, Bombay 2), Stds. VIII—XI.
NAVA BHARAT NIGHT HIGH SCHOOL (Thakurdwar, Bombay 2), Stds. VII—XI.
NAWA BHARAT VIDYALAYA (Parel, Damodar Hall), Stds. VIII—X.
NEW BHARAT NIGHT HIGH SCHOOL (Gokhale Road, South), Stds. VI—XI.
NEW EDUCATION HIGH SCHOOL (Chowpatty, Girgaon), Stds. V—XI.
NEW ERA SCHOOL (Hughes Road), Stds. V—XI.
NEW NIGHT HIGH SCHOOL (Thakurdwar, Bombay 2), Stds. V—XI.
ORIENT HIGH SCHOOL (Mahim), Stds. V—XI.
PARLE TILAK VIDYALAYA (Vile-Parle), Stds. VIII—XI.
PIONEER HIGH SCHOOL (Matunga), Stds. VIII—XI.
PIONEER PUBLIC SCHOOL (Dadar, Gokhale Road North), Stds. V—XI.
POPULAR NIGHT HIGH SCHOOL (Prarthana Samaj, Girgaon), Stds. VIII—XI.
POPULAR NIGHT HIGH SCHOOL No. 2 (Dadar), Stds. VIII—XI.
PRABHU SEMINARY (Thakurdwar, Bombay 2), Stds. V—XI.
PREMIER HIGH SCHOOL (Dadar), Stds. V—XI.
PREMIER HIGH SCHOOL (Sion, Koliwada), Stds. V—XI.
PREMIER HIGH SCHOOL (Sion), Stds. V—VII.
PRIVATE ENGLISH NIGHT HIGH SCHOOL (Girgaon, Mugbhat), Stds. VIII—XI.
PROGRESSIVE NIGHT HIGH SCHOOL (Agripada), Stds. VII—X.
PROPRIETARY AND FORT HIGH SCHOOL (Chira Bazar, Thakurdwar), Stds. V—XI.
RAMJI ASSAR VIDYALAYA HIGH SCHOOL (Ghatkopar), Stds. V—XI.
RAM MOHAN ENGLISH SCHOOL No. 2 (Dadar), Stds. VIII—XI.
RAM MOHAN ENGLISH SCHOOL (Prarthana Samaj), Stds. V—XI.
REPUBLIC NIGHT HIGH SCHOOL (Dadar), Stds. VIII—XI.
SAIFEE HIGH SCHOOL (Ibrahim Rahimtulla Road), Stds. V—XI.
SARASWATI HIGH SCHOOL (Laibaug), Stds. VIII—XI.
SARASWATI VIDYA MANDIR NIGHT HIGH SCHOOL (Laibaug), Stds. VIII—XI.
SARLA SARJAN SARVADESHIYA BALSHIKSHAN KENDRA (Vile Parle), Stds. V—VII.
SARVAJANIK MIDDLE SCHOOL (Mazgaon), Stds. V—VIII.
SARVAJANIK NIGHT HIGH SCHOOL (Ash Lane, Gokhale Road, North, Bombay 28), Stds. VIII—XI.
SARWAJANIK HIGH SCHOOL (Matunga), Stds. V—XI.
SETH ANANDILAL PODAR HIGH SCHOOL (Santa Cruz), Stds. V—XI.
SETH JEEJIBHOY DADABHOY CHARITY SCHOOL (Lamington Road), Stds. V—IX.
SHARADASHRAM VIDYA MANDIR (Bhavani Shankar Road, Dadar), Stds. V—IX.
SHETH FRAMJI NASARWANJI PATEL ANGLO-GUJARATI HIGH SCHOOL (Khetwadi Main Road), Stds. V—XI.
SHETH KANYALAL D. HINDUJA SECONDARY SCHOOL (Queen's Road), Stds. V—XI.
SHETH MADHAVDAS AMARSI HIGH SCHOOL (Andheri), Stds. V—XI.
SHETH M. A. ANDHERI NIGHT HIGH SCHOOL (Andheri), Stds. V—XI.
SHETH PARAMANAND VIDYALAYA (Chembur), Stds. V—XI.
SHIVAJI NIGHT HIGH SCHOOL (Parel), Stds. VIII—XI.
SHREE RASHTRIYA VIDYA MANDIR HIGH SCHOOL (Nana Chowk, Gowalia Tank), Stds. V—X.
SHREE VADILAL CHATURBHUJ GURUKUL HIGH SCHOOL (Ghatkopar), Stds. V—XI.
SHRIMATI GOKLIBAI P. P. HIGH SCHOOL (Vile-Parle), Stds. V—XI.
SHRI CUTCHI VISHA OSWAL JAIN PATHASHALA (Pala Galli, Mandvi), , Stds. V—XI.
SHRI DAYANAND VIDYALAYA, HINDI HIGH SCHOOL (Matunga), Stds. V—XI.
SHRI K.C.K.A. KUCHI DASHA OSWAL JAIN PATHASHALA (Narsi Natha Street, Mandvi), Stds. V—XI
SHRI NANAWATI VIDYALAYA (Bhuleshwar), Stds. V—IX.
SHRI SARASWATI BOYS' AND GIRLS' MIDDLE SCHOOL (Nawiwadi, Girgaon), Stds. V—VIII.
SIDHARTHA HIGH SCHOOL (Princess Street), Stds. V—XI.
SIDDHARTH NIGHT HIGH SCHOOL (Fort), Stds. VII—XI.
SIND COSMOPOLITAN HIGH SCHOOL (Chembur), Stds. V—XI.
SIND COSMOPOLITAN HIGH SCHOOL (Ghatkopar), Stds. V—XI.
SIND MODEL HIGH SCHOOL (Nana Chowk, Gowalia Tank), Stds. V—XI
SIND PREM VIDYALAYA (Mahim), Stds. V—VII.
SIRDAR HIGH SCHOOL (Khetwadi), Stds. V—XI.
SIR ELLY KADOORIE SCHOOL (Mazagaon), Stds. V—XI.
SIR J. J. PARSI BENEVOLENT INSTITUTION (Hornby Road, Fort), Stds. V—XI.
SITARAM PRAKASH HIGH SCHOOL (Wadala), Stds. V—XI.
SOCIAL NIGHT HIGH SCHOOL (Nana Chowk, Gowalia Tank), Stds. V—XI.
SOCIAL SERVICE LEAGUE'S NIGHT HIGH SCHOOL (Parel, Poibawdi), Stds. V—XI.
SOUTH INDIAN EDUCATION SOCIETY'S HIGH SCHOOL (Brahmanwada Road, Matunga), Stds. V—XI.
S. V. KANNADA ENGLISH FREE NIGHT HIGH SCHOOL (Gamdevi), Stds. V—VII.
UNITY HIGH SCHOOL (Khetwadi), Stds. V—XI.
VANDE MATARAM SEVA MANDAL'S NIGHT HIGH SCHOOL (Byculla) Stds. V—X.
WILSON HIGH SCHOOL (Khetwadi), Stds. V—XI.
WORKERS' EDUCATIONAL SERVICE LEAGUE'S FREE NIGHT HIGH SCHOOL (Nagpada), Stds. V—XI.
WORKERS' EDUCATION SOCIETY'S NIGHT HIGH SCHOOL (Tardeo), Stds. VIII—XI.
YOUNG MEN'S FREE NIGHT HIGH SCHOOL (Bazargate Street, Fort), Stds. V—XI.

† Commerce Course is introduced in Standard VIII onwards.

GIRLS' SCHOOLS

ANJUMAN-I-ISLAM GIRLS' HIGH SCHOOL (Bellasis Road), Stds. V—XI.
ANJUMAN-I-ISLAM GIRLS' HIGH SCHOOL (Mahim), Stds. V—IX.
ARYAN EDUCATION SOCIETY'S HIGH SCHOOL FOR GIRLS (SHARDA SADAN) (Girgaon Road), Stds. V—XI.
BAI B. S. BENGALI GIRLS' SECONDARY SCHOOL (New Marine Lines, Fort), Stds. V—XI.
BAI M. N. GAMADIA GIRLS' HIGH SCHOOL (Princess Street), Stds. V—XI.
BAI B. F. D. PANDAY GIRLS' HIGH SCHOOL (Glider Lane), Stds. V—XI.
BAI R. F. PAVRI GIRLS' HIGH SCHOOL (Khetwadi), Stds. V—XI.
CHANDARAMJI GIRLS' HIGH SCHOOL (V. P. Road), Stds. V—XI.
CUMMOO JAFFAR SULEMAN GIRLS' HIGH SCHOOL (Bhendi Bazar, Kambekar Street), Stds. V—XI.
DIAMOND JUBILEE GIRLS' HIGH SCHOOL (Imamwada), Stds. V—XI.
GENERAL EDUCATION SOCIETY'S GIRLS' HIGH SCHOOL (Tulsi Pipe Road), Stds. V—XI.
GIRLS' HIGH SCHOOL (Andheri), Stds. V—XI.
HANSRAJ PRAGJI THAKERSEY GIRLS' HIGH SCHOOL (Carnegie Road), Stds. V—XI.
INDIAN EDUCATION SOCIETY'S GIRLS' HIGH SCHOOL No. 2 (Hindu Colony), Stds. V—XI.
INDIAN EDUCATION SOCIETY'S GIRLS' HIGH SCHOOL No. 1 (Portuguese Church Street), Stds. V—XI.
J. B. VACHHA GIRLS' HIGH SCHOOL (Parsi Colony, Dadar), Stds. V—XI.
MADRESA TAYEBIA GIRLS' SCHOOL (Pydhoni), Stds. V—IX.
MODEL HIGH SCHOOL FOR GIRLS (Dadar, Western Railway), Stds. V—XI.
PRINCESS HIGH SCHOOL FOR GIRLS (Lamington Road), Stds. V—XI.
RAHAMATBAI HABIB GIRLS' HIGH SCHOOL (Khadak), Stds. V—XI.
SAIFI GIRLS' HIGH SCHOOL (Sarang Street), Stds. V—XI.
SARASWATI ENGLISH SCHOOL FOR GIRLS (Ambewadi, Girgaum), Stds. V—XI.
SHARADA MANDIR HIGH SCHOOL FOR GIRLS (V. P. Road), Stds. V—XI.
SHETH DHANJI DEVSHI RASHTRIYA SHALA (Ghatkopar), Stds. V—XI.
SHETH GOKULDAS TEJPAL GIRLS' HIGH SCHOOL (D. Naoroji Road), Stds. V—XI.
SHREE RATNACHANDRAJI JAIN KANYASHALA (Ghatkopar), Stds. V—XI.
SHREEMATI NATHIBAI DAMODAR THACKERSEY KANYA SHALA (Vithalbhai Patel Road), Stds. V—XI.
SHRI CHANDULAL NANAWATI KANYA VINAYA MANDIR (Vile Parle), Stds. VIII—X.
SHRI RATNACHINTAMANI S. JAIN GIRLS' HIGH SCHOOL (Girgaon Road), Stds. V—XI.
SHRI SHAKUNTALA KANTILAL ISHWARLAL JAIN GIRLS' HIGH SCHOOL (Queen's Road), Stds. V—XI.
SIR CAWASJI JAHANGIR GIRLS' HIGH SCHOOL (Tardeo), Stds. V—XI.
SIR J. J. P. B. INSTITUTION (D. Naoroji Road), Stds . —XI.
SITARAM PODDAR BALIKA VIDYALAYA (Phanaswadi), Stds. V—XI.
SNEHALATA RANE GIRLS' HIGH SCHOOL (Portuguese Church Street), Stds. VIII—XI.
SOUTH INDIAN WELFARE SOCIETY'S GIRLS' HIGH SCHOOL (Matunga), Stds. V—XI.
ST. COLUMBA HIGH SCHOOL FOR GIRLS (Alexandra Road, Gamdevi), Stds. V—XI.
STUDENTS' LITERARY AND SCIENTIFIC SOCIETY'S GIRLS' HIGH SCHOOL (Thakurdwar), Stds. V—XI.
SUNITI GIRLS' HIGH SCHOOL (Parekh Street), Stds. V—IX.
VANITA VISHRAM ENGLISH SCHOOL (Khetwadi Main Road), Stds. V—XI.
YOUNG LADIES' HIGH SCHOOL (Marzban Road, Fort), Stds. V—XI.

SECONDARY (ENGLISH) SCHOOLS

BOYS' SCHOOLS

ANTONIO DE SOUZA HIGH SCHOOL (Ryculla), Stds. V—XI.
BARETTO HIGH SCHOOL (Thakurdwar), Stds. V—IX.
BOMBAY ENGLISH SCHOOL (Grant Road), Stds. V—IX.
DR. ANTONIO D'SILVA HIGH SCHOOL (Dadar), Stds. V—XI.
DON BOSCO HIGH SCHOOL (Matunga), Stds. V—XI.
ENGLISH HIGH SCHOOL FOR BOYS AND GIRLS (Dadar), Stds. V—XI.
HILL ORANGE HIGH SCHOOL (Pedder Road, Malabar Hill), Stds. V—XI.
HOLY CROSS PARISH SCHOOL (Kurla), Stds. V—XI.
HOLY NAME HIGH SCHOOL (Fort), Stds. V—XI.
LADY ENGINEER'S PARSI A. C. HIGH SCHOOL (Grant Road), Stds. V—IX
JASMINES HIGH SCHOOL (Mahim), Stds. V—IX
LITTLE FLOWER OF JESUS HIGH SCHOOL (Princess Street), Stds. V—XI.
PAREL ENGLISH SCHOOL (Parel), Stds. V—X.
SACRED HEART BOYS' HIGH SCHOOL (Santa Cruz), Stds. V—XI.
ST. ANNE'S NIGHT HIGH SCHOOL (Mazagaon), Stds. V—IX.
ST. ANTONY'S HIGH SCHOOL (Chembur), Stds. V—XI.
ST. BLASE'S SCHOOL (Andheri), Stds. V—XI.
ST. MARY'S ENGLISH TEACHING HIGH SCHOOL (Mazagaon, Nesbit Road), Stds. V—XI.
ST. IGNATIUS SCHOOL (Arthur Road), Stds. V—IX.
ST. JOSEPH'S HIGH SCHOOL (Umarkhadi), Stds. V—XI.
ST. JOSEPH'S HIGH SCHOOL (Wadala), Stds. V—XI.
ST. SEBASTIAN GOAN HIGH SCHOOL (Thakurdwar, Burrow's Lane), Stds. V—XI.
SIR JACOB SASSOON FREE HIGH SCHOOL (Byculla), Stds. V—XI.
ST. MICHAEL'S HIGH SCHOOL (Mahim), Stds. V—XI.
ST. MICHAEL'S NIGHT HIGH SCHOOL (Mahim), Stds. VIII—X.
ST. JOSEPH'S SCHOOL (Upper Colaba), Stds. V—VII.
ST. JOSEPH'S NIGHT HIGH SCHOOL (Princess Street), Stds. V—XI.
ST. JOHN'S NIGHT HIGH SCHOOL (Dongri), Stds. V—XI.
ST. ALOYSIUS SCHOOL (Bandra), Stds. V—XI.
ST. ANDREW'S HIGH SCHOOL (Bandra), Stds. V—XI.
ST. PAUL'S HIGH SCHOOL (Parel), Stds. V—XI.
ST. STANISLAUS HIGH SCHOOL (Hill Road, Bandra), Stds. V—XI.
ST. XAVIER'S HIGH SCHOOL (Fort), Stds. V—XI.
ST. XAVIER'S HIGH SCHOOL (Vile Parle), Stds. V—XI.

GIRLS' SCHOOLS

ALEXANDRA GIRLS' ENGLISH SCHOOL (Waudby Road, Fort), Std. VII—XI.
APOSTOLIC CARMEL GIRLS' HIGH SCHOOL (Bandra), Stds. V—XI.
AUXILIUM CONVENT HIGH SCHOOL (Wadala), Stds. V—XI.
CANOSSA HIGH SCHOOL (Mahim), Stds. V—XI.
CONVENT HIGH SCHOOL FOR GIRLS (Dadar), Stds. V—XI.
GIRTON HIGH SCHOOL (Grant Road), Stds. V—XI
J. B. PETIT GIRLS' HIGH SCHOOL (Napier Road), Stds. V—XI.
MOUNT MARY CONVENT HIGH SCHOOL (Bandra), Stds. V—XI.
QUEEN MARY'S HIGH SCHOOL (Kennedy Bridge), Stds. V—XI.
ST. ANNE'S HIGH SCHOOL FOR GIRLS (Fort, Mayo Road), Stds. V—XI.
ST. ANNE'S HIGH SCHOOL FOR GIRLS (Burrow's Lane), Stds. V—XI.
ST. THERESA'S HIGH SCHOOL (Kelewadi), Stds. V—XI.
ST. ISABEL'S HIGH SCHOOL (Mazagaon), Stds. V—XI.
ST. JOSEPH'S CONVENT HIGH SCHOOL (Agripada), Stds. V—XI.
ST. AGNE'S HIGH SCHOOL (Clare Road), Stds. V—XI.
ST. ANTHONY'S HIGH SCHOOL (Bellasis Road), Stds. V—XI.
ST. JOSEPH'S CONVENT HIGH SCHOOL (Bandra, Bombay 20), Stds. V—XI.
ST. TERESA'S CONVENT HIGH SCHOOL (Santa Cruz), Stds. V—XI.
WALSINGHAM HOUSE SCHOOL (Nepean Sea Road), Stds. V—XI.

ANGLO-INDIAN SCHOOLS

BOYS' SCHOOLS.

BOMBAY SCOTTISH ORPHANAGE SOCIETY'S HIGH SCHOOL (Cadell Road), Stds. I—XI
CAMPION SCHOOL (13, Cooperage Road, Bombay 1), Stds. III—X.
CATHEDRAL AND JOHN CANON BOYS' HIGH SCHOOL (Outram Road, Fort), Stds. III—XI.
CENTRAL RAILWAY SCHOOL (Supari Baug Road, Parel), Stds. I—VI.
CHRIST CHURCH HIGH SCHOOL (Byculla, Clare Road), Stds. Infant—XI.
ST. MARY'S HIGH SCHOOL (Nesbit Road, Mazagaon), Std. Infant I—XI.
ST. PETER'S SCHOOL (Mazagaon), Stds. I—XI.

GIRLS' SCHOOLS

CATHEDRAL AND JOHN CANON GIRLS' HIGH SCHOOL (Napier Road), Stds. Infant—XI.
CONVENT OF JESUS AND MARY HIGH SCHOOL (Wodehouse Road), Stds. I—XI.
CONVENT OF JESUS AND MARY HIGH SCHOOL (Byculla, Clare Road), Stds. I—XI.
ST. JOSEPH'S CONVENT HIGH SCHOOL (Bandra), I—XI.

SPECIAL SCHOOLS

COMMERCIAL SCHOOL OF THE YOUNG WOMEN'S CHRISTIAN ASSOCIATION
(Mayo Road, Fort).

ST. MARGARET'S TRAINING COLLEGE
Clare Road, Byculla.

TECHNICAL INSTITUTIONS

ADARSHA ART TAILORING COLLEGE (Hanuman Road, Vile-Parle).
ADARSHA KALA KENDRA (D. L. Vaidya Road, Dadar, Bombay).
ADARSHA MAHILA CLASS (Kama Lane, Ghatkopar, Bombay).
ADVIRKAR TAILORING COLLEGE (316A, Hemraj Wadi, Thakurdwar, Tram Naka, Bombay 2).
A. S. PATEL ACADEMY FOR DOMESTIC ARTS (Classes attached to Bai Bhikajee S. Bengalee Girls' High School, 42, New Marine Lines, Fort).
BAPNU GHAR, 12, Annie Besant Road, Worli, Bombay-18.
B. J. KATRAK TRAINING CLASSES (723, Dinshaw Master Road, Parsee Colony, Dadar, Bombay 14).
B. N. GAMADIA PARSEE HUNNARSHALA (Gamadia Parsee Colony, Tardeo, Bombay).
B. N. GAMADIA TECH. HIGH SCHOOL CENTRE, 8, Tardeo Road, Bombay 7.
BANDRA SEWING CLASS (Near Neptune Cinema, Nutan Nagar, Opp. Bandra Rly. Station, Bandra, Bombay 20).
BENNE ISRAEL STREE MANDAL CLASSES, Sajan Bldg., 2nd Peerkhan Street, Bombay 8.
BHAGINI SAMAJ (Tardeo Kendra, Sonawala Building Hall, Tardeo, Bombay 7).
BHAGINI SAMAJ BHULESHWAR CENTRE (Jai Hind Estate Building, 3 South Wing, 1st Floor, C.P. Tank, Bombay).
BHAGINI SAMAJ CHANDABEN UDYOGA MANDIR (225, Khetwadi Main Road, Bombay).
BHAGINI SEVA MANDAL (Sarojini Road, Vile Parle, Bombay 24).
BHARATIYA KALA KENDRA (388, V. P. Road, Ahilya Bldg., Near Congress House, Bombay 4).
BHARTIYA KALA VIKAS (Prashant, 17th Road, Khar, Bombay 21).
BHARATIYA STREE SEVA SANGH (Bharatiya Vidya Bhuvan, Chowpatty, Bombay 7).
BHATIA STREE MANDAL (Mangesh Shenoy Street, Fort, Bombay).
BHATIA STREE HUNAR UDYOG GRIHA, Kolbhat Lane, Kalbadevi Bombay-2.
BOMBAY SOCIETY OF MODEL ENGINEERS (Noble Chambers, Fort, Bombay-1).
BOMBAY TECHNICAL SCHOOL (C o Saraswati School, Girgaum, Bombay 4).
BRAHMAN SABHA MAHILA SHAKHA (Shankar Wadi, 190, Charni Road, Bombay 4).
CHATPUKAR STREE HUNNAR UDYOG SHIKASHAN VARGA, Hansraj Morarji Wadi, M. G. Road, Ghatkopar.
CHEMBUR CHILDREN'S HOME (Chembur).
CHEMBUR TAILORING COLLEGE (Near Bus Stand, Chembur Camp, Chembur, Bombay 38).
COLLEGE OF CATERRING AND INSTITUTIONAL MANAGEMENT, Andheri.
CUTCHI LOHANA SAHAKARI MANDAL, Mahila Hunnar Udyog Griha, Laxmi Narayan Lane, Matunga (C.R.), Bombay.
DAVID SASSOON INDUSTRIAL SCHOOL (83, Lady Hardinge Road, Mahim).
DAWOODBHOY FAZALBHOY MUSLIM WOMEN'S HANDICRAFT INSTITUTE (42, Pydhonie Road, Khadak, Bombay).
EFFICIENT RADIO INSTITUTE, 315, Charni Road, Camp Compound, Bombay 4
ELECTRONIC INSTITUTE (364-C-D, Lodiwala Joshi Compound, N. C. Kothari Rd., Dadar, Bombay 28).
ELPHINSTONE TECH. HIGH SCHOOL, Dhobi Talao, Bombay 2.
GOVERNMENT APPRENTICES SCHEME, V.J.T. INSTITUTE, Bombay 19.
GOVERNMENT LEATHER WORKING SCHOOL (Bandra).
GOVERNMENT TANNING INSTITUTE (Bandra).
GUJARATI HINDU STREE MANDAL (Amroli House, Vithalbhai Patel Road, Bombay 4).
GUJARATI HINDU STREE MANDAL (Hiravati Hall, Tagore Road, Santa Cruz, Bombay 23).
GULISTAN FURNISHING SCHOOL, INSTITUTE OF DOMESTIC SCIENCE, SEWING CLASS, 91, Bharat Bhavan, Walkeshwar Road, Bombay.
HANDICRAFT TEACHERS' TRAINING COLLEGE (Elphinstone Technical High School Compound, Bombay 1).
HIND MAHILA SAMAJ, Cutch Castle, Opp. Opera House, Bombay-4.
INDUSTRIAL ARTS SCHOOL (262, Rane Building, Charni Road, Bombay 4).
INSTITUTE INDO-PORTUGUESE (Kavarana Building, Dhobi Talao, Bombay 2).
INSTITUTE OF RADIO TECHNOLOGY (Jeetharam Baug, Tram Terminus, Dadar).
JAIN MAHILA SAMAJ (Mangrol Mansion, Bora Bazar, Fort, Bombay 1).
KALA MANDIR (C/o Girgaum New English School, Mughbhat Naka, Bombay 4).
KANDIVLI STREE MANDAL, Ghodbunder Road, Kandivli.
KANDIVLI TAILORING & EMBROIDERY INSTITUTE, Dhanmal Vidya Bhavan, Mathuradas Road, Kandivli.
KASTURBA MAHILA MANDAL, Jivan Prakash, Tulsi Pipe Rd., Mahim, Bombay-16.
KATCHI LOHANA MAHAJAN MAHILA MANDIR (Narottam Road, Mulund).
KETKAR'S ART INSTITUTE, 255, Girgaon Road, Bombay 4.
KSHATRAIKYA SAMAJ KALA KENDRA (Vanmali Hall, Dadar, Bombay).
KUMARIKA STREE MANDAL (Sarojini Road, Vile-Parle, Bombay 24).
LOHANA BHAGINI UDYOG GRIHA (286, Samuel Street, Vadgadi, Bombay 3).
LOKMANYA SEVA SANGH (Tilak Mandir, Vile Parle, Bombay 24).
M. G. TEXTILE TECHNICAL SCHOOL (Damodar Thackersey Moolji Hall, Parel, Bombay 12).
MADARASHAH TAIYABI HUSSEIN CUTTING CLASS (Saifi Masjid, Doctor Street, Bombay 3).
MAHILA KALA BHAVAN, Vinayak Bhavan, Opp. Diamond Talkies, Borivli.
MAHILA KALA BHUVAN, 12, Javale Bldg., Dadar, Bombay 28.
MAHILA KALA BHUVAN (Kunte Building, Vithalbhai Patel Road, Girgaon, Bombay 4).
MAHILA KALA KENDRA (Tank Bldg., Bhuleshwar, Bombay-2).
MAHILA KALA KENDRA (Santa Cruz, Bombay 23).
MAHILA KALA MANDIR, Brahmin Sabha Building, Underal Cross Road, Malad.
MAHILA KALA MANDIR (Laxmi Sadan, Vithalbhai Patel Road, Bombay 4).
MAHILA KALA NIKETAN (Gamdevi, Bombay 7).
MAHILA SEVA MANDAL INDUSTRIAL CLASSES (Jubilee Bldg., Damodar Hall, Parel).
MAHILA SEVA SADAN, Plot 205, Opp. Vadala Station, Vadala, Bombay-31.
MAHILA PARISHAD, BHAIDAS LIBRARY SEWING CLASS (Versova Road, Andheri).
MAHIM HINDU MAHILA SANGH (Amirani Mansion, Station Road, Mahim, Bombay 16).
MALAD MAHILA SHIVAN VARGA, Shanti Sadan, Marve Road, Malad.
MARINE COLLEGE & SEAMEN'S ORPHANAGE (C/o The Chief Estate Manager, Sir Mohd. Yusuf Trust, Novha House, 65, Queen's Road, Bombay 2).
MODEL INDUSTRIAL INSTITUTE (388, Vithalbhai Patel Road, Near Congress House, Girgaon, Bombay 4).
MODEL TAILORING COLLEGE (C/o Departmental Service Stores, Dadar, Bombay 28).
MODERN TAILOR & CUTTER ACADEMY (Gool Mahal, Sleater Road, Bombay-7).
MODERN TAILORING COLLEGE (Central Rly. Stores Lane, Patri Chawl, Lower Parel, Bombay 13).
MOHD HAJI SABOO SIDDIK TECHNICAL SCHOOL & INSTITUTE (8, Shepherd Road, Byculla, Bombay 8)
MULODYOGA SHIKSHANA KENDRA (Lady Jamshedji Road, Municipal Upper Primary Marathi School, Ranade Road, Dadar, Bombay).
MULUND COLONY NARI SHALLA (Mulund).
NARI SHALLA (T. 44, Chembur Camp, Chembur, Bombay 38).
NAVABHARAT AUDYOGIK VIDYALAYA (Girgaon Municipal Marathi Boys' School, Girgaon, Bombay 4).
NAVA BHARAT KALA MANDIR (336, Bhai Jivanjee Lane, Thakurdwar, Bombay 2).
NAVYUG TAILORING COLLEGE (Narvekar's Anant Nivas, Arthur Road, near Chinchpokli Bridge, Bombay 12).
NEW PEDNEKAR TAILORING COLLEGE (Contractor Building, First Floor, 2nd Dubash Lane, V. P. Road, Bombay 4)
NORTH INDIAN ASSOCIATION, LADIES SEWING CLASS (Manu Mahal, King's Circle, Bombay 19).
NUTAN MAHILA KALA BHUVAN (Vishnu Sadan, Hindu Colony, 4th Road, Dadar, Bombay 14).
PATHARE PRABHU MAHILA SAMAJ CUTTING AND SEWING CLASS (333, Thakurdwar, Bombay).
PATUCK POLYTECHNIC, Nehru Road, Santa Cruz (East), Bombay-25.
PATUCK TECH. HIGH SCHOOL, Santa Cruz (East).
PEDNEKAR EMBROIDERY COLLEGE (172, Girgaon, Bombay 4).
PRABHADEVI SANKAR KENDRA, Mahila Mandal, Khot Galli, Prabhadevi Road, Bombay-28.
PRIYATAM DHARMA SABHA (Sind Seva Samiti Nagar, Kolwada, Bombay 22).
R. V. TECH HIGH SCHOOL, 17th Road, Khar, Bombay 21.
RADIO ELECTRIC INSTITUTE (Lamington Chambers, Lamington Road, Bombay 4).
ROBERT MONEY TECH. HIGH SCHOOL, Proctor Road, Bombay 7.
SARAVADYA WOMEN'S CO-OPERATIVE SOCIETY, 153-A, Jain Society, Sion, Bombay-22.

SARASWAT BRAHMAN SAMAJ (Nikadwari Lane, Girgaon, Bombay 4).
SARASWATI UDYOG MANDIR, (5, Chunam Lane, Lamington Road, Bombay 4).
SCHOOL OF PRINTING TECHNOLOGY, J. J. SCHOOL OF ART, Bombay.
SEVA SADAN SOCIETY (Harvey Road, Gamdevi, Bombay 7).
SEVA SAMAJ MARWADI BUNGALOW, Borivli.
SHIVAN KALA MANDIR, Jamat Khana Bldg., Kurla, Bombay-37.
SHIVAN KALA MANDIR (Harkuverbai Building, Mughbhat, Thakurdwar, Bombay 2).
SHRI JAIN SHWETAMBER CONFERENCE UDYOGA GRIHA, Lotisha Jain, Lalbag, 109-117, C. P. Tank Road, Bombay 4.
SHRI KOT HINDU STREE MANDAL 45, Modi Street, Fort, Bombay-1.
SHRI LAD MAHILA MANDAL (Lad Wadi, C. P. Tank), Bombay.
SITA'S TAILORING INSTITUTE, Shrala Bhuvan, IInd Floor, Station Road Kandivli.
ST. XAVIER'S COLLEGE TECHNICAL INSTITUTE (Cruickshank Road, Bombay 1).
STRAND TAILORING COLLEGE (Room No. 24, Abdulla Bldg., Fergusson Road, Lower Parel, Bombay 13).
TECHNICAL HIGH SCHOOL, DADAR, C/o ELPHINSTONE TECH. HIGH SCHOOL, Dhobi Talao, Bombay 2.
VANITA SAMAJ (National Library Hall, Bandra, Bombay 20).
VANITA VIKAS (120-33, Fanaswadi, Bombay 2).
VICTORIA JUBILEE TECHNICAL INSTITUTE (Matunga, Bombay 19).
VIDYUT VIDYALAYA (C/o Ram Mohan English School, Girgaum, Bombay 4).
VIENNA TAILORING COLLEGE (Haroon Rangari Chawl, Opp. Vijayanagar, Dadar, Bombay 28).
VIJAYA VIDYALAYA TAILORING CLASSES (Mohd. Mansion, Dr. Maheshwari Road, Bombay 9).
VILE PARLE GUJARATI MANDAL (Shraddhanand Road, Vile Parle (East), Bombay 24).
VIVIDHLAKSHMI VIDYALAYA, Matunga, Bombay 19
YESHWANT TAILORING AND CUTTING COLLEGE (Opp. Post Office, Agra Road, Bhandup).
YOUNG MEN'S HINDU ASSOCIATION (Vithalbhai Patel Road, Bombay 4).
ZARAPKAR TAILORING COLLEGE (Bhavani Shankar Road, Dadar, Bombay 28).

BOMBAY DUMB & DEAF INSTITUTION

Kakadwadi, Girgaon, Bombay 4.

The above institution was started in 1925. Dumb and deaf boys and girls are taught here to write, read and sew. Admission is given to the needy irrespective of caste and creed. More than 480 students have had the benefit of this charitable institution so far. Almost all of them now earn their own livelihood.

Principal :—S. N. Medhekar.

BRITISH INSTITUTE OF ENGINEERING TECHNOLOGY (INDIA) PRIVATE LTD., BRITISH INSTITUTE OF COMMERCE

359, Dadabhoy Naoroji Road, Flora Fountain, Bombay 1.

The Institutes provide Correspondence Courses in all branches of Engineering and Commerce, both for professional examinations and for vocational training.

Principal, R. P. Wellsman.

DOCKYARD APPRENTICE SCHOOL

Indian Naval Dockyard, Fort.

Dockyard Apprenticeships are awarded to boys between 15 and 19 years of age who pass the all-India open competitive examinations and interviews held annually in June and July.

Officer-in-Charge, Lt Commander W. P Bapat, I.N.

Senior Instructor Officer, Lieut-Commander K. R. Rao, I.N.

DAWOODBHOY FAZALBHOY MUSLIM WOMEN'S HANDICRAFT INSTITUTE

42, Pydhonie Road, Bombay.

Lady Superintendent.—Miss B. Jacob.

"DUFFERIN," TRAINING SHIP

Off Magnon Pier, Bombay 10.

(Under the administrative control of the Government of India, Ministry of Transport & Communications).

The first Cadets joined the Training Ship in November 1927 since when 923 Cadets have been trained for a sea career; in addition between 1936 and 1949, 287 Cadets were trained for the Engineering Branch. Of the 923 Cadets, 359 are Officers in the Merchant Navy, 63 in the Indian Navy, 161 in the Port Services and 68 are serving in the ancillary and other services. In addition, there are 123 Cadets in training on board the ship.

The age limits for admission are between 15½ years and 18 years on the 1st July of the year of entry. Annually 60 Cadets for the Executive Branch are admitted for a 2-year course, terminating in the Final Passing Out Examination of the ship.

Total cost to the parent of training a boy is about Rs. 2,000 for the 2-year course. A number of scholarships are available both while under training on board and while serving as apprentices at sea; some are awarded on financial grounds and others on merit.

The Board of Control consists of a Governing Body with the Transport Minister to the Government of India as ex-officio Chairman.

GOVERNING BODY :—*Chairman* - The Minister of Shipping, Government of India, Ministry of Transport (*ex-officio*); *Members.*—The Director-General of Shipping (*ex-officio*); Rector, Bombay University (*ex-officio*); Amolakh Chand; M. A Chidambaram; N. H. G. Grant; M. A. Master B A. LL.B.; S. R. Rane; Sumati S. Morarji; Vasant J. Sheth; C. H. Bhabha; D. N. Mukherji; B. P. Singh Roy; C. Sankunni; J. D. Randeria; *Secretary.*—Captain M.F.S.C. Harvey, R.D., J.P. (*ex-officio*).

Captain Superintendent.—Captain M. F. S. C. Harvey, R.D., F.R.G.S., M.I.N., A.I.N.A., J.P.

ELPHINSTONE TECHNICAL HIGH SCHOOL

Cruickshank Road, Fort.

The Institution is a Multipurpose High School imparting general education in English, Mathematics, Science, and Regional Languages and trains students for S.S.C. Examination with (1) Electrical and Mechanical Engineering and (2) Commercial subjects, such as typewriting, and accountancy, etc. The institution, also prepares S.S.C. or Non-S.S.C. students for Govt. Commercial Diploma and Certificate Examination at morning classes.

Head Master, B. K. Khatri, B.E. (Mech.), B E. (Elec.).

INDIAN INSTITUTE OF ARCHITECTS

Prospect Chambers Annexe, Dr. Dadabhoy Naoroji Road, Fort, Bombay 1.

President Walter George; *Vice-President* B. D. Mhatre, *Jt. Hon Secretaries* : J P J Bilimoria, A S Patil.

INDIAN INSTITUTE OF BANKERS

State Bank of India Building, Apollo Street, Bombay 1.

Hon Secretary.—A J. Doctor.

INDIAN INSTITUTE OF ROAD TRANSPORT

Best House, P O. Box No. 192, Fort, Bombay 1.

President R. G. Saraiya, *Chairman* M G. Monani; *Hony. Secretaries*, N Balkrishna, T. V Ramanujam.

INDIAN TECHNICAL EDUCATION SOCIETY'S RADIO ELECTRIC INSTITUTE

Lamington Chambers, Opp. "The Naaz", Bombay 4.

This Institute was started in April 1934 to fulfil a much-felt need in Radio Circles for good, trained Radio Experts. It gives students a thorough experience and training in courses preparatory to

(i) Associate Membership Examinations held by (*a*) Institute of Engineers (India), (*b*) Institute of Electrical Engineers (London), and (*c*) British Institute of Radio Engineers.

(ii) City and Guilds—London Institute Final Grade Examinations in (*a*) Electrical Engineering Practice, (*b*) Radio Service Work, and (*c*) Refrigeration Practice (Inter Grade).

(iii) Government of India's I, II and Special Class Certificate of Competency Examinations in Wireless Telegraphy.

(iv) Department of Technical Education, Government of Bombay Examinations in (*a*) Radio Engineering, (*b*) Radio Servicing, (*c*) Electricians, (*d*) Wireman Apprentices, (*e*) Wireless Telegraphy.

MOGAVEERA FREE INDUSTRIAL SCHOOL FOR WOMEN

46, Vir Nariman Street, Fort, Bombay.

M. H. SABOO SIDDIK POLYTECHNIC

8, Shepherd Road, Byculla, Bombay 8.

This Institution is divided into two Sections: (*i*) Technical High School Section leading to the S.S.C. Examination; (*ii*) The Technical Institute Section providing instruction in the following Trade Courses recognised by the Department of Technical Education, Government of Bombay :—(*a*) Auto. Engg. (3 yrs.); (*b*) Electrical Engg. (3 yrs.); (*c*) Radio servicing (1 yr.); (*d*) Advanced certificate in Typography (3 yrs.); (*e*) Auto Mechanics (2 yrs.); (*f*) Turner's Course (2 yrs.); (*g*) Fitter's Course (2 yrs.); (*h*) L. G. Textile Weaving (2 yrs.); (*i*) Wireman's Apprentice (½ yr.).

Principal, S. S. Desnavi.

NAUTICAL AND ENGINEERING COLLEGE

Azad Maidan, Waudby Road, Bombay 1.
(Ministry of Transport, Government of India).

This College provides training facilities to officers of the Merchant Navy and akin services preparing for their examinations for Certificates of Competency conducted by the Ministry of Transport. Apart from these courses special Radar Observer's Courses are also conducted.

This College being a purely professional training Institution, undertaking post sea courses, admission is granted only to those who have completed the necessary sea service and/or workshop service and are eligible to appear for the Ministry of Transport Examinations.

Principal :—Captain P. Alexander, F.R. Met.S., M.I.N., Assoc.I.N.A., J.P.

ROBERT MONEY SCHOOL

Proctor Road, Bombay.

The School was converted into a Technical High School in 1948 preparing pupils for the Government Secondary School Certificate examination with technical subjects. A Primary School is attached to the High School.

Principal.—C. A. Christie, B.A., B.T.

SEA CADET CORPS.

I.N.S. Kunjali, Sassoon Docks, Colaba, Bombay.

The sea Cadet Corps is an organization which provides pre-entry training for boys and girls who wish to make the sea their career. The training has educational value and the organization can provide in case of need a second line of defence. It had its origin in Karachi where the Corps was formed in 1939 by Mr. G. S. Ahuja who is now Capt. Superintendent of the Corps and Mr. E. W. Oakely.

The Cadets attend instructional classes for six hours every week on Sundays and Thursdays or Saturdays. Practical training is given on board the I.N.S. "Kunjali". Twice a year training camps are held.

There are two courses in a year starting in February and August. The Cadets have to be in the age-group 10-18.

The total strength of the Corps is about 400.

The Corps is controlled by the Sea Cadet Council.

President of the Council : Sri Prakasa, Governor of Bombay.

Vice-Presidents : Y. B. Chavan, Chief Minister of Bombay (*Senior Vice-President*) ; H. K. Desai, Education Minister, Bombay ; S. S. Mirajkar, Mayor of Bombay ; J. C. Jain, Sheriff of Bombay ; Commodore A. Chakravarti, FOCIF ; Dr. Nagendra Singh ; L. T. Gholap ; Maj.-Gen. P. N. Kirpal ; Maj.-Gen. E. Habibulah ; Naval H. Tata ; Wing Comdr. R. L. Suri.

Chairman : Commodore B. S. Soman, Commodore-in-Charge, Bombay.

Secretary to the Council and Capt. Superintendent of the Sea Cadet Corps : G. S. Ahuja.

SIR JAMSETJEE JEEJEEBHOY SCHOOL OF ART

Hornby Road, Fort.

Courses of study are held in the following subjects. The period covered and diploma or degree are given within brackets : Drawing and Painting (Five years ; Government Diploma in Drawing and Painting) ; Modelling and Sculpture (Five years ; Diploma in Modelling) ; Arts and Crafts (Three years ; Certificate course in Cabinet making, Engraving and Enamelling, Gold and Silver, Copper and Brass, Repouses Beating, House Decoration, Iron Work, Shape Making, Stone Carving, Wood Carving, Carpet Weaving) ; Teacher training (One year ; Drawing Teachers' Examination) ; Architecture (Five years ; Bachelor of Architecture (B. Arch.) of the Bombay University) ; Applied Art (Four years ; Diploma course in Applied Art) ; Four years (certificate course in Applied Art) ; (One year course in each ; Apprentice Training Course in (1) Photography, (2) Lithography, (3) Block-making and (4) Interior Decoration.

In addition to the above courses, there are part-time classes (morning and evening) as detailed below : (1) Morning Art classes (Drawing and Painting, Architecture & Modelling), (2) Evening Art classes (Drawing and Painting ; Graphic Art).

A small Art Museum containing specimens of Indian and European art is attached to the school.

Dean.—J. D. Gondhalekar.

ST. XAVIER'S COLLEGE TECHNICAL INSTITUTE

Cruickshank Road, Bombay 1.

The Institute, founded in 1937, offers the following Courses:

Certificate Courses.—(1) Wireman Apprentice ; (2) Electricians ; (3) Radio Servicing Day and Evening Classes ; (4) Wireless Telegraphy Day and Evening Classes ; (5) Sound Engineering ; and (6) Cine Projectionist.

Diploma Course.—Diploma in Radio Engineering.

The Director of Technical Education, Bombay State holds intermediate and final examinations for the first seven courses and awards Certificates and Diplomas to successful candidates. The Ministry of Communications holds the C.O.P. examinations in Wireless Telegraphy in this Institute once a year.

Rev. E. Conesa, S.J., *Principal*.

STATE COUNCIL OF TECHNICAL EDUCATION STATE OF BOMBAY.

C/o Department of Technical Education, Elphinstone Technical High School Building, Dhobi Talao, Bombay.

The functions of the Council are to advise Government and make recommendations regarding : the courses and standards of instruction in technical institutions ; arrangements for the periodical inspection and examination of these institutions as regards their staff, accommodation, equipment, courses of study, methods of work and actual work done ; the requirements of the State in Technical and Industrial Education ; opening of new technical institutions ; conditions of recognition of new institutions ; payment of grants-in-aid to institutions ; appointment of Boards of studies for the various branches of Engineering and Technology ; arrangements for examinations ; award of certificates and diplomas ; preparation of textbooks on Technical subjects in Hindi and the regional languages and co-ordination work of the Trg. Institution centres under the Scheme for Technical and Vocational Training of Craftsmen.

Government have also vested the control of all Technical and Industrial Institutions or courses leading upto the Diploma standard (Non-University Grade) excluding courses falling under the control of the University in the Director of Technical Education, Bombay State, Bombay.

TEACHERS' TRAINING ACADEMY

Bharda New High School, Waudby Road, Bombay 1.

Principal :—J. H. Trivedi, B.A. *Secretary* :—B. M. Kapadia, M.Sc., B.T.

VICTORIA JUBILEE TECHNICAL INSTITUTE

(Central Technological Institute, Bombay).

The Institute offers courses leading both to Degrees and Diplomas in Technology. The curriculum is one of four years for diplomas which are granted in the following technologies :—Mechanical Engineering (L.M.E.) ; Electrical Engineering (L.E.E.) ; Textile Manufactures (L.T.M.) ; Technical Chemistry (L.T.C.) and Civil and Sanitary Engineering (L.C. & S.E.) ; Post Diploma Course in Automobile Engineering.

The Institute is affiliated to the University of Bombay for the Degree courses in Mechanical, Electrical & Civil Engineering, and Textile Manufactures. The number of students admitted to each course is very limited, *viz.* : Mechanical Engineering—35 ; Electrical Engineering—35 ; Civil Engineering—70 ; and Textile Manufactures —20.

Three new post-graduate courses in Industrial Management leading to the Diploma of D.I.M., and in Automobile Engineering leading to the Degree of M.E. (Auto.) and Textile Technology leading to the degree of M. Text. have been started. Admission—D.I.M. 20, M.E (Auto.) 10 and M. Text. 10.

The Institute offers part-time courses for persons who are working in the industry. It conducts the City and Guilds of London Institute Technological Examinations. It also conducts examinations on behalf of the Institution of Mechanical Engineers and other similar professional institutions.

Principal.—P. B. Sen Gupta, B.Sc. (Engg.), M.I.E. (Ind.), M.I.Mech. E. (Lond.).

MISCELLANEOUS

ALLIANCE FRANCAISE DE BOMBAY

French Bank Building, 62, Homji Street, Fort, Bombay.

The aim of the Alliance Francaise is to make known French language, thought and culture.

Office-Bearers :—D. B. D. Tata, *President* ; Rev. Fr. J. Duhr, *Vice-President* ; E. Finot, *Honorary Treasurer*.

ANGLO-SCOTTISH EDUCATION SOCIETY

(See Cathedral & John Connon Schools).

6, Outram Road, Fort.

Principal, B. Gunnery, M.A. (Oxon.).

ANJUMAN-I-ISLAM

92, Dr. Dadabhoy Naoroji Road, Bombay 1.

The Anjuman-i-Islam originally founded in 1875, is an association registered under the Indian Companies Act. It conducts :

3 Boys' High Schools ; 1 Boys' Middle School ; 1 Technical High School (with a section of 9 Trade Courses) ; 2 Commercial High Schools ; 6 Girls' High Schools with Primary Sections ; 1 Urdu Research Institute for Post-Graduate Studies ; 1 Public library and reading room ; 1 Boys' Hostel ; 1 Night School for adults ; and 1 Children's Foundling Home ; 1 Girls' Orphanage.

President.—Akbar A. Peerbhoy, Bar-at-Law. ; *General Secretary*.—S. S. Desnavi, B.Sc., B.T.

AYURVIDYA PRASARAK MANDAL

(Ayurvedic Hospital and College).

Near Sion Railway Station, Sion, Bombay 22.

President : Vaidya G. V. Puranik ; *Donor Trustee :* Bhagwandas Dharamdas ; *General Secretary and Dean :* Dr. T. R. Naravane.

BALAK MANDIR

C/o P. K. V. Samaj, Gamdevi, Bombay 7.

The Institution was founded in June 1949 by the Pathare Kshatriya Vaktrutwottejak Samaj to impart education to children through Montessori methods by trained teachers and is open to all irrespective of any caste or creed.

Chairman.—Trimbak Atmaram Gharat.

Hon. Secretary.—Gangubai Vasant Dholekar.

Hon. Treasurer.—Jayant Moreshwar Pathare, B.Com.

BANKERS TRAINING COLLEGE

Metropolitan Insurance House, 278, Dr. Dadabhoy Naoroji Road, Bombay 1. Conducted under the auspices of the Reserve Bank of India.

Principal.—J. N. Ahuja.

BHARATIYA VIDYA BHAVAN

Chowpatty Road, Bombay 7.

Bharatiya Vidya Bhavan, a unique educational institution, conducts Shastric studies on indigenous lines, Indological research on lines developed in the West and the dynamic cultural activities of resurgent India looking forward to the future. It conducts (i) Sanskrit Mahavidyalaya for Shastric studies, (ii) Gita Vidyalaya for study of Hindu religion, (iii) Samabodhan Mandir for Post-graduate studies and research in Indology, (iv) Saraswati Mandir for fine arts and handicrafts, (v) Sangit Shiksha Pith, (vi) Bharatiya Nartan Shiksha Pith, (vii) M. M. Arts College and N. M. Institute of Science, Andheri, affiliated to the Bombay University for B.A. & B.Sc. courses, and (viii) Publishes University Books, the *Bharatiya Vidhya*, an Indological Quarterly, is publishing a *History and Culture of the Indian People* in ten volumes, a fortnightly English journal, "Bhavan's Journal" and *Bharati*, a Hindi fortnightly, incorporating "Kulapatis Letters on Life, Literature and Culture". It conducts, under the auspices of the Sanskrit Vishva Parishad, examinations in easy Sanskrit on all India basis and in which a large number of students appear. Its research work consists of 36 volumes published, an equal number under print and more under preparation. Many Chairs and scholarships are established for study and research. The library and museum have valuable collections. Many scholars of all-India reputation are on the staff.

Founder-President.—K. M. Munshi.

BOMBAY CITY SOCIAL EDUCATION COMMITTEE

Bombay.

The Committee imparts Social Education including instruction in community and individual health, hygiene, civics and literacy both in theory and practice.

The Committee carries on the campaign in accordance with the Ten-Year Plan supplemented by "New Approach" for liquidating illiteracy within ten years. However the Plan could not succeed due to want of funds and to extension of its jurisdiction to Greater Bombay. It has now a Fifteen Year Plan for educating 6,75,000 illiterate men and women at an aggregate cost of Rs. 92,06,815.

The Committee has a Special Scheme for educating workers in mills and factories also.

Activities :—The Committee runs 2,000 literacy and 600 post literacy centres per year in Marathi, Gujarati, Hindi, Urdu, Kannada and Telugu ; arranges cultural programmes every week ; cinema programmes every day ; circulates library boxes ; science and other exhibitions for the enlightenment of the illiterate masses, cleanliness squads, etc. It has also established 14 Community Radio Centres in the labour areas. It has organised a Matru Vikas Kendra for women and a special Research Department for Social Education.

Finances :—The annual expenditure is about Rs. 3,50,000. The Government of Bombay pays 50 per cent of the annual expenditure and the Bombay Municipality contributes about 20 per cent. Amongst others, Sir Dorabjee Tata, Sir Ratan Tata Trusts and N. M. Wadia Charities make regular yearly contributions. A special annual feature is the Social Education Week celebration to collect funds and to propagate social education.

Achievements :—In the last 18 years, the Committee has educated in literacy and general knowledge in Marathi, Hindi, Urdu, Gujarati and Telugu languages more than 270,000 adults of whom 71,000 were women at a total cost of Rs. 36,91,504. Adults are provided with all educational facilities free.

President.—Champaklal G. Modi. *Secretary.*—B. M. Kapadia.

BOMBAY CO-OPERATIVE SCHOOL

Dhannur Building, 4th Floor, Sir P. M. Road, Bombay 1.

Principal : Prof. Ram Joshi.

BOMBAY EDUCATION LEAGUE

320, Girgaum Road, Bombay.

AIMS AND OBJECTS :—Educational uplift of masses backward in education. Branch of Maratta Mandir Ltd.

INSTITUTIONS UNDER CONTROL :—Three High Schools and one Primary School in Bombay ; one High School and one Training College at Akalkot ; one High School at Jath ; one Hostel for Students in Sholapur.

BOMBAY EDUCATION SOCIETY

Clare Road, Byculla.

The Bombay Education Society was founded in 1815 by Archdeacon Barnes for the maintenance and education of poor European and Anglo-Indian children in the city of Bombay.

President.—The Rt. Rev. the Bishop of Bombay ; G. Gardner Lewis, *Chairman. Managing Committee :* The Rev. C. W. Venkataramiah, *Hon. Secretary ;* P. J. Thomas, G. H. Furness, *Hon. Treasurers ;* W. R. Coles, B.A., Headmaster, Barnes High School, Deolali, Nasik Dist. ; The Rev. K. F. MacGowan, M.A., Headmaster, Christ Church High School, Byculla, Bombay.

The Society owns and manages two schools—the Christ Church High School at Byculla and the Barnes High School at Deolali.

BOMBAY EDUCATIONAL LEAGUE

(Estd. 1933)

Shri Bhuwan, IInd Floor,

169/20, Thakurdwar Road, Bombay 2.

The Institution runs the Colaba Night School, and is attended by two hundred students from all communities who belong to the working class.

President :—Murarji J. Vaidya.

Chairman :—A. P. Pardeshi.

Vice-Presidents :—Yusuf S. Peerbhoy, Jamshedji Nusserwanji Guzdhar, Pandit Madhavacharya ; *Secretary :*—J. T. Shirsat ; *Hon. Principal :*—S. C. Sheth.

BOMBAY STATE CO-OPERATIVE UNION

Sir Vithaldas Thackersey Memorial Building, 9, Fakeshouse Lane, Fort, Bombay 1.

Apex body for Co-operative Education, Training and Propaganda in Bombay State.

Chairman : V. L. Mehta ; *Vice-Chairman :* Prof. D. G. Karve ; *Hon. Secretary :* V. P. Varde ; *Executive Officer :* R. M. Talpade.

THE BRITISH COUNCIL

REGIONAL OFFICE AND LIBRARY.—French Bank Bldg., 4th Floor, Homji Street, Fort.

The British Council is a body under Charter to Her Majesty the Queen and is the principal agent of Great Britain for the development of cultural relations with foreign and Commonwealth countries. It works in some sixty countries, in addition to extensive activities in the United Kingdom itself.

Its purpose and work are to convey knowledge of Britain to other countries. This it does by encouraging the flow of knowledge, ideas, and understanding between the technical, professional, and learned men or societies of Britain and those of countries abroad ; it assists in English Language teaching and in the promotion of English studies; it awards a small number of scholarships each year for post-graduate study in Britain; it concerns itself with the welfare of overseas students in Britain, and maintains centres in most of the university towns ; it arranges courses and programmes of a professional nature for visitors to Britain, and it has administrative and welfare responsibilities for fellows and scholars of the United Nations agencies, for Colombo Plan trainees, and for beneficiaries under the Commonwealth Universities Interchange Scheme.

The Bombay Library and Reading Room contains 15,000 books on literary and technical subjects, and a large collection of over 200 periodicals.

***Headquarters :* 65, Davies Street, London W. 1.**

***Headquarters in India :* New Delhi.**

Other Regional Offices in Calcutta and Madras.

CHANDRASENIYA KAYASTHA PRABHU EDUCATION SOCIETY, DADAR, BOMBAY

2 Bhaskar Bhau Wadi, Gamdevi, Bombay 7.

***President :* Rao Bahadur B. H. Shringarpure, B.A., LL.B. ; *Chairman :* V. G. Mokashi, B.Com. ; *Secretary :* V. S. Chaubal, B.A. (Hons.), B.T., M.Ed.**

THE REV. D. G. D'ALMEIDA EDUCATIONAL FUND

Victoria Cottage, 38 St. Sebastian Colony, Bandra, Bombay 20.
Secretary : D. E. Pereira, A.C.R.A.

THE DADAR PARSEE YOUTHS' ASSEMBLY

Pervis Hall, 800, Jam-e-Jamshed Road, Parsee Colony, Dadar.

S. S. C. & Pre-S. S. C. Classes, Commercial Classes, Hindi Classes, Shorthand & Typing Classes, Loaning of Books to students and Small Industries.

President : R. J. Mithaiwalla, B.A., LL.B. ; *Vice-President :* R. B. Kakalia ; *Hon. Secretary :* D. D. Kapadia, B.A., LL.B., Advocate, High Court.

THE DAWOODBHOY FAZALBHOY MUSLIM EDUCATIONAL TRUST

42, Pydhoni Road, Bombay 9.

Trustees : Mrs. Fatmabai D. Fazalbhoy, E. A. Karim Panjoo, Y. C. Chinwala and D. G. Esmail.

DAWOODBHOY FAZALBHOY NURSERY SCHOOL

42, Pydhonie Road, Bombay.

DEVIDAS JIVANDAS SANSKRIT PATHSHALA

129, Gulalwadi, Bombay 4.

Free Teaching Classes of Sanskrit Language.

FIDAI ACADEMY

Fidai Baugh, Marzban Road, Andheri (Bombay).

Hon. Secretary : Alibhoy Premji Tyrewalla.

FIDAI GIRLS EDUCATIONAL INSTITUTE

Fidai Baugh, Marzban Road, Andheri (Bombay.)

Hon. Secretary : Alibhoy Premji Tyrewalla.

GENERAL EDUCATION ACADEMY

65, Babu Genu Road, Bombay 2.

A private organisation for the promotion of Education among the masses. Thesis on educational matters particularly Hindi translation of scientific and technical subjects considered for publication. Rare books and hand written manuscripts bought.

Director :—Hari Prasad Gupta.

GENERAL EDUCATION INSTITUTE

Dadar, Bombay 28.

OBJECT : Promoting education among the masses.

The Institute at present conducts the following institutions :—

Chhubildas Lulloobhoy Boys' High School, Dadar, Bombay ; The High School, Kalyan ; New High School, Kalyan ; M. H. High School, Thana ; Native Institution, Uran, District Kolaba ; Girls' High School, Dadar, Bombay ; English School, Mahim, Bombay ; Parsharam Ramnarayan High School, Bhivandi, District Thana ; S. V. Joshi High School, Dombivli, District Thana ; High School, Kuria ; The Chhubildas Lulloobhoy Primary School, Dadar, Bombay.

President :—The Hon'ble Shri Justice P. B. Gajendragadkar.

Vice-Presidents : R. G. Gokhale, N. V. Modak, W. P. Oka.

Chairman, Board of Directors : G. S. Diwan.

Secretary :—S. V. Kulkarni, B.A. (Hons.), B.T.

GOKHALE EDUCATION SOCIETY

Vithalbhai Patel Road, Bombay 4.

The objects of the Society are :—1. To start, control and maintain institutions imparting education to students with a view to making them ideal citizens. 2. To encourage and facilitate among the life-workers of the Society the study of educational problems in India and other countries. 3. To carry on educational propaganda by means of lectures, publications and other means. The present number of life-members is eleven.

The affairs of the Society are managed by a Senate which consists of all the Life-members of the Society, retired life-members and representatives of the Staff.

GOLWALLA'S FORT TUITION CLASSES

Bombay Mutual Building, Dadabhoy Naoroji Road, Fort, Bombay.

PRINCIPAL AND PROPRIETOR.—Ervch R. Golwalla.

GOVT. TANNING INSTITUTE

Khar (East), Bombay 21.

Tanning Expert & Superintendent : N. N. Guha ; *Asst. Superintendent :* V. G. Damle.

GOVERNMENT TRAINING INSTITUTE FOR PHYSICAL EDUCATION

Kandivali, Bombay 47.

The Institution is located on a hill a little more than a mile from Kandivali Station on the eastern side.

The academic year is from 1st September to 31st May.

Admission is open to university graduates. The institution is wholly residential with separate accommodation for 80 men and 20 women.

Diplomas are awarded to the successful candidates after an examination.

Principal, D. B. Kothiwale, B.A., M.Ed., D.P. (Edin.).

HIND EDUCATION SOCIETY

C/o Dr. S. J. Patkar, Dossa Bldg., Nowrojee Hill Road No. 7, Bombay, 9.

President : P. G. Manjrekar ; *Vice-President :* S. M. Thakare, J.P. ; *Secretary :* Dr. S. J. Patkar, M.B.B.S., J.P.

THE INDIAN INSTITUTE OF EDUCATION

Jinnah Hall, First Floor, Congress House, Girgaum, Bombay 4.

An Educational Research Institute—(*i*) Guides post-graduate students of the University of Bombay, (*ii*) Publishes educational researches.

Chairman : N. P. Samant, B.A., LL.B. ; *Director :* R. V. Parulekar, M.A., M.Ed. (Leeds) ; *Hon. Secretary :* V. P. Khanolkar, M.A. (London).

INDIAN STATISTICAL INSTITUTE

(Bombay Branch)

1st Floor, Jan Mansion, Sir P. M. Road, Bombay 1.

Telegrams : 'ISIBOM'

OFFICE-BEARERS :—Dr. Jivraj N. Mehta, *President ;* L. S. Vaidyanathan, R. G. Saraiya, Dr. N. S. R. Sastry, *Vice-Presidents ;* M. A. Telang, *Joint Secretary ;* Dr. D. T. Lakdawala, *Treasurer.*

INSTITUTE OF SECRETARIES

Lentin Chambers, Dalal Street, Fort. (Tel. No. 253426).

Chairman.—C. C. Sutaria, F.C.C.S., F.A.I.A., F.R. Econ. S. (Lond.).
Hon. Secretary.—S. A. Golvala, F.B.A.A., A.A.C.A., A.I.C.S.
Hon. Treasurer.—P. L. Kapadia, B.Com., F.C.A.

THE INSTITUTE OF VOCATIONAL GUIDANCE

3, Cruickshank Road, Elph. Tech. High School Bldg., 1st Floor, Bombay 1.

JAIN EDUCATION SOCIETY

14, Marzban Road, Fort, Bombay 1.

Manager : Bachubhai P. Doshi, B.A.

KARNATAK PROGRESSIVE EDUCATION SOCIETY BOMBAY

4 (105), Sewree Wadala North Estate, P.O. Wadala, Bombay 31.

The object of the Society is to advance loan scholarships to poor and deserving scholars prosecuting higher studies in Engineering, Medical and other Technological Institutions. It is open to scholars of all Communities in the Kannada speaking areas of the Indian Union or whose parents originally belonged to such areas.

Loan Scholarships granted—to 100 scholars to the extent of Rs. 1,11,500 till 30-6-1957. Reserve Fund :— Rs. 55,000 till 30-6-1957.

President : R. G. Deshpande, M.A. ; *Managing Committee : Chairman* R. J. Deshpande ; *Treasurer :* R. L. N. Iyangar ; *Hon. Secretary :* K. S. Bhujang.

KISHINCHAND CHELLARAM (EDUCATIONAL) TRUST

Gazdar House, Dhobi Talao, Bombay 2.

OBJECTS.—To spread and promote and or provide for general Commercial, Industrial or Technical Education by providing for or granting scholarships, studentships, stipends, travelling fellowships or periodical or occasional monetary help or assistance to deserving students.

TRUSTEES.—Hotchand Gopaldas Advani, Bar-at-Law ; K. Lokumal ; T. Murli ; Purshotamdas H. Sabnani ; Vishindas Glanchand Motwani ; Watumal Jhamandas ; Gobindram Hassaram ; R. B. Lalchand Watanmal ; Manghanmal Udharam ; T. Pishu ; K. D. Kirpalani.

K. R. CAMA ORIENTAL INSTITUTE

136, Apollo Street, Fort, Bombay.

OBJECTS.—The Institute has been founded with the object of promoting and advancing oriental studies and offering facilities to the existing societies and institutions already engaged in such work, and if necessary by founding scholarships for the purpose of encouraging and advancing oriental studies. The Institute publishes a journal periodically. Life-membership subscription, Rs. 100, annual membership, Rs. 10.

PRESIDENT.—Sir Rustom Masani, Kt., M.A.

TRUSTEES.—Sir R. P. Masani, Kt., M.A.; Rustam J. J. Modi, Bar-at-Law; J. H. Cama, B.A.; K. H. Cama; N. H. Tata and T. D. Desai, B.A., LL.B.

JT. HON. SECRETARIES.—J. C. Tarapore, M.A., LL.B.; Dastoor Nawrooz D. Minocheh-Homji, B.A.; *Librarian*, K. P. Dastur, M.A.

LOCAL SELF-GOVERNMENT INSTITUTE

11, Elphinstone Circle, Bombay 1.

Association of Municipalities and other Local Bodies in Bombay State, established in 1927.

Conducts training classes for Local Self-Government Service, awards L.S.G. Diploma, recognised by the Ministry of Health and various State Governments.

Maintains a big library and runs a book depot of publications on Local Self-Government subjects, conducts four journals in English, Marathi, Gujarathi and Hindi.

Tenders free legal and technical advice to Local Bodies, acts as Central Stores Purchasing Agency, holds periodical Conferences of Local Bodies, and renders other numerous services.

THE M. F. CAMA ATHORNAN INSTITUTE

Office : 24-26, Dalal Street, Fort, Bombay 1.

Institute : Cama Road, Andheri, Bombay 41.

President : J. H. Cama; *Secretary :* J. R. Mistry; *Acting Principal :* F. P. Patel.

PARSEE GIRLS' SCHOOL ASSOCIATION

42, New Marine Lines, Bombay 1.

This Association conducts two schools, Bai Bhikhaijee Shapoorjee Bengalee Girls' High School, Fort, and Bai Maneckbai Nowrosji Gamadia Girls' High School.

Hon. Secy., Mrs. J. B Godrej.

PEOPLE'S EDUCATION SOCIETY, BOMBAY

Anand Bhavan, Near Flora Fountain,
Dr. Dadabhoy Naoroji Road, Fort, Bombay 1.

The Society was founded in 1945 by the late Dr. B. R. Ambedkar. Its object is to bring college education within the reach of the middle and poorer classes. It gives special facilities to the Scheduled Caste and Backward Class Students.

GOVERNING BODY. *Chairman :* R. R. Bhole, B.Sc., LL.B.; *Deputy Chairman :* Barrister M. B. Samarth; *Members :* D. G. Jadhav; G. T. Parmar; S. K. Bole; H. K. Patel; Prof. Y. G. Rao, B.A. (Cantab.), LL.B., Bar-at-Law, O.S., J.P.; C. N. Mohite; M. V. Donde, B.A.; D. B. Kamble, M.A., LL.B., I.A.S.; B.H. Varale.

Secretary.—N. M. Kamble, B.Sc.

The Society runs three colleges, one High School and one Night High School. (1) Siddharth College of Arts and Science, (2) Siddharth College of Commerce and Economics, (3) Milind Mahavidyalaya, Aurangabad, (4) Siddharth College of Law, (5) Milind Vidyalaya, Aurangabad and (6) Siddharth Night High School, Bombay.

The Society also maintains a Backward Class Hostel at Pandharpur and gives grants to Backward Class Hostels at Manmad, Nandurbar, Chalisgaon, Sangamner, Dapoli, Dholka, Nipani and Patan.

RAO BAHADUR S. V. RAJADHYAKSHA G. S. B. FOREIGN EDUCATION SOCIETY

Chikitsaka Samuha Building, Kandewadi, Bombay 4.

FUNDS.—The Permanent Fund of the Society amounted to Rs. 2,12,002 on 31st December 1955.

LOAN-SCHOLARSHIPS GRANTED.—50 students have been granted loan-scholarships of the aggregate sum of Rs. 2,26,922 during the last 33 years.

MANAGING COMMITTEE :—*Chairman :*—Dewan Bahadur Dr. J. S. Nerurker; *Vice-Chairman :*—G. P. Murdeshwar; *Hon. Treasurer :*—V. M. Telang; *Hon. Secretaries :*—K. S. Laud and Y. H. Sukthankar.

SARASWAT VIDYARTHI SAHAYAK MANDALI

OFFICE.—Chikitsaka Samuha Building, Kandewadi, Bombay 4.

WORK DONE.—The Institution has advanced in all nearly Rs. 4,93,423 to 2,062 poor and deserving students from all parts of the country to get an education and has built up a Reserve and Endowment Fund of Rs. 6,01,970.

Trustees :—Dewan Bahadur Dr. J. S. Nerurkar; S. A. Sabnis; Y. H. Sukthankar.

Chairman :—G. H. Jambotkar.

Hon. Secy. : J. S. Rege.

Hon. Treasurer : M. S. Kear.

SCHOOL OF DRAMATIC ARTS

Bhulabhai Memorial Institute, 89, Bhulabhai Desai Road, Bombay 26.

The School was founded and is managed by the Theatre Unit. It consists of two class rooms, library, an open air theatre and a workshop with electrical and mechanical tools. It has the latest teaching aids, two tape recorders, an epidiascope and a film projector.

Sessions begin in July. The School provides a 2-year Course in Dramatics (theory and practice) plus an optional 1-year Post Graduate Course. The syllabus covers, in addition to Acting, the History of Eastern and Western Drama, Speech training, and Movement (including Mime). Classes are held in the evenings only, from 6-30 p.m. to 9 p.m. and are conducted in English. Hindi is compulsory.

The Staff consists of the Principal, who is the Chief Instructor in Acting and Production, a Teacher of Speech, an Assistant Teacher of Acting and a Lecturer on Western Drama.

Fees.—Rs. 20 per month, including vacations.

***Principal.*—E. Alkazi.**

SHRI MAHAVIRA JAINA VIDYALAYA

Gowalia Tank Road, Bombay 26.

On the advice and guidance of Acharya Shri Vijayavallabhasuriji was started an Institution, which amongst its multiple aims includes founding useful secular and religious institutions, giving special facilities to students for prosecuting their studies in different colleges and universities as well as encouraging studies of Sanskrit and Prakrit literature.

In furtherance of the above objects, a *Vidyarthigriha* was started, at Bombay in 1915.

SHRIMALI BRAHMAN SAMAJ

129, Gulalwadi, Bombay 4.

Free distribution of Books for study of School and College to the students of Shrimali Brahman.

TATA INSTITUTE OF FUNDAMENTAL RESEARCH

Apollo Pier Road, Bombay 1.

The Tata Institute of Fundamental Research was established jointly by the Government of Bombay and the Trustees of the Sir Dorabji Tata Trust in June 1945. The object of this all-India Institute is fundamental research in Physics, Mathematics and allied sciences. The Institute is permanently recognised by the University of Bombay as a constituent recognized institution for post-graduate research in physics and mathematics.

Though, at its inception, the Government of India was not directly concerned with the Institute, it has provided grants since 1948. In view of the increasing financial assistance given by the Government of India, which latterly contributed over 90% of the Institute's budget, a tripartite agreement was entered into between the Government of India, the Government of Bombay and the Sir Dorabji Tata Trust, and came into force on April 1, 1956. This agreement, under which the Government of India recognises the Institute as the National Centre for advanced study and fundamental research in nuclear science and mathematics, provides for its administration by a council consisting of representatives of the 3 parties, the Government of India having a major voice.

Till the Atomic Energy Establishment of the Department of Atomic Energy was created, the Department recognised the Institute as the centre for all large-scale projects in nuclear research and entrusted to it important research projects in which it was interested. With the creation of the Atomic Energy Establishment such projects have been taken over by the Establishment; however, pending the construction of its own laboratories at Trombay, facilities are being provided at the Institute to divisions of the Engineering and Physics Groups of the Establishment.

COUNCIL

J. R. D. Tata (*Chairman*); S. Ratnam; V. T. Dehejia, I.C.S. Professor R. Choksi, M.A.; Dr. H. J. Bhabha, D.Sc., F.N.I., F.R.S.

STAFF

Academic

Dr. H. J. Bhabha, D.Sc., F.N.I., F.R.S., *Director and Professor of Theoretical Physics*; Professor K. Chandrasekharan, Ph.D., *Professor of Mathematics*; Professor D. D. Kosambi, *Professor of Mathematics*; Professor B. Peters, Ph.D., *Professor of Experimental Physics*; Dr. D. Y. Phadke, Ph.D., *Associate Prof. of Experimental Physics*; Dr. S. S. Dharmalli, Ph.D., *Reader in Experimental Physics*; Dr. B. V. Thosar, Ph.D., *Reader in Experimental Physics*; Dr. M. G. K. Menon, Ph.D., *Reader in Experimental Physics*; Dr. K. G. Ramanathan, Ph.D., *Reader in Mathematics*.

Administrative

E. C. Allardice, I.C.S. (Retd.), *Deputy Director (Administration)*; N. R. Puthran (*Registrar and Secretary to the Council*).

TATA INSTITUTE OF SOCIAL SCIENCES

Chembur, Bombay 38.

Board of Trustees.—Lady Ratan Tata; Sir H. P. Mody (*Chairman*); J. R. D. Tata; Dr. John Matthai; A. D. Shroff; N. H. Tata; *Professor* R. Choksi (*Managing Trustee*).

Governing Board.—Prof. R. Choksi (*Chairman*); N. H. Tata; D. R. D. Tata; K. G. Saiyidain; D. S. Nakia; P. A. Narielwala; A. D. Gorwala; Col. L. Sawhny; Prof. A. R. Wadia; L. S. Kudchedkar (*Secretary*).

The Tata Institute of Social Sciences was founded in June, 1936—then known as Sir Dorabji Tata Graduate School of Social Work—by the Trustees of the Sir Dorabji Tata Trust. Admission to the Institute is open only to graduates of recognised universities. The Institute offers a two years' training in professional social work on the successful completion of which a Diploma in Social Service Administration is awarded. The Courses of specialisation include Labour Welfare and Industrial Relations, Family and Child Welfare, Medical and Psychiatric Social Work, Community Organisation and Development, Criminology, Juvenile Delinquency and Correctional Administration, Social Research, Rural Welfare and Tribal Welfare.

The Institute also offers one-year programmes of training in Applied Psychology and Social Research, and six months' programmes of training in (1) Criminology, juvenile delinquency and correctional administration, (2) Institutional care, (3) Organisation of Community Welfare Centres, (4) Rural Welfare and (5) Labour Welfare and Management.

In addition to the training programmes, the Institute maintains a Department of Research which promotes research in social problems. Under the auspices of the Department of Publications *The Indian Journal of Social Work* is published every quarter and edited by the Director of the Institute.

Among other activities of the Institute are the Child Guidance Clinic and the special school for bedridden hospitalised children located in the Jerbai Wadia Hospital for Children, Parel, Bombay, and a community welfare centre in Worli, Bombay. Psychological and Group Work Laboratories are also being equipped to provide facilities for practical work.

The Social Education Organizers' Training Centre is under the management of the Institute.

Director.—Professor A. R. Wadia, M.P.

Registrar.—L. S. Kudchedkar, M.A., Associate of Institute of Education (London).

UNIVERSITIES INFORMATION BUREAU

University of Bombay, Fort, Bombay 1.

Secretary.—H. M. Remedius, M.A., Dip. Lib.

The Bureau collects and supplies information in regard to Indian and Foreign Universities, other educational Institutions, training centres or industrial works and aids students to secure admission to institutions in foreign countries.

UNIVERSAL HEALTH INSTITUTE, BOMBAY

Office: Buddha Bhavan, Outram Road, Fort, Bombay 1.

Hospital: Nilam Mansion, Lamington Road, Bombay 4.

Scientific investigation and medical aid.

President: Morarji R. Desai; *Chairman:* Gulzari Lal Nanda; *Hon. Secretary & Treasurer:* Ishwardas P. Parekh, M.L.A.

All donations to the Institute & Hospital are free of Income Tax under item No. 484 allotted to the Institute under Sec. (1) of Sub-Sec. 15-B under Notification Nos: 18 & 48 of 25-3-52 & 13-8-54.

WESTERN HIGHER TECHNOLOGICAL INSTITUTE

The Institute was expected to start functioning in July, 1958.

It is the second in the chain of four such institutes to be set up in the country. The first is located in Kharagpur.

To begin with, the Institute will function at the newly-constructed premises of the Silk and Art Silk Research Association at Worli, but it will move into its permanent home on the 550-acre site on the banks of Powai lake in July 1959.

In the beginning, 100 graduates and 50 post-graduates will be admitted into the Institute for courses in civil, mechanical and electrical engineering, chemical engineering and metallurgy.

But when completed, the Institute will have 2,000 resident students and will be one of the biggest and most up-to-date institutions of its kind in Asia.

The Institute will function as an autonomous body and will be declared, like the Kharagpur Institute, an institution of national importance by an act of Parliament as soon as possible.

A board of governors under the chairmanship of Mr. Kasturbhai Lalbhai for the administration and management of the affairs of the Institute is being set up.

The Bombay Government has placed at the disposal of the Central Government a 550-acre site near Powai Lake free of cost for the Institute. Construction of buildings was expected to begin at any time.

UNESCO has agreed to assist in the establishment of the Institute with 15 experts, three translators and a substantial amount of equipment from the U.S.S.R.

Thirteen Soviet experts and three translators have already arrived in India. Orders for equipment costing Rs. 54·61 lakhs have already been placed and part of the equipment has also started arriving.

UNESCO in its programme for 1958 has made a provision of about Rs. 12·5 lakhs.

The total UNESCO contribution is Rs. 1·5 crores. The Government of India will spend about Rs. 5 crores.

The U.N. team of experts is headed by Dr. Martin Ovsky and is helping to set up the Institute.

THE VAISHYA VIDYA VARDHAK SAMAJ, BOMBAY

33 G, Vithal Mandir, Mugbhat Cross Lane, Bombay 4.

Educational Charitable Institute.

President: D. L. Hegishte; *Secretary:* V. S. Khatu, B.A. (Hons); *Treasurer.* P. H. Helekar.

WORKERS' EDUCATIONAL SERVICE LEAGUE, BOMBAY

Municipal Central Urdu School Bldg., New Nagpada.

This Institution conducts a full-fledged free Night High School at the Municipal Central Urdu School Building, New Nagpada, under a trained and qualified staff. It also runs a Commercial Class under a qualified Instructor.

YOUNG MEN'S EDUCATION SOCIETY

179, Basargate Street, Bombay.

AIMS AND OBJECTS.—To conduct the Young Men's Free Night High School and to impart free education irrespective of caste or creed.

Founder.—Y. P. Puthran.

President.—D. P. Puthran; *Vice-President.*—L. Y. Salian. *General Secretary.*—S. K. Ranchan; *Asst. Secretary.*—V. S. Shetty; *Hon. Gen. Treasurer.*—P. A. Kunder; *Officer-in-Charge.*—C. T. Salian.

HOSPITALS, MATERNITY AND NURSING HOMES, CONVALESCENT HOMES & SANATORIA, CLINICS, DISPENSARIES IN GREATER BOMBAY

HOSPITALS

ADAMS-WYLIE MEMORIAL HOSPITAL

Wylie Road, Post Jacob Circle.

ADATIA'S GENERAL AND MATERNITY HOSPITAL

Jai Hind Estates, Bhuleshwar, Bombay 2.

AJINKYA MATERNITY AND GYNAECOLOGICAL HOSPITAL

204, Charni Road, Bombay 4 and Ajinkya Mansion, Hughes Road, Bombay 7.

Superintendent : Dr. Y. N. Ajinkya, M.M. (Lond.), F.R.C.S. (Edin.), F.R.C.O.G. (Lond.), D.Ch., R.C.P.S. (Eng.).

AJINKYA'S MATERNITY AND GYNAECOLOGICAL HOSPITAL

Khar Extension, 11th Road, Bombay 21.

Superintendent.—Dr. Y. N. Ajinkya.

ALBLESS OBSTETRIC HOSPITAL

Cruickshank Road, Fort.

AYURVEDIC HOSPITAL

Savitribhuvan, 87, Mughbhat Street, Bombay 4.

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There are also the following branches at Sion, Bombay 22 :
1. Shudhha Ayurved Maha Vidyalaya (Govt. Recognised).
2. Sheth Ramchoddas Varjeevandas Ayurvedic Hospital.
3. V. M. Charitable Ayurvedic Dispensary.

BAI JERBAI WADIA HOSPITAL FOR CHILDREN

Parel, Bombay. (Tel. 60494.)

Board of Management.

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BAI MOTLIBAI AND SIR D. M. PETIT HOSPITALS

Mazagon, Bombay.

These Hospitals are exclusively meant for the treatment of diseases of women (Obstetrics and Gynaecological). The hospitals accommodate 96 beds (56 obstetrics and 40 gynaecological) and are open to all nationalities.

Superintendent :—S. J. Mehta, F.R.C.S. ; *Honorary Consulting Physician :*—Major S. B. Mehta, F.R.C.S.E., I.M.S. (Retd.), Dr. V. N. Shirodkar, M.D., F.R.C.S. ; *Hon. Medical Officer and Professor of Obstetrics & Gynaecology.*—Dr. B. D. Patwardhan, M.D. ; *Hon. Medical Officers for Obstetrics and Gynaecology.*—Dr. (Smt.) J. M. Dean-Souza, M.D., F.R.C.S.E. ; Dr. Y. N. Ajinkya, M.M., F.R.C.O.G., F.R.C.S.E. ; *Hon. Medical Officer i/c Antenatal Deptt.*—Dr. M. K. Menda, M.D. ; *Resident Medical Officer.*—Dr. P. D. Patil, M.B.B.S., D.M.S. Cl. II.

BAI SAKARBAI DINSHAW PETIT HOSPITAL FOR ANIMALS

Govt. Gate Road, Parel.

President.—Sir Dinshaw Petit, Bart.
Vice-President.—Miss S. K. Powvala.
Secretary & Treasurer.—D. M. Mehta.

BAI YAMUNABAI L. NAIR CHARITABLE HOSPITAL

Dr. A. L. Nair Road, Jetha Street,

The Bai Yamunabai L. Nair Charitable Hospital provides free medical aid without distinction of caste, creed or colour. It also provides clinical facilities to the students of the T. N. Medical College. There are about 330 beds.

Dean.—Dr. Louis Monteiro, M.D.

DR. BALABHAI NANAVATI HOSPITAL

Ghodbunder Road, Vile Parle West (Opp. Juhu Aerodrome), Bombay 24.

Provision of free gynaec, maternity, medical and surgical treatment for poor patients, to all communities ; facilities for special rooms also available. Deserving patients are treated at concessional rates. Fully equipped laboratory, X-ray, dental and ophthalmic departments. Casualty department open at all hours. (Tel. 86868).

BOMBAY MUNICIPAL CORPORATION, DR. BHAJEKAR HOSPITAL

Dr. Bhajekar Street, off Sardar Patel Road, Bombay 4.

BHATIA GENERAL HOSPITAL

Chikalwadi, Tardeo Road, Bombay 7.

BOMANJEE DINSHAW PETIT PARSEE GENERAL HOSPITAL

Bomanji Petit Road, Cumballa Hill, Bombay 26.

Erected for the use of Parsees from subscriptions by the Parsees.

President.—Maneckji D. Petit.

Vice-President.—H. P. Dastur, Kt. *Honorary Medical Secretary*—Dr. H. S. Mehta, M.S., F.C.P.S., J.P.

BOMBAY HOSPITAL

12, Marine Lines, Bombay 1.

This hospital is run by the Bombay Hospital Trust, a public charitable institution. Hospital has out-patient and in-patient wards. The in-patient ward accommodates 287 patients.

Chairman : R. D. Birla.
Hon. Secretary : B. D. Binani.
Dy. Hon. Secretary : S. G. Nevatia.
Superintendent : Dr. K. R. Tipnis.

BRAHMAN SABHA MHASKAR MATERNITY HOSPITAL

9, Benham Hall Lane, Girgaum, Bombay.

B.P.A. MUNICIPAL FREE EYE HOSPITAL

Main Street, Kamathipura, Bombay 8.

Surgeons.—Two Honorary Ophthalmic Surgeons attending on alternate days are Dr. V. V. Gupte and Dr. M. K. Sathe. (*Tel.* 41865).

BYRAMJEE JEEJEEBHOY HOSPITAL FOR CHILDREN

Mazagon, Bombay.

The Hospital is situated along Mazagaon Road, next to the Out-patient's Department of the J. J. Hospital. Number of beds 100 (50 medical and 50 surgical).

Superintendent.—Dr. S. J. Mehta, F.R.C.S. ; *Chief Hon. Pediatricians.*—Dr. P. M. Udani, M.D., D.C.H. ; Dr. B. D. Patel, M.R.C.P., D.C.H.

CAMA HOSPITAL FOR WOMEN AND CHILDREN
Cruickshank Road, Bombay.

STAFF.—Dr. (Smt.) M. J. Wadia, M.D., F.R.C.S.E., F.C.P.S., *Medical Officer-in-charge*; Dr. (Smt.) I. S. Amodkar, M.B.B.S., M.S. Cl. II, *Resident Medical Officer (Class II)*.

CHILDREN'S ORTHOPAEDIC HOSPITAL
Haji Ali Park, Clerk Road, Bombay 11.

President: Dr. A. V. Baliga, F.R.C.S. (Eng.).
Hon. Secretary: Dr. Mrs. Gulbanoo Premji, M.B.B.S. (Bom.);
Medical Director: Dr. Miss. P. K. Mullaferose, O.B.E., M.B.B.S. (Bom.), F.R.C.S. (Eng.)

CHOWPATTI MATERNITY & GYNAECOLOGICAL HOSPITAL
4, Chowpatty, Bombay 7.

CITY FEVER (INFECTIOUS DISEASES) HOSPITALS
Arthur Road, Jacob Circle, Bombay.

Medical Superintendent.—Dr. J. K. Thanawala; *Assistant Medical Officer.*—Dr. R. S. Deshpande.

EYE CLINIC AND HOSPITAL
375, Hornby Road, Opp. Flora Fountain.

Run by Dr. H. D. Pastoor, F.I.C.S., F.C.P.S., D.O. (Oxon.), D.O.M.S. (Lond.), Senior Ophthalmic Surgeon, J. J. Hospital and Professor of Ophthalmology, Grant Medical College, together with a full hospital staff.

FRACTURE AND ORTHOPAEDIC HOSPITAL
8, New Queen's Road, Bombay 4.

FRACTURE AND ORTHOPAEDIC HOSPITAL AND ACCIDENT CLINIC
(for Police cases).
395, Lamington Road, Bombay 4.

GOCULDAS TEJPAL HOSPITAL
Carnac Road, Bombay.

Superintendent: Dr. M. V. Modi, F.R.C.S. (Eng.).

GROUP OF T. B. HOSPITALS
Opp. Christian Cemetery, Jerbai Wadia Road, Sewri, Bombay 15.

Municipal T.B. Hospitals, viz. (1) Ramesh Premchand T.B. Hospital, started on 15-5-1948, (2) Old Maratha Hospital, (3) Turner Sanatorium, (4) an additional hospital called Bahadurji Block and (5) Ramkunwar Daftary T.B. Hospital and Clinic, Dadasaheb Phalke Road, Dadar, Bombay 14.

Elevation and Climate: Sea level; Maximum and Minimum temperatures are 85° to 90°F. in Summer and Autumn, 70° to 80°F in Winter respectively and average rainfall is 65 to 80 inches a year.

Patients are selected by Honoraries for admission at the G.T.B. Hospitals out of the patients referred by the different Municipal T.B. Clinics which are at (1) Princess Street, (2) Foras Road Junction and (3) Dadasaheb Phalke Road, Dadar. Facilities for A.P. and P.P. treatment exist at all the T.B. Clinics. Time 8 a.m. to 12 noon and 4 p.m. to 5 p.m.

Nos. 1 to 4: Near Elphinstone Road and Sewri Railway Stations of Western and Central Railways respectively.

No. 5 (R.D. T.B. Hospital and Clinic): Near Dadar Railway Station.

The hospitals are open from 8 a.m. to 6 p.m. (Emergency admission at any time throughout day and night).

There are 458 beds in the hospitals at Sewri. In Ramkunwar Daftary T.B. Hospital, Dadar, an Isolated Centre, there are 88 beds for advanced cases. No bed can be reserved. All treatment is free of charge. Facilities for Laboratory, X-ray, A.P., P.P., major and minor operations are available.

Medical Superintendent.—Dr. M. S. Kavarana, M.B.B.S., F.C.P.S. (Bom.), D.M.R.E. (Cantab.), T.D.D. (Wales).

HAJEE KARIM MOHAMMAD SULEMAN MATERNITY HOSPITAL
180, Kambekar Street, Bombay 3.

HARDEVI HOSPITAL
Kewal Nivas, 208-A, Shivaji Park Road No. 5, Mahim, Bombay 16.

Superintendent: Dr. J. C. Jethani, M.B.B.S.
Matron: Mrs. Hardevi. J. Jethani, B.A..
Receptionist & Sister: Miss Maina K. Panjwani, B.A.

JAMSETJEE JEEJEEBHOY HOSPITAL
Babula Tank Road, Byculla, Bombay 8.

Superintendent.—Dr. S. J. Mehta, F.R.C.S. (Eng.).

KANCHANGAVRI MANGALDAS PAREKH MATERNITY AND GYNÆCOLOGICAL HOSPITAL AND DISPENSARY
Dr. Bhajeker Street, Sardar Vallabhbhai Patel Road.

Honorary Staff.—*Hon. Consulting Obstetricians*, Dr. J. Jhirad, M.D. (Lond.); Dr. Chamanlal M. Mehta, F.R., F.P.S.G., L.M.; *Hon. Obstetricians*, Dr. Sarlaben L. Sheth, M.D., F.C.P.S.; Dr. Vasantiben K. Vakil, L.R.C.P., M.R.C.S., L.M.; *Hon. Physicians*, Dr. B. B. Yodh, M.R.C.P. (Lond.); Dr. K. U. Jhatakia, M.D.; *Hon. Surgeons*, Dr. Ramanlal T. Desai, F.R.C.S.E., D.L.O. (Lond); Dr. Mukundray K. Parikh, F.R.C.S. (Eng.); *Hon. Pædiatricians*, Dr. K. C. Shah, M.R.C.O.G. (Lond.), D.C.H.R.C.P. & S. (Eng.); Dr. Miss. Mira Shroff, M.D., D.C.H.; Dr. S. M. Merchant, M.D., D.C.H.; *Hon. Anæsthetists*, Dr. Janak H. Metha, D.A.; Dr. Jamnadas J. Merchant, M.B.B.S.; Dr. Jugalkishor J. Merchant, D.A.; *Hon. Pathologist*, Dr. Ramesh C. Desai, M.D. (Path.).

KHAN BAHADUR HORMUSJI BHABHA HOSPITAL
Old Agra Road, Kurla, Bombay 37.

Medical Officer-in-Charge: Dr. M. K. Panandikar, M.D., F.R.C.S.
Lady Doctor: Dr. P. T. Bhutani, M.B.B.S.

KHAN BAHADUR HAJI BACHOOALI FREE OPHTHALMIC HOSPITAL
Poibawdi, Parel, Bombay 12.

Chairman, Hospital Committee.—Dr. V. S. Talwalkar, D.O. (Oxon.); *Hon. Secretary and Hon. Superintendent.*—Dr. B. D. Telang, D.O.M.S. (Lond.).

KING EDWARD VII MEMORIAL HOSPITAL
Hospital Avenue, Parel.

The hospital accommodates 550 beds at present.

Dr. S. G. Vengsarkar, M.D., F.C.P.S. (Dean); Dr. V. V. Jadhav, M.B.B.S. (Asstt. Dean).

Hon. Physicians.—Dr. Mangaldas J. Shah, M.R.C.P., M.R.C.S., L.R.C.P., D.T.M. & H.; Dr. R. J. Vakil, M.D., M.R.C.P. (Lond.), F.R.F.P.S. Dr. J. C. Patel, M.D., M.R.C.P. (Lond.), Ph.D.; Dr. E. R. DeMello, M.D.; Dr. J. K. Mehta, M.D., M.R.C.P. (Lond); *Hon. Neuro Physician.*—Dr. E. P. Bharucha, M.D. (Bom.), M.D. (Lond); *Honorary Surgeons.*—Dr. K. G. Munsif, M.B.B.S., F.R.C.S. (Eng.), Dr. M. M. Pandya, F.R.C.S. (Eng.); Dr. A. E. Desa, F.R.C.S. (Eng); Dr. R. H. Karmarkar, F.R.C.S.; Dr. C. S. Worah, M.S. (Bom.). *Hon. Orthopædic Surgeons.*—Dr. A. K. Talwalkar, F.R.C.S., M.Ch. (Orth.); Dr. K. T. Dholakia, M.S. (Bom.), F.R.C.S. (Eng.), M.Ch. (Orth.). *Hon. Aural Surgeon.*—Dr. J. V. Desa, M.S., D.L.O. *Hon. Gynæc. Surgeons.*—Dr. B. N. Purandare, M.D., F.R.C.S., F.C.P.S. *Hon. Ophthalmic Surgeons*—Dr. S. N. Cooper, D.O., D.O.M.S.; Dr. D. G. Mody, D.O., D.O.M.S. *Hon. Radiologists.*—Dr. Z. J. Joseph, M.D., D.M.R.E.; Dr. L. H. Athale, M.D., M.A.C.S. *Hon. Anæsthetists.*—Dr. B. N. Sircar, D.A., F.R.A.C.S.; Dr. G. S. Ambardekar, D.A., F.R.A.C.S. *Hon. Dermatologist*—Dr. S. C. Desai, M.D., D.V.D. *Hon. Psychiatrist.*—Dr. N. S. Vahia, M.D. *Office Supdt.*—G. A. Dewoolkar, G.D.A.

K. B. BHABHA HOSPITAL
Kurla, Bombay 37.

LAMINGTON MATERNITY & SURGICAL HOSPITAL
(Open day and night).
Girdhar Bhuvan, Lamington Road, Bombay 4.

LAXMIBAI MATERNITY HOSPITAL
96, D'Souza Street, Wadgadi.

Hon. Obstetricians and Gynæcologists.—Dr. (Mrs.) Padmaben Mehta, M.D.; Dr. (Miss) Bharati Kothary, M.B.B.S., F.C.P.S.; Dr. O. J. Shah, M.D., F.R.C.S.; Dr. M. C. Kothari, L.C.P.S. (*Hon. Superintendent*) *Hon. Anæsthetists.*—Dr. V. B. Bhargav, M.B.B.S., D.A., F.F.A.R.C.S. (Eng.); Dr. Janak Mehta, M.B.B.S., D.A.; *Hon. Pædiatrician.*—Dr. J. H. Thackar, M.D., D.C.H.; *Hon. Pathologist.*—Dr. G. J. Doshit, D.P.H.

MAHADEVI ANANDILAL PODAR HOSPITAL
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Superintendent.—Vd. M. Y. Lele, D.A.S.Y. (Bom.), Ayurvidya Parangat (T.M.U.).

MARINE HOSPITAL AND MATERNITY HOME

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Superintendent.—Dr. Girdhari Parsram, M.B.B.S.

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DR. MEHTA H.T.'S MODERN HOSPITAL FOR WOMEN

6, Wilson Street, Bombay 4.

MUNICIPAL GENERAL HOSPITAL, SION

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Superintendent.—Dr. S. V. Joglekar, M.S., F.C.P.S.

N. M. MENTAL HOSPITAL

Naupada, Thana, Central Railway.

Superintendent.— Dr. Shanti Sheth, M.B.B.S., D.P.M., B.M.S. Cl. I.

NEW HOSPITAL FOR WOMEN

New Queen's Road, Bombay 4.

NOOR HOSPITAL

50, Mohammedali Road, Bombay 3.

NORTHCOTE POLICE HOSPITAL

New Nagpada, Byculla.

Dr. R. M. Jhala, M.R.C.P.E., D T M. & H. (Lond.), B.M S I., *Police Surgeon*, Bombay.

NOWROSJEE WADIA MATERNITY HOSPITAL

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DR. O. J. SHAH'S HOSPITAL FOR WOMEN

Modi Chambers, French Bridge, Opera House, Bombay 7.

PARAKH HOSPITAL

542, Sardar Vallabhbhai Patel Road.

Doctors.—Dr. F. R. Parakh, Dr. F. Misquita, Major S. B. Mehta.

PARSI LYING-IN HOSPITAL

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The hospital was started for the admission and treatment of Parsi women. The hospital is managed by a Committee of 14 members.

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Free Medical aid.

PETIT BOMANJEE DINSHAW PARSEE GENERAL HOSPITAL

B. Desai Road, Bombay 26.

Hon. Medical Superintendent, Dr. H. S. Mehta, M.S., F.C.P.S.

DR. PURANDARE MATERNITY, GYNÆCOLOGICAL HOSPITAL AND RADIUM INSTITUTE

4, Chowpatty Seaface.

RAMWADI FREE EYE HOSPITAL

36/60, 1st Cavel Cross Lane, Kalbadevi Road.

RUXMANI LYING-IN HOSPITAL

Babulnath Road, Bombay 7.

SARVODAYA HOSPITAL

Rifle Range, Agra Road, Ghatkopar, Bombay 39.

Managing Trustee : Kantilal Maganlal Shah.
Manager : G. H. Dave.

SEQUEIRA MATERNITY & GYNÆCOLOGICAL HOSPITAL

Swastic Chambers, Carnac Bridge, Bombay 1.

SIR C. J. OPHTHALMIC HOSPITAL

(J. J. GROUP OF HOSPITALS)

Byculla, Bombay 8.

Superintendent :—Dr. S. J. Mehta, F.R C.S.

SIR COWASJEE JEHANGIR READYMONEY DISPENSARY & KERSHEDJI BEHRAMJI BHABHA HOSPITAL

Waterfield Road, Bombay 20.

SIR CURRIMBHOY EBRAHIM MEMORIAL DENTAL COLLEGE & HOSPITAL

J. J. Hospital Compound, Byculla, Bombay 8.

Principal :—Dr. K. L. Shourie, M.Sc., M B.B S, M D S., Ph.D.

SIR HURKISONDAS NUROTTUMDAS HOSPITAL

New Charni Road, Bombay 4.

President.- Ghordhandas Bhagwandas Narottamdas.

Hon. Secretary : D. H. Vora; *Hon. Treasurer* : Ratilal Nathalal.

Superintendent :—Dr. P. M. Sangani.

Doctors : Dr. B. B. Vedh; Dr. M. J. Shah; Dr. N. J. Modi (*Hon. Physicians*); Dr. S. M. Merchant (*Hon. Pediatrician*); Dr. V. L. Parmar; Dr. S. J. Mehta; Dr. M. V. Modi; Dr. K. G. Munsif (*Hon. Surgeons*); Dr. S. B. Trivedi; Dr. C. G. Saralya; Dr. Mrs. S. Nanavati (*Hon. Gynaecologists*); Dr. P. M. Desai; Dr K. V. Palal; Dr. S. G. Daftary (*Hon. Radiologists*); Dr. H. D. Patel (*Visiting Ophthalmologist*).

Attached to the hospital is Sir Purshotamdas Thakurdas Clinic consisting of the following departments. *Eye Department* : Dr. P. H. Patel; Dr. D. G. Modi; Dr. V. V. Gupte; *Dental Department* : Dr. G. J. Merchant; Dr. V. N. Bhatwadekar; Dr. V. K. Gandhi: *Skin Department* : Dr. V. D. Parekh; Dr. J. C. Shroff; Dr. M. W. Dhurandhar.

ST. GEORGE'S HOSPITAL

Frere Road, Fort.

Superintendent.—Dr. M. V. Bhajekar, M.A., M.B.C.Ch. (Oxon.), F.R.C.S. (Edin.).

SUBSIDIARY POLICE HOSPITAL

New B.D.D. Chawl No. 6, Naigaum.

Doctors.—Dr. R. M. Jhala, M.R.C.P.E., D.T.M. & H. (Lond.), B.M.S., I, *Police Surgeon*; Dr. R. M. Dave, M.B.B.S., B.M.S., II, *Medical Officer*.

DR. (MRS.) SUCHAK'S MATERNITY & GENERAL HOSPITAL
186, Manchhubhai Road, Malad (East).

TALWALKAR NURSING HOME AND MATERNITY HOSPITAL
153B, Hindoo Colony, next to Ruia College, Bombay 19.

TATA MEMORIAL HOSPITAL
Hospital Avenue, Parel, Bombay 12.

HEADS OF DEPARTMENTS:—*Chief Surgeon & Superintendent*, Dr. J. C. Paymaster, F.R.C.S.E.; *Hon. Director of Laboratories*, Dr. V. R. Khanolkar, M.D. (Lond.), B.Sc. (Lond.); *Director, Deptt. of Radiology*, Dr. K. P. Mody, B.A., L.M. & S., M.R.C.S., L.R.C.P., D.M.R. (Eng.).

DR. TILAK AND DR. KAIKINI'S SURGICAL AND MATERNITY HOSPITAL
331, Charni Road, Bombay 4.

Doctors.—Dr. H. V. Tilak, F.R.C.S. (Edin.); Dr. V. M. Kaikini, F.R.C.S. (Edin.).

TUBERCULOSIS HOSPITALS
Jerbai Wadia Road, Bombay 15.

VADALA MATERNITY HOME & GENERAL HOSPITAL
103, Station Road, Wadala, Bombay 31.

VIENNA CLINIC AND MATERNITY HOSPITAL
53, Portuguese Church Street, Dadar, Bombay-28.

Proprietor & Medical Officer.—Dr. Nagindas P. Shah, L.M. (Dublin) L.U. (Vienna).

It is a hospital for vegetarians.

VRINDAVAN GENERAL HOSPITAL & NURSING HOME
"Magan Mahal," Mathuradas Road, Andheri, Bombay 41.

WORLI GENERAL HOSPITAL
Sea Face Corner, Bombay 18.

MATERNITY & NURSING HOMES

DR. BELLS NUTAN MATERNITY HOME
252, Station Road, Bombay 31.

Doctor in charge, Dr. Miss Acca Bellappa.

ANDHERI MATERNITY & NURSING HOME
Opposite Gazdar Hall, Ghodbunder Road, Andheri.

Managing Committee:—Dr. R. P. Bhatt, M.B.B.S.; Dr. M. R. Bhatt, M.B.B.S.

DR. BACHA'S MEMORIAL BELLE-VUE NURSING HOME
"La Citadelle", next to Government of India Offices, Queen's Road, Marine Lines. (Tel. 242153-242154).

BILL NURSING HOME
Dadar.

Home for aged and infirm patients.

Hon. Principal Medical Officer and Managing Trustee.—Dr. M. C. Bilpodiwala, M.B.B.S., J.P.

BREACH CANDY HOSPITAL & NURSING HOME
60, B. Desai Road, Bombay 26.

CALCUTTA NURSING HOME (Mental Hospital)
Sita Niwas, Bombay 12.

Psychiatrist: Dr. B. K. Banerji.

Surgeon: Dr. Hiralal K. Doctor, F.R.C.S.; *Gynaecologist:* Dr. V. H. Vhaha, M.B.B.S.

CENTRAL HOSPITAL & NURSING HOME
Bellasis Road, Bombay 8.

COLABA MATERNITY HOME
3rd Pasta Lane, Colaba, Bombay 5.

COLONY NURSING HOME
Sir Bhalchandra Road, Matunga (Central Rly.).

HABIB HOSPITAL AND REHEMATBAI MATERNITY HOME
125, Jail Road East, Bombay 9.

DRS. HIRALAL & D'SA SURGICAL NURSING HOME
Backbay View, New Queen's Road, Bombay 4.

Consulting Surgeon:—Dr. Hiralal K. Doctor, F.R.C.S. (Eng.), *Hon. Surgeon*, J. J. Hospital & Bombay Hospital.

KAMAR KHANUM MATERNITY HOME
Victoria Cross Road, Bombay 27.

KHATAU MAKANJI FREE DISPENSARY & BHATIA MATERNITY AND NURSING HOME
65, Bazar Gate Street, Fort.

MANDVI MATERNITY HOME
Pravin Chamber, Chinch Bunder, Bombay 9.

MARINE HOSPITAL & MATERNITY HOME
5, New Marine Lines, Bombay 1.

This is a private institution run by three doctors including one lady doctor.

Superintendent.—Dr. Girdhari Parsram, M.B.B.S.

MODERN NURSING HOME
Framroze Court, 60, Main Road, Parlar, Bombay 14.

THE NORTHCOTE NURSING HOME PRIVATE, LTD.
Ormiston Road, Apollo Bunder.

Mrs. V. N. Adenwalla; N. R. Adenwalla, *Managing Director*; R. C. Doodhmul; *R.M.Os.*—Dr. Miss F. Panthakee, M.B.B.S., Dr. Miss J. Irani, M.B.B.S., Dr. K. N. Dastur, M.S., F.R.C.S., Dr. M. K. Pavri, M.D., F.C.P.S., Dr. D. S. Rao, D.M.R.E., Dr. (Miss) Mani Khudabux, M.D., F.R.C.S., Obstetrician & Gynaecological Surgeon; Dr. K. M. Anson, M.D., Dr. J. C. Shroff, M.B.B.S., D.V. &. D. (Skin Specialists have consulting rooms in the Nursing Home.

PARK NURSING HOME (DR. NAYEN'S)
204, Shivaji Park Road 5, Bombay 16.

SORABJI SHAPURJI ENGINEER MUNICIPAL FREE MATERNITY HOME
Nanubhai Desai Road, Bombay 4.

ST. ELIZABETH'S NURSING HOME
Kunj Nivas, Harkness Road, Malabar Hill, Bombay 6.

Rev. Sister Francis Teresa (Superioress).

SURGICAL NURSING HOME AND FRACTURE CLINIC
8, New Queen's Road, next to Opera House Cinema, Bombay 4.

Managing Board.—Dr. R. G. Talwalkar, F.R.C.S. (Eng.); Dr. M. G. Talwalkar, F.R.C.S. (Eng.); Dr. G. R. Talwalkar, T.D.D. (Wales). *Tuberculosis Specialist*; Dr. C. G. Talwalkar, D.M.R.E. (Lond.), *Radiologist*; Dr. S. G. Talwalkar, D.A.R.C.P.S. (Lond.), *Anaesthetist*; Dr. M. G. Talwalkar, F.R.C.S. (Eng.); Dr. R. G. Talwalkar, F.R.C.S. (Eng.). *Surgeons*; Dr. V. S. Talwalkar, D.O. (Oxon.), *Eye Surgeon*; Dr. M. S. Talwalkar, M.D., *Specialist in Women's Diseases*; Dr. N. G. Talwalkar, M.D., M.R.C.P. (Lond.); Dr. C. V. Talwalkar, M.D., M.R.C.P. (Lond.), *Physicians*.

TALWALKAR NURSING HOME & MATERNITY HOSPITAL
153-B, Hindoo Colony, next to Ruia College, Bombay 19.

TUBERCULOSIS NURSING HOME
Polyclinic, 20, New Queen's Road, Bombay 4.
(Mrs. Mangalabahen Patel).

CONVALESCENT HOMES AND SANATORIA

BAI SHERENBAI MANCHERJI CAMA CONVALESCENT HOMES
Byramji Jijibhoy Road, Bandra, Bombay 20.
Trustees : Lady Navajbai R. Tata ; Sir Hormazdyar P. Dastur, Kt.
Treasurer : Dr. Mrs. Goolbai B. Banaji.

BEL-AIR SANATORIUM FOR T. B. PATIENTS
Panchgani (Dist. Satara).
Managing Trustee.—Dr. R. B. Billimoria.
Wassiamal Building, Charni Road Junction.

BOMBAY STATE ANTI-TUBERCULOSIS ASSOCIATION
Red Cross Building, Mint Road, Fort.
President.—Y. B. Chavan ; *Hon. Secretaries :* Dr. B. B. Yodh ; Homi J. H. Taleyarkhan.

CONSUMPTIVES' HOMES SOCIETY
Seva Sadan, Gamdevi, Bombay 7.
Hon. Secretary.—Jal M. Dotiwalla, G.D.A., F.C.A.

MARINA CLINIC & SANATORIUM
Indian Merchants' Chamber Building, Churchgate, Bombay 1.

PECHEY PHIPSON SANITARIUM FOR WOMEN AND CHILDREN, NASIK ROAD
OFFICE—6, Apollo Street, Fort.

TUBERCULOSIS CONTROL
(Medical Supdt., Group of T. B. Hospitals, Sewri.)
Out-patients are treated on all working days at the clinics at—
Princess Street :—8 a.m. to 12 p.m. and 4 to 5 p.m.
Foras Road :—8 a.m. to 12 p.m. and 4 to 5 p.m.
R.D.T.B. Hospital and Clinic, Dadar :—8 a.m. to 12 p.m. and 4 to 5 p.m.

CLINICS

THE ANJUMAN-I-ISLAM
92, Dadabhoy Naoroji Road, Fort, Bombay 1.

BALKAN-JI-BARI
Akhil Hind Balak Sangh, Khar, Bombay 21.
(See also under Cultural Associations in Greater Bombay.)

BAPNU GHAR
Annie Besant Road, Near Vallabhbhai Patel Stadium, Hornby Vellard, Worli.

BOMBAY CLINIC
Indra Bhuvan, 514, Sardar Vallabhbhai Patel Road, Bombay 4.
Tele. : "*Appendix*," Bombay 4.

BOMBAY MOTHERS' AND CHILDREN'S WELFARE SOCIETY
No. 10, B.D.D. Chawl, DeLisle Road, Bombay No. 11.
Chairman.—Lady Cowasji Jehangir. *Jt. Hon. Treasurers.*—Khushru S. Sethna, J.P. and Dr. Socrates Noronha. *Jt. Hon. Secretaries.*—Dr. H. V. Tilak, F.R.C.S. and Dr. K. S. Bhaskar, M.A., M.D.

CHARAK CLINIC
21, Queen's Road, Bombay 4.

THE CHILD GUIDANCE CLINIC OF THE TATA INSTITUTE OF SOCIAL SCIENCES
Bai Jerbai Wadia Hospital, King Edward Road, Parel, Bombay 12.
(See also under Benevolent Institutions in Greater Bombay)

DR. D. S. ALREJA A. P. & X-RAY CLINIC
Gunder House, Dhobi Talao, Bombay 2.
Medical Officer : Dr. D. S. Alreja.

EYE CLINIC AND HOSPITAL
375, D. Naoroji Road, Opp. Flora Fountain.
Run by Dr. H. D. Dastoor, F.I.C.S., F.C.P.S., D.O. (Oxon.), D.O.M.S. (Lond.), Senior Ophthalmic Surgeon, J. J. Hospital and Professor of Ophthalmology, Grant Medical College, together with a full hospital staff.

FRACTURE AND ORTHOPAEDIC HOSPITAL AND ACCIDENT CLINIC
(for Police cases).
395, Lamington Road, Bombay 4.

GHATKOPAR BALKAN-JI-BARI
(Estd. 1939).
Prafulla Nivas, Agra Road, Ghatkopar, Bombay 39.
Conducts various child welfare activities such as children's library, wall-paper, games, hobbies, tours, talks, etc.

MODERN CLINIC
Near Prarthana Samaj, 383, Sardar Vallabhbhai Patel Road.
Doctors attached.—Dr. K. U. Jhatakia, M.D., *Physician and Cardiologist ;* Dr. C. S. Worah, M.S., *Surgeon ;* Dr. C. M. Kamdar, L.M., D.R.C.O.G., *Gynaecologist.*

NATURAL THERAPY CLINIC
Sunama House, 3rd. Floor, 149, Cumballa Hill, Bombay 26.
Health Centre.
Proprietor & Director : Dr. J. M. Jussawalla, Nature Cure Physician.

THE NUTAN BAL SHIKSHAN SANGH
All-India Association of Teachers and Parents.
118, Hindu Colony, Dadar, Bombay 14.

VENEREAL DISEASES FREE CLINIC, BOMBAY MUNICIPALITY
254, Bellasis Road, Byculla

VIJAYA NAGAR SEVA MANDAL, BAL VIHAR, SEWING & EMBROIDERY CLASS
72, Vijaya Nagar, Dadar, Bombay-28.

DISPENSARIES

BOMBAY HOMŒOPATHIC ASSOCIATION'S DISPENSARIES
I. 311, Tardeo Road, Nana Chowk, Bombay 7 (main dispensary)
II. Jamnadas Mody Kapol Nivas, 64, Cavel Street (near Ramwadi Eye Hospital).

THE BOMBAY KERALEEYA SAMAJ AYURVEDIC DISPENSARY
Road No. 2, Hindu Colony, Dadar, Bombay 14.
Physician : M. C. K. Namboodiri, L.I.M.
Branch at Kerala Bhavanam, 16 A, Brahmanwada Road, Matunga.
Physician : U. Achutha Warrier.

FORT GRATUITOUS DISPENSARY
10, Ravelin Street, opp. Excelsior Cinema, Fort.
Managing Committee.—Cooverji H. Bhabha, *Chairman ;* Maj. Dady F. Vachha, *Secretary.*
First Medical Officer : Dr. R. S. Sidhwa, M.B B.S.

SANTA CRUZ MALAYALEE SAMAJAM AYURVEDIC DISPENSARY
14, Air View Building, Vakola, Bombay 25.

SHRI AYURVEDA DHARMARTH DAVAKHANA MANDAL
45, Dr. Atmaram Merchant Road, Bombay 2.
President : Dr. D. D. Sathaye ; *General Secretary :* Vamanrao D. Vaidya, *Treasurer :* Dr. Mulchand D. Mukati.

SHRI DAMODAR AMBAVIDAS DAFTARY SARVAJANIK DISPENSARY
Township Colony, S. 14, Chembur, Bombay 38 alid Ratan Villa, Shraddhanand Road, Ghatkopar, Bombay 39.
Managing Trustee :—Girdharlal Damodar Daftary.
Chief medical officer at Chembur : Dr. G. D. Parakh, M.B.B.S.
Chief Medical Officer at Ghatkopar : Dr. K. M. Mehta, M.B.B.S.

MISSIONARY AND RELIGIOUS SOCIETIES IN GREATER BOMBAY

AHMADIYYA MOVEMENT

Local Branch :—'Alhaq', 17, Club Back Road, Bombay 8.

Headquarters.—Qadian, Dist. Gurdaspur, Punjab, India.

Activities :—Revival and Propagation of Islam.

Founder :—Hazrat Mirza Gulam Ahmad of Qadian, the promised Messiah and Mehdi (1835-1908).

Missions :—Throughout India & Pakistan and in the following foreign Countries—England, Germany, France, Spain, U.S.A., Java, Siam, Sumatra, Egypt, Palestine, Indonesia, Ceylon & Italy. All enquiries could be made to the Missionary-in-Charge.

Present Head of the Movement :—Hazrat Mirza Bashiruddin Mahmood Ahmad, the Musleh Maoood.

AMERICAN MARATHI MISSION

Byculla, Bombay.

(Under the American Board of Commissioners for Foreign Missions, Boston, Mass., U.S.A.).

OFFICERS : *Chairman.*— Rev. J. L. Moulton. *Secretary.*—Rev. Miss E. L. Wood, 1-A, Staveley Road, Poona. *Treasurer.*—G. Ross Thomas, Inter-Mission Business Office, 364, Dadabhoy Naoroji Road, Bombay.

ANJUMAN-I-FAIZ-I-PANJETANI

69, Samuel Street, Bombay 9.

The aims and objects of Anjuman-i-Faiz-i-Panjetani are to render service to pilgrims to the Hedjaz, Iraq, Iran, etc.

PRESIDENT —Haji Esmail Abdulkarim Panjoo.

VICE-PRESIDENT.—Haji Yusufali C. Chinwala.

HON. JOINT SECRETARIES.—Dr. Haji R. C. Nathani and Haji Rajabally P. Ebrahim.

MANAGER.—Sherally Virjee.

ASTHIKA SAMAJ

Asthika Samaj Building, King's Circle, Matunga, Bombay 19.

The aims and objects of the Samaj are the cultivation of devotion to God.

PRESIDENT :—C. G. Raman ; JT. HON. SECRETARIES :—K. S. Padmanabhan, V. K. Moorthy. *Hon. Treasurer* :—K. S. Ramaswamy.

BIBLE SOCIETY OF INDIA AND CEYLON

India House, Opp. G.P.O., Fort Street, Bombay 1.

The aim and object of this Society is to publish and propagate the Holy Bible without note or comment in all languages.

President.— The Rt. Rev. Bishop Lash, Bishop of Bombay.

Secretary & Treasurer.— Rev. W. Park Rankin, B.C.F.

BOMBAY SPIRITUAL CENTRE

Indra Kunj,
2, Laburnum Road, Gamdevi, Bombay 7.

Discourses by eminent saints or savants on purely spiritual subjects, group prayers, meditation, namsankirtan and bhajan are regular features.

BOMBAY TAMIL CATHOLIC ASSOCIATION

292, Frere Road, Bombay 1.

BOMBAY ZOROASTRIAN JASHAN COMMITTEE

Navsari Building, Dr. Dadabhoy Naoroji Road, Bombay 1.

Objects of the Committee are :—To promote devotion amongst Parsi Zoroastrians for their religion.

The Committee also takes keen interest in diffusing Zoroastrian religious instruction to the young.

PRESIDENT.—Lt.-Col. Rustom M. Khareghat, I.M.S. (Retd.).

SECRETARY :—Kaikhasru Aderji Dumasia.

HON. TREASURER :—Sohrab Hirjibhoy Batlivala.

CHURCH MISSIONARY SOCIETY

Mission House, Proctor Road, Bombay 7.

This body works under the Bishop of Bombay in the Bombay Diocese.

MEMBERS OF THE BOMBAY CORRESPONDING COMMITTEE.

The Right Rev. The Bishop of Bombay (*Chairman*) ; The Venerable C. A. Bolton ; Rev. A. B. Bhalekar ; Rev. R. G. Bhanat ; C. A. Christie ; D. L. Powar ; Dr. E. L. Simmons ; J. W. E. Gurr ; Kuryan Mathan.

Secretary.—Miss M. C. Wilson.

The Office of the Parent Society is in Salisbury Square, Fleet Street, London, E.C.4.

Bombay

Emmanuel Church, Proctor Road, Rev. Canon V. M. Gadre.

Robert Money School.—C. A. Christie, B.A., B.T.

MAHABODHI BUDDHA SOCIETY

Ananda Vihara, Lamington Road, Bombay 8.

MAHA BODHI SOCIETY OF INDIA

(Bombay Branch)

Bahujan Vihar, Buddha Temple Street, Parel, Bombay 12.

Secretary.— Bhikkhu H. Dhammananda.

MISSIONARY SETTLEMENT FOR UNIVERSITY WOMEN

Reynolds Road, Byculla, Bombay.

The M.S.U.W. is engaged in missionary and educational work in Bombay City. It maintains a hostel for about 60 women students attending the various colleges in Bombay.

STAFF.—Miss D. Hunt, B.A., *Warden* ; Miss S. Cokayne S. Th ; Miss E. D. Mason, M.A , Ph D., D.Sc. ; Miss R. Gurupatham, L.T.T.C.

PARSI VEGETARIAN AND TEMPERANCE SOCIETY

Noble Chambers No. B, Parsi Bazar Street, Bombay 1.

Object : To inculcate vegetarianism and temperance as principles of *Ashoi* i.e. law and moral orders divine.

PRARTHANA SAMAJ

Girgaum, Bombay.

The Bombay Prarthana Samaj is a religious body whose faith is founded on the essential belief in One God who is without form and all-pervading, and in the brotherhood of man.

The Prarthana Samaj holds weekly Divine Services on Sundays and organises missionary activities for the spread of its Faith in the State of Bombay. It also conducts educational and charitable activities through a number of institutions which are managed by the Samaj.

MANAGING COMMITTEE.—Sir V. N. Chandavarkar, *President*; P. B. Madgavkar, *Vice-President* and others.

RAMAKRISHNA MISSION ASHRAM

Khar, Bombay 21.

President.—Swami Sambuddhananda. *Hon. Secretary.*—Dr. C. A. Mehta, M.A., Ph.D.

SHREE AYYAPPA BHAKTA SAMITI

Star of Cochin, Opp. Broadway Cinema, Dadar, Bombay 14.

President, General Council.—G. P. Nair ; *Executive Committee.* T. V. Seshan (*Chairman*) ; Karimpat R. Menon (*Vice-Chairman*), P. V. Menon, C. V. Kochunni, K. G. Narayanan (*Secretaries*) ; A. B. Nair, K. B. Menon (*Treasurers*).

SPIRITUAL ASSEMBLY OF THE BAHA'IS OF THE CITY OF BOMBAY

P. O. Box No. 470, Bombay 1.

Objects :—To establish universal peace and the oneness of mankind in co-operation with fellow Baha'is of over 4,500 Centres in 254 other countries through the spiritual principles of the World Religion proclaimed by Baha-u-llah in 1863.

SPIRITUALIST DEVELOPMENT AND HEALING CIRCLE

Kalam Kutir, 211/219, Frere Road, Bombay.

To help those who desire to develop psychic power and to give relief to those who are ailing.

The President Dr. F. D. Nasikvala conducts the Healing Centre every Tuesday and Friday between 2 and 5 p.m. and Development every Friday at 6-30 p.m., after which Seance is held.

ST. JOSEPH'S CONVENT

Bandra, Bombay 20.

This Institution, conducted by the Daughters of the Cross of Liege, Belgium, comprises :—

1. An Anglo-Indian High School (Boarding and Day).
2. An English-Teaching High School (Boarding and Day).
3. An Orphanage Primary School.

THEOSOPHICAL SOCIETY

The Blavatsky Lodge, T.S. French Bridge, Bombay 7.

This is the first Lodge in India, founded in 1879, having a good library and a book-depot.

WESTERN INDIA UNION OF SEVENTH-DAY ADVENTISTS

HEADQUARTERS ADDRESS : 16, Club Road, Byculla, Bombay 8.

PRESIDENT : Pastor F. E. Spiess.

SECRETARY AND TREASURER : C. N. John.

ZOROASTRIAN RADIH SOCIETY

Noble Chambers, No. B, Parsi Bazar Street, Bombay 1.

OBJECT.—To undertake all kinds of Radih work for the benefit and welfare of the Parsi Zarthoshti Community.

PUBLIC TRUSTS IN GREATER BOMBAY

For purposes of quick reference, we give below a list of registered Public Trusts in the Greater Bombay area with an average annual income of Rs. two lakhs and over as mentioned in the registration applications.

When necessary the same trust has been entered under more than one head. The register number is given in brackets at the end of each trust.

Aid for Business, Vocation

Trusts of the Funds and properties of the Parsi Panchayat, Bombay, The Joint Secretary, Parsi Panchayat, 209, Dr. Dadabhoy Naoroji Road, Fort; Rs. 11,32,606. (702—C-416).

Aid in Calamities (natural, etc. such as epidemic, fire, flood, riot, war, etc.)

(Shri) Madhavbag and Laxminarayan Temple Trust, Manordas Tribhowandas, Shri Madhavbag Trust, C. P. Tank Road, Bombay 3; Rs. 2,07,864. (901—A-139).

(Sir) Vithaldas Damodar Thackersey Charitable Trust, Lady Pramila Vithaldas Thackersey, Sir Vithaldas Chambers, 16, Apollo Street, Fort; Rs. 2,90,863. (1702—A-250).

Habib Ismail Memorial Trust, Rasool A. Rangoonwala, Habib Ismail Memorial Trust, 125, Jail Road (East), Bombay 9; Rs. 4,78,455. (278—B-501).

Sir Dorabji Tata Trust, Professor Rustom Dossabhoy Choksi, Bombay House, 24, Bruce Street, Fort; Rs. 18,40,443. (239—E-304).

The N. M. Wadia Charities, 22D, Parsi Bazar Street, Fort; Rs. 7,10,836. (627—E-152).

Aid for Education for developing mind or body (in kind or cash)

(Sir) Vithaldas Damodar Thackersey Charitable Trust, Lady Pramila Vithaldas Thackersey, Sir Vithaldas Chambers, 16, Apollo Street, Fort; Rs. 2,90,863. (1702—A-250).

R. and S. Nanavati Charitable Trust, R. M. Nanavati, 16, Apollo Street, Fort; Rs. 2,14,551. (A-583).

Anjuman-I-Islam Charities, S. S. Rasravi, M. H. Saboo Siddik Institution, S. Shepherd Road, Byculla, Bombay 8; Rs. 3,44,644. (109—B-610).

(Haji) Esuf Mahomed Suleman's Charities, Ebrahim Yusuf Botwa'a, 116-118, Tapukhote Street, Bombay 3; Rs. 3,59,411. (238—B-169).

Habib Esmail Memorial Trust, Rasool A. Rangoonwa'a, 125, Jail Road (East), Bombay 9; Rs. 4,78,455. (278—B-501).

The Artytoys Industrial Scheme Trust, Darab N. Navder, 22D, Parsi Pa ar Street, Fort; Rs. 2,47,364. (36—C-287).

The Behramji Nawrosji Gamadia Parsee Husnarsha'a Trust, Meherji Behramji Khambatta, Gamadia Colony, 8, Tardeo Roa l; Rs. 2,48,996. (95—C-587).

(Sir) Jamsetjee Jeejeebhoy Parsee Benevolent Institution, The Secretary, 209, Dadabhoy Naoroji Road, Fort; Rs. 3,52,591. (447—C-221).

Manekji Cooper Education Trust, Jehangir Manekji Cooper, Swadeshi Mills Estate, Girgaum; Rs. 2,08,000. (549—C-261).

Nesserwanji Manockjee Petit Charity Fund, Petit Building, Dadabhoy Naoroji Road, Fort; Rs. 3,31,208. (649—C-58).

(Sir) Ratanji Jamshedji Tata Charities Trust, Pirojsha P. Mistri, trustee of Sir Ratan Tata Charities, Bombay House, Bruce Street, Fort; Rs. 8,84,243. (796—C-153).

The N. M. Wadia Charities, 22D, Parsi Bazar Street, Fort; Rs. 7,10,836. (627—E-152).

R. D. Sethna Trust, Secretary, 14-K, Hamam Street, Fort; Rs. 3,57,581. (686—E-654).

Sir Sayajirao Diamond Jubilee and Memorial Trust, Sarojini Sadan, Extension Congress House, V. P. Road, Bombay 4; Rs. 6,24,841. (E-877).

Stri Zarthosti Mandal and Sir Ratan Tata Industrial Institute, The Hon. Gen. Secretary, 35, Hughes Road, Bombay 7; Rs. 7,10,225. (F-326).

Aid to Institutions and Funds

(Shri) Madhavbag and Laxminarayan Temple Trust, Manordas Tribhowandas, C. P. Tank Road, Bombay 3; Rs. 2,07,864. (901—A-139).

The Dawoodbhoy Fazalbhoy Muslim Educational Trust; 42, Pydhonie Road; Rs. 2,75,500. (194—B-611).

Habib Esmail Memorial Trust, Rasool A. Rangoonwala, 125, Jail Road (East), Bombay 9; Rs. 4,78,455. (278—B-501).

The Artytoys Industrial Scheme Trust, Darab N. Navder, 22D, Parsi Bazar Street, Fort; Rs. 2,47,364. (36—C-287).

The Christian Medical Association of India Hospital Supply Agency, Dhapla Building, Government Gate Road, Bombay 12; Rs. 7,38,002. (166—E-555).

Sir Dorabji Tata Trust, Professor Rustom Dossabhoy Choksi, Bombay House, 24, Bruce Street, Fort; Rs. 18,40,443. (239—E-304).

Seth Mafatlal Charity Trust, Yogindra N. Mafatlal, Mafatlal House, Back Bay Reclamation, Bombay 1; Rs. 2,20,643. (516—E-723).

Sir Sayajirao Diamond Jubilee and Memorial Trust, Sarojini Sadan, Extension Congress House, V. P. Road, Bombay 4; Rs. 6,24,841. (E-877).

Medical Aid

(Sir) Vithaldas Damodar Thackersey Charitable Trust, Lady Pramila Vithaldas Thackersey, Sir Vithaldas Chambers, 16, Apollo Street, Fort; Rs. 2,90,863. (1702—A-250).

Habib Esmail Memorial Trust, Rasool A. Rangoonwa'a, 125, Jail Road (East), Bombay 9; Rs. 4,78,455. (278—B-501).

Seth Mafatlal Charity Trust, Yogindra N. Mafatlal, Mafatlal House, Pack Bay Reclamation, Bombay 1; Rs. 2,20,643. (506—E-723).

The N. M. Wadia Charities, 22D, Parsi Bazar Street, Fort; Rs. 7,10,836. (627—E-152).

Sir Hurkisondas Narotamdas Hospital, The Hon. Secretary, New Charni Road, Bombay; Rs. 7,82,615. (A-1364).

The Manekji Nowroji Sett Charities, M. K. Set, Kodak House, III Floor, Hornby Road, Bombay 1; Rs. 11,96,550. (C-222).

Nowrosjee N. Wadia Trust Buildings for Parsis, The Secretary, R. N. Wadia Trust, Neville House, Ballard Estate, Fort, Bombay; Rs. 3,64,827. (C-269).

Rustomjee N. Wadia Trust Building for Parsis, The Secretary, R. N. Wadia Trust, Neville House, Ballard Estate, Fort, Bombay; Rs. 2,55,528. (C-270).

Stri Zarthosti Mandal and Sir Ratan Tata Industrial Institute, Hon. Gen. Secretary, 35, Hughes Road, Bombay 7; Rs. 7,10,225. (F-326).

Help to Orphans, Poor, etc.

(Seth) Virji Paraji Trust, Maskai Building, Bhandari Street, Bombay 3; Rs. 4,16,590. (1670—A-202).

(Sir) Vithaldas Damodar Thackersey Charitable Trust, Lady Pramila Vithaldas Thackersey, Sir Vithaldas Chambers, 16, Apollo Street, Fort; Rs. 2,90,863. (1702—A-250).

R. and S. Nanavati Charitable Trust, R. M. Nanavati, 16, Apollo Street, Fort; Rs. 2,14,551. (1998—A-583).

Habib Esmail Memorial Trust, Rasool A. Rangoonwala, 125, Jail Road (East), Bombay 9; Rs. 4,78,455. (278—B-501).

Sir Jamsetjee Jeejeebhoy Parsee Benevolent Institution, The Secretary, 209, Dadabhoy Naoroji Road, Fort; Rs. 3,52,591. (447—C-221).

Seth Goculdas Tejpal Charities Trust, V. H. Bhatt, 7, Bastion Road, Fort; Rs. 4,24,804. (281—E-800).

Seth Mafatlal Charity Trust, Yogendra N. Mafatlal, Mafatlal House, Back Bay Reclamation, Bombay 1; Rs. 2,20,643. (516—E-723).

The N. M. Wadia Charities, 22D, Parsi Bazar Street, Fort; Rs. 7,10,836. (627—E-152).

Help for Research Work

Sir Dorabji Tata Trust, Professor Rustom Dossabhoy Choksi, Bombay House, 24, Bruce Street, Fort; Rs. 18,40,443. (239—E-304).

The Bombay Suburban District Village Industries Association, Navalbhai C. Jerajani, 396, Kalbadevi Road; Rs. 12,28,219. (102—F-314).

Sir Hurkisondas Narotamdas Hospital, The Hon. Secretary, New Charni Road, Bombay; Rs. 7,82,615. (A-1364).

Tata Institute of Fundamental Research, R. Choksi, Tata Institute, Apollo Pier Road, Bombay 1; Rs 6,08,358 (E-660).

Bharatiya Vidya Bhavan, Chandas Meghji, Chowpatti Road, Bombay 7; Rs. 4,30,032. (F-358).

Boardings

Trusts of the Funds and properties of the Parsi Panchayat, 209, Dr. Dadabhoy Naoroji Road, Fort; Rs. 11,32,606. (702—C-416).

The Diamond Jubilee Trust, Bombay, Smt. Zarina E. G. Currimbhoy, Khoja Jamatkhana Compound, Chinch Bunder Road, Khadak, Bombay 9; Rs. 3,16,280. (B-755).

Churches, Temples and Religious Institutions

Shri Godiji Maharaj Jain Temples and Charities, Laxmichand Durlabhji, 12, Pydhoni, Bombay 3; Rs. 3,70,798. (A-1857).

Dawat-e-Hadiyah, H.H. Mullaji Saheb Sydena Taher Saifuddin, Badri Mahal, Bombay 1; Rs. 2,80,614. (B-729).

Church of St. Francis Xavier, Dabul, Burrows Lane, Bombay 2, Very Rev. Mgr. Basilo A. Pinto, Burrows Lane, Bombay 2; Rs. 3,09,501. (D-123).

Archdiocese of Bombay, Rt. Rev. Mgr. V. Dyer, Archbishop's House, Bombay 1; Rs. 3,51,277. (D-158).

The Church of the Brethren Mission, Rev E. M. Fasnacht, Mission House, Umalla, District Broach; Rs. 2,02,890. (D-65).

Former Churches in the Diocese of Bombay which are in the State of Bombay; The Hon. Secretary, The Bombay Diocese Trust Association Ltd., 21, Wa dby Road, Bombay 1; (Income not Stated). (D-185).

St. Stanislaus' Institution, Rev. D. Donnelly, S.J., Rector and Manager of the Institution, Bombay 20; Rs. 2,18,070. (D-154).

The Bombay St. Xavier's Society, Rev A. Balta, S.J., Treasurer, St. Xavier's High School, Carnac Road, Bombay 1; Rs. 2,76,739 (F-424).

The Provincial Society of the Congregation of Jesus and Mary, Rev. Mother St. Ursula, Convent of Jesus & Mary, Clare Road, Byculla, Bombay. Rs. 3,41,560. (F-428).

The Bombay St. Mary's Society, The Rector, St. Mary's High School, Nesbit Roa l, Mazagon, Bombay 10; Rs. 5,25,297. (F-429).

The Don Bosco Society, The Prefect, Don Bosco High School, Matunga, Bombay 19; Rs. 2,07,000. (F-430).

St. Joseph's Convent, Rev. Sister Provincial, Hill Road, Bandra, Bombay 20; Rs. 10,49,501

The Bombay Prarthana Samaj, B. A. Rege, Asstt. Secretary of the Samaj, Charni Road, Bombay No. 4; Rs. 2,53,451. (F-130).

The Church of Scotland, Western India Mission, c/o Wilson College, Bombay 7; Rs. 3,26,600 (F-366).

Medical Health Centres

Trusts of the Funds and properties of the Parsi Panchayat, Joint Secretary, 209, Dr Dadabhoy Naoroji Road, Fort; Rs. 11,32,606 (C-416).

College

The Bombay St. Xavier's Society, Rev A. Balta, S.J., Treasurer, St. Xavier's High School, Carnac Road, Bombay 1; Rs. 2,76,739 (F-424).

Cultural, Social

The Social Service League, Secretary, Servants of India Society's Home, Sandhurst Road, Bombay 4 ; Rs. 2,54,458. (330—F-152).

The South Indian Welfare Society, The Secretary, Park View, Napoo Garden, Matunga (Central Rly.) ; Rs. 7,10,225. (338—F-213).

Dharmashalas

The Tulsidas Gopalji Charitable and Dhakaleshwar Temple Trust, 10A, Bhulabhai Desai Road ; Rs. 8,12,377. (1593—A-221).

(Haji) Esuf Mahomed Suleman's Charities, Ebrahim Yusuf Botwala, 140, Shariff Devji Street, Bombay 3 ; Rs. 3,59,411. (238—B-169).

Trusts of the Funds and properties of the Parsi Panchayat, The Joint Secretary, 209, Dr. Dadabhoy Naoroji Road, Fort ; Rs. 11,32,606. (702—C-416).

Bai Kabibai and Hansraj Morarji Charity Trust, 26, Holi Chakla, Fort ; Rs. 4,26,954. (393—E-585).

The N. M. Wadia Charities, 22D, Parsi Bazar Street, Fort ; Rs. 7,10,836. (627—E-152).

Dispensaries—Allopathic

(Haji) Esuf Mahomed Suleman's Charities, Ebrahim Yusuf Botwala, 140, Shariff Devji Street, Bombay 3 ; Rs. 3,59,411. (238—B-169).

Bai Kabibai and Hansraj Morarji Charity Trust, 26, Holi Chakla, Fort ; Rs. 4,26,954. (393—E-585).

Employment (Help to Secure)

(Sir) Vithaldas Damodar Thackersey Charitable Trust, Lady Pramila Vithaldas Thackersey, Sir Vithaldas Chambers, 16, Apollo Street, Fort ; Rs. 2,90,863. (1702—A-250).

The Artytoys Industrial Scheme Trust, Darab N. Navder, 22D, Parsi Bazar Street, Fort ; Rs. 2,47,364. (36—C-287).

Homes for Afflicted, Defectives (by nature), Disabled

Trusts of the Funds and properties of the Parsi Panchayat, Bombay, The Joint Secretary, Parsi Panchayat, 209, Dr. Dadabhoy Naoroji Road, Fort . Rs. 11,32,606. (702—C-416).

Homes for Children, Rescue, Widows, Women

Nesserwanji Manockjee Petit Charity Fund, Petit Building, Hornby Road, Fort ; Rs. 3,31,208. (649—C-58).

Vanita Vishram, The Hon. Secretary, Sandhurst Road Bombay 4 ; Rs. 2,06,611. (866—E-568).

The Children's Aid Society, The Hon. Secretary, 83, Lady Hardinge Road, Mahim, Bombay 16 ; Rs. 9,06,453. (121—F-205).

Seva Sadan Society, Miss R. A. Engineer, Seva Sadan, Gamdevi, Bombay 7 ; Rs. 3,44,785. (319—F-125).

The Bombay Prarthana Samaj, B. A. Rege, Asstt. Secretary of the Samaj, Charni Road, Bombay No. 4 ; Rs. 2,53,451. (F-130).

Homes for Convalescents

Bel Air Sanatorium, Panchgani, Sir Shapoorji B. Billimoria, 21, Cuffe Parade, Colaba ; Rs. 4,29,525. (77—E-186).

Maternity Homes

Habib Esmail Memorial Trust, Rasool A. Rangoonwala, 125, Jail Road (East), Bombay 9 ; Rs. 4,78,455. (278—B-501).

Trusts of the Funds and Properties of the Parsi Panchayat, Bombay, The Joint Secretary, Parsi Panchayat, 209, Dr. Dadabhoy Naoroji Road, Fort ; Rs. 11,32,606. (702—C-416).

Sir Hurkisondas Narotamdas Hospital, The Hon. Secretary, New Charni Road, Bombay ; Rs. 7,82,615. (A-1364).

Nowrosjee Wadia Maternity Hospital, Neville House, Ballard Estate, Fort, Bombay ; Rs. 4,04,702. (E-944).

The Bombay Prarthana Samaj, B. A. Rege, Asstt. Secretary of the Samaj, Charni Road, Bombay No. 4 ; Rs. 2,53,451. (F-130).

The Church of Scotland Western India Mission, c/o Wilson College, Bombay 7 ; Rs. 3,26,600. (F-366).

Homes—Orphanages

(Haji) Esuf Mahomed Suleman's Charities, Ebrahim Yusuf Botwala, 140, Shariff Devji Street, Bombay 3 ; Rs. 3,59,411. (238—B-169).

Nesserwanji Manockjee Petit Charity Fund, Petit Building, Hornby Road, Fort ; Rs. 3,31,208. (649—C-58).

The Bombay Prarthana Samaj, B. A. Rege, Asstt. Secretary of the Samaj, Charni Road, Bombay No. 4 ; Rs. 2,53,451. (F-130).

Housing Cheap Rent

The Manekji Nowroji Sett Charities, M. K. Set, Kodak House, III Floor, Hornby Road, Bombay 1 ; Rs. 11,96,550. (C-222).

Nowrosjee N. Wadia Trust Buildings for Parsis, The Secretary, R. N. Wadia Trust, Neville House, Ballard Estate, Fort, Bombay ; Rs. 3,64,827. (C-269).

Rustomjee N. Wadia Trust Building for Parsis, The Secretary, R. N. Wadia Trust, Neville House, Ballard Estate, Fort, Bombay ; Rs. 2,55,598. (C-270).

Allopathic Hospitals

Bhatia General Hospital, Tardeo Road, Kalyanji Canji Meghji, 36-A, Hughes Road, Bombay 7 ; Rs. 2,74,630. (110—A-746).

(Haji) Esuf Mahomed Suleman's Charities, Ebrahim Yusuf Botwala, 140, Shariff Devji Street, Bombay 3 ; Rs. 3,59,411. (238—B-169).

Habib Esmail Memorial Trust, Rasool A. Rangoonwala, 125, Jail Road (East), Bombay 9 ; Rs. 4,78,455. (278—B-501).

The Bomanjee Dinshaw Petit Parsee General Hospital, D. H. Petit, Cumballa Hill, Bombay 26 ; Rs. 4,03,654. (112—C-687).

Masina Hospital, Dr. (Miss) Meherbanoo Hormasji Masina, Victoria Road, Bombay 27 ; Rs. 2,81,787. (565—C-157).

Bel Air Sanatorium, Panchgani, Sir Shapoorji B. Billimoria, Kt., 21, Cuffe Parade, Colaba ; Rs. 4,29,525. (77—E-186).

The Bombay European Trust, The Secretary, Bombay European Hospital Trust, 60A, Bhulabhai Desai Road, Bombay 26 ; About Rs. 6 lakhs. (113—E-793).

Sir Dorabji Tata Trust, Professor Rustom Dossabhoy Choksi, Bombay House, Bruce Street, Fort ; Rs. 18,40,443. (239—E-304).

Dr. Balabhai Nanawati Hospital, R. M. Nanawati, Member, Executive Council, Dr. B. Nanawati Hospital, 16, Apollo Street, Fort ; Rs. 4,07,831. (41—F-231).

Sir Hurkisondas Narotamdas Hospital, The Hon. Secretary, New Charni Road, Bombay ; Rs. 7,82,615. (A-1364).

The Diamond Jubilee Trust, Bombay, Smt. Zarina E. G. Currimbhoy, Khoja Jamatkhana Compound, Chinch Bunder Road, Khadak, Bombay 9 ; Rs. 3,16,280. (B-755).

Bai Jerbai Wadia Hospital for Children, Neville House, Ballard Estate, Fort, Bombay ; Rs. 3,57,438. (E-943).

The Church of Scotland Western India Mission, c/o Wilson College, Bombay 7 ; Rs. 3,26,600. (F-366).

Library

The Bombay Prarthana Samaj, B. A. Rege, Asstt. Secretary of the Samaj, Charni Road, Bombay No. 4 ; Rs. 2,53,451. (F-130).

Sanatoria

The Tulsidas Gopalji Charitable and Dhakaleshwar Temple Trust, 10-A, Bhulabhai Desai Road, Bombay 28 ; Rs. 8,12,377. (1593—A-221).

(Haji) Esuf Mahomed Suleman's Charities, Ebrahim Yusuf Botwala, 140, Shariff Devji Street, Bombay 3 ; Rs. 3,59,411. (238—B-169).

Nesserwanji Manockjee Petit Charity Fund, Petit Building, Hornby Road, Fort ; Rs. 3,31,208. (649—C-58).

Trusts of the Funds and Properties of the Parsi Panchayat, Bombay, The Joint Secretary, Parsi Panchayat, 209, Dr. Dadabhoy Naoroji Road, Fort ; Rs. 11,32,606. (702—C-416).

Bel Air Sanatorium, Panchgani, Sir Shapoorji B. Billimoria, Kt., 21, Cuffe Parade, Colaba ; Rs. 4,29,525. (77—E-186).

Bai Kabibai and Hansraj Morarji Charity Trust, 26, Holi Chakla, Fort ; Rs. 4,26,954. (393—E-585).

Scholarships—College

Seth Mafatlal Charity Trust, Yogendra N. Mafatlal, Mafatlal House, Back Bay Reclamation, Bombay 1 ; Rs. 2,20,643. (516—E-723).

University of Bombay Endowment Accounts, The Registrar of the University, Bombay 1 ; Rs. 2,79,368. (E-188).

Scholarships—Foreign

Sir Dorabji Tata Trust, Prof. Rustom Dossabhoy Choksi, Bombay House, 24, Bruce Street, Fort ; Rs. 18,40,443. (239—E-304).

Seth Mafatlal Charity Trust, Yogendra N. Mafatlal, Mafatlal House, Back Bay Reclamation, Bombay 1 ; Rs. 2,20,643. (516—E-723).

Scholarships—Research

Sir Dorabji Tata Trust, Prof. Rustom Dossabhoy Choksi, Bombay House, 24, Bruce Street, Fort ; Rs. 18,40,443. (239—E-304).

Tata Institute of Fundamental Research, R. Choksi, Tata Institute, Apollo Pier Road, Bombay 1 ; Rs. 6,08,358. (E-660).

Schools—Commercial and Industrial

The Dawoodbhoy Fazalbhoy Muslim Educational Trust, 42, Pydhonie Road, Bombay ; Rs. 2,75,500. (194—B-611).

The Behramji Nowroji Gamadia Parsee Hunnarshala Trust, Meherji Behramji Khambatta, Gamadia Colony, 8, Tardeo Road, Bombay 7 ; Rs. 2,48,996. (95—C-587).

Trusts of the Funds and Properties of the Parsi Panchayat, Bombay, The Joint Secretary, Parsi Panchayat, 209, Dr. Dadabhoy Naoroji Road, Fort ; Rs. 11,32,606. (702—C-416).

The Children Aid Society, The Hon. Secretary, 83, Lady Hardinge Road, Mahim, Bombay 16 ; Rs. 9,06,453. (121—F-205).

The Social Service League, The Secretary, Servants of India Society's Home, Sandhurst Road, Bombay 4 ; Rs. 2,54,458. (330—F-152).

Stri Zarthosti Mandal and Sir Ratan Tata Industrial Institute, The Hon. Gen. Secretary, 35, Hughes Road, Bombay 7 ; Rs. 7,10,225. (F-326).

Schools—Primary, Secondary

Habib Ismail Memorial Trust, Rasool A. Rangoonwala, 125, Jail Road (East), Bombay 9 ; Rs. 4,78,455. (278—B-501).

The Bombay Education Society (in which is incorporated the Indo-British Institution), The Ven'ble A. S. M. Johnson, Hon. Secretary, Bombay Education Society, Clare Road, Byculla, Bombay 8 ; Rs 3,79,000 (112—E-776).

Seth Goculdas Tejpal Charities Trust, Secretary, V. H. Bhatt, G.T. Charities, 7, Bastion Road, Fort ; Rs. 4,24,804 (281—L-800).

Bai Kabibai and Hansraj Morarji Trust, 26, Holi Chakla, Fort ; Rs. 4,26,954. (393—E-585).

Vanita Vishram, The Hon. Secy., Sandhurst Road, Bombay 4 ; Rs. 2,06,611. (866—E-568).

Aryan Education Society, Joint Hon. Secretary, 75, Girgaum Road, Bombay 4 ; Rs. 3,51,036. (27—F-393).

Chikitsaka Samuha, The Hon. Secretary, 52, Sadashiv Cross Lane, Girgaum, Bombay 4 ; Rs. 2,38,783. (120—F-110).

Santa Cruz Education Society, Ramdeoji A. Podar, Podar Chambers, Parsi Bazar Street, Fort ; Rs. 2,22,953 (300—F-254).

The Social Service League, The Secretary, Servants of India Society's Home, Sandhurst Road, Bombay 4 , Rs. 2,54,458 (330—F-152).

Shree Vile-Parle Kelavani Mandal, c/o G.P.P. High School, Dadabhai Road, Vile-Parle (West) ; Rs. 2,24,154. (365—F-30).

The Diamond Jubilee Trust, Bombay, Smt. Zarina E. G. Currimbhoy, Khoja Jamatkhana Compound, Chinch Bunder Road, Khadak, Bombay 9 ; Rs. 3,16,280. (B-755).

Church of St. Francis Xavier, Dahul, Burrows Lane, Bombay 2, Very Rev. Mgr. Basilo A. Pinto, Burrows Lane, Bombay 2; Rs. 3,09,501. (D-123).

The Anglo-Scottish Education Society, Hon. Secretary, 6, Outram Road, Bombay 1 ; Rs. 3,37,513. (D-72).

The Bombay St. Xavier's Society, Rev. A. Balta, S.J., Treasurer, St. Xavier's High School, Carnac Road, Bombay 1 ; Rs. 2,76,739. (F-424).

The Provincial Society of the Congregation of Jesus and Mary, Rev. Mother St. Ursula, Convent of Jesus & Mary, Clare Road, Byculla, Bombay; Rs. 8,41,560. (F-428).

The Bombay St. Mary's Society, The Rector, St. Mary's High School, Nesbit Road, Mazagaon, Bombay 10; Rs. 5,25,297. (F-429).

The Don Bosco Society, The Prefect, Don Bosco High School, Matunga, Bombay 19; Rs. 2,07,000. (F-430).

St. Joseph Convent, Rev. Sister Provincial, Hill Road, Bandra, Bombay 20; Rs. 10,49,501.

Bharatiya Vidya Bhavan, Charandas Meghji, Chowpatti Road, Bombay 7; Rs. 4,30,032. (F-358).

The Bombay Prarthana Samaj, B. A. Rege, Asstt. Secretary of the Samaj, Charni Road, Bombay No. 4; Rs. 2,53,451. (F-130).

The Church of Scotland Western India Mission, c,o Wilson College, Bombay 7; Rs. 3,26,600. (F-366).

Indian Education Society, Velji Lakhamsi, I.E.S. Hindu Colony, Dadar, Bombay; Rs. 6,14,054. (F-190).

Schools—Technical

Habib Ismail Memorial Trust, Rascol, A. Rangoonwala, Habib Ismail Memorial Trust, 125, Jail Road (East), Bombay 9; Rs. 4,78,455. (278—B-501).

The Social Service League, Secretary, Servants of India Society's Home, Sandhurst Road, Bombay 4; Rs. 2,54,458. (330—F-152).

Victoria Jubilee Technical Institute, The Principal and Secretary, Matunga, Bombay 19; Rs. 8,11,193. (359—F-170).

Welfare—Animals and Birds

(Shri) Madhavbag and Laxminarayan Temple Trust, Manordas Tribhowandas, Shri Madhavbag Trust, C.P. Tank Road, Bombay 3; Rs. 2,07,864. (901—A-139).

The N. M. Wadia Charities, R. A. Dalal, Secretary, The N. M. Wadia Charities, 22D, Parsi Bazar Street, Fort; Rs. 7,10,836. (627—E-152).

The Bombay Society for the prevention of cruelty to Animals including the Bai Sakarbai Dinshaw Petit Hospital for Animals, The Secretary and Treasurer, No. 1, Government Gate Road, Parel, Bombay 12; Rs. 3,76,484. (97—F-304).

Shri Ghatkopar Sarvajanik Jiva Daya Khatu, Agra Road, Ghatkopar (C. Rly.), Greater Bombay; Rs. 3,41,900. (A-912).

The Bombay Panjarapol, The Secretary of the Institution, Bhuleshwar, Bombay 4; Rs. 5,34,524. (E-127).

Bombay Gaurakshak Mandali, Hon. Jt. Secretaries, Mulji Jetha Cloth Market Hall, Bombay 2; Rs. 2,62,446. (F-5).

Welfare—Children and Women

The Bombay Mothers' and Children's Welfare Society, Dr. Krishnarao Shripat Mhaskar, No. 10, B.D.D. Chawl, Delisle Road, Bombay 11; Rs. 2,13,755. (84—F-137).

The Children's Aid Society, The Hon. Secy., 83, Lady Hardinge Road, Mahim, Bombay 16; Rs. 9,06,453. (121—F-205).

Seva Sadan Society, Miss B. A. Engineer, Seva Sadan, Gamdevi, Bombay 7; Rs. 3,44,785. (319—F-125).

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JAMSETJEE NESSERWANJI PETIT INSTITUTE

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Librarian.—Minocher K. Mowdawala, B.A., LL.B., A.L.A.

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KARNATAKA READING ROOM AND LIBRARY

46, Vir Nariman Street, Bombay 1.

MAHARASHTRA MITRA MANDAL LIBRARY AND FREE READING ROOM

Saraswati Building, Government Gate Road, Lalbaug, Bombay 12.

President: Y. S. Shinde.

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St. Mary's Road, Block 3, Room No. 40, Mazagaon.

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Maneck Mansion, 8, Nanabhai Lane, Bombay 1.

MOOLJIBHOY JIVRAJ KHOJA GENERAL READING ROOM AND LIBRARY

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9, Dontad Cross Lane, Khadak, Bombay 9.

President.—Mahomed Umer Fakirmahomed Kokil, *Vice-President.*—Fazlalibhai Hatim Kanga; *Chairman.* Gulamhusein Mahomed Sagir; *Vice-Chairman.* Pyarali Rahemtulla Keshvani. *Hon. Treasurer.* Abdulrasul G. Nathani. *Hon. Secretary.*—Shamun Hakimuddin Bakir "Rafique"; *Hon. Auditor.* Shamsudin Rahim Waras.

MUMBAI MARATHI GRANTHA SANGRAHALAYA

Thakurdwar, Bombay 2.

MUNSHI SARASWATI MANDIR GRANTHAGAR

Bharatiya Vidya Bhavan, Chowpatty Road, Bombay 7.

PEOPLE'S FREE READING ROOM AND LIBRARY

Ravelin Street, Dadabhai Naoroji Road, Fort.

This charitable institution is open, free of charge, to the public without distinction of caste or creed subject to the rules in that behalf. Besides a reading room, there is a well selected library. The reading room is kept open from 7 a.m. to 7 p.m. The Institution has two branch libraries one at Dhobi Talao and another at Dadar.

Secretary and Chief Librarian.—J. S. Jariwalla, B.A., LL.B.

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14, Air View, Vakola, Santa Cruz, Bombay 29.

SHRIMAN MUNI MAHARAJ SHRI MOHANLALJI JAIN CENTRAL LIBRARY AND SANSKRIT PATHSHALA

Near Madhavbag, Bombay 4.

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TATA INSTITUTE OF FUNDAMENTAL RESEARCH LIBRARY

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SWIMMING POOLS AND BATHS IN GREATER BOMBAY

BREACH CANDY SWIMMING BATH TRUST

66, Bhulabhai Desai Road, Bombay.

Dimensions of Pool : The main pool is irregular in shape covering an area of approximately 3,500 sq. yards containing about 1½ million gallons of sea water.

Admission : Restricted to the European community on daily and season ticket rates.

Chairman.—C. S. Barrett.

Honorary Secretary.—J. T. Kellock.

Honorary Treasurer.—F. F. Stewart.

GOLWALLA'S VICTORIA SWIMMING BATH

Back Bay, Fort, Bombay.

This has been a Cosmopolitan Swimming Pool since 1901, and over 100,000 people of both sexes have learnt Swimming, Diving and Water Polo.

The Bath has also a most up-to-date Rowing and Boating Club for the benefit of all its members and a modern Restaurant.

The Bath is open to all communities of both sexes and special personal instruction in Swimming, Diving, Life Saving, Water Polo, Rowing etc., is given by a staff of well qualified teachers.

MAFATLAL PARK SWIMMING POOL

Bhulabhai Desai Road, Bombay.

Dimensions of the Pool : 60 ft. 6 in. long and 30 ft. 4 in. wide. The depth varies from 3 ft. at one end to 8 ft. 3 in. at the deepest point and again reduces to 6 ft. 9 in. at the other end.

The swimming pool is meant for the use of the tenants of Mafatlal Park only, free of charge. However tenants can bring their own guests in which case they are charged at the rate of Re. 1 per guest, per day.

The Swimming Pool is managed by Messrs. Mafatlal Gagalbhai Co., Private Ltd., Bombay, the proprietors of Mafatlal Park.

MAHATMA GANDHI MEMORIAL OLYMPIC SWIMMING POOL

(Bombay Municipal Corporation).

Cadell Road, Bombay 28.

Largest fresh-water pool in India constructed by the Bombay Municipality as a memorial to Mahatma Gandhi. The pool can accommodate over 450 persons at a time.

Dimensions of the Pool : 165 ft. by 60 ft. with a recess for diving 60 ft. by 40 ft. Depth varying from 3 ft. shallow end to 16 ft. below the diving stage. Capacity 7½ lakhs of gallons.

Entrance fee : Rs. 5 ; Quarterly : Rs. 8 ; Yearly : Rs. 30. Special class fee : Rs. 20 per quarter ; Instruction fee Rs. 10 ; Casual Dip As. 8 : Visitors' Gallery Anna 1, Labourers & Factory workers at Anna 1 on Sundays only.

Manager : J. T. Kellock.

MINT SWIMMING POOL

India Government Mint, Bombay.

The Mint swimming pool is a private pool meant for the exclusive use of Mint Recreation Club members at no extra cost.

Dimensions of the Pool : Length—40'-0" ; Breadth—15'-0" ; Depth —Shallow end 4'-0", Deep end 9'-0".

President.—B. S. D. Aiyar.

PRANSUKHLAL MAFATLAL HINDU SWIMMING BATH AND BOAT CLUB TRUST

Office : Netaji Subhas Road, Bombay 7.

The above Club owns two swimming pools (Gents' and Ladies') situated at Marine Drive with a total strength of about 7,000 members ; the area covered is about 1,200 sq. yards, and constructions cost about Rs. 6,25,000.

The Club is governed by a scheme approved by the High Court and managed by a Managing Committee consisting of five Trustees as ex-officio members in addition to fourteen elected members.

Hon. Secretary.—B. Rattanshi.

Hon. Treasurer.—Dhirajlal S. Dalal.

WILLINGDON SPORTS CLUB SWIMMING POOL

Bombay 11.

(For Members only).

Size of the Pool—60' × 30'.

Depth—at shallow end 3'-6".
" below high diving board 9'.
" at deep end 7'.

Capacity of Pool—80,000 gallons.
" of Filtration Plant—7,000 gallons per hour.

Admission : Members and their guests only.

BANKS and BANKERS

ALLAHABAD BANK, LTD.

(Established 1865).

Affiliated to the Chartered Bank.

AUTHORISED CAPITAL	Rs.	1,00,00,000
ISSUED CAPITAL	Rs.	60,00,000
PAID-UP CAPITAL	Rs.	45,50,000
RESERVE FUND	Rs.	1,08,00,000

LONDON CORRESPONDENTS :—The Chartered Bank.

HEAD OFFICE :—Calcutta.

BOMBAY OFFICES

Allahabad Bank Building, 35-39, Apollo Street. Agents—A. B. Adam. Asstt. Agent—B. Longmate. Accountant—N. S. Chakravarti. Asstt Accountants—P. S. Krishnan, P. K. Ghose, K. S. Gupta, C. M. Chandran and H. R. Rao Tel. Address : "Allah." Phone for Office No. 253546, for Agent No. 251935. P O. Box No. 282.

BOMBAY CITY (Kalbadevi)

Western India Chamber of Commerce Building, 232-34, Kalbadevi Road Agent—A. D. Nadkarni. Asstt. Agents—H. N. Kapoor & D. T. Barve Tel. Address : "Allacity." Phone No. 29404.

BRANCHES

Agra, Agra—Johri Bazar, Ahmedabad, Pankore Naka, Ahmedabad Maskati Market, Akola, Aligarh, Allahabad, Allahabad City, Allahabad-Katra, Ambala Cantt., Amritsar, Banaras, Bareilly, Bareilly City, Batala, Bhagalpur, Bhopal, Bombay, Bombay (Kalbadevi Road), Calcutta, Calcutta—Burra Bazar, Calcutta—Cornvallis Street, Calcutta Shambazar, Calcutta South, Chanda, College Street Market, Delhi, Deoria, Drug, Etawah, Faizabad, Firozabad, Ghaziabad, Gorakhpur, Hapur, Hardoi, Hathras, Jabalpur City, Jhansi, Jullundur City, Kanpur, Kanpur City, Lucknow, Lucknow—Aminabad Park, Lucknow City, Ludhiana, Mathura, Meerut, Meerut City, Mirzapur, Modinagar, Moradabad, Moradabad City, Mussoorie, Muzaffarnagar, Nagpur, Nagpur City, Naini Tal, New Delhi, New Delhi-Karolbagh, Orai, Patna, Patna University, Rae Bareli, Raipur, Rajnandgaon, Satna, Shahjahanpur, Sitapur and Varanasi (Banaras).

PAY OFFICES

Auraiya, Banda, Bandikui, Buxar, Fatehpur, Ghazipur, Gorakhpur City, Jabalpur—Civil Lines, Kalpi, Mahoba and Shahjahanpur City.

CASH OFFICES

Belanganj, Agra, Muslim University, Aligarh.

CODE USED :—Bentley's Complete Phrase Code.
Bentley's Second Phrase Code.

CORRESPONDENTS—In all the Principal Towns throughout India.

THE AMERICAN EXPRESS COMPANY, INC.

(Incorporated in the U.S.A. with limited liability)

International Bankers, Travel & Shipping Agents.

HEAD OFFICE : 65, Broadway, New York, N.Y. CAPITAL : (Paid-up) : U.S. $6,000,000. SURPLUS and RESERVES : U. S. $8,499,065. LONDON OFFICE : 6, Haymarket, S.W.1. BOMBAY OFFICE : 364, Dr. Dadabhai Naoroji Road, Fort, Bombay 1. Grams : "AMEXCO", Phone Nos. 25-5021/4. Branches in all the principal cities throughout the world.

BANK OF BARODA, LIMITED

Apollo Street, Bombay. CAPITAL AUTHORISED Rs. 2,40,00,000 ; CAPITAL ISSUED and SUBSCRIBED Rs. 2,00,00,000 ; CAPITAL CALLED and PAID-UP Rs. 1,00,00,000 ; RESERVE FUNDS Rs. 1,28,00,000. HEAD OFFICE.—Baroda. General Manager.—N. M. Chokshi. BRANCHES.—Ahmedabad (Bhadra), Ahmedabad (Panch Kuwa), Ahmedabad (Mahatma Gandhi Road), Alwaye, Amreli, Amritsar, Bangalore, Baroda (Sayaji Ganj), Bhavnagar, Billimora, Bombay (Fort, Bullion Hall, Mandvi, Zaveri Bazar, Backbay Reclamation) Calcutta (India Exchange, Burra Bazar, Cross Street and Shambazar), Cambay, Cochin, Coimbatore, Dabhoi, Delhi, Dhulia (West Khandesh), Dwarka, Ghatkopar (Bombay), Guntur, Harij (N.G.), Hyderabad (Dn.), Jalgaon (East Khandesh), Jamnagar, Kadi, Kalol (N.G.), Kanpur, Kapadwanj, Karjan, Lucknow, Madras, Madras (Theagaroyanagar), Madras (Mylapore), Mehsana, Mithapur, Navsari, Navsari (Station Road), New Delhi, Patan, Petlad, Poona City, Poona Camp, Porbandar, Port Okha, Radhanpur (N.G.), Rajkot, Rajpipla, Sankheda, Secunderabad, Sidhpur, Surat, Surendranagar (Wadhwan Camp), Unjha (N.G.), Veraval, Vijapur, Visnagar (N.G.), Vyara.

OVERSEAS BRANCHES.—Mombasa, Kampala, Nairobi, Dar-es-Salaam (Br. East Africa) and London (U.K.).

Agents at important foreign centres.

BANK OF CHINA

(Incorporated in China—Liability of Members Limited).

HEAD OFFICE :
Peking, China.

BRANCHES AND CORRESPONDENTS :
All over China.

OVERSEAS OFFICES :
London, Singapore, Penang, Kuala Lumpur, Surabaia, Djakarta, Medan, Hongkong, etc.

India—Pakistan—Burma area :

CONTROLLING OFFICE, CALCUTTA.—15, Brabourne Road.

BOMBAY OFFICE.—Lakshmi Insurance Building, Sir Phirozshah Mehta Road.

KARACHI OFFICE.—Oriental Building, McLeod Road.

CHITTAGONG OFFICE.—Sadarghat Road.

RANGOON OFFICE.—312-324, Strand Road, Corner of China Street.

BANK OF INDIA, LIMITED

REGISTERED UNDER THE INDIAN COMPANIES ACT VI OF 1882.

(Established 7th September, 1906).

Registered Office.—Mahatma Gandhi Road, Fort, Bombay.

Overseas Branches :—Aden, Dar-es-Salaam, Jinja, Kampala, Karachi, London, Mombasa, Nairobi, Osaka, Singapore, Tokyo.

Branches in India :—

BOMBAY—Andheri, Bandra, Bullion Exchange, Colaba, Kalbadevi, Malabar Hill.

AHMEDABAD—Bhadra (Main Office), Ellis Bridge, Gandhi Road, Manek Chowk, Station Branch.

CALCUTTA—23-B, Netaji Subhas Road (Main Office), Bara Bazar, Chowringhee Square.

Other Branches.—Amritsar, Bangalore, Bhuj (Kutch), Coimbatore, Delhi, Gandhidham (Kutch), Hyderabad (Deccan), Jamshedpur, Junagadh, Kozhikode (formerly Calicut), Madras, Nagpur, Nagpur City, New Delhi, Palanpur, Poona, Poona City, Rajkot, Sholapur, Surat, Veraval.

CAPITAL—AUTHORISED, ISSUED AND SUBSCRIBED	Rs.	5,50,00,000
CAPITAL PAID-UP	Rs.	3,00,00,000
RESERVE FUND	Rs.	3,10,00,000

Directors.—Sir Cowasjee Jehangir, Baronet, G.B.E., K.C.I.E. (*Chairman*) ; Ambalal Sarabhai ; Sir Joseph Kay, K.B.E. ; Ramniwas Ramnarain ; Bhagvandas C. Mehta ; Krishnaraj M. D. Thackersey ; A. D. Shroff ; Madanmohan Mangaldas ; N. K. Petigara and Sir Vithal N. Chandavarkar. *General Manager*—T. R. Lalwani ; *Assistant General Managers*—R. W. Hoe, S. J. Rustomji, T. D. Kansara ; *Chief Accountant*—H. A. Currimbhoy ; *Chief Cashier*—B. M. Daruwalla.

Agents—In all the principal countries of the world.

BANK OF JAIPUR, LTD.

(INCORPORATED IN JAIPUR, LIABILITY OF MEMBERS LIMITED).

HEAD OFFICE—Jaipur. CAPITAL.—AUTHORISED Rs. 2,00,00,000 ; ISSUED & SUBSCRIBED Rs. 1,00,00,000 ; PAID-UP Rs. 50,00,000 ; RESERVE & OTHER FUNDS Rs. 22,25,000. BRANCHES.—Bombay, Madras, Bangalore, Delhi, Calcutta and in other important towns in India and Rajasthan Union.

THE BANK OF MAHARASHTRA, LTD.

REGISTERED OFFICE.—Bajirao Road, Poona 2.

CAPITAL ON 31ST DECEMBER 1957.

PAID-UP	Rs.	22,94,000
RESERVE AND OTHER FUNDS ..	"	11,50,000
TOTAL WORKING FUNDS EXCEED	"	9,26,00,000

BOARD OF DIRECTORS :

V. P. Varde (*Chairman*), N. G. Pawar (*Vice-Chairman*), D. K. Sathe, F. D. Pudumjee, M. V. Shah, B. M. Gupte, R. B. M. B. Jambhekar and M. S. Parkhe.

BRANCHES:

Ahmednagar, Akola, Amraoti, Aurangabad, Belgaum, Bombay (Fort, Girgaon, Zaveri Bazar, Dadar), Bhiwandi, Chalisgaon, Dhulia, Harihar, Hubli, Hyderabad (Dn.), Jalgaon, Jalna, Kalyan, Kirloskarwadi, Kolhapur, Kopergaon, Nagpur, Nanded, Nasik, Panvel, Poona (Bhavani Peth, Deccan Gymkhana and Kirkee), Ratnagiri, Sangli, Sholapur (Phaltan Gali and Morarji Peth), Shrirampur, Thana, Mominabad, Hingoli, Latur and Sion.

MANAGER: C. V. Joag, B.COM., F.I.B. (Lond.).

THE BANK OF TOKYO, LIMITED

(Successor to The Yokohama Specie Bank Ltd.).

Incorporated in Japan.

Liability of Shareholders Limited.

Head Office:

Nihombashi, Chuoku, TOKYO (Japan).

Bombay Branch:

Fort House, 221, Dr. Dadabhai Naoroji Road, Fort, Bombay.

MANAGER: MR. T. OHNUMA.

Calcutta Branch:

No. 5, Clive Row, Calcutta.

MANAGER: MR. Y. BABA.

Karachi Branch:

Qamar House, Bunder Road, Karachi 2.

MANAGER: MR. M. ASANO.

BOMBAY MERCANTILE CO-OPERATIVE BANK LIMITED

ESTD. JUNE 1939.

HEAD OFFICE: 78, Mohamedali Road, Bombay 3.

Phone: 30017 (3 lines).

AUTHORISED CAPITAL	Rs. 10,00,000
ISSUED, SUBSCRIBED AND PAID-UP CAPITAL	,, 5,24,000
RESERVE AND OTHER FUNDS	,, 3,21,000
DEPOSITS	,, 104,00,000
WORKING CAPITAL	,, 118,06,000

Annual Turnover Exceeds Rupees Sixteen Crores (Government Audit Classification "A").

CHAIRMAN:—Khan Bahadur Mohamedally Allabux.

GENERAL MANAGER:—Z. G. Rangoonwalla.

Branches:—Jariwalla Building, Null Bazar, Bombay 3. Phone: 73378. 294, Abdulrehman Street, Bombay 3. Phone: 30017 (3 lines).

All kinds of Banking Business Transacted.

THE BOMBAY STATE CO-OPERATIVE BANK, LTD.

9, Bakehouse Lane, Fort, Bombay 1.

(Established in 1911).

CHAIRMAN.—Shri Ramanlal G. Saraiya, O.B.E.

Money Deposited with this Bank helps the Indian Agriculturists and Co-operatives.

PAID-UP SHARE CAPITAL:

Subscribed by the Share Holders Rs. 42,08,000

Subscribed by the Govt. of Bombay Rs. 66,00,000

	Rs. 1,08,08,000
RESERVE AND OTHER FUND	Rs. 60,76,000
TOTAL DEPOSITS	Rs. 11,00,26,000
WORKING CAPITAL	Rs. 20,50,00,000

BRANCHES 60 IN 11 DISTRICTS.

Collection arrangements in all the important Cities of Indian Union. Banking business of every description transacted. Deposits of all kinds accepted. Terms on application.

G. M. Laud,
Managing Director.

THE BRITISH BANK OF THE MIDDLE EAST

(Incorporated in England by Royal Charter 1889)

HEAD OFFICE:—7, King William Street, London E.C. 4.

AUTHORISED CAPITAL	£4,000,000
ISSUED AND FULLY PAID-UP	£2,000,000
RESERVE FUND	£2,171,209

BOARD OF DIRECTORS:—Sir Dallas Bernard, Bt., (*Chairman*); G. C. R. Eley, C.B.E. (*Deputy Chairman*); Sir Kinahan Cornwallis, G.C.M.G., C.B.E., D.S.O., F. Hale, Sir Alec Seath Kirkbride, K.C.M.G., C.V.O., O.B.E., M.C., M. R. Norman, O.B.E., S. J. Pears, F.C.A. (*General Manager*); H. Musker, O.B.E., M.C. (*Deputy General Manager*); C. F. Warr, O.B.E.

Branches:—Aden (Crater), Bombay, Baghdad, Basra, Amman, Jerusalem, Beirut, Tripoli (Lebanon), Benghazi, Tripoli (Libya), Bahrain, Doha, Dubai, Kuwait (and Ahmadi), Muscat, Sharjah, Alkhobar (for Dhahran), Jeddah Aleppo, Damascus & Tunis.

Bombay Branch:—314, Dr. Dadabhai Naoroji Road; *Manager*:—P. L. Sandeman. *Sub-Manager*:—R. R. Rees. Telephone: 252267-68. Tel. Add.: "BACTRIA".

CANARA BANK, LIMITED

(Established in 1906). HEAD OFFICE:—Mangalore, South Kanara, Administrative Office: Bangalore. CHAIRMAN.—A. Damodar Pai, B.A., B.L. GENERAL MANAGER:—P. S. Nayak, B.A., B.L., F.I.I.B. General Manager's Office:—Sir Phirozshah Mehta Road, Fort. Foreign Departments in Bombay and Madras. LOCAL BRANCHES:—1. Fort:—Sir Phirozshah Mehta Road. 2. Mandvi:—First Floor, 74-76, Kazi Syed Street, Khand Bazaar. 3. Kalbadevi:—304, Angrewadi, near Swadeshi Market. 4. Girgaum:—Sri Pant Bhuwan, Charni Road. 5. Bandra:—133-B, Hill Road. 6 Sion:—Mukund Nivas, near Bus Stop. 7. Worli:—86, Dr. Annie Besant Road. 8 Mazagaon:—38/42, Dockyard Road. 9. Dadar:—51, Ranade Road Extension. Altogether 61 branches in all important commercial centres in the States of Madras, Bombay, Andhra Pradesh, Mysore, and Kerala. One branch at Karachi (Pakistan).

CANARA BANKING CORPORATION, LIMITED

(Estd. 1906). HEAD OFFICE:—UDIPI (South Kanara). CAPITAL:—AUTHORISED Rs. 25,00,000; ISSUED, SUBSCRIBED, CALLED and PAID-UP Rs. 20,00,000; RESERVES Rs. 12,75,000; TOTAL WORKING CAPITAL exceeds Rs. 7,04,25,000 as on 31-12-1956. BRANCHES:—Fort, *Bombay Office*:—"Lentin Chambers", Ground Floor, Dalal Street, Fort. Telegrams: "BANKING." Phone No. 252977 Mandvi—*Bombay Office*: 209,211, Narsi Natha Street, Bombay 9. Telegrams: "Ready Money." Phone No. 73342. Other 47 Branches in the States of Madras, Andhra, Bombay, Mysore, and Kerala. Banking Business of every Description Transacted. GENERAL MANAGER:—V. R. Kamath, B.A., LL.B. AGENT AT FORT, BOMBAY:—K. Krishna Rao, M.A., C.A.I.I.B. AGENT AT MANDVI, BOMBAY:—K. Sanjiva Kamath, B.A., C.A.I.I.B.

THE CANARA INDUSTRIAL & BANKING SYNDICATE, LIMITED

HEAD OFFICE:—UDIPI (South India).

AUTHORISED CAPITAL Rs. 56,00,000; RESERVES Rs. 18,00,000; ISSUED CAPITAL Rs. 32,22,787; DEPOSITS Rs. 10,31,06,670; SUBSCRIBED CAPITAL Rs. 32,10,987; PAID-UP CAPITAL Rs. 28,47,071; RESOURCES of Rs. 12,81,65,913.

As on 31st December 1957.

Board of Directors:

DR. T. M. A. Pai, M.B.B.S., CHAIRMAN AND MANAGING DIRECTOR

P. P. Rao, B.A., B.L.
M. M. Prabhu Shiroorkar
V. V. Shanbhag
L. M. Prabhu, B.A., LL.B.
K. Gururaja Rao, B.A., B.L.
B. Padmanabha Pai
K. V. M. Kamath
A. L. N. Rao, B.A., B.L.

GENERAL MANAGER:—T. A. Pai, B.Com. (Hons.), A.I.I.B., F.R. Econ. (Lond.).

BOMBAY MANAGER:—K. L. V. Nayak.

BOMBAY OFFICE:—Rahimtoola House, Homji St., Fort.

100 Branches through South India—States of Mysore, Kerala, Andhra, Bombay and Madras—and Agencies all over India.

THE CENTRAL BANK OF INDIA, LIMITED

(Established—December, 1911)

HEAD OFFICE : Mahatma Gandhi Road, Fort, Bombay 1.

AUTHORISED CAPITAL	Rs.	6,30,00,000
SUBSCRIBED CAPITAL	,,	5,76,66,125
PAID-UP CAPITAL	,,	3,14,54,250
RESERVE FUND & OTHER RESERVES	,,	4,03,60,820
DEPOSITS AS AT 31-12-1957 ..	,,	1,55,14,50,664

DIRECTORS :

Sir Homi Mody, K.B.E. (*Chairman*) ; Cooverji Hormusji Bhabha, Esq. (*Vice Chairman*) ; Dinshaw D. Romer, Esq. ; Dharamsey Mulraj Khatau, Esq. ; Manmohandas Madhavdas Amersey, Esq. ; C. P. Wadia, Esq. ; Chimanlal Bapalal Parikh, Esq. ; Framroze J. Guzdar, Esq. ; Sir Jamsetjee Jejeebhoy, Bart. ; His Highness Sir Jiwajirao Madhavrao Scindia, G.C.S.I., G.C.I.E., Maharaja of Gwalior.

Branches and Pay Offices in all important Commercial Centres of India, Pakistan and Burma.

LONDON BRANCH :

159, Fenchurch Street, London, E.C. 3.

NEW YORK AGENTS :

The Guaranty Trust Co. of New York.
The Chase Manhattan Bank.

N. K. Karanjia,
GENERAL MANAGER.

THE CHARTERED BANK

(INCORPORATED IN ENGLAND BY ROYAL CHARTER, 1853.)

Wholly owned subsidiary bank : The Eastern Bank Ltd.
Affiliated bank in India : The Allahabad Bank Ltd.

CAPITAL	£ 4,400,000
RESERVE FUND	£ 5,000,000

HEAD OFFICE.—38, Bishopsgate, London, E.C. 2.

COURT OF DIRECTORS.—Vincent Alpe Grantham (*Chairman*); Sir John Tait (*Deputy Chairman*) ; Sir Paul Benthall, K.B.E. ; Sir Arthur Atkinson Bruce, K B E, M C ; William Ewing Eadie, C.A. ; Sir Stephen Gibson, C B E ; Sir Harry Greenfield, C.S.I., C.I.E ; The Rt Hon The Earl of Inchcape , Sir Evan Meredith Jenkins, G C I E., K.C S I , Ian Lilburn MacEwen ; Sir Charles Watt Miles, O B E ; Ernest John Pakes, C B E. ; Sir John Henry Swain Richardson ; Clifford Waite.

CHIEF GENERAL MANAGER.—H. F. Morford.

JOINT GENERAL MANAGERS.—W. G. Pullen, D. Beath, S. C. R. Northcote,

ASSTT. GENERAL MANAGERS.—G. A. Leiper and J. Shewan.

SECRETARY.—H. E. Faulkner.

WEST END BRANCH.—28, Charles II Street, Haymarket. London, S.W. 1.

MANCHESTER BRANCH.—52/54, Mosley Street, Manchester 2.

LIVERPOOL BRANCH.—28, Derby House, Exchange Buildings, Liverpool, 2.

NEW YORK AGENCY.—65, Broadway, New York City, 6, N.Y., U.S.A.

HAMBURG AGENCY.—Borsenbrucke, 2a, Hamburg II, Germany.

BOMBAY BRANCH.—Mahatma Gandhi Road. *Manager*.—G. Dodds ; *Sub-Manager*.—I. C. Mack ; ; *Accountant*.—T. C. Hutchison.

TELEGRAPHIC ADDRESS.—"Bungalow." Phone No. 255241 (4 Lines). P. O. Box No. 558.

REPRESENTATIVE OFFICE

THE CHASE MANHATTAN BANK, NEW YORK

(Incorporated with limited liability under the laws of the State of New York.)

CAPITAL $163,625,000 : SURPLUS and UNDIVIDED PROFITS $431,424,467. TOTAL RESOURCES OVER $7,620 million. HEAD OFFICE.—18, Pine Street, New York 15. Ninety-nine Offices in Greater New York. MAIN LONDON OFFICE.—6, Lombard St., E.C. 3 ; WEST END BRANCH.—46, Berkeley Square, W. 1 ; Other Branches in France (Paris), Germany (Frankfurt/Main), Lebanon (Beirut), Japan (Tokyo, Osaka), Cuba (4), Panama (3), Canal Zone (2), Puerto Rico (2). Other Representative Offices at Mexico, D. F., Buenos Aires (Argentina), Caracas, Rome (Italy), Venezuela. Correspondents throughout the commercial world. BOMBAY REPRESENTATIVE OFFICE. —New India Assurance Building, Mahatma Gandhi Road. Post Box No. 1961. Telephone : 258780. *Representative*.—Robert A. Fetherston.

COMPTOIR NATIONAL D'ESCOMPTE DE PARIS

(FRENCH BANK).

(Incorporated in France with Limited Liability.)

HEAD OFFICE :—14, Rue Bergere, Paris.

LONDON BRANCH.—8/13, King William Street, E.C. 4.

BOMBAY OFFICE.—French Bank Building, 62, Homji Street, Fort.

MANAGER.—E. Finot. *Sub-Manager* : J. Lamy. *1st Asstt. Mgrs.* : P. K. Badle and A. Bourgault. *Asstt Mgrs.* : Y. N. Chawathe, G. W. Kothare and K. B. Scarfe. *Attorney* : H. N. Dighe. *Relations-Officer* : A. F. D'Souza.

Phone : 251347-8-9, P.O. Box No. 45, Telegraphic Address: "COMPTONIA."

CALCUTTA OFFICE :—Stephen House, 4A, Dalhousie Square East. Phone : 232815/6, P.O. Box No. 327, TELEGRAPHIC ADDRESS: "COMPTONIA".

CODE USED.—Private, ABC 6th Edn. Lieber's, Bentley's Complete Phrase and Second Edn., Peterson's 2nd & 3rd Edns., Cogef 1929.

BRANCHES :—Sydney, Melbourne, Alexandria, Cairo, Port Said, Brussels, Ambatondrazaka, Diego-Suarez, Farafangana, Fenenerive, Flanarantsoa, Majunga, Mananjary, Manakare, Morombe, Morondava, Tamatave, Tananarive, Tulear, Bizerta, Sfax, Sousse, Tunis, Monte Carlo and over 600 Branches in France. (Affiliate—French American Banking Corporation, New York.)

DAXINI BRAHMAN CO-OPERATIVE BANK LTD.

Jayant Nivas, 163-165, Girgaum Road, Bombay.

Branch Office : Bhagirthi Nivas, N. C. Kelkar Road, Dadar, Bombay 28. Membership open to Daxini Brahman community above the age of 18, residing in the greater Bombay and the area upto Virar & Kalyan. Subscribed Capital Rs. 2,50,000. Reserves Rs. 2,30,000. Current and Savings Bank accounts can be opened by members, non-members inclusive of other Communities also. Advances to members against Gold, Silver, Government Securities, Life Insurance policies, goods, etc., are made. Advances against Gold and Silver to nominal members. Nominal Membership open to all communities. Transacts all kinds of Banking Business. Phone No. Head Office : 27738. Branch : 61514.

DEVKARAN NANJEE BANKING CO., LTD.

(Incorporated in Bombay under the Indian Companies Act on 26th May 1936.)

AUTHORISED CAPITAL	Rs.	1,00,00,000
ISSUED, SUBSCRIBED AND PAID-UP CAPITAL	,,	50,00,000
RESERVE FUNDS	,,	40,00,000

BOARD OF DIRECTORS :—Lalitchandra C. D. Nanjee (*Chairman*); Prince Udaybhan Yuvaraj Shree of Porbandar ; Natvarlal S. Choksey ; M. A. Master, B.A., LL.B. ; Jayantilal R. Trivedi, Laxmikant S. Dabholkar, J.P. ; Harshadrai B. Parekh.

MG. DIRECTOR.—Pravinchandra V. Gandhi, A.I.I.B.

SECRETARY.—Ratilal R. Merchant, B.A., LL.B., A.I.I.B.

CHIEF ACCOUNTANT.—C. V. Subramaniam, M.A., A.I.I.B.

HEAD OFFICE.—Devkaran Nanjee Buildings, Elphinstone Circle, Fort, Bombay. Phone No. 255327. Telegraphic Address : "DENABANK." Post Box No. 41.

LOCAL BRANCHES.—Thakurdwar, Sandhurst Bridge, Kalbadevi, Mandvi, Zaveri Bazar, Bhuleshwar, Gool Deval, Dadar, Colaba, Share Bazar, Matunga, Kurla, Ghatkopar, Andheri, Khar, Santa Cruz, Vile Parle (West), Vile Parle (East), Borivli, Malad, Kandivli, Chembur and Goregoan.

UP-COUNTRY BRANCHES.—Ahmedabad (6 Offices), Ahmednagar, Amreli, Anand, Baramati, Bardoli, Baroda, Bhavnagar, Borsad, Broach, Bulsar, Burhanpur, Calcutta, New Delhi, Delhi, Dhrangadhra, Godhra, Jamnagar, Junagadh, Lunavada, Madras, Mahuva, Malegaon, Manmad, Morvi, Nadiad, Nasik, Nasik Road, Navsari, Padra, Patan, Poona (3 Offices), Porbandar, Rajkot, Savarkundla, Sholapur, Sidhpur, Surat, Surendranagar, Viramgam, Veraval and Walchandnagar.

FOREIGN AGENTS.—Barclay's Bank Ltd., London and The Chase Manhattan Bank, London & New York.

EASTERN BANK, LIMITED

HEAD OFFICE :—2 & 3 Crosby Square, London, E.C. 3.

Branches : Aden (Crater), Aden (Steamer Point), Amarah, Baghdad, Bahrain, Basra, Beirut (Lebanon), Bombay, Calcutta, Chittagong, Cochin, Colombo, Doha (Qatar), Karachi, Kirkuk, Kuala-Lumpur, Madras, Mosul, Mukalla (Hadhramaut East Aden Protectorate), Penang, Sharjah and Singapore. SUBSCRIBED CAPITAL : £2,000,000.

RESERVE FUND : £1,500,000. RESERVE LIABILITY OF SHAREHOLDERS : £1,000,000. BOARD OF DIRECTORS : Sir Evan Meredith Jenkins, G.C.I.E., K.C.S.I. (*Chairman*) ; Roger Leigh-Wood (*Dy. Chairman*) ; Anthony Charles Barnes, D.S.C., O.B.E., Arthur Patrick Cameron, Sir Thomas Joseph Strangman, Q.C., Norman Somerville Golder, Sir Tom Hicknbotham, K.C.M.G., K.C.V.O., C.I.E., O.B.E. Vincent Alpe Grantham & Howard Frederick Morford. Bombay Office—Corner of Dr. Dadabhai Nowroji Road and Veer Nariman Road. *Manager :* C. Raymond. *Accountant :* J. M. Wood. Tel. address : "EASTERTIDE". Telephone Nos. 255056. P.O. Box No. 219.

FRENCH BANK

(Incorporated in France with Limited Liability).
See COMPTOIR NATIONAL D'ESCOMPTE DE Paris.

THE FIRST NATIONAL CITY BANK OF NEW YORK

Incorporated with limited liability in the U.S.A.
Established 1812
General Banking and Exchange Business throughout the world.

CAPITAL .. .. $ 240,000,000
SURPLUS & UNDIVIDED PROFITS as on December 31, 1957 .. .. $ 462,299,440

HEAD OFFICE.—55, Wall Street, New York, with 78 Branches in Greater New York. LONDON OFFICE.—117, Old Broad Street, London, E. C. 2. Branches in Argentine, Brazil, Canal Zone, Chile, Colombia, Cuba, Egypt, France, Hong Kong, Japan, Lebanon, Mexico, Panama, Peru, Philippines, Puerto Rico, Saudi Arabia, Singapore, Uruguay, and Venezuela. AFFILIATE.—The Bank of Monrovia in Liberia. REPRESENTATIVE OFFICE.—Frankfurt, Germany. Correspondents in every commercially important city in the world.

BOMBAY OFFICE.—Bombay Mutual Building, 293, Dr. Dadabhoy Naoroji Road, Fort. *Manager :* F. de C. Matthews ; *Sub-Managers :* R. E. Grant, M. Ratnaker Rau, S. R. Tare ; *Accountants :* H. H. Mitchell and J. K. Cowan ; *Pro-Managers :* G. L. Heck, K. S. Karant and N. P. Korday ; *Sub-Accountants :* G. J. Joshi, F. W. O'Malley, D. M. Shanbhag and A. K. Varma.

Tel. Address : "CITIBANK".
Phone No. 26-3131. P. O. Box No. 175.

CALCUTTA OFFICE.—Bombay Mutual Building, 9, Brabourne Road. *Manager :* E. R. Cutting ; *Sub-Managers :* T. G. Harding and B. B. L. Kapoor ; *Accountant :* S. N. Vittalrau ; *Pro-Managers :* R. T. Kennedy, T. C. Sanyal. *Sub-Accountants.* G. Bose, R. C. Dubal, N. Krishnan and M. V. Stolen.

Tel. Address : "CITIBANK."
Phone No. 22-5741. P.O. Box No. 655.

CODES USED : Bentley's Complete and Second phrases ; Peterson's International 3rd Edition ; A.B.C. 6th Edition.

HIND BANK LIMITED

REGISTERED OFFICE.—4, Brabourne Road, Calcutta. BOMBAY BRANCH OFFICE.—Lakshmi Bldg., Sir Phirozshah Mehta Road, Fort, Bombay. AUTHORISED CAPITAL—Rs. 2,00,00,000. ISSUED AND SUBSCRIBED CAPITAL—Rs. 1,00,00,000. PAID-UP CAPITAL—Rs. 50,00,000. RESERVE FUND—Rs. 26,00,000. BOARD OF DIRECTORS.—K. P. Goenka (*Chairman*) ; B. L. Jalan ; B. Kumar Birla ; N. D. Bangur ; N. L. Kanoria ; B. V. Jacob. *Bombay Manager.*—S. L. Mehta. *Branches.*—Ahmedabad, Ajmer, Burra Bazar (Calcutta), Shyam Bazar (Calcutta), Narayanganj (Dacca) and Jaipur.

THE HONGKONG AND SHANGHAI BANKING CORPORATION

(Incorporated in Hong Kong, limited liability).

HEAD OFFICE.—Hong Kong.
CHIEF MANAGER.—The Hon. Michael W. Turner, C.B.E.
BOMBAY OFFICE.—16, Vir Nariman Road, Fort.

CAPITAL AUTHORISED .. .. HK. $ 50,000,000 (Rs. 4,16,66,667)
CAPITAL ISSUED AND FULLY PAID-UP .. HK. $ 50,000,000 (Rs. 4,16,66,667)
RESERVE FUNDS STERLING .. .. Stg. £ 8,000,000 (Rs. 10,66,66,667)

Manager :
F. R. Burch.

Accountant :
P. G. A. Cantopher.

ASSISTANTS :—P. M. Ryan, B. M. Fogt, P. J. M. Winter, J. W. Tait, J. Paton, J. C. Martin, P. C. Fernandes, Y. J. Vacha and R. N. D'Souza.

Telegraphic Address.—"CASSANDRA." Telephone Nos. 255621, 255622, 255623. P.O. Box No. 602.

INDIAN BANK LIMITED

(ESTD. 1907.)
MADRAS.

OFFICES IN BOMBAY : 1. United India Life Assurance Bldg., Sir Phirozshah Mehta Road, Fort. 2. Lakhamsey Napoo Road, Matunga (Central Rly.), Bombay 19. 3. 281/83, Narsi Natha Street, Mandvi, Central Rly., Bombay. AUTHORISED CAPITAL—Rs. 1,00,00,000. SUBSCRIBED CAPITAL—Rs. 72,00,000. CALLED & PAID-UP CAPITAL—Rs. 65,85,415. SHARE PREMIUM . Rs. 31,17,300. RESERVE FUND—Rs. 59,32,900. DEPOSITS—Rs. 33,86,23,070.. With a network of Branches and Sub-Offices in all the important places in Calcutta and New Delhi. Overseas branches at Singapore, Kuala Lumpur, Penang, Malacca and Colombo. *London Agents :* Westminster Bank. *New York Agents :* National City Bank of New York. *Secretary :* D. P. P. Iyengar.

THE INDIAN OVERSEAS BANK, LIMITED

Central Office, Madras.

AUTHORISED CAPITAL .. .. Rs. 1,00,00,000
PAID-UP CAPITAL .. .. .. ,, 56,23,350
RESERVES .. .. ,, 46,36,300

CHAIRMAN :—M. CT. Muthiah, Esq.

GENERAL MANAGER :—C. P. Doraikannu, Esq.

Branches at :

Bombay, Calcutta, Madras, Hyderabad (Dn.), New Delhi and throughout South India, Colombo, Singapore, Ipoh, Malacca, Penang, Kuala Lumpur, Bangkok, Rangoon and Hong Kong.

Agents in all the Principal Commercial Centres of the World :

Every description of Banking business transacted and for those who trade Overseas, The Indian Overseas Bank Ltd., is particularly well equipped to deal with their requirements.

OFFICES AT BOMBAY :—(1) Elphinstone Building, 2/10, Veer Nariman Road, Fort. (2) 92, Kazi Syed Street, Bombay 3. (3) Kunti Mahal, Vincent Road, Matunga.

JODHPUR COMMERCIAL BANK, LTD.

(Incorporated in Jodhpur State : Liability of Members is Limited).

AUTHORISED CAPITAL Rs. 2 crores. SUBSCRIBED CAPITAL Rs. 1 crore. PAID-UP CAPITAL Rs. 50 Lakhs. RESERVE FUND Rs. 7,00,000. CHAIRMAN.—Shri Narayanlal Bansilal. BOARD OF DIRECTORS.—Shri Mukundlal Bansilal, Rai Saheb Shah Goverdhanlal Kabra, Capt. Rai Bahadur Sir Bhagchand Soni, Kt., O.B.E., Rao Saheb Hanumanbax Lalchand Mundra. *Offg. Manager :* N. L. Daga. REGISTERED OFFICE :—Jalori Gate, Jodhpur. CENTRAL OFFICE :—207, Kalbadevi Road, Bombay. BRANCHES : MARWAR.—Jalori Gate, Jodhpur ; Khejarla House, Jodhpur ; Kuchaman City, Nagaur, Merta City, Pali ; BOMBAY.—53, Tamarind Lane, Fort ; 207, Kalbadevi Road ; 118-122, Kazi Syed Street, Mandvi ; Municipal Building, Bhiwandi (Dist. Thana) ; Jambhali Naka, Thana ; Shivaji Chowk Kalyan.

LLOYDS BANK LIMITED

(Incorporated in England.)
HEAD OFFICE : London, E.C. 3.

EASTERN DEPARTMENT, 34, Threadneedle Street, London, E.C. 2.

AUTHORISED CAPITAL .. .. £ 74,000,000
ISSUED CAPITAL .. .. .. £ 18,565,070
RESERVE FUND .. .. .. £ 18,000,000
DEPOSITS, ETC. .. .. .. £ 1,258,851,952

BOMBAY :—Lloyds Bank Building, Dr. Dadabhoy Naoroji Road, P.O. Box 48 ; Telephones : 26281-2-3-4 ; Tel. Add. : "COXIA". Codes : Bentley's Complete and 2nd, Peterson's 1st, 2nd, 3rd and Private. MANAGER : E. H. Cattell ; ASST. MANAGER : J. K. Shute ; SUB-MANAGER : R. A. J. MacLaren, 21-26, Princess Street (Sub-Branch to Bombay). Telephones : 30641 and 30642 (2 lines). Tel Address : "COXIASUB."

MERCANTILE BANK LIMITED

(Incorporated in England.)
(Liability of Shareholders Limited.)

AUTHORISED CAPITAL—£4,000,000.
PAID-UP CAPITAL—£2,940,000.
RESERVE FUND—£2,100,000.

HEAD OFFICE—15, Gracechurch Street, London, E.C. 3.
WEST END OFFICE—123, Pall Mall, London, S.W.1.
Branches and Agencies throughout India and the East.

BOARD OF DIRECTORS:

Sir Kenneth W. Mealing (*Chairman*).
Sir Cyril E. Jones, K.C.I.E., C.S.I. (*Deputy Chairman*).
Hon. S. G. Catto.
E. J. Bunbury, C.B.E., M.C.
R. N. Drake.
R. W. B. Dunlop.
Sir John G. Hay.
Sir Charles A. Innes, K.B.E.
C. D. Miller.

CHIEF MANAGER—C. R. Wardle.
BOMBAY MANAGER.—J. R. N. Shirreff.
SUB-MANAGER.—H. Maitland.

THE MITSUI BANK, LIMITED

(Incorporated in Japan.)
(Liabilities of Shareholders Limited.)

PAID-UP CAPITAL .. .. .. Yen. 4,500,000,000.

HEAD OFFICE: Nihonbashi, Muromachi, 2-Chome, Chuo-ku, TOKYO, Japan.

97 Branches throughout Japan.

OVERSEAS OFFICES: Branches at London, Bombay and Bangkok and Agency at New York.

BOMBAY BRANCH AT: 6, Wallace Street, Dr. Dadabhoy Naoroji Road, Fort, Bombay.

MANAGER: Mr. Rintaro Miyake.

Telegraphic Address: "MITSUIBANK".

Telephone No. 261298.

NATIONAL OVERSEAS AND GRINDLAYS BANK LTD.

(Amalgamating National Bank of India Ltd., and Grindlays Bank Ltd.)

Incorporated in the United Kingdom.

The Liability of Members is Limited.

Bankers to the Government in Aden, Kenya Colony, Zanzibar, Uganda and Somaliland Protectorate.

SUBSCRIBED CAPITAL	£4,562,500
PAID-UP CAPITAL	£2,851,563
RESERVE FUNDS	£3,168,579

HEAD OFFICE—26, Bishopsgate, London, E.C.2.

LONDON BRANCHES—54, Parliament Street, S.W.1.; 13, St. James's Square, S.W.1.

Shipping, Travel and Insurance Departments: 9, Tufton Street, S.W.1.

Overseas Branches throughout India, Pakistan, Ceylon, Burma, Kenya, Tanganyika, Zanzibar, Uganda, Aden, Somaliland Protectorate, Northern and Southern Rhodesia.

Every description of banking and exchange business is transacted. Savings Bank Accounts are opened.

Bombay Offices:

Main Office: 90, Mahatma Gandhi Road, Fort, Bombay 1. *Mint Road Branch:* Corner of Mint Road and Sir Phiroozshah Mehta Road, Bombay 1.

D. G. Moore,
Manager.

THE NEW CITIZEN BANK OF INDIA, LIMITED

(ESTABLISHED 31ST JULY 1937).

REGISTERED OFFICE:
Sir Vithaldas Chambers, 16, Apollo Street, Fort, Bombay 1.

PAID-UP SHARE CAPITAL AND RESERVES:—Over Rs. 16 lakhs.

Chairman: Sir H. P. Dastur, B.A., LL.B., Bar-at-Law.
Vice-Chairman: Shri Rahim Karim Mistry, J.P., Consul for Turkey.
Directors: Shri P. B. Gole, B.A., LL.B., Shri G. L. Natu, Seth Govindas Narayandas Banatwala, Srimant M. N. Ghatate, Shri D. D. Deshpande, B.A., and Shri M. N. Amersey.

GENERAL MANAGER.—Shri B. B. Masani, B.A., C.A.I.I.B.
SECRETARY.—Shri S. S. Nagarkar, B.A., LL.B.
43 Branches all over India.

LOCAL BRANCHES: Crawford Market, Dadar, Girgaon, Matunga, Queen's Road, Sion, Vile Parle.

All types of Banking transactions effected. Safe Deposit Vault at Queen's Road Branch.

For further information apply to:
B. B. Masani,
General Manager

NORTH KANARA GOUD SARASWAT BRAHMIN CO-OPERATIVE BANK, LTD.

Laxmi Sadan, 361, Vithalbhai Patel Road, Bombay. *Chairman:*—V. D. Muzumdar, M.A. *Vice-Chairman:*—N. S. Wagle. *Jt. Hon. Secretaries:*—A. P. Wagle, B.A. and G. M. Palekar. AIMS AND OBJECTS:—To raise funds by Debentures, Deposits, etc., to be lent out at interest to members of the Bank against personal securities, gilt-edged securities and immovable properties and to undertake such other business on behalf of the members as is incidental to banking business.

THE PUNJAB NATIONAL BANK, LTD.

(Established in 1895.)

HEAD OFFICE: Delhi.

AUTHORISED CAPITAL	Rs.	2,00,00,000
ISSUED, SUBSCRIBED & PAID-UP CAPITAL (INCLUDING BONUS ISSUE OF 1,50,000 SHARES)	,,	1,25,00,000
RESERVE FUND AND OTHER RESERVES .	,,	1,10,00,000
DEPOSITS (as on 31-12-1957)	,,	1,24,60,98,458

353 Offices in India, Burma and Pakistan. Transacts Banking and Foreign Exchange Business of every description.

Agents in United Kingdom: Midland Bank Limited, Westminster Bank Limited, N. M. Rothschild and Sons, Bank of America.

AGENTS IN U.S.A.: The First National City Bank of New York, Bank of America, National Trust and Savings Assn., Irving Trust Company.

BOMBAY OFFICES: Karimjee House, Sir Phirozeshah Mehta Road; Ilaco House, Sir Phiroseshah Mehta Road; Bhat Bazar; Mandvi; Lalji Ramji Bldgs., Mandvi; Sandhurst Road; Kalbadevi Road; Zaveri Bazar; Lal Baug; Chhabildas Road, Dadar (Western Rly.); Khodadad Circle, Dadar (Central Rly.).

Chairman.—Shanti Prasad Jain. *General Manager.*—A. M. Walker.

Secretary & Deputy Genl. Mgr.—R. L. Tuli. *Deputy General Manager.*—Mohan Singh. *Asstl. Secretaries.*—S. L. Verma, Amar Singh Puri, H. L. Bedi and Ram Partap Chopra.

Chief Inspector: T. S. Wainwright.

District Managers.—Somesh Chandra Trikha, Sita Ram Mohindroo, Sri Krishna, S. N. Sharma, K. N. Mehra, B. G. Potnis, Y. Prasher and K. L. Bhandari. *Manager, Bombay Branch,* Karimji House, Sir Phiroshah Mehta Road, Fort.—G. D. Khanna.

RESERVE BANK OF INDIA

Incorporated under the Reserve Bank of India Act, 1934 (II of 1934) to regulate the issue of Bank notes and the keeping of reserves with a view to securing monetary stability in India and generally to operate the currency and credit system of the country to its advantage. Nationalised on 1st January 1949. *Governor*—H. V. R. Iyengar; *Deputy Governors*—Sarvashri K. G. Ambegaokar, Ram Nath and B. Venkatappiah; *Chief Accountant*—C. S. Divekar; *Secretary*—S. Narayanaswamy (*Offg.*); *Officer-in-Charge, Legal Division* B. N. Mehta; *Principal Adviser, Dept. of Research and Statistics*—

Dr. B. K. Madan ; *Deputy Controller, Exchange Control Department*—P. J. Jeejeebhoy ; *Chief Officer, Dept. of Banking Operations*—M. S. Nadkarni ; *Chief Officer, Dept. of Banking Development*—N. D. Nangia ; *Chief Officer, Industrial Finance Department :* —T. K. Ramasubramaniam ; *Chief Officer, Agricultural Credit Dept.*—J. C. Ryan ; *Bombay Manager*—B. V. Desai ; *Calcutta Manager*—D. D. Pai ; *Kanpur Manager and Currency Officer*—J. S. Narula (*Offg.*) ; *New Delhi Manager*—K. C. Mittra (*Offg.*) ; *Madras Manager*—J. S. Jaspal ; *Bangalore Manager and Currency Officer*—P. C. Sood (*Offg.*) ; *Lucknow Manager*—A. D. Prabhu (*Offg.*) ; *Nagpur Manager and Currency Officer*—R. C. Sachdeva ; *London Manager*—D. K. Tembe (31-33, Bishopsgate, London, E.C. 2). *Offices and Branches of the Banking Department*—Bombay, Calcutta, Madras, New Delhi, Kanpur, Bangalore, Nagpur, London. *Branches of the Issue Department*—Bombay, Calcutta, New Delhi, Kanpur, Madras, Nagpur and Bangalore.

THE SHAMRAO VITHAL CO-OPERATIVE BANK, LTD.

(Registered on 27th December 1906, under Act X of 1904.)

HEAD OFFICE.—H/2, Anandashram, Proctor Road, Grant Road, Bombay 7.

AUTHORISED CAPITAL : Rs. 5,00,000. CALLED-UP AND PAID-UP CAPITAL : Rs. 3,27,981. RESERVE AND OTHER OWNED FUNDS : Rs. 3,63,880. WORKING CAPITAL : Rs. 68,54,606.

BOARD OF DIRECTORS :—D. R. Ugrankar, B.A., LL.B., *Chairman ;* A. R. Kagal, B.A., B.Sc., F.C.S. ; *Vice-Chairman ;* A. D. Chandavarkar, S. Ananda Rao ; V. R. Kulkarni ; N. G. Ubhayaker ; R. G. Divgi, B.com., A.C.A. ; S. L. Murdeshwar, C.A.I.I.B. ; Tonse Srinivas Rao ; M. Pandurang Rao ; A. H. Kulkarni ; M. Bhavanishankar Rao.

SECRETARY—V. G. Murdeshwar, LL.B.

BRANCHES.—Karwar, Mangalore, Santa Cruz, Bankikodal, Matunga (Bombay 16) and Bandra.

STATE BANK OF HYDERABAD

(Formerly known as Hyderabad State Bank and renamed as State Bank of Hyderabad under the State Bank of Hyderabad Act, 1956)

HEAD OFFICE : HYDERABAD (DN.) AUTHORISED CAPITAL : Rs. 1,00,00,000 ; ISSUED AND PAID-UP CAPITAL : Rs. 50,00,000. Offers complete Banking Service through a network of Offices spread over Andhra Pradesh, Bombay and Mysore States and through its correspondents elsewhere in India. Foreign Exchange Business of all types undertaken. BOMBAY OFFICE : New India Assurance Building, Mahatma Gandhi Road, Fort. MADRAS OFFICE : 41, Linghi Chetty Street, George Town.

STATE BANK OF INDIA

(Constituted under the State Bank of India Act, 1955.)

AUTHORISED CAPITAL	Rs.	20,00,00,000
PAID-UP CAPITAL as on 31st December 1957	„	5,62,50,000
RESERVE FUND AND OTHER RESERVES as on 31st December 1957	„	6,62,50,000

LOCAL HEAD OFFICES—BOMBAY, CALCUTTA, NEW DELHI and MADRAS.

LONDON OFFICE—25, OLD BROAD STREET, E.C. 2.

PRINCIPAL OFFICE IN PAKISTAN—KARACHI.

Over 100 Branches and Sub-Offices throughout India, Pakistan, Burma and Ceylon.

ALL CLASSES OF BANKING BUSINESS UNDERTAKEN INCLUDING FOREIGN EXCHANGE BUSINESS

UNION BANK OF INDIA, LIMITED

REGISTERED OFFICE.—70/72, Apollo Street, Fort, Bombay. SUBSCRIBED CAPITAL—Rs. 40,00,000. PAID-UP CAPITAL—Rs. 40,00,000. RESERVE FUND AND OTHER RESERVES—Rs. 40,000,000. DEPOSITS ON 31-12-1957 Rs. 20,73,18,973·34 nP. BRANCHES—Abdul Rehman Street, Bombay ; Bhat Bazar, Mandvi, Bombay ; Kalbadevi Road, Cotton Exchange Building, Bombay ; Katha Bazar, Bombay ; Princess Street, Bombay ; Bankatesh Bhavan, Sheikh Menon Street, Bombay ; Zaveri Bazaar, Mulund, Opera House, Goregaon, Bombay ; OTHER BRANCHES : In Saurashtra, Gujerat, Andhra, Calcutta, Delhi, Madras, Cochin, Poona, Kozhikode (Calicut) and Madurai. SAFE DEPOSIT VAULTS—Union Bank Bldg., Dalal Street, Fort, Bombay ; Cotton Exchange Bldg., Kalbadevi Road, Bombay ; Bhat Bazar, Mandvi, Bombay ; Rajkot and Veraval. DIRECTORS.—Lachhmandas H. Daga (*Chairman*) ; K. R. P. Shroff ; Devji Rattansey ; Balkrishna Harivaulabhadas ; Jal H. Mehta ; Ratilal Nathalal ; Jaisinh Vithaldas GENERAL MANAGER.—F. K. F. Nariman. SECRETARY.—D. A. Bijoor.

THE UNITED COMMERCIAL BANK, LTD.

REGISTERED OFFICE : Calcutta.

PAID-UP CAPITAL : Rs. 2,00,00,000. RESERVE FUND : 1,15,00,000. *Chairman :* G. D. Birla. *Bombay Board of Directors :* M. R. Rula (*Chairman*) ; M. L. Dahanukar ; M. L. Tapuriah ; Y. N. Mafatlal, T. S. Rajam ; Dwarkadas Jamnadas and Babulal Bubna. Branches in all important Cities and Towns of India. FOREIGN BRANCHES : London, Hongkong, Singapore, Penang Rangoon and Karachi. HEAD OFFICE : Calcutta. BOMBAY OFFICES : Petit Building, Hornby Road, Fort ; Near Cotton Exchange, Kalbadevi ; Sonawala Building, Zaveri Bazar ; Bharatiya Vidya Bhuwan, Harvey Road, Chowpatty ; Industry House, Churchgate Reclamation. *General Manager :* S. T. Sadasivan. *Dy. General Manager :* R. B. Shah *Bombay Manager :* S. J. Utamsing.

UNITED WESTERN BANK, LTD.

BOMBAY OFFICE.—Western India House, 7, Phiroshah Mehta Road, Bombay. (Registered on 17th October, 1936). *Head Office :* Satara. *Central Office :* Bombay. *Branches :* Girgaon (Bombay), Nasik, Poona, Barsi, Lonand, Kolhapur, Halkarni. AUTHORISED CAPITAL.—Rs. 20,00,000. Transacts every kind of Banking Business, Loans, etc. *Chairman.*—S. H. Sathe, B.A., LL.B. ; *Manager.*—S. H. Joshi, B.A., B.Com. ; *Bombay Branch Manager.*—N. G. Moghe, B.A., B.Com.

CLASSIFIED LIST OF OVERSEAS FIRMS WITH NAMES OF BOMBAY AGENTS/REPRESENTATIVES.

ABRASIVE WHEELS & GRINDING COMPOUNDS

Carborundum Universal Ltd., Madras and The Carborundum Co. Ltd., Manchester. Manufacturers of Grinding Wheels, Segments, Rubbing Bricks, Roll Scouring Blocks, Abrasive Sticks, Sharpening Stones, Valve Grinding Compound, Crucibles, etc. Distributors: William Jacks & Co., Ltd., Bharat House, Apollo Street.

ABRASIVES

LONDON ABRASIVES LTD., London, England. Manufacturers of Grinding Wheels. Agents: Gaytee & Company, Janmabhoomi Chambers, Fort Street, Bombay 1. Phone: 263449. Grams: "IMPENG."

Minnesota Mining & Mfg. Co. Ltd., Arden Road, Adderley Park, Birmingham 8. Agents: Gillanders Arbuthnot & Co. Ltd., 16, Queen's Road Estate, Bombay 1.

ACID AND ALKALI RESISTING CEMENTS

Acalor (1948) Ltd., London. Agents: Killick, Nixon & Co., Private Ltd., Killick House, Home Street, Fort.

ACOUSTIC TILES

WMB International AB, Goteborg Agents Killick, Nixon & Co., Private Ltd., Killick House, Home Street, Fort

ADDING AND DICTATING MACHINES

ZEUTHEN & AAGAARD, A/s, 6, Esplanaden, Copenhagen, Denmark. Contex Adding Machines & Rex-Recorder Dictating Machines. Representatives: Latham Abercrombie & Co., Private Ltd., Forbes Building, Home Street, Fort.

ADDRESSING MACHINES & BUSINESS SYSTEMS

ADREMA LIMITED, 2 10, Telford Way, East Acton, London, W. 3, England. Manufacturers of Adrema Addressing & Listing Machines. Address in India: Adrema Limited, Lakshmi Building, Sir Phirozshah Mehta Road, Fort.

ADJUSTABLE LOUVRE WINDOWS

James Sandy Pty., Ltd., Sydney, Australia. Agents: Killick, Nixon & Co., Private Ltd., Killick House, Home Street, Fort.

AERATED WATER REQUISITES

Antoine Chiris, S. A., Grasse, France. Essential Oils, Natural and Synthetic, Soluble Essences, Flavours and Perfume compounds. Agents: Anil Trading Co., Sharaf Manaion, Princess Street, Bombay 2.

BOOTS PURE DRUG CO., LTD., England. (Saccharin.) Selling Agents: I.C.I. (India) Private Ltd., Post Box No. 310, Bombay 1.

I.C.I. LTD., England. Alkali Division ('Melasses'). Agents: I.C.I. (India) Private Ltd., Post Box No. 310, Bombay 1.

JOHN & E. STURGE LTD., England. (Citric Acid.) Agents: I.C.I. (India) Private Ltd., Post Box No. 310, Bombay 1.

UNITED GLASS BOTTLE MANUFACTURERS LTD., Bottles. Agents: I.C.I. (India) Private Ltd., Post Box No. 310, Bombay 1.

AERIAL MAPS AND SURVEYS

Hunting Aerosurveys Ltd., London. Air Survey and Photography, Mapping and Mosaicing. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort.

Hunting Geophysics Ltd., Borehamwoods, Herts, England. Airborn Geophysical Surveys. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort.

AERIAL ROPEWAYS

British Ropeway Engineering Co., Ltd., High Holborn, London, W.C. 1. Aerial Ropeways, etc. Agents: Gillanders Arbuthnot & Co., Ltd., 16, Queen's Road Estate, Bombay 1.

AGRICULTURAL MACHINERY MFRS.

Athens Plow Co., Athens (U.S.A). Agricultural Implements. Sole Importers: Voltas Limited, Chinchpokli Road, Bombay 12.

Fisher Humphries Ltd., Pershore. Manufacturers of Agricultural Implements. Sole Agents: Marshall, Sons & Co. (India) Ltd., Marshall's Building, Ballard Road, Bombay 1.

INTERNATIONAL HARVESTER EXPORT CO., Chicago, U.S.A. Agricultural Machinery and Implements, McCormick International Tractors (Agricultural & Industrial). Sole Importers: Voltas Limited, Chinchpokli Road, Bombay 12.

Marshall, Sons & Co., Ltd., Gainsborough. Manufacturers of Tractors, Combine Harvesters and Threshing Machinery. Sole Agents: Marshall, Sons & Co. (India) Ltd., Marshall's Building, Ballard Road, Bombay 1.

New Osaka Seisakusho Co., Ltd., Osaka, Japan. Sole Agents: J. Khushaldas & Co., 77-79, Nagdevi Street, Bombay 3.

Ransomes, Sims & Jefferies Ltd., England. Agricultural Implements and Lawn Mowers. Sole Distributors: William Jacks & Co. Ltd., Hamilton House, Graham Road, Ballard Estate.

E. V. Twose Limited, Tiverton. Agricultural Implements. Sole Agents: Marshall, Sons & Co. (India) Ltd., Marshall's Building, Ballard Road, Bombay 1.

AIR-CONDITIONING, REFRIGERATION, HUMIDIFICATION UNITS AND EQUIPMENT

Air Conditioning Corporation (Jeffreys) Ltd., London. Air-conditioning and Drying Machinery. Sole Agents: Air Conditioning Corporation Private Ltd., Ballard Estate, Bombay 1.

Aktiebolaget Svenska Flaktfabriken, Stockholm, Sweden. Manufacturers of Air-conditioning, Humidification and Ventilation Plants, Dryers, Fans and Blowers. Air filters and Electric Precipitators. Representatives: Asea Electric India, Private Limited, Yadi Building, Goa Street, Ballard Estate.

Andrew Machine Construction Co., Ltd., Stockport. Humidifier Installation. Sole Representatives: W. H. Brady & Co., Ltd., Veer Nariman Road, Bombay 1.

CARRIER CORPORATION, Syracuse, N.Y., U.S.A. Refrigerating, Air-conditioning and Ventilating Machinery. Sole Importers: Voltas Limited, Ballard Estate, Bombay 1.

Copeland Refrigeration Corporation, Ohio, U.S.A. Agents for Bombay State: Chatur Parmanand Vaswani, 59, Forbes Street, Bombay 1.

Davidson & Co., Ltd., Belfast. "Sirocco" Fans, Industrial Vacuum Cleaners, Evaporative Cooling Plants, Air-conditioning. Sole Representatives in Bombay: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Bombay 1.

E. C. D. Limited, Priory Mills, Tudeley Lane, Tonbridge, Kent, England. Agents: Heatly & Gresham Ltd., 9, Forbes Street, Bombay.

FARBWERKE HOECHST AG., Frankfurt Main, Hoechst, W. Germany. (Frigen, Methyl Chloride). Distributors: Messrs. Fedco Private Ltd., Mafatlal House, Backbay Reclamation, Bombay 1. Phone: 36864, 5. Grams: "RAPRICOL."

Frick Co., U.S.A. Sole Distributors: Bombay Ammonia & Refrigeration Co. Private Ltd., 208, Bazargate Street, Bombay 1.

Gebr. Winkelstrater, Wuppertal-Barmen W. Germany. Manufacturers of "Winair" Air Conditioners. Sole Distributors: Dadajee Dhackjee & Co Private Ltd., Sandhurst Bridge, Bombay 7.

General Engineering & Manufacturing Co., New Orleans, U.S.A. Manufacturers of Cool-A. Matic Commercial Air-conditioning Units. Sole Distributors: Dadajee Dhackjee & Co. Private Ltd., Sandhurst Bridge, Bombay 7.

I.C.I. LTD., Billingham Dn., London (Anhydrous Ammonia). Selling Agents: I.C.I. (India) Private Ltd., P. B. No. 310, Bombay 1.

I.C.I. LTD., England. General Chemicals Division ('Arcton, Methyl, Chloride, Sulphur Dioxide). Selling Agents in India: I.C.I. (India) Private Ltd., Post Box No. 310, Bombay 1.

Nash Kelvinator Corporation, U.S.A. Refrigerators. Sole Distributors: Spencer & Co., Ltd., Spencer's Building, Forjett Street, Bombay 26.

Nordic Refrigeration Ltd., Denmark. Manufacturers of Nordic Condensing Units, for Machinery, Cold Storage equipment, etc. Sole Distributors: Dadajee Dhackjee & Co. Private Ltd., Sandhurst Bridge, Bombay 7.

Pressed Steel Co. Ltd., of Cowley, Oxford, England. Manufacturers of "Prestcold" Commercial Refrigerators and Condensing Units. Sole Distributors: Dadajee Dhackjee & Co. Private Ltd., Sandhurst Bridge, Bombay 7.

Taylor Instrument Companies—Rochester, N. Y., U.S.A. Sole Agents: Air Conditioning Corporation Private Ltd., Ballard Estate, Bombay 1.

Taylor Controls Limited, Walthamstow, London, E.17. Industrial Instrumentation. Sole Agents Air Conditioning Corporation Private Ltd., Ballard Estate, Bombay 1.

Tempair Ltd., Maidstone, Kent, England. Manufacturers of "Tempair" self-contained packaged and window type airconditioners. Sole Distributors: Dadajee Dhackjee & Co. Private Ltd., Sandhurst Bridge, Bombay 7.

Vilter Manufacturing Co., U.S.A. Agents: Economy Refrigeration & Engineering Co., Forbes Street, Bombay 1.

York Corporation, York Pa., U.S.A. Air-conditioning Refrigeration & Ice Making Plant. Sole Agents: Air Conditioning Corporation Private Ltd., Ballard Estate, Bombay 1.

AIR COMPRESSORS

Adolf Ehman, Germany. Alup Air Compressors, Hydraulic Car Lifts, Car Washers, etc. Agents: Armstrong Smith Private Ltd., 1, Sir P.M. Road, Bombay 1.

Alexander Wilson (Aberdeen) Ltd., Aberdeen, Scotland. Diesel-driven Portable Air Compressors. Sole Concessionaires: Greaves Cotton & Co. Ltd., 1, Forbes Street, Fort, Bombay.

Broom & Wade Ltd., High Wycombe, Bucks, England. Air Compressors, Pneumatic Tools. Sole Importers: Voltas Ltd., Ballard Estate, Bombay 1.

DAVEY COMPRESSOR CO., Kent, Ohio, U.S.A. Manufacturers of Air Compressors, Mobile Machine Shops, etc. Agents: Gaytee & Co., Janmabhoomi Chambers, Fort Street, Bombay 1. Phone: 263449. Grams: "IMPENG."

De Vilbiss Company, Toledo, Ohio, U.S.A. Air Compressing, Spray Painting Outfits and Hoses, etc. Agents: John Fleming & Co., Private Ltd., Bastion Road, Fort, Bombay 1. Phone: 261153.

MACKAY INDUSTRIAL EQUIPMENT LTD., Faggs Road, Feltham, Middlesex, England. Representatives: James Finlay & Co., Ltd., P.O. Box No. 73, Bombay 1.

Richard C. Walther, Germany. Representatives: Behram & Co., 11, Lakshmi Bldg., Sir P. M. Road, Bombay 1.

Tecalemit Limited, Brentford, U.K. Manufacturers of medium size aircompressors. Agents: Tecalemit (India) Ltd., 9, Forbes Street, Fort, Bombay.

AIR ENTRAINING AGENT, ASPHALT ANTI-STRIPPING ADDITIVE

Dewey & Almy, Chemical Co., Massachusetts, U.S.A. Agents: Killick, Nixon & Co., Private Ltd., Killick House, Home Street, Fort.

ALUMINIUM

EMPIRE ALUMINIUM CO. LTD., 204, Polmadie Road, Glasgow S.2. Representatives: James Finlay & Co., Ltd., P.O. Box No. 73, Bombay 1.

ANTIFRICTION METALS AND SOLDERS

The Eyre Smelting Ltd., Tandem Works, Merton Abbey, London, S. W. 19. Sole Agents: Heatly & Gresham, Ltd., 9, Forbes Street.

Eyre Smelting Ltd., Antifriction Metals. Agents: Balmer Lawrie & Co., Ltd., 5, Graham Road, Ballard Estate, Bombay. Phone: 261494 (3 lines). Grams: "BALMER".

ANTISEPTICS

British Alkaloids Ltd., T.C.P. Antiseptic Lotion, etc. Sole Agents:—J. L. Morison, Son & Jones (India) Private Ltd., Contractor Building, Nicol Road, Ballard Estate, Bombay 1.

Milton Proprietary Ltd., "Milton" Antiseptic Lotion. Sole Agents: J. L. Morison, Son & Jones (India) Private Ltd., Contractor Building, Nicol Road, Ballard Estate, Bombay 1.

ANTI-VIBRATION BEARINGS & MOUNTINGS

Silentbloc Ltd., Victoria Gardens, Notting Mill Gate, London, W. 11. Antifriction, Flexible Mounting and Couplings. Agents: Heatly and Gresham Ltd., 9, Forbes Street, Fort.

ARMS AND AMMUNITION

I.C.I. LTD., England. Sporting Ammunition Dept., Metals Division. Eley's and Metallic Ammunition. Kynoch's Shot Gun Cartridges. Factory Representatives in India: I.C.I. (India) Private Ltd., Post Box No. 310, Bombay 1.

AROMATIC CHEMICALS

Antoine Chiris, S.A., Grasse, France. Agents: Anil Trading Co., 32, Princess Street, Bombay 2.

Dragoco-Holzminden, W. Germany. Agents: B. C. Patel & Co. 79, Princess Street, Bombay 2.

ESROLKO LTD. (Formerly FLORA), Switzerland. Manufacturers of Synthetic Essential Oils & Aromatic Chemicals. Agents: M. C. Davar & Co., 143, Princess Street, Bombay 2.

H. Raah & Co., Holland. Agents: B. C. Patel & Co., 79, Princess Street, Bombay 2.

Jean A. du Crocq Jr. N. V., Huizen N. H., Holland. Sole Agents for Bombay State: R. K. Shapurji & Co., Prospect Chambers, 319, Dr. Dadabhoy Naoroji Road, P.B. No. 1065, Bombay 1.

Les Derives Resiniques & Terpinique, 40, Rue Des Carmel & Rue D'Eyrue, Dax (Landes), France. Agents: Anil Trading Co., 32, Princess Street, Bombay 2.

P. Robertel & Co., Grasse, France. Agents: B. C. Patel & Co., 79, Princess Street, Bombay 2.

B. Lienau & Cie., 22(a) Uerdingen A. R. H., Germany, West. Sole Agents for India: R. K. Shapurji & Co., Prospect Chambers, 319, Dr. Dadabhoy Naoroji Road, P.B. 1065, Bombay 1.

ASBESTOS PRODUCTS

Arthur Hecker Asbest-Und Gummiwerke kg., (14a) Weil Im Schonbuch (Wurttemberg), West Germany. Sole Agents: Datson, Raviraj & Co., 43, Tamarind Lane, Fort, Bombay. Phone: 29333.

Chillcotts Ltd., Newlands Park, Sydenham, London S. E. 26. Sole Agents: Datson, Raviraj & Co., 43, Tamarind Lane, Fort, Bombay. Phone: 29333.

AUTOMATIC LOOMS

Henry Livesey Ltd., Blackburn. Weaving Machinery. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort.

AUTOMOBILE

Bentley Motors (1931) Ltd., Cundall Street, London. Manufacturers of Bentley Motor Cars. Sole Distributors: Dadajee Dhackjee & Co. Private Ltd., Sandhurst Bridge, Bombay 7.

Daimler-Benz, A. G., Stuttgart, Germany. Manufacturers of Mercedes-Benz Cars and Diesel Trucks. Sole Distributors: Dadajee Dhackjee & Co. Private Ltd., Sandhurst Bridge, Bombay 1.

Jaguar Cars Ltd., Coventry, England. Manufacturers of Jaguar Cars and Accessories. Agents: Garware Motors Private Ltd., Chowpatty Chambers, Sandhurst Bridge, Bombay 7.

Rolls-Royce Ltd., Conduit Street, London. Manufacturers of Rolls-Royce Motor Cars. Sole Distributors: Dadajee Dhackjee & Co. Private Ltd., Sandhurst Bridge, Bombay 7.

Rootes Limited, Devonshire House, Piccadilly, London, W.1. Export Division of Humber, Hillman, Sunbeam-Talbot Motor Cars and Commer and Karrier Commercial Vehicles. Sole Distributors: Dadajee Dhackjee & Co. Private Ltd., Sandhurst Bridge, Bombay 7.

AVIATION

Auto Diesels Ltd., Uxbridge, Middlesex. Aircraft Starting & Servicing Ground Power Units. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

Blackburn & General Aircraft Ltd., Brough, East Yorks, England. "Cirrus" Air-cooled Aero-engines. Blackburn-Turbomeca Gas Turbine Engines, 'Universal' Freight Aircraft. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort.

Bristol Aero-Engines Ltd., Filton House, Bristol, England. Gas Turbine Engines, Propeller Turbine Engines, Ram Jet Engines. Sole Concessionaires: Greaves Cotton & Co. Ltd., 1, Forbes Street, Fort, Bombay.

Bristol Aircraft Ltd., Filton House, Bristol, England. Aircraft, Helicopters, Pressure Storage Vessels, Plastic. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

British Messier Ltd., Cheltenham Road, Gloucester, England. Under-carriage and Hydraulic systems. Sole Concessionaires. Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort.

Flight Refuelling Ltd., Dorset. Agents: Killick, Nixon & Co., Private Ltd., Killick House, Home Street, Fort.

Hunting Aircraft Ltd., Luton Airport, Bedfordshire, England, Passenger and Trainer aircraft, Helicopters. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort.

Redifon Limited. Flight Simulator Division, Gatwick Road, Crawley, Sussex, England Synthetic Training Devices. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

Rotol Ltd., Cheltenham Road, Gloucester, England. Propellers & Accessory Drive Equipment. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort.

Slough Estates (London) Ltd., London. Agents: Killick, Nixon & Co., Private Ltd., Killick House, Home Street, Fort

Thermionic Products Ltd., Southampton, England. Agents: Hindoo, 24, New Queen's Road, Bombay 4.

AXLE LUBRICATING OILER PADS

Armstrong Oiler Co. Ltd., Lendal Bridge, Yorks. Sole Agents: Heatly & Gresham Ltd., 9, Forbes Street, Fort.

BALL & ROLLER BEARINGS (MFRS.)

KUGELFISCHER GEORG SCHAFER & CO., West Germany. Mfrs. of Ball and Roller Bearings. Sole Agents: B. Chowdhary, Mercer, Indian Globe Chambers (4th Floor), Fort Street, Fort, Bombay 1. Phone: 263479. Grams: "[illegible]."

Ransome & Marles Bearing Co., Ltd., Newark-on-Trent. 'R & M' Ball and Roller Bearings. Agents: Roberts, McLean & Co., Ltd., Ilaco House, Sir Phirozshah Mehta Road, Fort.

BATTERIES

Accumulatoren-Fabrik A.G., Export Department, Neue Mainzer Strasse 52, Frankfurt/Main, Germany. Sales Distributors: Eastern Electric & Engineering Co., 127, Mahatma Gandhi Road, Bombay 1.

Deutsche Edison-Akkumulatoren Co., G.m. b.H. Export Dept. Neue Mainzer Strasse 54, Frankfurt/Main, Germany. Sales Distributors: Eastern Electric & Engineering Co., 127, Mahatma Gandhi Road, Bombay 1.

Tudor Accumulator Co., Ltd., Storage Batteries. Agents: Balmer Lawrie & Co., Ltd., 5, Graham Road, Ballard Estate, Bombay. Phone: 261494 (3 lines). Grams: "BALMER".

BATTERY ACCESSORIES

Mueller Electric Co. Cleveland, 14, Ohio, U.S.A. Sales Distributors: Eastern Electric & Engineering Co., 127, Mahatma Gandhi Road, Bombay 1.

BATTERY CHARGERS

Legg (Industries) Ltd., Wolverhampton, England. Sales Distributors: Eastern Electric & Engineering Co., 127, Mahatma Gandhi Road, Bombay 1.

Revall Manufacturing Co., Euclid Avenue, Cleveland 3, Ohio, U.S.A. Agents: Cine Sales, Jyoti Studio Bldg., Kennedy Bridge, Bombay 7

BEER AND STOUT

Beck & Co., Bremen. Brewers. Sole Distributors: Spencer & Co. Ltd., Spencer's Building, Forjett Street, Bombay 26.

Tennent, J. & R., Ltd., Glasgow. Brewers. Sole Distributors: Spencer & Co., Ltd., Spencer's Building, Forjett Street, Bombay 26.

BELTING EQUIPMENT

Lewis & Tylor, Ltd., Cardiff. Gripoly Belting and Hose. Agents: Richardson & Cruddas, Ltd., Byculla, Bombay 8.

BELTING (TEXTILE) MANUFACTURERS

British Belting & Asbestos Ltd., Southwark, London. Scandinavia, M.C.M. Cotton Belting, Saturn Hair Belting, MINTEX and Halo Broke Lining and Clutch Rings, etc. Agents: Balmer Lawrie & Co. Ltd., 5, Graham Road, Ballard Estate, Bombay. Phone: 261494 (3 lines). Grams: "BALMER".

Fenner, J. H., & Co., Ltd., Hull, England. Leather & Woven Belting. Ram Leathers. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort.

Gandy Limited, Wheatland Works, Wallasey, Cheshire, England. Leather Belting and Belting Accessories. Sole Importers: Voltas Limited, Ballard Estate, Bombay 1.

Gates Rubber Company, The, Denver Colorado, U.S.A. Cone Belts, Evener Belts & Card Bands. Sole Representatives: W. H. Brady & Co., Ltd., 12-14, Veer Nariman Road, Fort, Bombay 1.

John Ormerod & Sons Ltd., England. Agents: Altex Private Ltd., 147, Mahatma Gandhi Road, Fort.

Maxa, Limited, 43 & 45, Cannon Street, London, E. C. 4. "Maxa" Belt Dressing and Preservative. Sole Agents: J. D. Jones & Co. (Bombay), Private Ltd., Rustom Building, Veer Nariman Road, Fort.

Nitta Leather Belting Co., Ltd., Osaka, Japan. Sole Agents: J. Khushaldas & Co., 77-79, Nagdevi Street, Bombay 3.

Nitta Rubber Industrial Co., Ltd., Osaka, Japan. Sole Agents: J. Khushaldas & Co., 77-79, Nagdevi Street, Bombay 3.

Small & Parks Ltd., Manchester. Roko Hair Belting & Spindle Tape. Sole Representatives: W. H. Brady & Co., Ltd., 12-14, Veer Nariman Road, Fort, Bombay 1.

BISCUIT MANUFACTURERS

Huntley & Palmers Ltd., Biscuit Manufacturers, Reading. Sole Distributors: Spencer & Co., Ltd., Spencer's Building, Forjett Street, Bombay 26.

BOARDS (INSULATION HARD)

A. AHLSTROM OSAKEYHTIO, P. O. Box No. 329, Helsingfors (Finland). Representatives: James Finlay & Co., Limited, P.O. Box No. 73, Bombay 1.

BOBBINS MANUFACTURERS

Dixon, John & Son Ltd., Steeton, Yorks. Bobbins for Cotton, Wool, Silk & Jute. Sole Concessionaires: Greaves Cotton & Co. Ltd., 1, Forbes Street, Fort.

Kirk & Co. (Blackburn), Ltd., England. Principal Distributors: Altex Private Ltd., 147, Mahatma Gandhi Road, Fort.

Wilson Bros. Bobbin Co., Ltd., Bobbins, Shuttles, etc. Representatives: W. H. Brady & Co., Ltd., Veer Nariman Road, Fort Bombay 1.

BOILER ACCESSORIES

Baines & Co., Ltd., W.N., Phoenix Brass Works, Rotherham, England. Sole Agents: Heatly & Gresham Ltd., 9, Forbes Street, Bombay.

Clyde Blowers, Ltd., Livingston Street, Clydebank, near Glasgow C. 2. Sole Agents: Heatly & Gresham, Ltd., 9, Forbes Street, Fort.

DEWRANCE & CO., LTD., 165, Great Dover Street, London S.E. 1. Steam Valves, Steam Traps and Boiler Mountings. Sole Agents: Kilburn & Co., Private Ltd., P.O. Box No. 565, Bombay. Phone: 25-1908. Grams: "TASCONIUM".

Dermatine Company, Ltd., 93-95, Neate Street, London, S.E. 5. Agents: Heatly & Gresham, Ltd., 9, Forbes Street.

Everlasting Valve Co (Great Britain), Ltd., 125, Balham High Road, London, S.W. 12, England. Agents: Heatly & Gresham Ltd., 9, Forbes Street, Fort.

Farrar Boilerworks Ltd., Newark-on-Trent. Vertical Boilers. Fishmeal & Oil Plants. Agents: Balmer Lawrie & Co., Ltd., 5, Graham Road, Ballard Estate, Bombay. Phone: 261494 (3 lines). Grams: "BALMER".

Gresham & Craven, Ltd., Ordsal Lane, Salford, Manchester, England. Sole Agents: Heatly & Gresham Ltd., 9, Forbes Street, Fort.

Scott & Co., London. "Stopskal" Boiler Compound. Agents: Richardson & Cruddas, Ltd., Byculla, Bombay 8.

Shaw Son & Greenhalgh Ltd., Huddersfield. Steam Valves, Cocks and Boiler Fittings. Agents: Guest, Keen, Williams, Ltd., Wakefield House, Sprott Road, Ballard Estate, Bombay 1.

Vesuil Ltd., Rayner Mills, Liversedge, Yorks. Sole Agents: Heatly & Gresham Ltd., 9, Forbes Street, Fort.

BOILER HOUSE & CIVIL ENG. RECORDERS

British Pitometer Co., Ltd., London. Agents: Glenfield & Kennedy, Ltd., 198, Jamshedji Tata Road, Fort, Bombay 1.

Glenfield & Kennedy, Ltd., Kilmarnock. Meters for Boiler Feed. Agents: Glenfield & Kennedy, Ltd., 198, Jamshedji Tata Road, Fort, Bombay 1.

BOILER MANUFACTURERS

Clarke Chapman & Co., Ltd., Gateshead-on-Tyne. Water Tube Boilers, Capstans Winches, etc. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort.

Cradley Boiler Co. Ltd., Nr. Birmingham. Makers of Vertical Steam Boilers. Agents: Richardson & Cruddas, Ltd., Byculla, Bombay 8.

Marshall, Sons & Co., Ltd., Gainsborough Trent, Lancashire, Cornish, Locomotive Economic Boilers. Sole Agents: Marshall Sons & Co. (India) Ltd., Marshall's Building, Ballard Road, Bombay 1.

Penman & Co., Ltd., Caledonian Iron Works, Glasgow. S. E. Lancashire & Cornish Boilers, Economic Boilers. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort.

Ruston & Hornsby Ltd., Lincoln. Vertical Cross Tube and "Thermax" Boilers. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort.

BOILER PRESERVATIVES AND COMPOSITIONS

British Boiler Cleaning & Enamelling Co. "Llanghrod" Boiler Composition. Agents: Hardcastle, Waud & Co., Private Ltd., Alice Buildings, Dr. Dadabhoy Naoroji Road.

Clensol Ltd., 40, Berkeley Square, London. Patent Scale Remover and Boiler Water Purifiers. Agents: Roberts, McLean & Co., Ltd., Ilaco House, Sir Phirozshah Mehta Road.

Houseman & Thomson Ltd., New Castle-upon-Tyne. "D.M." Boiler Solution. Agents: Balmer Lawrie & Co. Ltd., 5, Graham Road, Ballard Estate, Bombay. Phone: 261494 (3 lines). Grams: "BALMER".

BOILER SCALE PREVENTIVE AND COMPOSITIONS

Boilerine Ltd., London. Scale Preventive Composition Sole Agents: Marshall, Sons & Co. (India) Ltd., Marshall's Building, Ballard Road.

Charles S. Madan & Co., Ltd. Cheshire, England Sole Agents: R. Ochavlal & Co., 86, Nagdevi Street, Bombay 3

Houseman & Thompson Ltd., Newcastle-upon-Tyne. "D.M." Boiler Solution. Agents: Balmer Lawrie & Co., Ltd., 5, Graham Road, Ballard Estate, Bombay. Phone: 261494 (3 lines). Grams: "BALMER".

BOILER TUBES

Comptoir F. B. T. 84, Rue Pierre, Chanon, Paris. Agents: Heatly & Gresham Ltd., 9, Forbes Street, Fort.

BOLTS, NUTS & SCREWS

Guest Keen & Nettlefolds (Midlands) Ltd., Birmingham. Representatives: Nettlefolds of India Private Ltd., Wakefield House, Sprott Road, Ballard Estate, Bombay 1.

Joseph Fitter Ltd., 26, Sherlock Street, Birmingham, 5. Agents: Soho House, Lohar Street.

BOOKS PUBLISHERS

Brown Son & Ferguson Ltd., 52-58, Darnley Street, Glasgow, S. 1, Scotland. Agents: E. W. Stevens & Co. Private Ltd., 4, Ballard Road, Bombay 1.

Director of Publications, H. M. Stationery Office, P. O. Box No. 569, London S.E.1. Agents: E. W. Stevens & Co. Private Ltd., 4, Ballard Road, Bombay 1.

Harrap & Co., Ltd., George G., 182, High Holborn, London W.C. 1. Publishers. Agents: Oxford University Press, Post Box No. 31, Bombay.

Imray, Laurie, Norie & Wilson Ltd., Wych House, St. Ives, Huntingdonshire, England. Agents: E. W. Stevens & Co. Private Ltd., 4, Ballard Road, Bombay 1.

J. D. Potter, 145 Minories, London E. C. 3. Agents: E. W. Stevens & Co. Private Ltd., 4, Ballard Road, Bombay 1.

James Munro & Co., Ltd., 16, Carrick Street, Glasgow C.2, Scotland. Agents: E. W. Stevens & Co. Private Ltd., 4, Ballard Road, Bombay 1.

Lloyds Shipping Publications, Lloyds, London E.C.3. Agents: E. W. Stevens & Co. Private Ltd., 4, Ballard Road, Bombay 1.

Thomas Reed & Co., Ltd., 184, High Street, West, Sunderland, England. Agents: E. W. Stevens & Co. Private Ltd., Ballard Road, Bombay 1.

University Tutorial Press, Ltd., Clifton House, Euston Road, London, N.W.1. Publishers. Agents: Oxford University Press, Post Box No. 31, Bombay.

W. H. Smith & Son Ltd., Export Trade Department, Strand House, Portugal Street, London W.C.2. Agents: E. W. Stevens & Co. Private Ltd., 4, Ballard Road, Bombay 1.

BRASS FOUNDRY

Harrison (Birmingham) Ltd., Bradford Street Works, Birmingham, 12. Agents: Soho House, Lohar Street.

BRICK-MAKING EQUIPMENT

Hebert Alexander & Co. Ltd., Leeds. Brick-making machinery & equipment. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

BRUSH MANUFACTURERS

Addis Ltd., "Wisdom" Nylon Toothbrushes and other Toilet Brushes. Sole Agents: J. L. Morison Son & Jones (India) Private Ltd., Contractor Building, Nicol Road, Ballard Estate, Bombay 1.

BRUSHES

BRITON BRUSH CO. LTD., The, Wymondham, Norfolk, England. Sellers: Goodlass Nerolac Paints Private Ltd., Forbes Building, Home Street, Fort, Bombay 1.

G. B. Kent & Sons Ltd., 24, Old Bond Street, London W. 1. Agents: Gillanders Arbuthnot & Co. Ltd., 16, Queen's Road Estate, Bombay 1.

BUILDING & CONSTRUCTION MACHINERY

Friedrich Wilh Schwing G.m.b.H., Germany. Construction Equipment like Self-Supporting Hoists, Climbing Cranes, Hoeing Showl Load, etc. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Fritz Graupner Ohg, Germany. Stone Polishing, Grinding and Cutting both Petrol & Electrically Driven. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Georg. Stetter Baumaschinenfabrik, Germany. High Speed Builder's Winches, Concrete Mixers, Canal Cranes, etc. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

METAL EXPORT, MOKOTO WSKA, 49, Warszawa, Poland. Selling Agents: Khemka & Co., (Agencies) Private Ltd., Vulcan Insurance Bldg., 202/A, Veer Nariman Road, Bombay 1.

W. G. Armstrong Whitworth (Metal Industries) Ltd., England. "Kue-Ken" Jaw and Gyratory Crushers. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Wacker Gebruder, Germany. Gasoline/Electric High Frequency Internal, External Concrete Vibrators, Tampers, Tie Tampers, Plate Vibrators, etc. Agents: Armstrong Private Ltd., 1, Sir P. M. Road, Bombay 1.

BUILDING MATERIAL HARDWARE

Henry Lane Pty Ltd., Australia. Sole Agents: Elliott Waud & Hill Private Ltd., 1-2, Lakshmi Bldg., Sir P. M Road, Bombay 1.

HOLOPLAST LTD., England. (Holoplast Linings, Panels Extrusions "CHEQUERPLAST.") Selling Agents: I.C.I. (India), Private Ltd., Post Box No. 310, Bombay 1.

I.C.I. LTD., Dyestuffs Division, England. Concrete additives. Selling Agents: Imperial Chemical Industries (India) Private Ltd., P.O. Box No. 310, Bombay 1.

I.C.I. LTD., England. Metals Division & Yorkshire Imperial Metals Ltd., Leeds, London. (Wrought Non-ferrous Metals, Pipe Fittings, Aluminium Sheets, plain and corrugated). Plastics Division: Corrugated "Perspex", "Alkathene Film". Selling Agents: I.C.I. (India) Private Ltd., Post Box No. 310, Bombay 1.

Richard Hill Ltd., England. Mfrs. of "MAXWELD" brand Steel fabric for Concrete reinforcement. Sole Agents in India: Alsales Ltd., 9, Wallace Street, Bombay 1.

Wm. Newman & Sons Ltd., England. Sole Agents: Elliott Waud & Hill Private Ltd., 1-2, Lakshmi Bldg., Sir P. M. Road, Bombay 1.

CABLES & WIRES

Aktiebolaget Liljeholmens Kabelfabrik, Stockholm. Manufacturers of cables and wires. Representatives: Asea Electric India, Private Limited, Yafi Building, Goa Street, Ballard Estate.

Charles Hirst & Sons Ltd., England. Hardened & Tempered Steel Card Wire. Agents: Armstrong Smith Private Ltd. 1, Sir P. M. Road, Post Box No. 185, Bombay 1.

George Clayton Ltd., England. Polished Flat Iron Reed Wire. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Post Box No. 185, Bombay 1.

John Rigby & Sons Ltd., England. Steel Wire for Springs, Pianos, Stitching, Reeds, Screws, Pins, Drawn Pinion Sections & Powder Metallurgy Products, Paper Clips, etc. Agents: Armstrong Smith Private Ltd. 1, Sir P. M. Road, Post Box No. 185, Bombay 1.

Northern Cable & Wire Works, Copenhagen, Denmark. Agents: Hindco, 27, New Queen's Road, Bombay 4.

SCOTTISH CABLES LIMITED, Deanside, Renfrew, Scotland. Power Cables. Representatives: James Finlay & Co., Limited, P.O. Box No. 73, Bombay 1.

CALCULATING MACHINES

ORGANIZZAZIONE POZZI, MILANS (207)—Via Serbelloni, 14, Italy. (Antares Calculating Machines). Representatives: Latham, Abercrombie & Co. Private Ltd., Forbes Building, Home Street, Fort.

CANNED & BOTTLED PROVISIONS

Frank Cooper Ltd., "Oxford" Marmalade, etc. Agents:—J. L. Morison, Son & Jones India Private Ltd., Contractor Building, Nicol Road, Ballard Estate, Bombay 1.

Marmite Food Extract Co., Ltd.," Marmite." Sole Agents: J. L. Morison, Son & Jones (India) Private Ltd., Contractor Building, Nicol Road, Ballard Estate, Bombay 1.

CANVAS TWINE AND HOSE

Boase Spinning Co., Ltd., Dundee. Agents: Killick Nixon & Co., Private Ltd, Killick House, Home Street, Fort.

Tanner Bros. (Greenfield) Ltd., Greenfield, Near Oldham. Agents: Soho House, Lohar Street.

CARD CANS (MFRS.)

Stowaca Fibre & Can Co., Ltd., Moston, Manchester 9, Fibre and Steel Card Cans. Agents: Roberts, McLean & Co., Ltd., Ilaco House, Sir Phirozshah Mehta Road, Fort.

CARRIAGE TYRE CHANNELS

Pritt & Co., Ltd., 11-12, St. Swithin's Lane, London, E.C. 4. Agents: Soho House, Lohar Street.

CASE HARDENING COMPOUND

IMPERIAL CHEMICAL INDUSTRIES LTD., General Chemicals Division, England. ("Cassel" brand Heat treatment Salts). Agents in India: I.C.I. (India) Private Ltd., Post Box No. 310, Bombay 1.

CASTING MANUFACTURERS

Les Fonderies Magotteaux Limited, Belgium —Steel Casting, Grinding Bodies, for Cement, Mining, Chemical and Ore Crushing Industries. Contact: Ratansi Morarji Private Limited, Prospect Chambers, 317/21, Dr. Dadabhoy Naoroji Road, P. B. No. 1270, Bombay 1.

CEMENT & CONCRETE

Cement Marketing Co., Ltd., London. Agents: Killick Nixon & Co. Private Ltd., Killick House, Home Street, Fort.

Christiani & Nielsen, Copenhagen, Denmark. Patented R. C. C. Arch Bridges with inclined hangers. Sole Agents in India: Gammon India Private Ltd., Hamilton House, Ballard Estate, Bombay.

Colcrete Ltd., London. Manufacturers of Colloidal Mixers and Colloidal Trouting. Sole Agents in India: Gammon India Private Ltd., Hamilton House, Ballard Estate, Bombay.

DYCKERHOFF PORTLAND ZEMENTWERKE AG., Wiesbaden-Amoneburg, Germany. Manufacturers of Rapid hardening cement, Dyckerhoff, Halliburton-oil-well cement, Low Heat Portland cement, Dyckerhoff sulfadur High Sulphate Resistant Cement. Sole Agents: H. Mookhand & Co., 25, Parsee Bazar Street, Bombay 1 Branch Office: 26, Chowringhee Road, Calcutta 13.

Keystone Refractories Co., "Dura-Stix" Firebrick Cement. Agents: Hardcastle, Waud & Co., Private Ltd., Alice Buildings, Dr. Dadabhoy Naoroji Road, Fort.

Mouchel & Partners, L. G., Ltd., London. Water Cooling Towers. Agents in India: Gammon India Private Ltd., Hamilton House, Ballard Estate.

CEMENT AND CONCRETE MACHINERY

Winget Limited. Concrete Mixers & Mortar Mills, Vibrators, Batching Plants. Sole Distributors: William Jacks & Co. Ltd., Hamilton House, Graham Road, Ballard Estate.

CEMENT MACHINERY

Johnson (Machinery) Ltd., C. H., England. Sole Agents: Killick Nixon & Co., Private Ltd., Killick House, Home Street, Fort.

CEMENT WATERPROOFER

Oliver Keeling & Sons, Keynsham, Nr. Bristol. Agents: Gillanders Arbuthnot & Co. Ltd., 16, Queen's Road Estate, Bombay 1.

CERAMIC KILNS & MATERIALS

Applied Heat Co., Ltd., The, England. Agents in India: Indian Wild-Barfield Co. Private Ltd., Lotus Cinema Buildings, Hornby Vellard, Bombay 8.

Blythe Colour Works Limited, England. General Agents in India: Indian Wild-Barfield Co. Private Ltd., Lotus Cinema Building, Hornby Vellard, Bombay 8.

CHAIN BELTS AND CONVEYORS

Griffin Woodhouse Chain Cables Ltd., Chains and Cables Agents: John Fleming & Co., Private Ltd., Bastion Road, Fort, Bombay. Phone: 261153.

J. Collis & Sons Ltd., London. Sole Agents: Killick Nixon & Co., Private Ltd., Killick House, Home Street, Fort.

Job Wheway & Sons Ltd., Walsall. Chains up to ¾" Link, etc. Agents in India: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

CHAIN LINKS AND DRIVES

Ewart Chainbelt Co., Colombo Street, Derby, England. Chains & Chain Links. Agents: Balmer Lawrie & Co., Ltd., 5, Graham Road, Ballard Estate, Bombay. Phone: 261494 (3 lines). Grams: "BALMER".

Whitney Chain Co., Hartford (U.S.A.). Agents in India: Essential Engineering Co., Botawala Building, Elphinstone Circle, Fort.

CHARTS (MARINE)

Imray, Laurie, Norie & Wilson Ltd., Wych House, St. Ives, Huntingdonshire, England. Agents: E. W. Stevens and Co., Private Ltd., 4, Ballard Road, Bombay 1.

Superintendent of Issue, Hydrographic Supplies Establishment, Creechbarrow House, Taunton Somerset, England. Agents: E. W. Stevens and Co., Private Ltd., 4, Ballard Road, Bombay 1.

CHEMICAL MANUFACTURERS

A.C.C.I. CAUSTIC SODA, Liquid Chlorine, Hydrochloric Acid. Selling Agents in India: I.C.I. (India) Private Ltd., Post Box No. 310, Bombay 1. (For details please see under the heading "CHEMICALS".)

DIA CHEMIE. (German D. R.) Sole Distributors: Mahendra Shantilal, Abeebaker Mansion, 8, Causeway Road, Bombay 1. Grams: "COAL-TAR," Bombay.

HARDMAN & HOLDEN LTD., Manchester, England. Manufacturers of "Manox" Sodium Hydrosulphite. Sole Suppliers in India: Ciba Dyes Private Ltd., Royal Insurance Building, Jamshedji Tata Road, Churchgate Reclamation, Bombay 1. Phones: 37184-87. Tel. Address: "CIBA". Post Box No. 479. Codes used: Universal Trade and Bentley's Second Phrase.

Howards of Ilford Ltd., Ilford, near London. Manufacturers of Pharmaceutical Chemicals, Quinine preparations and Solvents. Agents: The Anglo-Thai Corporation Ltd., Ewart House, Bruce Street.

JOHNSONS OF HENDON LTD., Hendon Way, London, England. Scales Brand Photographic & Process Chemicals. Agents: Allied Photographics Private Ltd., Kasturi Bldg., Jamshedji Tata Road, Bombay 1.

ROHM & HAAS CO., Philadelphia, U.S.A. Sole Representatives in India: Amrilal & Co. Private Ltd., 11, Sprott Road, Ballard Estate, Fort, Bombay.

CHEMICAL AND PHARMACEUTICAL MACHINERY AND EQUIPMENT MFRS.

Ambeg, Germany Machinery for manufacture of Ampoules, Vials, Tablet and test-tubes, bulbs, etc., Glass Tubes Cutting, Sorting & Weighing Machines. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Apex Construction Co., London. Tablet Machines, Industrial Compressing Machinery, Pharmaceutical equipment, special process plant. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Blackfriars Engineering Co., England. Masson Mills used in Rubber, Plastics and allied industries. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Blackfriars Rotary Cutters, England. 'Masson & Junior' Rotary Cutters used in Rubber, Plastic and allied industries. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Constructors John Brown Limited Fertilizer, Heavy Water plant, etc. Sole Distributors: William Jacks & Co., Ltd., Hamilton House, Graham Road, Ballard Estate.

Enamelled Metal Products Corporation (1933) Ltd., England. "PFAUDLER" Glass Enamelled Steel Storage & Mixing Vessel, Steel Chemical Process Equipment, Stainless Steel Vessel & Equipment. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

L. A. Mitchell Ltd., England. Heating Ovens, Mitchell Drying Equipment, Acid Pumps, Chemical Plants, etc. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Pfaudler Co., U.S.A. "Pfaudler" Glass Enamelled Steel Storage & Mixing Vessel, Steel Chemical Process Equipment, Stainless Steel Vessel & Equipment. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Pfaudler Werke A. G., Germany. "Pfaudler" Glass Enamelled Steel Storage & Mixing Vessel, Steel Chemical Process Equipment, Stainless Steel Vessel & Equipment. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Q. V. F. Limited, England. Industrial Plants in Glass, "PYREX" Visible Flow Pipes Lines for Chemical, Pharmaceutical and Food Industries. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Sharples International Centrifugal Sales Ltd., Nassau. Complete range of specialised equipment for Centrifugal application in paint, vegetable oil, lubricating oil, transformer oil, pharmaceuticals, chemicals, starch, oil re-claiming, etc. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

CHEMICALS

Airco Company International, 60, East 42nd Street, New York 18 N.Y., U.S.A. Agents: Hardcastle, Waud & Co., Private Ltd., Alice Buildings, Dr. Dadabhoy Naoroji Road, Fort.

ALBRIGHT & WILSON (MFG.) LTD., Fine Chemicals Division, England. Selling Agents: I.C.I. (India) Private Ltd., Post Box No. 310, Bombay 1.

ALBRIGHT & WILSON (MFG.) LTD., London. (Amorphous Phosphorus, Phosphoric Acid, etc.) Selling Agents in India: Imperial Chemical Industries (India) Private Ltd., P.B. No. 310, Bombay 1.

ALUMINA CO., LTD., THE, Widnes. (Sulphate of Alumina-Iron Free). Selling Agents in India: Imperial Chemical Industries (India) Private Ltd., P.B. No. 310, Bombay 1.

Archer Daniels-Midlands Company, 225, Broadway, New York 7, N. Y., U. S. A. Agents: Hardcastle Waud & Co. Private Ltd., Alice Building, Dr. Dadabhai Naoroji Road, Fort.

BOLIDENS GRUVAKTIEBOLAG, Sweden. (Arsenic). Agents: I.C.I. (India) Private Ltd., Post Box No. 310, Bombay.

BOOTS PURE DRUG CO., LTD., Nottingham. (Saccharin, Potassium permanganate Tech.). Selling Agents in India: Imperial Chemical Industries (India) Private Ltd., P.B. No. 310, Bombay 1.

BORAX CONSOLIDATED LTD., London. Selling Agents in India: Imperial Chemical Industries (India) Private Ltd., P.B. No. 310, Bombay 1.

BRITISH DYEWOOD CO., LTD., Glasgow. Selling Agents in India: Imperial Chemical Industries (India) Private Ltd., P.B. No. 310, Bombay 1.

BRITISH GLUES & CHEMICALS LTD., London. Selling Agents in India: Imperial Chemical Industries (India) Private Ltd., P.B. No. 310, Bombay 1.

BRITISH SULPHATE OF COPPER ASSOCIATION, LTD., London. Selling Agents in India: Imperial Chemical Industries (India) Private Ltd., P.B. No. 310, Bombay 1.

BROTHERTON & CO., LTD., Leeds. Selling Agents (for Formosal & Hydros) in India: Imperial Chemical Industries (India) Private Ltd., P.B. No. 310, Bombay 1.

CHEMICALS & INSULATING CO., LTD., (THE), Darlington. Selling Agents in India: Imperial Chemical Industries (India) Private Ltd., P.B. No. 310, Bombay 1.

CHEMISCHE WERKE HUELS AKTIENGESELLSCHAFT, Marl Germany—Manufacturers of Chemicals, Solvents & Plastic Raw Materials. Sole Distributors: Chika Private Limited, Industrial Assurance Building, Opp. Churchgate Station, Bombay-1. Phone: 242291-3. Gram: 'Dyecold.'

Chemo Puro Mfg. Corpn., U.S.A. Sole Agents: Indo-International Commercial Corpn. Private Ltd., Crescent Chambers, Tamarind Lane, Bombay 1.

DIAMALT AKTIENGESELLSCHAFT, Muenchen, Germany—Manufacturers of Gums & Desizing Agents. Please apply to: Chika Private Limited, Industrial Assurance Building, Opp. Churchgate Station, Bombay 1. Phone: 242291-3. Gram: 'Dyecold'.

FARBENFABRIKEN BAYER AKTIENGESELLSCHAFT; Leverkusen, Germany—Manufacturers of Chemicals. Sole Distributors: Chika Private Limited, Industrial Assurance Building, Opp. Churchgate Station, Bombay 1. Telephone: 242291-3. Gram: "Dyecold".

FARBWERKE HOECHST AG., Frankfurt Main Hoechst, W. Germany. (Chemicals, Solvents, raw materials for Lacquers, Intermediates, etc.). Distributors: Messrs. Fedco Private Ltd., Mafatlal House, Backbay Reclamation, Bombay 1. Phone: 36864 5. Grams: "RAPRICOL".

FERTILIZER & CHEMICALS (TRAVANCORE) LTD., (Ammonium Chloride). Selling Agents in India: Imperial Chemical Industries (India) Private Ltd., P.B. No. 310, Bombay 1.

FULLERS' EARTH UNION LTD., Surrey. Selling Agents in India: Imperial Chemical Industries (India) Private Ltd., P.B. No. 310, Bombay 1.

Hercules Powder Co., Inc., Wilmington, Delware, U.S.A. Agents: Hardcastle, Waud & Co., Private Ltd., Alice Buildings, Dr. Dadabhoy Naoroji Road, Fort.

Houghton, E. F., & Co., Philadelphia. Houghton's Heat Treatment Specialities. Agents: Hardcastle, Waud & Co., Private Ltd., Alice Buildings, Dr. Dadabhoy Naoroji Road, Fort.

Industrial Tartarica Valenciana, S.A., Valencia, Spain. Tartaric Acid. Distributors: F. Bock & Co., Shale Building, Bank Street, Fort.

Industrias Quimicas Y. Tartaricas, S.A. Gerona, Spain. Tartaric & Citric Acid. Distributors: F. Bock & Co., Shale Building, Bank Street, Fort.

JOHN & E. STURGE LTD., Selling Agents in India: Imperial Chemical Industries (India) Private Ltd., P.B. No. 310, Bombay 1.

JOHNS-MANVILLE INTERNATIONAL CORPN., New York. Selling Agents: I.C.I. (India) Private Ltd., P.B. No. 310, Bombay 1.

K. D. Fedderson & Co., "Elbhof", Steinhoft 9, Hamburg 11, Germany. Fine, Heavy, Industrial and Pharmaceuticals Chemicals. Distributors: F. Bock & Co., Shale Building, Bank Street, Fort, Bombay 1.

LAPORTE, CHEMICAL, LTD., Luton, Bedfordshire. Selling Agents in India: Imperial Chemical Industries (India) Private Ltd., P.B. No. 310, Bombay 1.

MAGADI SODA CO., LTD. (THE), Mombasa. Selling Agents in India: Imperial Chemical Industries (India) Private Ltd., P.B. No. 310, Bombay 1.

Meer Corporation, New York, U.S.A. Sole Agents: Indo-International Commercial Corpn. Private Ltd., Crescent Chambers, Tamarind Lane, Bombay 1.

MOND NICKEL CO., LTD., THE, England. (Nickel Salts). Selling Agents: I.C.I. (India) Private Ltd., P.B. No. 310, Bombay 1.

M. W. Hardy & Co., Ltd., London. Chemicals, Pharmaceuticals, Dyes. Distributors: F. Bock & Co., Shale Building, Bank Street, Fort.

NATIONAL PEROXIDE LTD., Bombay. (Hydrogen Peroxide). Selling Agents: I.C.I. (India) Private Ltd., P.B. No. 310, Bombay 1.

N.V.F. VAN CHEMISCHE PRODUCTION (Oxalic acid). Selling Agents: I.C.I. (India) Private Ltd., P.B. No. 310, Bombay.

PAN AMERICAN SULPHUR CO., Washington, (Sulphur). Selling Agents: I.C.I. (India) Private Ltd., P.B. No. 310, Bombay 1.

SVENSKA CELLULOS AKTIEBOLAGET, Sweden. Selling Agents in India: Imperial Chemical Industries (India) Private Ltd., P.B. No. 310, Bombay 1.

SVENSKA TANDSTICKS AKTIEBOLAGET, Sweden. (Chlorate of Potash). Selling Agents in India: Imperial Chemical Industries (India) Private Ltd., P.B. No. 310, Bombay 1.

WESTERN INDIA MATCH CO., Bombay. (Chlorate of Potash). Selling Agents: I.C.I. (India) Private Ltd., P.B. No. 310, Bombay 1.

CHEMICALS & RAW MATERIALS

Montecatini, Milan, Italy. Acids, Chemicals, Minerals and Pigments. Contact: Ratansi Morarji Private Limited, Prospect Chambers, 317/21, Dr. Dadabhoy Naoroji Road, P. B. No. 1270, Bombay.

CHEMICALS (TEXTILES)

Chemapol Ltd., Panska 9, Prague II, Czechoslovakia. Sole Agents for India: Chemidye Trading Co., Ltd., Kamer Building, Cawasji Patel Street, Fort.

IMPERIAL CHEMICAL INDUSTRIES (INDIA) PRIVATE LTD., P.B. No. 310, Bombay. Importers of all Chemicals. For details please see under "CHEMICALS" Heading.

CHEMISTS, MANUFACTURING

Stafford, Allen & Sons, Ltd., London. Manufacturing Chemists, Distillers of Essential Oils, Manufacturers of Aromatic Chemicals, Soap and Perfume Compounds, and Insecticides. Agents: The Anglo-Thai Corporation, Ltd., Ewart House, Bruce Street.

CHRISTMAS & GREETING CARDS

Masterpiece Studios, Chicago. Sole Agents: Nair Aggarwal Ltd., National House, Tulloch Road, Apollo Bunder.

CIGARETTE LIGHTERS

Ronson Products Ltd., London. Cigarette Lighters & Products. Sole Distributors: Spencer & Co. Ltd., Spencer's Building, Forjett Street, Bombay 26.

CINEMA MACHINERY

British Thomson-Houston Export Co., Ltd., Rugby, England. Sales Distributors: Eastern Electric & Engineering Co. 127, Mahatma Gandhi Road, Bombay 1.

CIRCLIPS

ORBIS G.m.b.H., West Germany. Mfrs. of Circlips. Sole Agents: B. Chowdhury, Messrs. Indian Globe Chambers. (7th Floor), Fort Street, Fort, Bombay 1. Phone: 26-3479. Grams: "BISUKHI".

CLEARING AND FORWARDING AGENTS

Dean & Dawson Ltd., Passenger and Tourist Agents. Agents: Balmer Lawrie & Co., Ltd., 5, Graham Road, Ballard Estate, Bombay. Phone: 261494 (3 lines). Grams: "BALMER".

Geo. W. Wheatley & Co. Ltd., London, Liverpool, New York and Marseilles. Shipping and Forwarding Agents. Agents: Balmer Lawrie & Co. Ltd., 5, Graham Road, Ballard Estate, Bombay. Phone: 261494 (3 lines). Grams: "BALMER".

Gerhard & Hey Ltd., Shipping Agents, London, Liverpool, Manchester, Hull, Southampton, Glasgow. Agents: Hardcastle, Waud & Co., Private Ltd., Alice Buildings, Dr. Dadabhoy Naoroji Road, Fort.

Gerhard & Hey Co., Inc., Shipping Agents, 44, Whitehall Street, New York 4, N. Y. Agents: Hardcastle, Waud & Co., Private Ltd., Alice Buildings, Dr. Dadabhoy Naoroji Road, Fort.

Pitt & Scott Ltd., London, Glasgow. Liverpool, New York and Marseilles. Shipping and Forwarding Agents. Agents: Balmer Lawrie & Co. Ltd., 5, Graham Road, Ballard Estate, Bombay. Phone: 261494 (3 lines). Grams: "BALMER".

COAL CUTTING MACHINERY AND CONVEYORS

Mavor & Coulson Ltd., 47, Broad Street, Glasgow. Coal Cutters and Conveyors. Agents: Balmer Lawrie & Co., Ltd., 5, Graham Road, Ballard Estate, Bombay. Phone: 261494 (3 lines). Grams: "BALMER".

Siskol Machines Ltd., Siskol Works, Sheffield, England. Electric and Pneumatic Coal Cutters (Portable), Electric, Pneumatic and Petrol Engine Driven Drills. Agents: Balmer Lawrie & Co., Ltd., 5, Graham Road, Ballard Estate, Bombay. Phone: 261494 (3 lines). Grams: "BALMER".

COIN COUNTING MACHINES

INTERNATIONAL COIN COUNTING MACHINE CO., LTD., Alexandra House, Enfield, Middlesex, England. Coin Counting Machines. Representatives: Latham Abercrombie & Co. Private Ltd., Forbes Building, Home Street, Fort.

COLOURS

I. C. I. LTD., Dyestuffs Division, Manchester, England. Selling Agents in India: I.C.I. (India) Private Ltd., Post Box No. 310, Bombay 1.

J. W. & T. A. Smith Ltd., London. Fine Colour & Pigments. Distributors: F. Bock & Co., Shale Building, Bank Street, Fort

CONCRETE MACHINERY

Gifford-Udall Prestressing Equipment Sole Agents: Killick, Nixon & Co. Private Ltd., Killick House, Home Street, Fort, Bombay.

Stelmo Ltd., London. Agents: Killick Nixon & Co., Private Ltd., Killick House Home Street, Fort.

CONCRETE PRESTRESSED

McCalls Macalloy Ltd., Sheffield, England "Lee McCall" System of Prestressed Concrete; "Macalloy" bars and accessories; Designs and drawings supplied Sole Representatives: The United Steel Companies (India) Private Ltd., Himalaya House, Hornby Road, Fort.

CONCRETE REINFORCEMENT

McCall & Co., (Sheffield) Ltd., Templeborough, Sheffield, England. "Matebar" High Tensile Electrically Welded Steel Fabric for Reinforcement. Sole Representatives: The United Steel Companies (India) Private Ltd., Himalaya House, Hornby Road, Fort.

Pittsburgh Steel Products Co., Pittsburgh, U.S.A. Distributors: Manekial & Co., 166, Dr. Dadabhoy Naoroji Road, Bombay 1.

Richard Hill Ltd., England. Mfrs. of "MAXWELD" brand Steel Fabric for Concrete reinforcement. Sale Agents in India: Alsales Ltd., 9, Wallace Street, Bombay 1.

CONCRETE VIBRATORS

Allam, E. P., & Co., Ltd., 45, Great Peter Street, Westminster, London, S.W.1. Sole Agents: Heatly & Gresham Ltd., 9, Forbes Street, Fort.

Johnson (Machinery) Ltd., C. H., England. Sole Agents: Killick, Nixon & Co., Private Ltd., Killick House, Home Street, Fort.

Wacker Gebruder, Germany. Gasoline/ Electric High Frequency Internal/External Concrete Vibrators, Tampers, Tie Tampers, Plate Vibrators, etc. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

CONDUIT APPLIANCE

Ductube Co. Ltd, London. Agents: Killick, Nixon & Co. Private Ltd., Killick House, Home Street, Fort.

CONFECTIONERS

B. YOUNG & CO., England. Edible Gelatine. Selling Agents in India: Imperial Chemical Industries (India) Private Ltd., P.B. No. 310, Bombay 1.

James Pascall, Ltd., Confectionery. Sole Agents: J. L. Morison, Son & Jones (India) Private Ltd., Contractor Building, Nicol Road, Ballard Estate, Bombay 1.

CONFECTIONERY MACHINERY

Rose Brothers (Gainsborough) Ltd., England Packing, Wrapping, Labelling & Bag Making Machinery. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

CONSULTING ENGINEERS

Ingenieurdienst, G.m.b H. Germany. Agents: Behram & Co, 1/1 Lakshmi Bldg, Sir P. M. Road, Bombay 1.

CONTRACEPTIVE & THERAPEUTIC PRODUCTS

ORTHO PHARMACEUTICAL LTD., England. Selling Agents: I.C.I. (India) Private Ltd., P.B. No. 310, Bombay.

CONTRACTORS, PLANT AND MACHINERY

Blaw Knox Ltd., London. Concrete Mixers. Sole Agents: Marshall, Sons & Co. (India) Ltd., Marshall's Building, Ballard Road, Bombay 1.

Boydell & Co. Ltd., E., Manchester (Muir-Hill Dumpers). Agents for Western India: Killick, Nixon & Co. Private Ltd., Killick House, Home Street, Fort.

Cement & Steel Ltd., Kent, (Bar Bending & Bar Shearing Machine). Agents: Killick, Nixon & Co. Private Ltd., Killick House, Home Street, Fort.

Christopher & Sons Ltd., J., London, (Hemel Hoists). Sole Agents: Killick, Nixon & Co. Private Ltd., Killick House, Home Street, Fort.

Fiorentini & Co., Ing. F., Italy. Agents for Western India:—Killick, Nixon & Co. Private Ltd., Killick House, Home Street, Fort.

Frederick Parker, Ltd., Leicester. Sole Agents: Heatley & Gresham Ltd., 9, Forbes Street, Fort.

Friedrich Wilh Schwing G.m.b.H. Germany, Construction Equipment like Self-Supporting Hoists, Climbing Craner, Hoeing Showl Load, etc. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Fritz Graupner Ohg., Germany. Stone Polishing, Grinding and Cutting both Petrol & Electrically Driven. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Georg. Stetter Baumaschinenfabrik, Germany. High Speed Builder's Winches, Concrete Mixers. Canal Cranes, etc. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Ingenieurdienst G.m.b.H. Germany. Representatives: Behram & Co., 1/1 Lakshmi Bldg., Sir P.M. Road, Bombay 1.

W. G. Armstrong Whitworth (Metal Industries) Ltd., England. "Kue-Ken" Jaw and Gyratory Crushers. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Wacker Gebruder, Germany. Gasoline/ Electric High Frequency Internal/External Concrete Vibrators, Tampers, Tie Tampers, Plate Vibrators, etc. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

CONVEYORS AND LOADERS

Barber-Greene (Overseas) Inc., Aurora, Illinois, U.S.A. Barber-Greene Olding Co. Ltd., Hatfield, Herts, England. Bituminous Finishers, Conveyors and Loaders. Sole Distributors: William Jacks & Co. Ltd, Hamilton House, Graham Road, Ballard Estate.

British Straddle Carrier Co, Ltd. London. Agents: Killick, Nixon & Co., Private Ltd., Killick House, Home Street, Fort.

CRANES & HOISTS

Austin Western Co. Construction Equipment Division, Aurora, Illinois, U S A. Power Graders, Hydraulic Cranes, Motor Sweepers, etc. Sole Concessionaires: Greaves Cotton & Co. Ltd., 1, Forbes Street, Fort, Bombay.

Clyde, Crane & Booth Ltd., Rodley, Leeds, England and Mossend, Scotland. Electric, Steam and Diesel Dock and Wharf Cranes, Travelling Jib Cranes for Docks, Railways and Collieries, Railway Breakdown and Main Line Cranes and Deck cranes. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort.

Cowans, Sheldon & Co. Ltd. Carlisle. Cranes, Gantries, Lifting Gear, Turntables, etc. Agents: Guest, Keen, Williams, Ltd., Wakefield House, Sprott Road, Ballard Estate, Bombay.

Fellows Brothers Ltd., Cradley Heath, England. Lifting Appliances. Sole Concessionaires: Greaves Cotton & Co Ltd., 1, Forbes Street, Fort, Bombay.

Geo. W. King Ltd., London. Conveyors and Electric Crane and Hoists. Agents: Richardson & Cruddas Ltd., Byculla, Bombay 8.

John Smith & Sons (Keighley) Ltd., Keighley. Electric Overhead Travelling Cranes. Sole Agents: Marshall, Sons & Co. (India) Ltd., Marshall's Building, Ballard Road, Bombay 1.

KARL KEIENBURG, ESSEN-STEELE, Germany. Manufacturers of Steel Tube Light Construction Cranes for all Purposes. Agents: Gaytee & Company, Janmabhoomi Chambers, Fort Street, Bombay 1. Phone: 263469. Grams: "IMPENO."

Loro & Parisini, Milan. Sole Agents: Killick, Nixon & Co. Private Ltd., Killick, House, Home Street, Fort, Bombay.

Thomas Smith & Sons (Rodley) Ltd, Rodley, Steam and Diesel Cranes. Sole Agents: Marshall, Sons & Co. (India) Ltd., Marshall's Building, Ballard Road, Bombay 1.

CUTTING OILS AND SOLUTIONS

Germ Lubricants Ltd., Salford, Manchester. Lubricating Oils, Greases, Soluble Cutting Oils and Quenching Oils. Sole Concessionaires: Greaves Cotton & Co. Ltd., 1, Forbes St, Bombay.

DAIRY MACHINERY MANUFACTURERS

Enamelled Metal Products Corporation (1933) Ltd., England. "PFAUDLER" Glass Enamelled Steel Storage & Mixing Vessel, Steel Chemical Process Equipment, Stainless Steel Vessel & Equipment, Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Pfaudler Co., U.S.A. "Pfaudler" Glass Enamelled Steel Storage & Mixing Vessel, Steel Chemical Process Equipment, Stainless Steel Vessel & Equipment. Agents: Armstrong Smith Private Ltd, 1, Sir P. M. Road, Bombay 1.

Pfaudler Werke A. G., Germany. "Pfaudler" Glass Enamelled Steel Storage & Mixing Vessel, Steel Chemical Process Equipment, Stainless Steel Vessel & Equipment. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Westfalia Separator A. G. West Germany. Agents: Dairy Equipment Co., 204, Dr. Dadabhai N. Road, Bombay 1.

DENTAL GOODS

DENTAL MANUFACTURING CO., LTD., England. (Kallodent, etc.) Selling Agents: I.C.I. (India) Private Ltd., P.B. No. 310, Bombay 1.

Nordenta (Sweden) Ltd., Dental Syringes, Instruments & Equipments. Sole Agents: J. L. Morison, Son & Jones (India) Private Ltd., Contractor Building, Nicol Road, Ballard Estate, Bombay 1.

DIESEL ENGINES

Andritz, Vienna. Industrial Diesel Engines from 250 BHP. Sole Agents: Marshall, Sons & Co. (India) Ltd., Marshall's Building, Ballard Road, Bombay 1.

Bergins Co. Ltd, Glasgow. Agents: India Metal Agencies, Post Box No. 1966, Bombay-1.

Cummins Diesel Export Corp., Indiana, U.S.A. Sole Agents: Blackwood Hodge (India) Private Ltd, Lotus House, Marine Lines, Bombay 1.

Davey Paxman & Co., Ltd., Standard Iron Works, Colchester. Diesel Engines for Stationary, Marine and Rail Traction Duties. Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort.

Dorman, W. H. & Co., Ltd., Stafford. Industrial and Marine Diesel Engines. Sole Agents: Marshall, Sons & Co. (India) Ltd., Marshall's Building, Ballard Road, Bombay 1.

East Japan Heavy Industries Ltd. (Japan). For Beacon Diesel Engines. Agents in India: Essential Engineering Co., Botawala Building, Elphinstone Circle, Fort.

H. Widdop & Co. Ltd., Keighly, England. Agents: India Metal Agencies, Post Box No. 1966, Bombay 1.

Ruston & Hornsby Ltd., Lincoln & Grantham, England. Horizontal & Vertical Stationary Diesel Engines, also Marine, Main and Auxiliary Diesel Engines. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort.

Turner Manufacturing Co., Ltd., Wolverhampton. Agents: Killick, Nixon & Co. Private Ltd., Killick House, Home Street, Fort.

DISC SPRINGS

ADOLF SCHNORR, West Germany. Mfrs. of Disc Springs. Sole Agents: B. Chowdhury. Messrs. Indian Globe Chambers (7th Floor) Fort Street, Fort, Bombay 1. Phone: 26-3479. Grams: "BISUKHI."

DISINFECTANTS AND INSECTICIDES, FUNGICIDES, WEEDKILLERS ETC.

ALKALI & CHEMICAL CORPORATION OF INDIA LTD., Calcutta. Gammexane brand insecticides etc.) Agents: I.C.I. (India) Private Ltd., Post Box 310, Bombay 1.

BRITISH SULPHATE OF COPPER ASSOCIATION LTD., 1, Great Cumberland Place, London, W. 1. (Copper Sulphate.) Agents in India: I. C. I. (India) Private Ltd., Post Box No. 310, Bombay 1.

Dakin Brothers, Ltd., 82, Middlesex Street, London, E.1. Manufacturers of Dakin's Creasol Disinfectant. Sole Agents: J. D. Jones & Co. (Bombay) Private Ltd., Rustom Building, Veer Nariman Road, Fort.

Hercules Powder Co., Inc., Wilmington, Delware, U.S.A. Agents: Hardcastle, Waud & Co. Private Ltd., Alice Buildings, Dr. Dadabhoy Naoroji Road, Fort.

Michigan Chemical Corporation, U.S.A. Insecticides. Sole Distributors: Spencer & Co., Ltd., Spencer's Building, Forjett Street, Bombay 26.

PLANT PROTECTION LTD., Belton House, 61, Curzon Street, Piccadilly, London, W. 1. (For plant protection products and growth promoting Chemicals). Agents in India: I. C. I. (India) Private Ltd., Post Box No. 310, Bombay 1.

Thomas Cowan & Co., Extermination of White ants. Agents: The Anglo-Thai Corporation, Ewart House, Bruce Street.

Thresh Disinfector Co., Phoenix Works, Marriner Road, Keighley, Yorks. Sole Agents: Heatly & Gresham, Ltd., 9, Forbes Street.

DOMESTIC APPLIANCES

Lumbys Ltd., London. Hot Water Boiler, etc. Agents: Richardson & Cruddas, Ltd., Byculla, Bombay 8.

DOMESTIC HARDWARES

Valor Co., Ltd., "Stoves, Cookers, Ovens, etc." Sole Agents: J. L. Morison, Son & Jones (India) Private Ltd., Contractor Building, Nicol Road, Ballard Estate, Bombay 1.

DRAWING OFFICE EQUIPMENT

Lawes Rabjohns Ltd., Acre Works, Brooklands Road, Weybridge, Surrey. Drawing Office Materials and Equipment. Agents: Gillanders Arbuthnot & Co., Ltd., 16, Queen's Road Estate, Bombay 1.

DREDGERS

Fleming & Ferguson Ltd., Paisley. Agents: Glenfield & Kennedy Ltd., 190, Jamshedji Tata Road, Fort.

DREDGERS AND DREDGING PLANT BUILDERS

De Groot, Holland. Bucket Dredgers. Sole Agents: Marshall, Sons & Co. (India) Ltd., Marshall's Building, Ballard Road, Bombay 1.

Gwynnes Pumps Ltd., Lincoln. Suction Dredgers. Sole Agents: Marshall, Sons & Co. (India) Ltd., Marshall's Building, Ballard Road, Bombay 1.

I. H. C. Holland, Holland. Agents for Western India: Killick, Nixon & Co. Private Ltd., Killick House, Home Street, Fort.

Wm. SIMONS & CO., LTD., Renfrew, Near Glasgow. Representatives: James Finlay & Co., Limited, P.O. Box No. 73, Bombay 1.

DRILLING AND BORING EQUIPMENT

Halifax Tool Co., Ltd., Halifax. Sole Agents: Killick, Nixon & Co. Private Ltd., Killick House, Home Street, Fort.

Kitchen & Wade Ltd., Halifax, England. Drilling Machines. Agents: Heatly & Gresham Ltd., 9, Forbes Street.

Mineral Drillers Ltd., Preston, Victoria, Australia. Diamond Coring and blast hole drills, Grout drills and accessories. Rods, Casings and pumps. Diamond bits. Bits for Coring, non-coring, reaming and casing bits. Portable Rotary drills. Sole Concessionaires: Greaves Cotton & Co. Ltd., 1, Forbes Street, Fort.

Ruston-Bucyrus, Ltd., Lincoln, England and Bucyrus-Erie Company, South Milwaukee, Wisconsin, U.S.A. Excavating Machinery, Well and Blast Hole Drills, Hydro Cranes. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort.

Siemens-Schuckert (G.B.) Ltd., Brentford, Middlesex. Electric Hand Drills, Gate End Panels, Wimet Bits, etc. Agents: Balmer Lawrie & Co., Ltd., 5, Graham Road, Ballard Estate, Bombay. Phone: 261494 (3 lines). Grams: "BALMER".

Swenska Motorborr Aktiebolajet, Sweden. Portable Petrol Driven Rock Drilling & Braking Machines. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

DRUGS & MEDICINES

DAIRY PRODUCTS LTD., New Zealand. (Lactose). Selling Agents in India: Imperial Chemical Industries (India) Private Ltd., P.B. No. 310, Bombay 1.

DISTILLOX CO (BIOCHEMICALS) LTD., England. Selling Agents: I.C.I. (India) Private Ltd., P.B. No. 310, Bombay 1.

IMPERIAL CHEMICAL INDUSTRIES LTD., Pharmaceuticals Division, England. Selling Agents: I. C. I. (India) Private Ltd., Post Box No. 310, Bombay 1.

Otto A. H. Wolfer, Hamburg 1, Rosenstrasse 11 (Germany). Agents: Hardcastle Waud & Co. Private Ltd., Alice Building, Dr. Dadabhoy Naoroji Road, Fort.

WHEY PRODUCTS LTD., London. (Lactose). Selling Agents: I. C. I. (India) Private Ltd., P.B. No. 310, Bombay 1.

DUMPERS

Foden Ltd., Sandbach. Dumpers. Sole Agents: Marshall, Sons & Co. (India) Ltd., Marshall's Building, Ballard Road, Bombay 1.

DUPLICATING MACHINES

ELLAMS DUPLICATOR CO., LTD., Walton Road, Bushey Hall Road, Watford, England. Duplicating Machines and Equipment Suppliers. Representatives: Ludhana Ahluwalia & Co. Private Ltd., Yeolkar Building, Home Street, Fort.

DUSTERS

T. N. WALDRON LTD., Avon Works, Stratford-on-Avon, England. (Weldustpowder Distributor) Agents: I.C.I. (India) Private Ltd., Post Box No. 310, Bombay 1.

DYESTUFFS

Badische Anilin & Soda Fabrik, Germany. Agents: Sukhanand Shankarlal Jain & Co., Private Ltd., 47, Deniyusthan Street, Bombay 3.

Chemapol Ltd., Panska 9, Prague II, Czechoslovakia. Sole Agents for India: Chemidye Trading Co., Ltd., Kamer Building, Cawasji Patel Street, Fort.

CIBA LIMITED, Basle (Switzerland). Manufacturers of Aniline Dyes, Indigo, etc. Sole Suppliers for India: Ciba Dyes Private Limited, Royal Insurance Building, Jamshedji Tata Road, Churchgate Reclamation, Bombay 1. Phone Nos. 37184/7. Tel. Address: "CIBA." Post Box No. 479. Codes used: Universal Trade and Bentley's Second Phrase.

FARBENFABRIKEN BAYER AKTIENGESELLSCHAFT, Leverkusen, Germany. Manufacturers of Coal-tar Dyes. Sole Distributors: Chika Private Ltd., Industrial Assurance Building, Opp. Churchgate Station, Bombay 1. Phone: 242291-3. Gram: 'DYECOLD'.

FARBWERKE HOECHST AG., Frankfurt/Main/Hoechst, W. Germany. (Dyestuffs, Textile Auxiliaries, etc.). Distributors: Messrs. Fedco Private Ltd., Mafatlal House, Backbay Reclamation, Bombay 1. Phone: 36864 5. Grams: "RAPRICOL".

I. C. I. LTD., Dyestuffs Division, Manchester, England. Selling Agents: I. C. I. (India) Private Ltd., Post Box No. 310, Bombay 1.

L. B. HOLLIDAY & CO. LTD., Huddersfield, England. Sole Agents for India, Burma & Ceylon: Amritlal & Co Private Ltd., 11, Sprott Road, Ballard Estate, Fort.

EARTHMOVING MACHINERY

Blaw Knox Ltd., London. Bulldozers, Scrapers, Rooters, Tamping Rollers Excavators. Sole Agents: Marshall, Sons & Co. (India) Ltd., Marshall's Building, Ballard Road, Bombay 1.

Boydell & Co. Ltd., E., Manchester (Mumm Hill Dumpers). Agents for Western India: Killick, Nixon & Co. Private Ltd., Killick House, Home Street, Fort.

Euclid Division General Motors Overseas Operations, U.S.A. Rear Dumps, Bottom Dumps, Scrapes, etc. Sole Agents: Blackwood Hodge (India) Private Ltd., Lotus House, Marine Lines, Bombay 1.

LeTourneau-Westinghouse Company, Peoria Illinois, U.S.A. Adams Motor Graders etc. Sole Distributors: William Jacks & Co., Ltd., Hamilton House, Graham Road, Ballard Estate.

Mack Trucks Inc., 1855 West Front St., Plainfield, New Jersey, U.S.A. Rear Dumpers, Side Dumpers, Truck Tractors for heavy duty trailer transport. Heavy Duty Trucks. Sole Importers: Volta, Chinchpokli Road, Bombay 12

Newton Chambers & Co. Ltd., Hornecliffe, Sheffield. Excavators, Earth Moving Plant. Agents: Balmer Lawrie & Co., Ltd., 5, Graham Road, Ballard Estate, Bombay. Phone: 261494 (3 lines). Grams: "BALMER".

Stroj Export, Praha, Czechoslovakia. Agents for Western & Central India: India Metal Agencies, India House, Fort Street, Bombay 1.

EARTHMOVING MACHINERY, CRANES

Fiorentini & Co., Ing. F., Italy. Agents for Western India: Killick, Nixon & Co. Private Ltd., Killick House, Home Street, Fort.

EDUCATIONAL FILMS

Bray Studios Inc., 729 Seventh Avenue, New York, 19, N.Y. Sole Agents: National Education & Information Films Ltd., National House, Apollo Bunder, Bombay.

Czechoslovak Films, Prague, Sole Agents: National Echete, etc.

Common Ground Ltd., Sydney Place, London, S.W. 7. Sole Agents: National Education and Information Films Ltd., National House, Tulloch Road, Apollo Bunder, Bombay.

Coronet Instructional Films, Coronet Building, Chicago, U.S.A. Sole Distributors: National Education & Information Films Ltd., National House, Tulloch Road, Apollo Bunder, Bombay.

Edited Pictures System (E.P.S. Instructional Films), 165 West, 46th Street, New York 19. Sole Agents: National Education & Information Films Ltd., National House, Tulloch Road, Apollo Bunder, Bombay.

Films of the Nations, Inc., 62, West, 45th Street, New York 19. Sole Agents: National Education and Information Films Ltd., National House, Tulloch Road, Apollo Bunder, Bombay.

McGraw-Hill Book Co., New York. Sole Distributors of McGraw-Hill Textfilms: National Education & Information Films Ltd., National House, Apollo Bunder, Bombay

National Film Board of Canada, Montreal (Canada). Sole Distributors for 16 mm. Film and Filmstrips. National Education & Information Films Ltd., National House, Apollo Bunder, Bombay.

ELECTRIC CONTROL GEAR

Allen West & Co. Ltd., Motor Control Gear of all descriptions. Sole Distributors: William Jacks & Co. Ltd., Hamilton House, Graham Road, Ballard Estate.

Lawrence Scott & Electromotors Ltd., Electric Motors of all descriptions. Sole Agents: William Jacks & Co., Ltd., Hamilton House, Graham Road, Ballard Estate.

ELECTRIC FURNACES

Electric Furnace Co., Ltd. (Group), Weybridge, Surrey. Agents: Killick, Nixon & Co. Private Ltd., Killick House, Home Street, Fort.

ELECTRIC HOUSE SERVICE METERS

Uher & Co., Vienna, Austria. Agents: India Metal Agencies, India House, Fort Street, Bombay 1.

ELECTRIC LAMPS

A.E.I. Lamp & Lighting Co., Ltd., London. Electric Lamps, "Ediswan". Agents: Balmer Lawrie & Co., Ltd., 5, Graham Road, Ballard Estate, Bombay. Phone: 261494. Grams: "BALMER".

Elektro-Rohren-gesselschaft mbh., Gottingen, West Germany. Mfrs. of Signal, Indicator Neon Lamps, and special purpose lamps. Agents: G. K. Trading Company, 327, Hornby Road, Bombay 1. Phone: 253877. Grams: "MULTIPLUG".

Nijmegen Lamp Co. Ltd. N.V., Nijmegen, Holland. Agents: G. K. Trading Company, 327, Hornby Road, Bombay 1. Phone: 253877. Grams: "MULTIPLUG".

United Incandescent Lamp & Electrical Co. Ltd., Ujpest 4 (Budapest), Hungary. Mfrs. of Famous Tungsram Krypton Lamps, Miniature Lamps, Film Exciter, Projection, Studio & Flood Light Lamps. Infra Red Lamps. Agents: G. K. Trading Company, 327, Hornby Road, Bombay 1. Phone: 253877. Grams: "MULTIPLUG".

ELECTRIC MOTORS

Aeronox Corporation, U. S. A. 'Aeronox' Motor Capacitors. Agents: C. Sethia & Co., 59, Forbes Street, Bombay 1.

Brook Motors Ltd., Huddersfield, A. C. Motors of all types and sizes. Sole Agents: Marshall, Sons & Co. (India) Ltd., Marshall's Building, Ballard Road, Bombay 1.

Laurence Scott & Electromotors Ltd., Electric Motors of all Descriptions. Sole Distributors: William Jacks & Co., Ltd., Hamilton House, Ballard Estate, Fort.

Outboard Marine & Manufacturing Co., Waukegan, U.S.A. Agents: India Metal Agencies Post Box No. 1966, Bombay 1.

ELECTRIC THERMOSTATS

ROBERT MACLAREN & CO., LTD., Eglinton Works, Kilbirnie Street, Glasgow, C. 5. Representatives: James Finlay & Co., Ltd., P.O. Box No. 73, Bombay 1.

ELECTRICAL CAPACITORS

Cornell Dubilier Electric International Corpn. Export Dept., New York 4, U.S.A. Sales Distributors: Eastern Electric & Engineering Co., 127, Mahatma Gandhi Road, Bombay 1.

ELECTRICAL GOODS & APPLIANCES

Artic Fuse & Electrical Mfg. Co., Ltd., Birtley Co., Durham, England. Knife Switches, H.R.C. Cartridge and Fuse Wire Type Switches, H.R.C. Cartridge and Fuse Wire Type Switchboard Pattern Fuses, Ironclad Switchgear, etc. Agents: Greaves Cotton & Crompton Parkinson, Private Ltd., 1, Forbes Street, Fort.

BECKETT & PARKER LIMITED, Birmingham, England. Manufacturers of Electrical Instruments. Agents: Gaytee & Company, Janmabhoomi Chambers, Fort Street, Bombay. Phone: 261469. Grams: "IMPENG."

Belling & Co., Ltd., Southbury Road, Enfield, Middlesex, England. Electric Cookers & Heaters. Agents: Greaves Cotton & Crompton Parkinson Private Ltd., 1, Forbes Street, Fort.

Black & Decker Mfg. Co., Towson, Maryland, U.S.A. Portable Electric Tools, etc. Agents: Greaves Cotton & Crompton Parkinson Private Ltd., 1, Forbes Street, Fort.

Black & Decker Ltd., Harmondsworth, Middlesex, England. Portable Electric Tools, etc. Agents: Greaves Cotton & Crompton Parkinson Private Ltd., 1, Forbes Street, Fort.

British Insulated Callender's Cables, Ltd., London. Agents: Killick, Nixon & Co., Private Ltd., Killick House, Home Street, Fort, Bombay.

Bullers Ltd., 6, Laurence Pauntney Hill, London, E. C. 4. Porcelain Insulators, etc. Agents: Greaves Cotton & Crompton Parkinson Private Ltd., 1, Forbes Street, Fort.

Compteurs Et Material Dusines A. Gaz, Seines, France. Agents: Hindco, 27, New Queen's Road, Bombay 4.

Cooke & Ferguson, Ltd., Openshaw, Manchester, England. High Tension Switchgear. Agents: Greaves Cotton & Crompton Parkinson Private Ltd., 1, Forbes Street, Fort.

Crompton Parkinson Ltd., Crompton House, Aldwych, London, W.C. 2, England. Electrical Machinery, Lamps, Fans, Batteries, Wires, Cables, etc. Agents: Greaves Cotton & Crompton Parkinson Private Ltd., 1, Forbes Street, Fort.

Dubilier Condenser Co. (1925) Ltd., North Acton, London, W.3., England. Static Capacitors, etc. Agents: Greaves Cotton & Crompton Parkinson Private Ltd., 1, Forbes Street, Fort.

E. & E. Kaye Ltd., England. Bare Copper Strips, Plain and Enamelled D.C.C. & S.C.C. Wires. Sole Agents: Johnson & Phillips Ltd., Kaiser-i-Hind Building, Currimbhoy Road, Ballard Estate.

EGA ELECTRIC LTD., Wednesbury, England. Manufacturers of Conduit pipe-fittings, Switchgears, and other accessories. Sole Agents: H. Moolchand & Co., 25 Parsee Bazar Street, Bombay 1. Branch: 26, Chowringhee Road, Calcutta 13.

ELECTRIC SERVICE MANUFACTURING CO., Philadelphia, U.S.A. "Crystal Valve" Lightning Arresters. Agents: Johnson & Phillips Ltd., Kaiser-i-Hind Building, Currimbhoy Road, Ballard Estate.

ELECTRIC TRANSMISSION LTD., England. Outdoor Switchgear and Fuses. Sole Agents: Johnson & Phillips Ltd., Kaiser-i-Hind Building, Currimbhoy Road, Ballard Estate.

Electrical Apparatus Co., Ltd., St. Albans, England. Electric Control Gear. Agents: Greaves Cotton & Crompton Parkinson Private Ltd., 1, Forbes Street, Fort.

Gent & Co., Ltd., Faraday Works, Leicester, England. Electrical Clocks and Signalling Apparatus. Agents: Greaves Cotton & Crompton Parkinson Private Ltd., 1, Forbes Street, Fort.

HELLUX, Hannover, Germany. Manufacturers of Street Luminaires, Luminaires for Incandescent, Mercury, Gas-Vapour, & Fluorescent Lamps, Pole Top Luminaires, Flood lights, Winches, Wall Brackets, Couplings, Traffic Light Units etc. Sole Agents: H. Moolchand & Co., 25, Parsee Bazar Street, Bombay 1. Branch Office: 26, Chowringhee Road, Calcutta 13.

Horstmann Gear Co., Ltd., Bath, England. "H.B.E." Electric Time Switches. Sole Agents: Johnson & Phillips Ltd., "Kaiser-i-Hind" Building, Currimbhoy Road, Ballard Estate.

Imperial-Werke G.m.b.H., Bunde/Westf. Germany. Mfrs. of Cooking Ranges. Agents: G. K. Trading Company, 327, Hornby Road, Bombay 1. Phone: 253877. Grams: "MULTIPLUG".

Jeka Spezialfabrik Elektrischer Apparate, Ing. Josef Kraut O.G.H., Heppenheim/Bergstrasse, West Germany. Mfrs. of Hot Plates & Special Electrical Elements. Agents: G. K. Trading Company 327, Hornby Road, Bombay 1. Phone: 253877, Grams: "MULTIPLUG".

L ANDIS & GYR, London, England. Electricity Meters. Sole Agents: Johnson & Phillips Ltd., Kaiser-i-Hind Building, Currimbhoy Road, Ballard Estate.

Landis & Gyr, Ltd., Zug (Switzerland). Electricity Meters, Time Switches. Sole Importers: Voltas Limited, Ballard Estate, Bombay 1.

P. R. Mallory & Co., Inc. Indianapolis, 6, Indiana, U.S.A. Agents: Hindco, 27, Queen's Road, Bombay 4.

Morgan Crucible Co., Ltd., Battersea Church Road, London, S.W.11, England. Carbon and Morganite Brushes. Agents: Greaves Cotton & Crompton Parkinson Private Ltd., 1, Forbes Street, Fort.

Nalder Bros. & Thompson Ltd., England. Electrical Measuring Instruments. Sole Agents: Johnson & Phillips Ltd., Kaiser-i-Hind Building, Currimbhoy Road, Ballard Estate.

N. V. Pope's Draad-en Lampen Fabrieken, Holland. Agents: Hindco, 27, New Queen's Road, Bombay 4.

PIFCO LTD., Manchester, England, Mfrs., Hair Dryers, Vibratory Massagers, etc. Sole Agents: Ramnarayan Trading Corporation, 8, Himalaya House, Palton Road, Bombay 1 (India). Phone: 263816. Cable: "MORPHY."

Reyrolle, A., & Co. Ltd., Hebburn Co., Durham, England. Sockets of Plugs, Switch-Sockets and Plugs, Switch-Free-Sockets & Plugs, etc. Agents: Greaves Cotton & Crompton Parkinson Private Ltd., 1, Forbes Street, Fort.

Richard Johnson & Nephew Ltd., Forge Lane, Manchester 11. Steel Cored Aluminium Conductor. Agents: Greaves Cotton & Crompton Parkinson Private Ltd., 1, Forbes Street, Fort.

Rowenta Metall-warenfabrik G.m.b.H., Offenbach A. M. Germany. Mfrs. of Rowenta High class Electrical Appliances, Irons, Sauce-pans, Coffee percolators and Exspresso Coffee Machines. Agents: G. K. Trading Co. 327, Hornby Road, Bombay 1. Phone: 25387 Grams: "MULTIPLUG".

Simplex Electric Co. Ltd., P.O. Box No. 8, Birmingham, England. Iron clad Switchgear and Switch fuse gear. Agents: Greaves Cotton & Crompton Parkinson Private Ltd., 1, Forbes Street, Fort.

S. O. Bowker Ltd., England. "TENBY" Pilot 4 amps. Tumbler Switches and Electrical Accessories. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Switchgear & Equipment Ltd., Banbury, Oxon, England. L. T. & H. T. Switchgear & Fusegear, Overhead Line Switchgear, etc. Agents: Greaves Cotton & Crompton Parkinson Private Ltd., 1, Forbes Street, Fort.

Thomas & Son (Worcester) Ltd., Worcester, England. "Climax" Piston pumps. Agents: Greaves Cotton & Crompton Parkinson Private Ltd., 1, Forbes Street, Fort.

Veritys Ltd., 66, Quay Street, Manchester 3, London, W.C.2, England. Maxiume Electrical Fittings. Agents: Greaves Cotton & Crompton Parkinson Private Ltd., 1, Forbes Street, Fort.

Walsall Conduits Ltd., West Bromwich, England. Conduit. Agents: Balmer Lawrie & Co. Ltd., 5, Graham Road, Ballard Estate, Bombay. Phone: 261494 (3 lines). Grams: "BALMER".

ELECTRICAL INSTRUMENTS AND APPLIANCES

ELLIOTT BROTHERS (LONDON) LTD., Century Works, Lewisham, London, S.E. 13. Electrical Measuring Instruments and Telegraph Apparatus. Sole Agents: Siemens Edison Swan Ltd., United Bank Building, Sir P.M. Road, P.O. Box No. 1062, Fort, Bombay.

ELECTRICAL MOTOR CONTROL GEAR

BROOKHIRST SWITCHGEAR LTD., Northgate Works, Chester, England. (Electric Motor Control Gear and Auxiliaries). Representatives: James Finlay & Co., Limited, P.O. Box No. 73, Bombay 1.

IGRANIC ELECTRIC CO., LTD., Export Department, Victoria Station House, Victoria Road, London, S.W. 1. (Electric Motor Control Gear and Auxiliaries). Representatives: James Finlay & Co., Limited, P.O. Box No. 73, Bombay 1.

ELECTRICAL PLANT

Asea, Vasteras, Sweden. Manufacturers of all types of electrical machinery and apparatus for power purposes. Representatives: Asea Electric India, Private Limited, Yaffi Building, Goa Street, Ballard Estate.

BROWN, BOVERI & CO., LTD., Baden, (Switzerland). Steam Turbine and Electrical Machinery Apparatus of every description. Sole Importers: Voltas Limited, Ballard Estate, Bombay 1.

Bruce Peebles & Co. Ltd., Edinburgh. Electrical Machinery, Transformers, etc. Agents: Guest, Keen, Williams, Ltd., Wakefield House, Sprott Road, Ballard Estate, Bombay 1.

ELECTRICAL & RADIO TEST INSTRUMENTS

Avo Ltd., London, S.W. 1. England Sales Distributors: Eastern Electric & Engineering Co. 127, Mahatma Gandhi Road, Bombay 1.

Bangamo Weston Ltd., Middlesex, England. Sales Distributors: Eastern Electric & Engineering Co., 127, Mahatma Gandhi Road, Bombay 1.

ELECTRICAL RESISTANCE ALLOYS, NICHROME, ETC.

British Driver-Harris Co. Ltd., Manchester 15, England. Sales Distributors: Eastern Electric & Engineering Co., 127, Mahatma Gandhi Road, Bombay 1.

Driver-Harris Company Harrison, New Jersey, U.S.A. Sales Distributors: Eastern Electric & Engineering Co., 127, Mahatma Gandhi Road, Bombay 1.

ELECTRICAL SWITCHES AND FUSES

Arrow Electric Switches Ltd., Hanger Lane, Ealing, England London, W 5. Sales Distributors: Eastern Electric & Engineering Co., 127, Mahatma Gandhi Road, Bombay 1.

ELECTRICAL SWITCHGEAR

British Klockner Switchgear Ltd. Air Break and Oil Immersed Electric Motor Starters, Contractors, Loom Switches, Remote control push button stations—Contact: Ratansi Morarji Private Limited, Post Box No. 1270, Bombay.

Contractor Switchgear Ltd., Wolverhampton, England. Sales Distributors: Eastern Electric & Engineering Co., 127, Mahatma Gandhi Road, Bombay 1.

Dorman & Smith Limited, Electric Switch-fuses, Rewirable & H.R.C. fuses, Miniature Circuit Breakers, Lighting Fittings, Plugs and Sockets—Contact: Ratansi Morarji Private Limited, Post Box No. 1270, Bombay.

Midland Electric Mfg. Co. Ltd., Birmingham, Distributors: Advani & Co., 7 Shahviri Bldg. 37, Picket Road, Bombay 2.

M. & C. Switchgear Ltd., Glasgow. Electrical Switchgear. Agents: Guest, Keen, Williams Ltd., Wakefield House, Sprott Road, Ballard Estate, Bombay 1.

Sprecher & Schuh Ltd., Aaran (Switzerland). Agents: Kaycee Industries Ltd., Kamani Chambers, Nicol Road, Bombay 1.

Stotz-Kontakt G.m.b.H. Heidelberg (Germany) Agents: Advani & Co., 7, Shahviri Bldg., 37, Picket Road, Bombay 2.

Yorkshire Switchgear & Engineering Co. Limited, Meanwood, Leeds 6, England. Manufacturers of Metalclad H. V. Switchgear. Representatives: Asea Electric India Private Limited, Yaffi Building, Goa Street, Ballard Estate.

ELECTRICAL WIRES & CABLES

Manufactures De Cables Electriques Eupen, Belgium. Sales Distributors: Eastern Electric & Engineering Co., 127, Mahatma Gandhi Road, Bombay 1.

ELECTRODES

Cooper & Turner Ltd., Vulcan Works, Vulcan Road, Sheffield, England. Sole Agents: Datson, Raviraj & Co., 43, Tamarind Lane, Fort, Bombay. Phone: 39333

Murex Welding Processes Ltd., Waltham Cross, Herts. Agents: Guest, Keen, Williams, Ltd., Wakefield House, Sprott Road, Ballard Estate, Bombay 1.

UNION CARBIDE & CARBON CORPORATION, New York 17, N.Y. (U.S.A.). Acheson Graphite and National Carbon Electrodes for Electrothermic & Electrolytic applications, Carbon Lining Blocks, Bricks, Paste, etc., Chemically inert "Karbate" (Impervious Carbon and Graphite) Products. Representatives in India: Voltas Limited, Ballard Estate, Bombay 1.

Welderaft Ltd., 26, Purley Way, Croydon, England. Manufacturers of "Bronzecraft" Low Temperature Welding Rods. Sole Agents: Datson Raviraj & Co., 43, Tamarind Lane, Fort.

Welding Supplies Ltd., England. Electrodes & Welding Plants, Magnetic Crack Detectors, and Gas Cutting Machines. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

ELECTRONIC AIDS FOR AVIATION

Maryland Electronic Mfg. Co., Maryland, U.S.A. Sales Distributors: Eastern Electric & Engineering Co., 127, Mahatma Gandhi Road, Bombay 1.

ELECTRONIC APPARATUS FOR RESEARCH & INDUSTRY

Allen B. Du Mont Laboratories, Inc. International Division, 515, Madison Avenue, New York, 22 N.Y., U.S.A. Sales Distributors: Eastern Electric & Engineering Co., 127, Mahatma Gandhi Road, Bombay 1.

Boonton Radio Corp., Boonton, New Jersey, U.S.A. Sales Distributors: Eastern Electric & Engineering Co., 127, Mahatma Gandhi Road, Bombay 1.

Southern Instruments Ltd., Surrey, England Sales Distributors: Eastern Electric & Engineering Co., 127, Mahatma Gandhi Road, Bombay 1.

Sperry Gyroscope Co. Ltd., Brentford, Middlesex, England. Sales Distributors: Eastern Electric & Engineering Co., 127, Mahatma Gandhi Road, Bombay 1.

Sperry Gyroscope Co., Great Neck, New York, U.S.A. Sales Distributors: Eastern Electric & Engineering Co., 127, Mahatma Gandhi Road, Bombay 1.

ELECTRONIC APPARATUS & RADIO BROADCASTING & COMMUNICATION EQUIPMENT

Westinghouse Trading Co. (Asia) Ltd., 40 Wall Street, New York, U.S.A. Sales Distributors: Eastern Electric & Engineering Co., 127, Mahatma Gandhi Road, Bombay 1.

ELECTRONIC EQUIPMENT AND INSTRUMENTS

Brush Instruments, Cleveland 14, Ohio, U.S.A. Sales Distributors: Eastern Electric & Engineering Co., 127, Mahatma Gandhi Road, Bombay 1.

Electronic Instruments Ltd., Surrey, England. Sales Distributors: Eastern Electric & Engineering Co., 127, Mahatma Gandhi Road, Bombay 1.

General Radio Company, Cambridge 39, Mass., U.S.A. Sales Distributors: Eastern Electric & Engineering Co., 127, Mahatma Gandhi Road, Bombay 1.

ELECTROPLATING & POLISHING EQUIPMENTS

I.C.I. LTD., General Chemicals Division England. (Cyanides) Agents: I.C.I. India Private Ltd., P.B. No. 310, Bombay 1.

MOND NICKEL CO. LTD. THE, England. (Nickel Sulphate, Chloride etc.). Agents: I.C.I. (India) Private Ltd., P.O. Box No. 310, Bombay 1.

R. Cruickshank Ltd., Camden St., Birmingham 1. Agents: Hardcastle, Waud & Co. Private Ltd., Alice Buildings, Dr. Dadabhoy Naoroji Road, Bombay 1.

W. Canning & Co., Ltd., Birmingham, England. Agents and Chief Distributors: S. Mitra & Co., 187, Dr. Dadabhoy Naoroji Road, Bombay 1. Grams: "Mludeshi."

ENGINEERING

Aerex Ltd., 46, Rutland Park, Sheffield. Mine Ventilating Fans. Agents: Balmer Lawrie & Co. Ltd., 5, Graham Road, Ballard Estate, Fort, Bombay. Phone: 261494 (3 lines). Grams: "BALMER".

Ashworth & Parker, Ltd., Bury, Lances. High Speed Steam Engines and Accessories. Sole Representatives: W. H. Brady & Co., Ltd., Veer Nariman Road, Fort, Bombay 1.

Beck & Co. (Meters) Ltd., etc. Agents: Hardcastle, Waud & Co. Private Ltd., Alice Buildings, Dr. Dadabhoy Naoroji Road, Fort.

British Pitometer Co., Ltd., London. Agents: Glenfield & Kennedy, Ltd., 198, Jamshedji Tata Road, Fort, Bombay 1.

Charles Thomas & Co., Ltd., Wainwright Street, Aston, Birmingham, 6, England. Agents: Soho House, Lohar Street, Bombay.

Christiani & Nielsen, Copenhagen, Denmark. Patented R.C.C. Arch Bridges with inclined hangers. Sole Agents in India: Gammon India Private Ltd., Hamilton House, Ballard Estate.

Craven Bros. Crane Division, Ltd., Loughborough. Breakdown and Railway Cranes. Sole Representatives: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

Glenfield & Kennedy, Ltd., Kilmarnock. Agents: Glenfield & Kennedy, Ltd., 198, Jamshedji Tata Road, Fort, Bombay 1.

Henricot Steel Foundry, 5, Lawrence Pountney Hill, Cannon Street, London, E. C. 4. Steel Castings. Agents: Hardcastle, Waud & Co. Private Ltd., Alice Buildings, Dr. Dadabhoy Naoroji Road, Fort.

Hick Hargreaves & Co., Ltd., Steam Engines and Turbo Generators. Representatives: W. H. Brady & Co., Ltd., Veer Nariman Road, Fort, Bombay 1.

Hoffman Sprinkler Co., Ltd., Manchester. Specialists. Sole Representatives: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

Hopkinson, Ltd., Huddersfield. Mountings and Fittings for all classes of Engines and Boilers, Steam, Air and Oil Valves, Oil Purifiers. Sole Representatives: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

Kent, George, Ltd., Biscot Road. Works Luton, Beds. Steam, Water, Air and Oil Meters and Recorders. Sole Representatives: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

Lister & Co. (R. A.), Dursley, Glos. Auto Trucks. Agents: Balmer Lawrie & Co., Ltd., 5, Graham Road, Ballard Estate, Bombay. Phone: 261494 (3 lines). Grams: "BALMER".

Morris (Herbert), Ltd., Loughborough. Hand & Electric Cranes, Pulley Blocks, Runaways, Stacking Machines, Lifts, Conveyors, Elevators, and all types of Mechanical Handling Equipments. Sole Representatives: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

Norris, Henty & Gardner, Ltd., High Speed Oil Engines. Sole Representatives: W. H. Brady & Co., Ltd., Veer Nariman Road, Fort, Bombay 1.

Renold Chain Ltd., Didsbury, Manchester. Chains, Chain Drives, etc. Sole Representatives for India: W. H. Brady & Co., Limited, 12/14, Veer Nariman Road, Fort, Bombay 1.

Richard Klinger Ltd., Klinger Engineering specialities. Agents: Hardcastle, Waud & Co., Private Ltd., Alice Buildings, Dr. Dadabhoy Naoroji Road, Fort.

Ultra Lens Company, The, London, E.C. 2. Agents: Hardcastle, Waud & Co., Private Ltd., Alice Buildings, Dr. Dadabhoy Naoroji Road, Fort.

Veeder-Root Ltd., Hartford, U.S.A. Counters. Sole Representatives: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

Weir, G. & J., Ltd., Glasgow. Pumps & Power Plant Auxiliaries, Refrigeration Plant. Sole Representatives: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

Wells, A. C., & Company Ltd., Manchester. Wells Oil Filters. Agents: Hardcastle, Waud & Co., Private Ltd., Alice Buildings, Dr. Dadabhoy Naoroji Road, Fort.

ENGINEERING STORES & HARDWARE

Dicks Asbestos and Insulating Co., Ltd., Asbestos Packings. Sole Representatives: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

Dixon (Joseph), Crucible Co., Graphite Specialities. Sole Representatives: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

Lushington Tool & Gauge Co., Ltd., England. Representatives: Behram & Co., 1 1 Lakshmi Bldg., Sir P. M. Road, Bombay 1.

Nicholson File Co., Providence, U.S.A. Files and Rasps. Wholesale Representatives in Bombay State: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

Signode Steel Strapping Co., Chicago. "Signode System" of Strapping and Seals. Sole Representatives: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

ENGRAVING MACHINES

Taylor, Taylor & Hobson Ltd., England. Engraving Machines, Pantograph Milling & Diesinking Machines, Electric Etching Equipment, Toolmakers' Microscopes, Talysurf Instrument, Talyround Roundness Measuring Instrument, Auto-Collimator, etc. Sole Distributors: William Jacks & Co. Ltd., Bharat House, Apollo Street, Fort, Bombay.

ESSENTIAL OILS

Antoine Chiris, S. A. Grasse, France. Sole Agents: Anil Trading Co. 32, Princess Street, Bombay 2.

Destilaciones Bordas Chinchurets, S.A., Seville, Spain. Essential Oils. Distributors: F. Bock & Co., Shale Building, Bank Street, Fort.

Destilaciones Garcia De la Fuente S.A., Granada (Spain). Sole Agents: Aromatic Products & Chemicals Private Ltd., 42, Prospect Chambers Annexe, Dr. Dadabhoy Naoroji Road, Fort, Bombay 1. Grams: "DISCOVERY."

Dragoco-Holzminden, W. Germany. Agents: B. C. Patel & Co., 79, Princess Street, Bombay 2.

ESROLKO LTD. (formerly FLORA), Switzerland. Mfrs. of Synthetic Essential Oils & Aromatic Chemicals. Agents: M. C. Davar & Co., 143, Princess Street, Bombay 2.

H. Raab & Co., Amsterdam, Holland. Agents: B. C. Patel & Co., 79, Princess Street, Bombay 2.

Jean A. du Crocq Jr. N. V., Huizen N. H., Holland. Agents for Bombay State: R. K. Shapurji & Co., Prospect Chambers, 319, Dr. Dadabhoy Naoroji Road, P.B. No. 1065, Bombay 1.

L. Russo & Figlio, Messina (Italy). Sole Agents: Aromatic Products & Chemicals Private Ltd., 42, Prospect Chambers Annexe, Dr. Dadabhoy Naoroji Road, Fort, Bombay 1. Grams: "DISCOVERY."

M. M. Hatherbacha & Co., Penang, Malaya. Agents: M. C. Davar & Co., 143, Princess Street, Bombay 2.

N. V. Chemische Fabrick "FLEBO" Hoosezand (Holland). Sole Agents: Aromatic Products & Chemicals Private Ltd., 42, Prospect Chambers Annexe, Dr. Dadabhoy Naoroji Road, Fort, Bombay 1. Grams: "DISCOVERY".

P. Robertet & Cie, Grasse, France. Agents: B. C. Patel & Co., 79, Princess Street, Bombay 2.

S. A. Jean Roure, Pierre Ziller, Bruno Court, Grasse (France). Sole Agents: Aromatic Products & Chemicals Private Ltd., 42, Prospect Chambers Annexe, Dr. Dadabhoy Naoroji Road, Fort, Bombay 1. Grams: "DISCOVERY".

Takasago Perfumery Co. Ltd., Tokyo, Japan. Sole Agents: Aromatic Products & Chemicals Private Ltd., 42, Prospect Chambers Annexe, Dr. Dadabhoy Naoroji Road, Fort, Bombay 1. Grams: "DISCOVERY".

EXCAVATING MACHINERY MANUFACTURERS

Austin Western Co., Construction Equipment Division, Aurora, Illinois, U.S.A. Power Graders, Hydraulic Cranes, Motor Sweepers, etc. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

Blaw Knox Ltd., London. Excavators. Sole Agents: Marshall, Sons & Co. (India) Ltd., Marshall's Building, Ballard Road, Bombay 1.

Harnischfeger International Corporation, Milwaukee, Wisconsin, U.S.A. Power Shovels, Draglines, Cranes, Clamshells and Soil Stabilizers. Sole Importers: Voltas Ltd., Chinchpokli Road, Bombay 12.

Marion Power Shovel Co., Ohio, U.S.A. Agents: Blackwood Hodge (India) Private Ltd., Lotus House, Marine Lines, Bombay 1.

Newton Chambers & Co. Ltd., Hornclife, Sheffield. Excavators, Earthmoving Plant. Agents: Balmer Lawrie & Co. Ltd., 5, Graham Road, Ballard Estate, Bombay. Phone: 261494 (3 lines). Grams: "BALMER".

Ruston-Bucyrus, Ltd., Lincoln, England and Bucyrus-Erie Company, South Milwaukee, Wisconsin, U.S.A. Excavating Machinery, Well and Blast Hole Drills, Hydro Cranes. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort.

Thomas Smith & Sons (Rodley) Ltd., Rodley. Excavators. Sole Agents: Marshall, Sons & Co. (India) Ltd., Marshall's Building, Ballard Road, Bombay 1.

EXPLOSIVES

I.C.I. LTD. Nobel Division, Glasgow, Scotland. Commercial Explosives & Accessories for Blasting also Sporting Gunpowder. Selling Agents: I.C.I. (India) Private Ltd., P.B. No. 310, Bombay 1.

FACTORY AND CALENDAR CLOCKS

Solari Remici O. & C. (Italy). Agents: for India: Essential Engineering Co., Botawalla Building, Horniman Circle, Fort, Bombay.

FANS

Blackman Export Co., Ltd., London. Industrial Fans and Blowers. Sole Agents: Marshall Sons & Co. (India) Ltd., Marshall's Building, Ballard Road, Bombay 1.

FILTERS

Vokes Ltd., Guilford, England. Agents: John Fowler India Private Ltd., Marshall's Bldg., Ballard Road, Bombay 1.

FIRE ENGINES AND APPLIANCES MANUFACTURERS

Coventry Climax Engines, Ltd., Widdrington Road Works, Coventry (ENGLAND). Sole Agents: Kooverji Devshi & Co., Private Ltd., 164, Lohar Street, Bombay 2.

Dennis Bros. Ltd., Guildford, Surrey, England. Dennis' Motor, Fire Engines and Trailer Pumps. Agents: Roberts, McLean & Co., Ltd., Ilaco House, Sir Phirozshah Mehta Road.

Merryweather & Sons, Ltd., Greenwich, London. Fire Engines & Appliances. Agents: Balmer Lawrie & Co., Ltd., 5, Graham Road, Ballard Estate, Bombay. Phone: 261494 (3 lines). Grams: "BALMER."

Read & Compbell Ltd., 75, Victoria Street, Westminster, London S.W. 1 (ENGLAND). Sole Agents: Kooverji Devshi & Co., Private Ltd., 164, Lohar Street, Bombay 2.

Walter Kidde Co., England. Fire Extinguishers and built-up systems. Agents: Roberts McLean & Co., Ltd., Ilaco House, Sir Phirozshah Mehta Road, Fort.

FIRE FIGHTING APPLIANCES

Albion Motor Co., Sweden. Sole Agents: National Fire Equipment Co., 11 Bank Street, Bombay 1.

Firewater Company, 1, First Street, Los Altos, California (U.S.A.). Sole Agents: Kooverji Devshi & Co., Private Ltd., 164, Lohar Street, Bombay 2.

James Hendry Ltd., 252 Main Street, Bridgeton, Glasgow, S.E. (ENGLAND). Sole Agents: Kooverji Devshi & Co., Private Ltd., 164, Lohar Street, Bombay 2.

Koehler Mfg. Co., Marlboro, Massachusetts (U.S.A.). Sole Agents: Kooverji Devshi & Co., Private Ltd., 164, Lohar Street, Bombay 2.

Mandals Reberbane C. H. Co., Oslo, Norway. Sole Agents: National Fire Equipment Co., 11, Bank Street, Fort, Bombay 1.

Pyrene Company Ltd. Fire fighting Appliances. Sole Distributors: William Jacks & Co., Ltd., Hamilton House, Graham Road, Ballard Estate.

FIRE WORK MFRS.

ALBRIGHT & WILSON LTD., England. (Strontium Nitrate). Selling Agents: I.C.I. (India) Private Ltd., Post Box No. 310, Bombay 1.

ENGLISH METAL POWDER CO., LTD., England. Aluminium Powder Pyrotechnic. Selling Agents: I. C. I. (India) Private Ltd., Post Box No. 310, Bombay 1.

I.C.I. LTD., Nobel Division, England. (Barium Nitrate). Selling Agents: I.C.I. (India) Private Ltd., Post Box No. 310, Bombay 1.

FISH (PRESERVED)

Seafood Products Ltd., Vancouver. Frozen Fish. Sole Distributors: Spencer & Co., Ltd., Spencer's Building, Forjett Street, Bombay 26.

Stavanger Preserving Co., A.S. Canned Fish. Sole Agents: J. L. Morison, Son & Jones (India) Private Ltd., Contractor Building, Nicol Road, Ballard Estate, Bombay 1.

FLAME GUNS & BURNERS

Hauck Manufacturing Co., U.S.A. Agents: Guest, Keen, Williams, Ltd., Wakefield House, Sprott Road, Ballard Estate, Bombay 1.

FLAVOURING & PERFUMERY RAW MATERIALS

Jean A. du Crocq Jr. N. V., Huizen N. H. Holland. Sole Agents for Bombay State: R. K. Shapurji & Co., Prospect Chambers, 319, Dr. Dadabhai Naoroji Road, P.B. No. 1065, Bombay 1.

R. Lienau & Cie., 22(a) Uerdingen A. RH., Germany-West. Sole Agents: R. K. Shapurjee & Co., Prospect Chambers, 319, Dr. Dadabhai Naoroji Road, P.B. No. 1065, Bombay 1.

FLOOR HARDENING COMPOUND

Ironite Co., Ltd., 4, Holbeine Place, Sloane Square, London, S.W. 4. Sole Agents: Heatly & Grenham, Ltd., 9, Forbes Street, Fort.

FOOD PREPARATION MACHINERY

Allied Ironfounders Ltd., England. Heavy duty Hotel & Canteen Cooking and Food Preparation Machinery. Sole Distributors: William Jacks & Co. Ltd., Hamilton House, Graham Road, Ballard Estate.

FORGINGS AND STAMPINGS FOR RAILWAYS

COMPTOIR DES FERRURES, CHARLEVILLE (ARDENNES), France. Manufacturers of Component Parts of Machinery, Rolling Stock, etc. Agents: Gaytee & Company, Janmabhoomi Chambers, Fort Street, Bombay. Phone: 263449. Grams: "IMPENG."

USINES ET ACIERIES DE SAMBRE ET MEUSE, Paris, France. Steel Castings, Carbon Steel and Alloy Steel. Railroad Parts, Armament Products, Aircraft Bombs, Machinery, etc. Agents: Gaytee & Company, Janmabhoomi Chambers, Fort Street, Bombay. Phone: 263449. Grams: "IMPENG."

FORK LIFT TRUCKS

Coventry Climax Engines Ltd., Widdrington Road Works, Coventry. Fork Lift Trucks, etc. Sole Distributors: William Jacks & Co. Ltd., Hamilton House, Graham Road, Ballard Estate.

Ransomes, Sims & Jefferies Ltd., Fork Lift Trucks, Electric Fork Lift & Works Trucks. Sole Distributors: William Jacks & Co. Ltd., Hamilton House, Graham Road, Ballard Estate.

FOUNDRY MATERIAL & EQUIPMENT

FEDERAL FOUNDRY SUPPLY CO., U.S.A. Manufacturers of "SANBLO" Core Blowers. Sole Agents: Pioneer Equipment Co., Private Ltd., 139, Medows Street, P.O. Box 1909, Bombay 1 (Phone: 251882). Also at 1, Mangoe Lane, Calcutta 1 (Phone: 231611) and 193, Mount Road, Madras 2. Grams: "PIOMETAL."

Foundry Services Ltd., Long Acre, Nechelles Birmingham. Foundry Fluxes, for use in the founding of light alloys, non-ferrous & ferrous metals. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort.

GRAU-WULFEL, G.M.b.h., Germany, manufacturers of Sand Conditioning & Foundry Mechanisation Plants. Sole Agents: Pioneer Equipment Co. Private Ltd., 139, Medows Street, P.O. Box 1909 Bombay 1 (Phone: 251882). Also at 1, Mangoe Lane, Calcutta 1 (Phone: 231611) and 193, Mount Road, Madras 2. Grams: "PIOMETAL."

GUSTAVE ZIMMERMAN MASCHINENFABRIK, G. M. b. H., W. Germany. Manufacturers of famous Zimmerman Moulding Machines. Sole Agents: Pioneer Equipment Co., Private Ltd., 139, Medows Street, P.O. Box 1909, Bombay 1 (Phone: 251882). Also at 1, Mangoe Lane, Calcutta 1 (Phone: 231611) and 193, Mount Road, Madras 2. Grams: "PIOMETAL."

Hauck Manufacturing Co., U.S.A. Agents Guest, Keen, Williams, Ltd., Wakefield House, Sprott Road, Ballard Estate Bombay 1.

HESON WERKE, Germany, Manufacturers of Moulding Boxes etc. Sole Agents: Pioneer Equipment Co Private Ltd. 139, Medows Street P.O. Box 1909, Bombay 1 (Phone: 251882). Also at 1, Mangoe Lane Calcutta 1 (Phone: 231611) and 193 Mount Road, Madras 2. Grams "PIOMETAL."

Houghton, E. F., & Co., Philadelphia. Agents: Hardcastle, Waud & Co., Private Ltd., Alice Buildings, Dr. Dadabhoy Naoroji Road, Fort.

Morgan Crucible Co. Ltd., The, Battersea Church Road, London, S.W. 11. Morgan's tilting and Lift-out Furnaces—Coke and Oil-fired, Crucibles and Accessories, Plumbago and Patching Materials, Refractoryware and other allied articles. Sole Concessionaires: Greaves Cotton & Co. Ltd., 1, Forbes Street, Fort.

Newton Chambers & Co., Ltd., Thorncliffe. Agents: Killick, Nixon & Co., Private Ltd., Killick House, Home Street, Fort.

Robinson Major & Co., Manchester. Manufacturers of "SCOLS" Iron Cement, Pipe Joint Compound, Tube and Bar Bending Machines. Sole Agents: J. D. Jones & Co. (Bombay), Private Ltd., Rustom Building, Vir Nariman Street, Fort.

SISSON LEHMANN, France, Manufacturers of Shot Blasting machines. Sole Agents: Pioneer Equipment Co., Private Ltd., 139, Medows Street, P.O. Box 1909, Bombay 1 (Phone: 251882). Also at 1, Mangoe Lane, Calcutta 1 (Phone: 231611) and 193, Mount Road, Madras 2. Grams: "PIOMETAL."

FOUNTAIN PEN

Montblanc Simplo GmbH.—Germany. Manufacturers of Quality Writing Instruments, Pens, Pencils, Desk-sets & Ink. Sole Agents in India:—Jhaveri Bros. & Co., Private Ltd. (Eastablished 1914), 345, Abdul Rehman Street, Opp. Crawford Market, Bombay 3. Grams: "MONTBLANC"

FRUIT JUICES AND EXTRACTS

H. P. Davies & Co., Ltd., 98/100 Bishopsgate, London E.C. 2. Sole Distributors: Spencer & Co. Ltd., Spencer's Building, Forjett Street, Bombay 26.

F. J. Michel & Co., Ltd., 415, Oxford Street, London W.I. Sole Distributors: Spencer & Co., Ltd., Spencer's Building, Forjett Street, Bombay 26.

FUEL INJECTION SERVICING EQUIPMENT

Leslie Hartridge, England. Fuel Injection Servicing Equipment. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

FUEL LINE PIPES

TECHNO-CHEMIE KESSLER & CO., West Germany. Mfrs. of Fuel line pipes. Sole Agents: B. Chowdhury, Messrs. Indian Globe Chambers (7th Floor), Fort Street, Fort, Bombay 1. Phone: 26-3479. Grams: "BISUKEL."

FURNACES

Furnace Construction Co., Birmingham, England. All kinds of Furnaces. Sole Concessionaires: Greaves Cotton & Co. Ltd., 1, Forbes Street, Fort, Bombay.

G. W. B. Furnaces Ltd., England. (Manufacturers of large Electric Furnaces). Sole Agents: Indian Wild-Barfield Co., Private Ltd., Lotus Cinema Buildings, Hornby Vellard, Bombay 8.

I. C. I. LTD., General Chemicals Division, England ("CASSEL" Heat Treatment Furnaces). Selling Agents: I. C. I. (India) Private Ltd., Post Box No. 310, Bombay 1.

Morgan Crucible Co. Ltd., The, Battersea Church Road, London, S.W. 11. Morgan's tilting and Lift-out Furnaces, Oil and Coke-fired. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort.

OTTO-JUNKER, G. M. b. h., Germany. Electric Steel smelting and heat treatment Furnaces. Agents: Pioneer Equipment Co. Private Ltd., 139, Medows Street, P.O. Box No. 1909, Bombay 1 (Phone: 251882). Also at 1, Mangoe Lane, Calcutta 1 (Phone: 231611) and 193, Mount Road, Madras 2. Grams: "PIOMETAL."

SKLENAR FURNACES LTD., Cardiff, U.K. Melting Furnaces, Reverberatory—Capacity 25 lb. to 5 tons—oil, coke and gas fired. Also Holding Furnaces. Sole Agents: Pioneer Equipment Co. Private Ltd., 139, Medows Street, P.O. Box 1909, Bombay 1 (Phone: 251882). Also at 1, Mangoe Lane, Calcutta 1 (Phone: 231611) and 193, Mount Road, Madras 2. Grams: "PIOMETAL".

Stein & Atkinson Ltd., Parnell House, 25, Wilton Road, London, S. W. 1. Sole Agents: Heatly & Gresham Ltd., 9, Forbes Street, Fort.

Thermic Equipment and Engineering Co. Ltd., England. Sole Agents in India: Indian Wild-Barfield Co., Private Ltd., Lotus Cinema Buildings, Hornby Vellard, Bombay 8.

Wild-Barfield Electric Furnaces Ltd., England. Associated Company in India: Indian Wild-Barfield Co., Private Ltd., Lotus Cinema Buildings, Hornby Vellard, Bombay 8.

GARAGE EQUIPMENT

A.B Carl Larssons—Mek-Verksaland, Gothenburg Sweden. Agents: Chandulal Mehta & Co., (Private) Ltd., 15, New Queen's Road, Bombay 4.

B. O. Morris Ltd., England. "Morrisflex" Flexible Shaft Equipment for Motor Garages, Workshops and for Boiler Descaling Agents: Armstrong Smith Private Ltd., Sir P. M. Road, Bombay 1.

Barrett Equipment Co., U.S.A. Brake Drum Lathes, Brake Relining Machines, Hydraulic Brake Bleeder & Filler Tanks. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Bear Manufacturing Co., U.S.A. Wheel Alignment and other Automotive Testing Equipment. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Black & Decker Ltd., England. "UTILITY" Portable Electric Tools, Valve Refacers, Vibrocentric Kits, Bench & Portable Grinders, etc. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

British Tool & Engineering Co., Ltd., England. Sole Agents: Elliott Waud & Hill Private Ltd., 1-2, Lakshmi Bldg., Sir P. M. Road, Bombay 1.

C. & E. Fein, Germany. Heavy Duty Portable Electric Drills with Universal Motors 440 volts AC. Drills, Slow Speed Drills, Multispeed Drills, Right Angle Drills and Attachments, Screw Drivers, Impact Wrenches, Valve Grinders, Tappers, Tool Post & Precision Lathe Grinders, Brake Drum & Journal Grinders, Shears, Nibblers, Pipe Cutting Saws, Stone (Rock) Drilling Machines, Hammers, etc. Agents: Armstrong Smith Private Ltd., 1, Sir Sir P. M. Road, Bombay 1.

Churchill, V. L., & Co., 27/34, Walnut Tree Walk, Kennington, London, S.E. 11. Agents: Heatly & Gresham, Ltd., 9, Forbes Street, Fort.

Clayton Manufacturing Co., U.S.A. CLAYTON Engine and Chassis Dynamo meters. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

De Vilbiss Company, Ohio, U.S.A. Air Compressing & Spray Painting Outfits, Hose, etc. Agents: John Fleming & Co., Private Ltd., Bastion Road, Fort, Bombay 1. Phone: 261153.

E. Asbeck-Genelsberg, Germany. Agents: Chandulal Mehta & Co., (Private) Ltd., 15, New Queen's Road, Bombay 4.

Hall-Toledo (Division of Baker Bros. Inc.), U.S.A. Production Valve Seat Grinders, Eccentric Grinders. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Harvey Frost & Co. Ltd., England. Garage Tools, Jacks, Tyre Changers, Vulcanising Equipment. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Homestead Valve Mfg. Co. Ltd., U.S.A. Hypressure Steam Jennys & Compounds. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Joseph Bradbury & Sons Ltd., England. Garage Equipment, Jacks, etc. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

King Electric Equipment Co. Inc. Cleveland, Ohio, U.S.A., Agents: Chandulal Mehta & Co., (Private) Ltd., 15, New Queen's Road, Bombay 4.

Lisle Corporation, U.S.A. Cylinder Honing Machines, Wet Honing Machines, Ridge Reamers, Rod Aligners, Glaze Brakers, Garage Tools. Also "Lisle" MAGNETIC PLUGS. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Newton Bros. (Cudworth) Ltd., England. Hand or Power Operated Main Wire Bearing Boring Machines, Conrod Aligring & Boring Machines and other Engine Reconditioning Equipment. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Origo — Verken: Halmstad — Sweden. Agents: Chandulal Mehta & Co., (Private) Ltd., 15, New Queen's Road, Bombay 4.

Otto—Boge, Belfield, Germany. Agents: Chandulal Mehta & Co., (Private) Ltd., 15, New Queen's Road, Bombay 4.

Rogers Wilson & Co. Ltd., England. Tyre Retreading Plants and Accessories. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Taylor & Jones Ltd., England. "T & J" Expanding Reamers and Tool Holders. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Tecalemit Ltd., Brentford, U.K. Agents: Tecalemit (India) Ltd., 9, Forbes Street, Fort, Bombay.

Van Norman Co., U.S.A. Cylinder Boring Bars, Crankshaft Regrinders, Horizontal Surface Grinders, Automatic Wet Honer, Super Rotary Surface Grinder, Con-Rod Boring Machine, Piston Turning & Grinding Machines, Race-way Grinding Machines, Special purpose Milling Machines. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

GAS CUTTING MACHINERY

Welding Supplies Ltd., England. Electrodes & Welding Plants, Magnetic Crack Detectors, and Gas Cutting Machines. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

GAS GENERATORS

Bottagas Ltd., 6, London Street, Paddington W.2. Agents: Heatly & Gresham Ltd., 9, Forbes Street, Fort.

GAS MAKING PLANT, ETC.

Humphreys & Glasgow Ltd., London. Agents: Killick Nixon & Co., Private Ltd., Killick House, Home Street, Fort.

GAS TURBINES

Blackburn & General Aircraft Ltd., Brough, East Yorks, England. Gas Turbine driven Compressors, Generators and Pumping Equipment. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort.

Bristol Aero-Engines Ltd., Filton House, Bristol, England. Gas Turbine Marine Engines. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort.

Ruston & Hornsby Ltd., Lincoln, England. Gas Turbines. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort.

GAUGES & INSTRUMENTS

Bailey & Mackey Ltd., Birmingham, England. Agents: Keshavlal Narsidas Jaliwala, 157, Abdul Rehman Street, Bombay 3.

BRITISH STEAM SPECIALITIES LTD., Leicester, England. Manufacturers of Pressure Vacuum and Hydraulic Gauges. Agents: Gaytee & Company, Janmabhoomi Chambers, Fort Street, Fort. Phone: 263449. Grams: "IMPENG."

Coley Thermometers Ltd., Brentford, Middlesex. Thermometers & Pressure Gauges. Sole Concessionaires: Greaves Cotton & Co., Ltd., Forbes Street, Fort.

Dobbie McInnes Ltd., Glasgow. Engine Indicators & Accessories. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort.

Heath & Co., London. Mercury and Fluid-in-Glass Thermometers. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort.

Joseph Tormey & Sons Ltd., England. Gauge glasses, Pressure-Vacuum & Temperature Gauges. Agents: John Fleming & Co. Private Ltd., Bastion Road, Fort, Bombay 1. Phone: 261153.

GEARS

David Brown Corporation (Sales) Ltd., Huddersfield, England. All types of open Gearing, Totally enclosed Gear units, Automobile Gears, Gearded Motors. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort.

GENERATING SETS

Hampson Industries Ltd., West Bromwich. Generating Sets. Sole Agents: Marshall, Sons & Co. (India) Ltd., Marshall's Building, Ballard Road, Bombay 1.

GLASS-CRETE BLOCKS

King, J. A., & Co., Ltd., Bridge House, 181, Queen Victoria Street, London, E.C. 4. Agents: Heatly & Gresham Ltd., 9, Forbes Street, Fort.

GLASSWARE

PARKINSON AND SPENCER LTD., England. (Refractory materials). Agents: I.C.I. (India) Private Ltd., P.O. Box No. 310, Bombay 1.

UNITED GLASS BOTTLE MANUFACTURERS LTD., England. ("SHERDLEY" brand Glassware). Selling Agents: I. C. I (India) Private Ltd., Post Box No. 310, Bombay 1.

GLUCOSE AND STARCH MANUFACTURERS

Irving R. Boody & Co., Inc., New York. Liquid Glucose 45° Baume. Distributors: F. Bock & Co., Shale Building, Bank Street, Fort.

GLUES, 'CHURN' MINERAL SUPPLEMENT

BHOPAL GLUES & CHEMICALS, Bhopal. Selling Agents: I.C.I. (India) Private Ltd., P.B. 310, Bombay 1.

BRITISH GLUES & CHEMICALS LTD., England. Selling Agents: I. C. I. (India) Private Ltd., Post Box No. 310, Bombay 1.

GRINDING MILLS

Fryma Maschinenbau G.m.b.H., Germany. "Fryma" Drug Mills, High Speed Mills for Grinding, Mixing, Emulsifying, etc. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

GUMS

H. IMAMI & SONS, Teheran (Gum Tragacanth). Selling Agents in India: I. C. I. (India) Private Ltd., Post Box No. 310, Bombay 1.

HEAT TREATMENT & METAL PROCESSING PRODUCTS

Houghton, E. F., & Co., Philadelphia. Agents: Hardcastle, Waud & Co. Private Ltd., Alice Buildings, Dr. Dadabhoy Naoroji Road, Fort.

HIGH SPEED, ALLOY AND HIGH CARBON STEELS

Firth's "Speedicut" High Speed Steel. Sole Distributors: William Jacks and Co., Ltd., Hamilton House, Graham Road, Ballard Estate.

HOISTING MACHINERY

Fellows Bros. Ltd., Cralley Heath, England. Agents: Keshavlal Narsidas Jaliwala, 157, Abdul Rehman Street, Bombay 3.

Geo. W., King, Ltd., London. Conveyors and Electric Hoists. Agents: Richardson and Cruddas, Ltd., Byculla, Bombay 8.

Hvilans mekaniska Verkstads ab Kristianstad, Sweden. Sales Distributors: Eastern Electric & Engineering Co., 127, Mahatma Gandhi Road, Bombay 1.

Rowland Prists & Co. Ltd., England Pulley, Blocks, Mechanical & Hydraulic Lifting & Traversing Jacks & Other Equipment. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Stroj Export, Praha, Czechoslavakia. Agents for Western & Cental India: India Metal Agencies, Post Box No. 1966, Bombay 1.

Yale & Towne Mfg. Co., Ltd., England. For Chain Pulley Blocks, Material Handling Equipment. Agents: John Fleming & Co. Private Ltd., Bastion Road, Fort, Bombay 1. Phone: 261153.

Yale & Towne Mfg. Co., Philadelphia, U.S.A. Pulley Blocks, Hoists, Cranes, Hand & Electric Lift Trucks. Agents: John Fleming & Co. Private Ltd., Bastion Road, Fort, Bombay 1. Phone: 261153.

HOISTS & ROPEWAYS

Theodore Bell & Co. Ltd. Kriens-Lucerne, Switzerland. Sales Distributors: Eastern Electric & Engineering Co., 127, Mahatma Gandhi Road, Bombay 1.

HOSE

De Vilbiss Company, Ohio, U.S.A. Air Compressing, Spray Painting outfits and Hose, etc. Agents: John Fleming & Co., Private Ltd., Bastion Road, Fort, Bombay 1. Phone: 261153.

Lewis & Tylor, Ltd., Cardiff, Gripoly Belting and Hose. Agents: Richardson & Cruddas Ltd. Byculla, Bombay 8.

HOSPITAL EQUIPMENT (MFRS.)

I.C.I. LTD., Pharmaceuticals Division, England. ("Avlon" brand pharmaceuticals.) Selling Agents: I. C. I. (India) Private Ltd., Post Box No. 310, Bombay 1.

Manlove Alliott & Co., Ltd., Nottingham. Manufacturers of Sterilizers, Disinfectors, Laundry Equipment, Oil Mill Machinery, etc. Sole Distributors: William Jacks & Co., Ltd., Hamilton House, Graham Road, Ballard Estate.

HYDRAULIC ENGINEERS

Glenfield & Kennedy, Ltd., Kilmarnock. Agents: Glenfield and Kennedy, Ltd., 198, Jamshedji Tata Road, Fort, Bombay 1.

HYDRAULIC JACKS

Epco Ltd., Leeds 7, England. Sole Agents: Heatly & Gresham Ltd., 9, Forbes Street, Bombay.

HYDRAULIC MACHINERY

Glenfield & Kennedy, Ltd., Kilmarnock. Hydraulic Accumulators, Rams and Pumps. Agents: Glenfield & Kennedy, Ltd., 198, Jamshedji Tata Road, Fort, Bombay 1.

J. Blakeborough & Sons Ltd., London & Brighouse, England. Hydraulic Valves, Screening Plant, etc. Sole Distributors: William Jacks & Co. Ltd, Bharat House, Apollo Street, Fort, Bombay.

John Blake Ltd., Accrington, Hydram Water Raisers. Agents: Richardson & Cruddas Ltd, Byculla, Bombay 8.

Leeds Engineering & Hydraulic Co., Ltd., Leeds. Makers of Hydraulic Machinery. Agents: Richardson & Cruddas, Ltd., Byculla, Bombay 8.

Theodore Bell & Co. Ltd. Kriens-Lucerne, Switzerland. Sales Distributors: Eastern Electric & Engineering Co, 127, Mahatma Gandhi Road, Bombay 1.

INDUSTRIAL ADHESIVES

B. B. Chemical Company Ltd., Industrial Adhesives. "Bostik." Sole Distributors: William Jacks & Co., Ltd., Hamilton House, Graham Road, Ballard Estate.

INDUSTRIAL EQUIPMENT (MANUFACTURERS)

TEDDINGTON INDUSTRIAL EQUIPMENT LTD., Windmill Road, Sunbury-on-Thames, Middlesex. Manufacturers of Industrial Control Equipment. Representatives: James Finlay & Co., Ltd., P.O. Box No. 73, Bombay 1.

INDUSTRIAL INSTRUMENTS

G. Lufft Metallbarometer Fabrik. G m b H Germany. Representatives: Behram & Co., 1/1, Lakshmi Bldg., 22, Sir P. M Road, Bombay 1.

HARRY W. DIETERT, INC., Detroit, U.S.A. Manufacturers of Sand Testing Equipment. Agents: Pioneer Equipment Co., Private Ltd., 139, Medows Street, P. O. Box 1909, Bombay 1 (Phone: 251882). Also at 1, Mangoe Lane, Calcutta-1 (Phone: 231611) and 193, Mount Road, Madras 2. Grams: "FIOMETAL."

STROHLEIN & CO., Dusseldorf, Germany, for Analytical Instruments for Iron and Steel and other metallurgical industries. Sole Agents: Pioneer Equipment Co., Private Ltd., 139, Medows Street, P. O. Box 1909, Bombay 1 (Phone: 251882). Also at 1, Mangoe Lane, Calcutta-1 (Phone 231611) and 193, Mount Road, Madras-2. Grams: "FIOMETAL."

W. & L. E. Gurley Troy, New York, U.S.A. Sales Distributors: Eastern Electric & Engineering Co., 127, Mahatma Gandhi Road, Bombay 1.

INDUSTRIAL INSTRUMENTS AND STEAM LINE ACCESSORIES

Drayton Regulator & Instrument Co. Ltd., West Drayton (Middlesex, England). Steam Traps & Steam Line Accessories, Instruments for Measuring, Regulating or Controlling Temperature, Pressure and Draught. Electrically and hydraulically operated valves, metal bellows. Sole Concessionaires: Greaves Cotton & Co. Ltd., 1, Forbes Street, Fort, Bombay.

INDUSTRIAL PLANTS

Polysius G.m.b.H. Neubeckum, W. Germany. Sales Distributors: Eastern Electric & Engineering Co., 127, Mahatma Gandhi Road, Bombay 1.

Polysius Limited, The Brackens, Ascot, Berks, England. Sales Distributors: Eastern Electric & Engineering Co., 127, Mahatma Gandhi Road, Bombay 1.

Theodore Bell & Co. Ltd., Kriens-Lucerne, Switzerland. Sales Distributors: Eastern Electric & Engineering Co., 127, Mahatma Gandhi Road, Bombay 1.

Werkspoor N. V., Amsterdam, Holland. Sales Distributors: Eastern Electric & Engineering Co. 127, Mahatma Gandhi Road, Bombay 1.

INDUSTRIAL TRUCKS

Douglas (Kingswood) Ltd., 50, Pall Mall, London. Sole Agents: Heatly & Gresham Ltd., 9, Forbes Street, Fort.

INSULATING BOARD & MATERIAL

Continental Diamond Fibre Company, Bridgeport, Pa., U.S.A. Agents: Hardcastle, Waud & Co. Private Ltd., Alice Buildings, Dr. Dadabhoy Naoroji Road, Fort.

Diamond Fibre Co., Ltd., 59, Southward Street, London. Agents: Hardcastle, Waud & Co. Private Ltd., Alice Buildings, Dr. Dadabhoy Naoroji Road, Fort.

Ioco Ltd., Anniesland, Glasgow. Agents: Balmer Lawrie & Co., Ltd., 5, Graham Road, Ballard Estate, Bombay. Phone: 261494 (3 lines). Grams: "BALMER."

Mo. & Domsjo Trading Co., Ltd., 47, Piccadilly, London, W. 1. Sole Agents: Heatly & Gresham Ltd., 9, Forbes Street, Fort.

INHALER & ACCESSORIES

CYPRANE LTD., England Selling Agents: I.C.I. (India) Private Ltd., P.B. No. 310, Bombay 1.

INSULATORS (HIGH TENSION)

Ifoverken, Bromolla, Sweden. Manufacturers of Porcelain Insulators. Representatives: Asea Electric India Private Limited, Yafi Building, Goa Street, Ballard Estate.

INSURANCE COMPANIES

Alliance Assurance Co., Ltd., London. (Settlement of Marine Claims). Agents: The Anglo-Thai Corporation Ltd., Ewart House, Bruce Street.

Baloise Fire Insurance Co., Ltd., Basle (Inc. in Switzerland). Principal Agents: Volkart Bros., Ballard Estate, Bombay.

British Law Insurance Co., Ltd., London (Settlement of Marine Claims). Agents: The Anglo-Thai Corporation Ltd., Ewart House, Bruce Street.

Helvetia Swiss Fire Insurance Co., Ltd., St. Gall (Inc. in Switzerland). Agents: Volkart Bros., Ballard Estate, Bombay.

Insurance Company of North America (Inc. in Pennsylvania, U.S.A.). Agents: Volkart Bros., Ballard Estate, Bombay.

London Assurance, London (Fire & Marine). Agents: The Anglo-Thai Corporation Ltd., Ewart House, Bruce Street.

Northern Assurance Co., Ltd., London & Aberdeen (Inc. in Great Britain). Agents: Volkart Bros., Ballard Estate, Bombay.

Prudential Assurance Co., Ltd., Holborn Bars, London, E.C. 1. All classes of Insurance. Agents: Gillanders Arbuthnot & Co., Ltd., 16, Queen's Road Estate, Bombay 1.

Sea Insurance Co., Ltd., Exchange Buildings, Liverpool 2. Marine Claims Settling. Agents: Gillanders Arbuthnot & Co. Ltd., 16, Queen's Road Estate, Bombay 1.

IRON, STEEL & BRASS

BETHLEHEM STEEL EXPORT CORPORATION, 25, Broadway, New York, U.S.A. Manufacturers of Tinplate, Structural Steel, Steel Wire, Railroad Equipment. Representatives: Voltas Limited, Ballard Estate, Bombay 1.

Hallamshire Steel & File Co., Ltd., Hallamshire Works, Sheffield 3, England. Sole Agents: H. Choksi & Co., Ltd., 106/108, Medows Street, Fort, Bombay.

SAVILLE, J. J., & CO., LTD., Triumph Steel Works, Sheffield. Mfrs. of High Speed Carbon & Alloy Tool Steels. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

W. T. Hawkins & Co., Huddersfield. Mfgrs. of Iron Cement. Agents: Richardson & Cruddas Ltd., Byculla, Bombay 8.

IRRIGATION EQUIPMENT

Wright Rain Ltd., Ringwood, England. Sprinkler Irrigation Equipment. Sole Distributors: William Jacks & Co. Ltd., Bharat House, Apollo Street, Fort, Bombay.

JUICE EXTRACTOR

National Die Casting Co., 200 Fifth Ave. New York, 10 N.Y., U.S.A. Manufacturers of "JUICE KING" Single Stroke Juice Extractors. Sole Agents in India: Jhaveri Bros. & Co. Private Ltd. (Established 1914), 345, Abdul Rehman Street, Opp. Crawford Market, Bombay 3. Grams: "GIFTS".

KITCHEN EQUIPMENT

Helmuth A. Jensen, Denmark. Products:—Mix Master Juicers. Agents for India: Gladwyn & Co., 251, Hornby Road, Fort.

LABORATORY CHEMICALS & REAGENTS

Fine Chemicals of Canada Ltd., 124, Pharmacy Avenue, Toronto 13, Ontario, Canada. Agents for Bombay State: R. K. Shapurji & Co., Prospect Chambers, 319, Dr. Dadabhai Naoroji Road, P. B. No. 1065, Bombay 1.

George T. Gurr Ltd., 136/138, New King's Road, London, S.W.6, England. Agents for Bombay State: R. K. Shapurji & Co., Prospect Chambers, 319, Dr. Dadabhai Naoroji Road, P.B. No. 1065, Bombay 1.

International Division Allied Chemical & Dye Corp., 40, Rector Street, N.Y. 6, New York. Sole Agents for Bombay State: R. K. Shapurji & Co., Prospect Chambers, 319, Dr. Dadabhai Naoroji Road, P.B. No. 1065, Bombay 1.

LABORATORY EQUIPMENT

August Auter, Ebingen, Germany. Balances for Research Laboratories and Industries. Sole Agents: Ghordandas Desai Private Ltd., Kermani Bldg, Sir P. M. Road, Bombay 1.

Chr. Beck & Sohne, K. G. Kassel, Germany. Manufacturers of Microscopes. Sole Agents for India: J. T. Jagtiani, National House, 6, Tulloch Road, Apollo Bunder, Bombay 1.

Difco Laboratories Inc., Michigan, U.S.A., Biological reagents and Culture media. Sole Agents: Ghordandas Desai Private Ltd., Kermani Bldg, Sir P. M. Road, Bombay 1.

General Biological Supply House Inc., Chicago, U.S.A., Turtox prepared biological products Viz. Slides, preserved Specimens, Skeletons, Models etc. Sole Agents: Ghordandas Desai Private Ltd., Kermani Bldg, Sir P. M. Road, Bombay 1.

James A. Jobling & Co., Ltd., Sunderland, England Pyrex brand heat Resisting Laboratory Glassware. Sole Agents: Ghordandas Desai Private Ltd., Kermani Bldg, Sir P. M. Road, Bombay 1.

James Jaquet, Switzerland, Physiology Instruments and Techomters. Sole Agents: Ghordandas Desai Private Ltd., Kermani Bldg, Sir P. M. Road, Bombay 1.

Metafiltration Co. Ltd., Hounslow, Middlesex. Metafilters for Laboratory and Industrial use. Agents: Roberts, McLean & Co., Ltd., Ilaco House, Sir P. Mehta Road.

Precision Scientific Co., Chicago, U.S.A. Thermostatic Baths, Ovens, Incubators etc. and equipment for testing oils, Liquid Fuels etc. Sole Agents: Gohrdandas Desai Private Ltd., Kermani Bldg., Sir P. M. Road, Bombay 1.

TINSLEY (INDUSTRIAL INSTRUMENTS) LTD., London. Manufacturers of "TINSLEY" Polarographs. Sole Agents: Pioneer Equipment Co., Private Ltd., 139, Medows Street, P. O. Box 1909, Bombay 1 (Phone: 251882). Also at 1, Mangoe Lane, Calcutta-1 (Phone: 231611) and 193, Mount Road, Madras-2. Grams: "PIOMETAL."

Worcester Royal Porcelain Co., Ltd., Worcester, England. R.W.P. and Sillax brand Laboratory Porcelainware. Sole Agents: Ghordandas Desai Private Ltd., Kermani Bldg., Sir P. M. Road, Bombay 1.

LAMPS AND LANTERNS MANUFACTURERS

Aktiebolaget Optimus, Sweden. Sole Agents: Elliott Waud & Hill Private Ltd., 1-2, Lakshmi Bldg., Sir P. M. Road, Bombay 1.

Ceag Ltd., 53, Victoria Street, London, S.W. 1. Miner's Electric Safety Lamps. Agents: Balmer Lawrie & Co., Ltd., 5, Graham Road, Ballard Estate, Bombay. Phone: 261494 (3 lines). Gram: "BALMER."

I. C. I. PLASTICS DIVISION, England. ("CRINOTHENE" Perspex and Darvic for lighting fittings). Selling Agents: I. C. I. (India) Private Ltd., Post Box No. 310, Bombay 1.

Tilley Lamp Co., Ltd., London. Patent Kerosene Floodlight Projectors. Agents: Roberts, McLean & Co., Ltd., Ilaco House, Sir Phirozshah Mehta Road.

LATCHES, LOCKS & SAFES

Cheney, C. W., & Son, Ltd., Factory Road, Hockley, Birmingham, 19. Agents: Soho House, Lohar Street, Bombay 2.

LAUNDRY EQUIPMENT

Thos. Bradford & Co., Ltd., Manchester. Laundry Machinery. Sole Agents: Marshall, Sons & Co. (India) Ltd., Marshall's Building, Ballard Road, Bombay 1.

LEATHER & SKINS

John Ormerod & Sons Ltd., England. Agents: Altex Private Ltd., 147, Mahatma Gandhi Road, Fort.

Thomas Evans & Sons Ltd., Sawston, Cambridge. Agents: Soho House, Lohar Street, Bombay 2.

LEATHER CLOTHS

Robert Pickles Ltd., Portsmouth Mill, Portsmouth, Near Todmordan. Agents: Soho House, Lohar Street, Bombay 2.

LEATHER GOODS MANUFACTURERS

Bridge of Weir Leather Co., Ltd., Bridge of Weir, Near Glasgow. "Warm-Sit" Leather for Upholstery. Agents: Hardcastle, Waud & Co., Private Ltd., Alice Buildings, Dr. Dadabhoy Naoroji Road, Fort.

Houghton, E. F., & Co., Philadelphia. Agents: Hardcastle, Waud & Co., Private Ltd., Alice Buildings, Dr. Dadabhoy Naoroji Road, Fort.

LIFE SAVING EQUIPMENT

B. F. D. Company Ltd., Catteshall Lane, Godalming, Surrey, England. Agents: E. W. Stevens & Co. Private Ltd., 4, Ballard Road, Bombay 1.

Schermuly Pistol Rocket Apparatus Ltd., 51, Coleman Street, London E. C. 2. Agents: E. W. Stevens & Co. Private Ltd., 4, Ballard Road, Bombay 1.

LIFTING EQUIPMENT

Richard C. Gibbins & Co., Ltd., Birmingham. Agents: Killick, Nixon & Co., Private Ltd., Killick House, Home Street, Fort.

LIFTS, ELEVATORS, CONVEYORS (ELECTRIC)

Christopher & Sons Ltd., J., London (Hoists & Winches). Sole Agents: Killick, Nixon & Co., Private Ltd., Killick House, Home Street, Fort.

GIMSON ENGLAND, Electric Passenger & Goods Lifts. Sole Agents: Eastern Engineers, 1, Bruce Street, Raja Bhadur Compound, Fort, Bombay. Phone: 251810.

Marryat & Scott, London. Electric Passenger and Goods Lifts. Agents: John Fleming & Co. Private Ltd., Bastion Road, Fort, Bombay 1. Phone: 261153.

Rowland Prists & Co. Ltd., England. Pulley Blocks, Mechanical & Hydraulic Lifting & Traversing Jacks & Other Equipment. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

W. S. BARROW & SONS & LTD., Gloucester, England, Manufacturers of of Screw Lifts, Elevators & Conveyors. Agents: Gaytee & Co., Janmabhoomi Chambers, Fort Street, Bombay 1. Phone: 263449. Grams: "IMPENO."

LINOLEUM

Tayside Floorcloth Co., Ltd., Newburgh, Fife, Scotland. Sole Agents: Heatly & Gresham, Ltd., 9, Forbes Street.

LITHOGRAPHERS

Waterlow & Sons Ltd., 26/27, Gt. Winchester Street, London, E.C. 2. Protective Cheque Specialists, Bank Notes, Bond and Stamp Engravers. Agents: Gillanders Arbuthnot & Co., Ltd., 16, Queen's Road Estate, Bombay 1.

LOCOMOTIVE EQUIPMENT

Associated Locomotive Equipment Ltd., London. Agents: Guest, Keen, Williams, Ltd., Wakefield House, Sprott Road, Ballard Estate, Bombay 1.

WM. GRIFFITH & SONS LIMITED, Saville Street East, Sheffield, 4 (England). Laminated Springs. Representatives: James Finlay & Co., Limited, P.O. Box No. 73, Bombay 1.

LOCOMOTIVES

Davey Paxman & Co., Ltd., Standard Iron Works, Colchester. Diesel Engines for Rail Traction in Locomotives and Railcars. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort.

G. Cesare Rauzi, Legnano, Italy. Sole Agents: India Metal Agencies, India House, Fort Street, Bombay 1.

NORTH BRITISH LOCOMOTIVE CO. LTD., 110, Flemington Street, Springburn, Glasgow, N. Representatives: James Finlay & Co., Limited, P.O. Box No. 73, Bombay 1.

Ruston & Hornsby Ltd., Lincoln. Narrow & Metre Gauge Diesel Locomotives and Broad Gauge Shunting Diesel Locomotives. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort.

LUBRICATING OILS AND GREASES

Acheson, Colloids Ltd., London. "Colloidal Graphite Products", 'Oildag', 'Aquadag', etc. Agents: Hardcastle, Waud & Co., Private Ltd., Alice Buildings, Dr. Dadabhoy Naoroji Road, Fort.

A. E. Westwood Ltd., England. Sole Agents: Elliott Waud & Hill Private Ltd., 1-2, Lakshmi Bldg., Sir P. M. Road, Bombay 1.

Edgar Vaughan & Co., Ltd., Birmingham. Agents: Hardcastle, Waud & Co., Private Ltd., Alice Buildings, Dr. Dadabhoy Naoroji Road, Fort.

Germ Lubricants Ltd., Copthal Avenue, London, and at Salford, Manchester. (Lubricating Oils and Greases). Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort.

Gulf Oil (India) Private Ltd., Selling Agents: Killick Nixon & Co., Private Ltd., Killick House, Home Street, Fort.

Houghton, E. F., & Co., Philadelphia. Agents: Hardcastle, Waud & Co., Private Ltd., Alice Buildings, Dr. Dadabhoy Naoroji Road, Fort.

Ocean Oil Co. (1942) Ltd., Marine Engine Oils. Agents: Hardcastle, Waud & Co., Private Ltd., Alice Buildings, Dr. Dadabhoy Naoroji Road, Fort.

United Refining Co., Warren, Philadelphia, U.S.A. Sole Agents for India: Bombay Mercantile Corporation, 211-217, Nagdevi Street, Bombay 3.

MACHINE TOOLS

A. A. Jones & Shipman Ltd., England. Universal & Semi-Universal Grinding Machines, Surface Grinders, Tool & Cutter Grinders etc. Sole Distributors: William Jacks & Co. Ltd., Bharat House, Apollo Street, Fort, Bombay.

Adcock & Shipley Ltd., England. Universal, Vertical and Horizontal Milling Machines and Attachments. Sole Distributors: William Jacks & Co. Ltd., Bharat House, Apollo Street, Fort, Bombay.

Armstrong Whitworth (Metal Industries) Ltd., England. Rolls for Rolling Mills and Tube Mills. Sole Distributors: William Jacks & Co. Ltd., Bharat House, Apollo Street, Fort, Bombay.

Bette & Company, Germany. Pillar Drilling Machines. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

B. M. W. Maschinenfabrik, Germany. Single Spindle Automatics, Gear Deburring Machines, etc. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

B. S. A. Tools Ltd., England. Single & Multi-Spindle Automatic Screw Machines, Centreless Grinding Machines, Multi-Tool Lathes, etc. Sole Distributors: William Jacks & Co. Ltd., Bharat House, Apollo Street, Fort, Bombay.

Bretts Patent Lifter Co., Foleshill Works, Coventry, England. Sole Agents: Heatly & Gresham, 9, Forbes Street, Fort.

C. & E. Fein, Germany. Portable Electric Tools. Agents in India: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Churchill-Redman Ltd., Parkinson Lane, Halifax. Sole Agents: Heatly & Gresham Ltd., 9, Forbes Street, Fort.

Cincinnati Milling Machines, Cincinnati, Ohio, U.S.A. Sole Agents: Heatly & Gresham Ltd., 9, Forbes Street, Fort.

Cincinnati Milling Machines Ltd., Woodlands Farm Road, Tyburn, Birmingham, England. Sole Agents: Heatly & Gresham Ltd., 9, Forbes Street, Fort.

Coventry Gauge & Tool Co. Ltd., England. *Machine Tools:* Jig Boring Machines, Tap Grinding Machines, Thread Grinders, Gear Grinders, Cylindrical Grinders, Broach Sharpening Machines, Tread Milling Machines, etc. *Measuring Instruments:* Floating Carriage Diameter Measuring Machines, "Micro-Maag" Internal Micrometers, Taper Measuring Machines, Pitch Measuring Machines, etc. *Gauges:* Gap Gauges, Caliper Gauges, Slip Gauges, etc. Sole Distributors: William Jacks & Co. Ltd., Bharat House, Apollo Street, Fort, Bombay.

Craven Bros. (Manchester) Ltd., England. Railway Wheel Lathes, Axle Journal Re-Turning & Grinding Machines, and all types of Railway Machine Tools. Heavy Duty S.S. & S. C. Lathes, Gear Cutting Machines, Horizontal Boring Machines, etc. Sole Distributors: William Jacks & Co. Ltd., Bharat House, Apollo Street, Fort, Bombay.

D. Mitchell & Co. Ltd., England. General Purpose High Speed S.S. & S.C. Lathes. Sole Distributors: William Jacks & Co. Ltd., Bharat House, Apollo Street, Fort, Bombay.

E. H. Jones (M.T.) Ltd., England. British Built "Kearney & Tracker" MILWAUKEE Milling Machines, Vertical and Horizontal and Universal, Duplex, Simplex Die Making Machines. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Emil Sachs, Germany. Thicknessing Planner, Heavy Duty Smooth Planing, Jointing and Moulding Machines, Upright Chain Mortising machines, tenoning & Slotting Machines and other wood working machinery. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

F. J. Edwards Ltd., England. Complete range of Sheet Metal Working Machinery. Sole Distributors: William Jacks & Co. Ltd., Bharat House, Apollo Street, Fort, Bombay.

Fell, W. A., Ltd., Windermere, England. Agents: Heatly & Gresham Ltd., 9, Forbes Street, Fort.

Finlay Engineering Co., England. Hydraulic Cold Benders, Press Units, Rail & Grinder Presses, Hand Operated Press, Plate Section Presses, etc. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Fischer, Karl Eugen, Germany. Press Brakes & Guillotine Shears. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Frederick Town & Sons Ltd., Halifax, England. Radial Drilling Machines, Vertical Drilling Machines, etc. Sole Distributors: William Jacks & Co. Ltd., Bharat House, Apollo Street, Fort, Bombay.

Graham & Normanton Ltd., England. "GRANOR" High Speed S.S. & S.C. Lathes & Shaping Machines. Sole Distributors: William Jacks & Co. Ltd., Bharat House, Apollo Street, Fort, Bombay.

GV Nibbler & Company, Sweden. Nibblers, Cutting and Framing Machines. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Hans-Biel, Germany. Metal Spraying and Sand Blasting Equipment. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Herman Hilbert, Ramscheid Germany. Sole Agents: Tirathdas Kesharam, 130, Narayan Dhuru Street, Bombay 3.

Hilgers Maschinenfabrik, Germany. Cold Tube Bending Machines. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Ingenieurdienst G.m.b.H. Germany. Representatives: Behram & Co., 1-1 Lakshmi Bldg., Sir P. M. Road, Bombay 1.

James Neill & Co., (Sheffield) Ltd., England. Representatives: Elliott Waud & Hill Private Ltd., 1-2, Lakshmi Bldg., Sir P. M. Road, Bombay 1.

Jungner, Svenska Ackumulator Aktiebolaget, Sweden. Universal Tool & Cutter Grinder Machines. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Kearney & Trecker Corpn., U.S.A. "Milwaukee" Milling Machines. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Keighley Grinders (M.T.) Ltd. (Newall Group Sales Ltd.), England. Universal Grinders, Precision Cylindrical Grinders and Internal Production Grinders. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Kitchen & Wade Ltd., Halifax, England. Drilling Machines. Agents: Heatly & Gresham Ltd., 9, Forbes Street, Fort.

Malmedie & Co., G.m.b.H., Germany. Wire Drawing Plant, Wire Nail Making Machines, Nut Presses, etc. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Murad Developments Ltd., England. High Speed Capstan Lathes, Double Ended 'Dustless' Grinders (the only Grinder in the world with built-in Dust Inhibitors). Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

National Acme Co., U. S. A. Multi-Spindle Bar Automatics. Sole Distributors: William Jacks & Co. Ltd., Bharat House, Apollo Street, Fort, Bombay.

Newall Engineering Co. Ltd. (Newall Group Sales Ltd.), England. Jig Boring Machines, Angular Head Grinding Machines, Thread Grinding Machines, Cylindrical Grinding Machines, Internal Grinding Machines & Production Lapping Machines. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Optical Measuring Tools Ltd. (Newall Group Sales Ltd.), England. Projectors, Optical Rotary Table, Optical Rotary Projection Table, Optical Rotary Inclinable Table, Toolmaker's Microscope, Thread Template Microscope, Vertical & Horizontal Omtimeters. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Ormerod Shapers Ltd., Hebden Bridge, Yorks, England. Sole Agents: Heatly & Gresham Ltd., 9 Forbes Street, Fort.

Petzing & Hartmann Maschinenfabrik, Germany. Bandsaws. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Pickles, John & Son (Engineers), Ltd., Hebden Bridge, England. Sole Agents: Heatly & Gresham Ltd., 9, Forbes Street, Fort.

Planers (Huddersfield) Ltd., England. Planing Machines. Sole Distributors: William Jacks & Co. Ltd., Bharat House, Apollo Street, Fort, Bombay.

Press Tools Ltd., England. Jigs, Fixtures, Press Tools and Gauges, Dies. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Rushworth & Co., England. Bar Cropping Machines, Punching & Shearing Machines, Guillotine Shearing Machines, Plate Bending & Straightening Rolls, Press Brakes. Sole Distributors: William Jacks & Co. Ltd., Bharat House, Apollo Street, Fort, Bombay.

Samuel Denison & Son Ltd, England. Compression & Transverse Machine, Wire Twist & Tensile Testing Machines, Universal Machines, Fabric Testing Machines, Creep Testing Machines, Chain Testing Machines, etc. Sole Distributors: William Jacks & Co. Ltd., Bharat House, Apollo Street, Fort, Bombay.

Sheffield Twist Drill & Steel Co., Ltd., England. Representatives: Elliott Waud & Hill Private Ltd., 1-2, Lakshmi Bldg., Sir P. M. Road, Bombay 1.

Standall Engineering Ltd., England. Forging Hammers, Air Compressor Plants. Agents: Balmer Lawrie & Co., Ltd., 5, Graham Road, Ballard Estate, Bombay. Phone: 261494 (3 lines). Grams: "BALMER."

Stenners of Tiverton Ltd., England. Log Band Mills, Band Rack Saws, Band Resaws, Saw Doctoring Equipment, etc. Sole Distributors: William Jacks & Co. Ltd., Bharat House, Apollo Street, Fort, Bombay.

Sykes, W. E., Ltd., Manor Works, Staines, Middlesex, England. Hobbing and Gear Cutting Machine. Agents: Heatly & Gresham Ltd., 9, Forbes Street, Fort.

Theodor Gen-Kinger Nurtinsen, Germany. Sole Agents: Thathdas Kesharam, 130, Narayan Dhuru Street, Bombay 3.

Thos. Firth & John Brown Ltd, Sheffield, England. Forged Steel Rolls for Rolling Mills. Sole Distributors: William Jacks & Co. Ltd., Hamilton House, Graham Road, Ballard Estate.

Tolimit Gauges, Ltd., England. Precision Thread and Plain Gauges. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Truform Gauge Co. Ltd., England. Gauges, Jigs & Fixtures, Profile Ground Punches & Dies, Straight Edges, etc. Agents: Armstrong Private Ltd., 1, Sir P. M. Road, Bombay 1.

Turbine Gears Ltd., England. Gears and Gear Units. Sole Distributors: William Jacks & Co. Ltd., Bharat House, Apollo Street, Fort, Bombay.

Weingarten, Germany. Plate Bending and Rounding Machines. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Weller, Germany. Precision and Watch Making Lathes and Equipment. Agents: Armstrong Smith Private Ltd., 1, Sir P.M. Road, Bombay 1.

MACHINERY (BAG FILLING)

Sack Fillers Ltd., London. Sole Agents: Killick Nixon & Co. Private Ltd., Killick House, Home Street, Fort.

MACHINERY (ELEC. & MECH.)

Christy & Norris Ltd., Chelmsford. Disintegrators, Hammer Mills, Screening Plant. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort.

Clayton Manufacturing Co., El-Monte, California, U.S.A. Agents: Chandulal Mehta & Co. (Private) Ltd., 15, New Queen's Road, Bombay 4.

Clearing Machine Corporation, Chicago 38, Illinois, U.S.A. (Mechanical and Hydraulic Power presses & Press Brakes). Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort.

Colcrete Ltd., London. Manufacturers of Colloidal Mixers and Colloidal Grouting. Sole Agents in India: Gammon India Private Ltd., Hamilton House, Ballard Estate.

Electric Construction Co. Ltd., 9, Kingsway, London. Electric Motors and Generators. Agents: Balmer Lawrie & Co., Ltd., 5, Graham Road, Ballard Estate, Bombay. Phone: 261494 (3 lines). Grams: "BALMER".

Fluidrive Engineering Co. Ltd, Isleworth (Middlesex, England). Hydraulic Couplings. Sole Concessionaires: Greaves Cotton & Co. Ltd., 1, Forbes Street, Fort, Bombay.

Gebr. Stork & Co. N. V. Hengelo, Holland. Sales Distributors: Eastern Electric & Engineering Co., 127, Mahatma Gandhi Road, Bombay 1.

Head, Wrightson Colliery Engineering Co., Ltd., England. Coal Preparation and Screening Plants. Agents: Balmer Lawrie & Co., Ltd., 5, Graham Road, Ballard Estate, Bombay. Phone: 261494 (3 lines). Grams: "BALMER".

Head, Wrightson & Co., Ltd., Stockton Forge Division, Stockton-on-Tees, England. Ore mining and Treatment Plant, Coal mining and Treatment Plant. Selling Agents: Balmer Lawrie & Co., Ltd., 5, Graham Road, Ballard Estate, Bombay. Phone: 261494 (3 lines). Grams: "BALMER".

Karl-Kack Maschinenbau, Germany. Representatives: Behram & Co., 1-1, Lakshmi Bldg., Sir P. M. Road, Bombay 1.

LISTER & CO., LTD. (R. A.), Dursley, Glos., England; Petrol and Diesel Engines, Pumping, Generating Sets, Cream Separators and Dairy Equipment. Importers: Voltas Limited, Ballard Estate, Bombay 1.

Power Plant Co., Ltd., England. Agents: Balmer, Lawrie & Co., Ltd., 5, Graham Road, Ballard Estate, Bombay. Phone: 261494 (3 lines). Grams: "BALMER".

SIEMENS-SCHUKERTWERKE, A.G. SIEMENS-HALSKE, A.G. of Western Germany. Manufacturers of all types of Electrical Equipment, Steam & Hydro-Power Plants, Telephone & Telecommunication Equipment, Electrical precision machinery, Cables and instruments, Electricity Meters, Water Meters and other Electric Equipment. Sole Representatives in India: Siemens Engineering & Manufacturing Co. of India Private Limited, 81/83, Veer Nariman Road, Bombay 1.

Stroj Export, Praha, Czechoslovakia. Agents for Western & Central India. India Metal Agencies, Post Box No. 1966, Bombay 1.

Stream-line Filters Ltd., London, England. Filters for reclaiming used Engine Lubricating Oil, Transformer Oil Filters. Sole Concessionaires: Greaves Cotton & Co. Ltd., 1, Forbes Street, Fort.

SULZER BROTHERS LTD., Winterthur, Switzerland. Diesel Engines, Pumps. Sole Importers: Voltas Limited, Ballard Estate, Bombay 1.

Weston, Shipley & Weston Ltd., Leicester. "Kut-Out" Machines for Pipe Cutting. Agents: Richardson & Cruddas Ltd., Byculla, Bombay 8.

MACHINERY MANUFACTURERS

C. H. & E. Manufacturing Co., 3849, North Palmer Street, Milwaukee 12, Wis. (U.S.A.). Agents in India: Essential Engineering Co., Botawala Building, Elphinstone Circle, Fort.

Cement Gun Co., Ltd., London. Agents: John Fleming & Co., Private Ltd., Bastion Road, Fort, Bombay 1. Phone: 261153.

E. R. & F. Turner Ltd., England. Complete Flour Milling Plant and Machinery. Sole Distributors: William Jacks & Co. Ltd., Hamilton House, Graham Road, Ballard Estate.

Reckermann Frasmaschinen (Germany). Agents for India: Essential Engineering Co., Botawala Building, Horniman Circle, Fort, Bombay.

Sturtevant Engineering Co., Ltd., England. Crushing, Grinding, Screening, Separating and Mixing Machinery including Laboratory Machinery. Contact: Ratansi Morarji Private Limited, Prospect Chambers, 317-21, Dadabhoy Naoroji Road, P.B. No. 1270, Bombay 1.

Worthington-Simpson Limited, Newark-on-Trent. Sole Agents: William Jacks & Co. Ltd. Head Office & Depot: Bharat House, Apollo Street, Fort, Bombay.

MACHINERY PRESSURE GAUGES

Eagle & Wrights (Gauges) Ltd., 87, Carver Street, Birmingham 1, England. Sole Agents for Bombay State: R. K. Shapurji & Co., Prospect Chambers, 319, Dr. D. Naoroji Road, Fort, P.B. No. 1065, Bombay 1.

MACHINERY (TEXTILE)

Armstrong Cork Co., Ltd., Kingsbury, London, N.W. 9. Agents: Roberts, McLean & Co., Ltd., Ilaco House, Sir Phirozshah Mehta Road.

Atwood Division Universal Winding Co., Hartford, U.S.A. Silk Machinery. Sole Representatives: W. H. Brady & Co., Ltd., 12-14, Veer Nariman Road, Fort, Bombay 1.

Cook & Co., Manchester, Ltd., Spinning and Doubling Travellers, Card Vacuum Stripping Plants, Spinning Specialities. Sole Representatives: W. H. Brady & Co., Ltd., 12-14, Veer Nariman Road, Fort, Bombay 1.

Daniel Foxwell & Sons, Ltd., Cheadle, Manchester. Cloth Rolling, Folding, Measuring and Lapping Machinery. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort.

Dronsfield Bros., Ltd., Oldham. Card Mounting and Grinding Machinery, Roller Covers Plant. Representatives: W. H. Brady & Co., Ltd., 12-14, Veer Nariman Road, Fort, Bombay, 1.

Dronsfield Bros. Ltd., Oldham. Card Grinding Equipment, Emery, Fillet Roller Covering Machinery. Concessionaires: Greaves Cotton & Co. Ltd., 1, Forbes Street, Fort.

ELLERWERKE MASCHINENFABRIK, Hamburg 33, Germany. Mfrs. of Hydro Extractors. Sole importers: Popular (Imp.-Exp.) Trading Co., Javeri House, 110, Medows Street, Bombay 1.

Gebruder Wickl, Zurich, Switzerland. Manufacturers of "KNITTAX" Hand Knitting Machine. Agents: Altex Private Ltd., 147, Mahatma Gandhi Road, Fort, Bombay 1.

Goodbrand & Co., Ltd., Stalybridge. Yarn & Cloth Testing Machines. Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort.

Grob & Co. Ltd., Horgen, Switzerland. Wire and Flat Steel Healds. Sole Importers: Voltas Limited, Ballard Estate, Bombay 1.

H. Brinton Company, Philadelphia, U. S. A. Automatic Knitting Machinery. Sole Representatives: W. H. Brady & Co., Ltd., 12-14, Veer Nariman Road, Fort, Bombay 1.

Hindle Son & Co., Ltd., Blackburn. Electric Baling Presses. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort.

Hodges, P., & Co., Ltd., Nottingham. High Speed Braiding and Twisting Machinery. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort.

John T. Hardaker Ltd., Bradford. Jacquards and Jacquard Sundries. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort.

Longclose Engineering Co. Ltd., Leeds. Cheese, Cone & Beam Dyeing Plants. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort.

Mather & Platt Ltd., Manchester. Dyeing, Bleaching, Printing and Finishing Machinery. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

Mount Engineering (Sales) Company, Oldham, England. Makers of Improved Mechanical Warp Stop Motions, Pirn Stripping Machines and Hydraulic Beam Trucks, etc. Sole Representatives: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

OERLIKON MACHINE TOOL WORKS, Zurich 50 Oerlikon, Switzerland. Mfrs. of Roller bearing inserts and Jockey pulleys. Sole importers: Popular (Imp.-Exp.) Trading Co., Javeri House, 110, Medows Street, Bombay 1.

Power House Components Ltd., Nottingham. Manufacturers of "WAYNE" patent Self-Winding Electric Cable Reels and Fuel Economy Specialities. Sole Representatives: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

Pulrose Co., Ltd., England. Agents: Altex Private Ltd., 147, Mahatma Gandhi Road, Fort.

REINERS & FURST., M. Gladbach, Germany. Mfrs. of Spinning Rings, Ring Travellers & Automatic Winders Knotters. Sole importers: Popular (Imp.-Exp.) Trading Co., Javeri House, 110, Medows Street, Bombay 1.

RHEYDTER MASCHINEN & SPINDELFABRIK, Rheydter (Rhld), Germany. Mfrs. of Spinning Fly Frame Parts & Ball Bearing Tops Rollers of every description. Sole importers: Popular (Imp.-Exp.) Trading Co., Javeri House, 110, Medows Street, Bombay 1.

RIETER & CO., LTD. (J. J.), Winterthur (Switzerland). Cotton Spinning Machinery. Sole Importers: Voltas Limited, Ballard Estate, Bombay 1.

Rotameter Mfg. Co. Ltd., Crydon, Surrey. Manufacturers of Flow Meters for all Gases and Liquids. Sole Representatives: W. H. Brady & Co. Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

Ruti Machinery Works, Ruti (Zch.), Switzerland. Warping, Beaming and Sizing Machinery, Cotton & Silk Looms. Sole Importers: Voltas Limited, Ballard Estate, Bombay 1.

Ryden Mill Stores Ltd., England. Agents: Altex Private Ltd., 147, Mahatma Gandhi Road, Fort.

S. Dodd & Sons Ltd., England. Manufacturers of Hopper Blenders. Conversions of Single Process Blow Room. Suppliers of Meiner's Thread Illuminators. Agents: Altex Private Ltd., 147, Mahatma Gandhi Road, Fort, Bombay.

S. Dodd & Sons Ltd., Oldham, England. Makers of Conversion Equipments, etc. Sole Representatives: W. H. Brady & Co. Ltd., 12/14, Veer Nariman Road, Fort, Bombay.

Schweiter Ltd., Horgen, Switzerland. Automative Pirn Winders and all Winding Machines. Sole Importers: Voltas Limited, Ballard Estate, Bombay 1.

Staubli Bros. & Co., Horgen, Switzerland. Dobbies. Sole Importers: Voltas Limited, Ballard Estate, Bombay 1.

Stone-Wallwork Ltd., London, S.W. 1, England. Suppliers of Ting Tuf Mark 1 Tufting Machine for making Rugs, Carpets, Mats, etc. Agents: Altex Private Ltd., 147, Mahatma Gandhi Road, Fort, Bombay 1.

T. W. Riley & Co., Ltd., Rochdale. Cloth Raising Machines. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort.

Thos. Holt Ltd., Rochdale. High Speed & Automatic Winding & Warping Machines. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort.

Vollenweider, Sam., Horgen, Switzerland. Shearing Machines. Sole Importers: Voltas Limited, Ballard Estate, Bombay 1.

Wm. Ryder Ltd., Bolton, England. Makers of Flyers, Spindles, Collars and Fluted Rollers, etc. Sole Representatives: W. H. Brady & Co. Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

Wright Hargreaves Engineering Co., Ltd., Blackburn. Vacuum Card Stripping Equipment. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort.

Zellweger Ltd., Uster, Switzerland. Warp Tying Machines. Importers: Voltas Limited, Ballard Estate, Bombay 1.

MAINTENANCE EQUIPMENT (ELEC. & MECH.)

Martindale Electric Co. Limited, London and Cleveland, Ohio, U.S.A. Electrical and Mechanical Maintenance Equipment, Commutones and Blowers. Representatives: Asea Electric India, Private Limited, Yafi Building, Goa Street, Ballard Estate.

MARINE DIESEL ENGINES

Bergins Co. Ltd., Glasgow, England. Agents: India Metal Agencies, India House, Fort, Street, Bombay 1.

MEASURING AND RECORDING INSTRUMENTS

Esterline—Angus Co., Inc. Indiana, U.S.A. Sales Distributors: Eastern Electric & Engineering Co., 127, Mahatma Gandhi Road, Bombay 1.

H. W. Wallace & Co. Ltd., England. Hardness Meters, Dead Load Hardness Testers, Abrasion Testers, Rapid Plastimeters, Compression Set Apparatus, Flexton Testing Machines, Laboratory Ovens. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Hilger & Watts Ltd., England. Measuring Equipment of all types including Projectors, Enlargers, Optical Gauging & Inspection Equipment etc. Sole Distributors: William Jacks & Co. Ltd., Bharat House, Apollo Street, Fort, Bombay.

L. M. Ericssons Matinstrument Aktiebolaget, Stockholm, Sweden. Manufacturers of Electricity Meters. Representatives: Asea Electric India, Private Limited, Yaffi Building, Goa Street, Ballard Estate.

M S S. Recording Co., Ltd, England. Dictaphones. Agents: Hind Co., 27, New Queen's Road, Bombay 4.

Pierre Roch, S a r L. Switzerland. Representatives: Behram & Co., 11, Lakshmi Bldg., Sir P. M. Road, Bombay 1.

Radiometer, Copenhagen, Denmark. Agents: Hindco, 27, New Queen's Road, Bombay 4.

Taylors of London Ltd., London, England. Water Meters, Waste & Cocks Fittings. Agents: John Fleming & Co Private Ltd., Bastion Road, Fort, Bombay 1. Phone 261153.

Thomas Ashworth & Co. Ltd., England. "Speedy" Moisture Testers. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

MECHANICAL EQUIPMENT

J. Collis & Sons, Ltd, London. Sole Agents: Killick, Nixon & Co. Private Ltd, Killick House, Home Street, Fort.

Teleflex Products Ltd., Essex, England. Sole Agents: Killick, Nixon & Co. Private Ltd., Killick House, Home Street, Fort.

METAL DOORS AND WINDOWS

Gibbons James, Ltd., St. John's Works, Wolverhampton, England. Sole Agents: Heatly & Gresham Ltd., 9, Forbes Street, Fort.

METAL MANUFACTURERS

IMPERIAL CHEMICAL INDUSTRIES LTD., Metals Division, England and Yorkshire Imperial Metals Ltd., Leeds. (Wrought Non-ferrous Metals and Alloys). Selling Agents: I.C.I. (India) Private Ltd., Post Box No. 310, Bombay 1.

Mond Nickel Co. Ltd., The, London. Nickel. Sole Concessionaires: Greaves Cotton & Co Ltd., 1, Forbes Street, Fort.

MICROPHONES AND PICKUPS

American Microphone Co. Division of Elgin Pneumatic Inc., 900 Ballanca Avenue, Los Engeles 45, England. Sales Distributors: Eastern Electric & Engineering Co., 127, Mahatma Gandhi Road, Bombay 1.

SHURE BROS, Inc., Evanston, Illinois, U.S.A. Manufacturers of the World famous Shure Microphones, Magnetic Tape Recording Heads, & Electronic Components. Represented in India by M. U. DADA, Pennsylvania Traders, Post Box 4944, Bombay 2, Telephone: 74444, Telegram: "PENNUNION."

MICROSCOPES

CARL ZEISS JENA, East Germany.—Microscopes, Optical, Surveying, Precision measuring and Scientific Instruments. Sole Agents: Ghordandas Desai Private Ltd., Kermani Bldg., Sir Pherozshah Mehta Road, Bombay 1.

Cooke, Troughton & Simms Ltd., U.K. Manufacturers of Vickers Microscopes. Sole Agents: Pioneer Equipment Co. Private Ltd., P.O. Box 1909, Bombay 1 (Phone: 251882.)

MILL & GIN STORE SUPPLIERS

Frankland Bros., Blackburn. Loom Pickers and Shuttles. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort.

Haydock & Drake Ltd., Blackburn. Healds and Reeds. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort.

John Atkinson & Son (Sowerby Bridge) Ltd, England. Agents: Altex Private Ltd, 147, Mahatma Gandhi Road, Fort.

Joseph Sykes Brothers, Huddersfield. Card Clothing. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort.

Kenyon & Son, Ltd. (James) Bury, Lancs. Textile Clothing and Filter Cloth. Sole Importers: Voltas Limited, Ballard Estate, Bombay 1.

Lupton Bros., Accrington. Loom Sundries. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort.

Platt Bros. & Co., Ltd., Oldham. Cotton Gins & Openers. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort.

Pulrose Co., Ltd., England. Agents: Altex Private Ltd, 147, Mahatma Gandhi Road, Fort.

Resilia Cots & Rollers Ltd, Marfleet, Hull, (England) (Cots, Aprons, Buffers, Loop Pickers, Twister Sleeves, Lug Straps, etc). Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort.

Robert Hyde & Co., Ltd., Stalybridge. Machinery Cloths for Cotton Spinning & Weaving. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort.

William Kenyon & Son Ltd., Dukinfield, Cheshire. P.I. Cotton Driving Rope and Banding. Spindles, Tape and Twine. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort.

MILLING MACHINES

UNION WERKEUGMASCHINENFABRIK M. REUTHER K.G., Germany. Milling Machines. Agents: Gaytee & Company, Janmabhoomi Chambers, Fort Street, Bombay 1. Phone: 263449. Grams: "IMPENG."

MINERAL WATERS, SQUASHES, CORDIALS, ETC.

E. I. Michel & Co., Ltd., 415, Oxford Street, London W.1. Sole Distributors: Spencer & Co., Ltd, Spencer's Building, Forjett Street, Bombay 26.

H. D. Davies & Co., Ltd, 98-100 Bishopsgate, London E.C. 2. Sole Distributors: Spencer & Co., Ltd., Spencer's Building, Forjett Street, Bombay 26.

Societe Des Eaux Minerals Source Cachat Evian Les-Bains. Sole Distributors: Spencer & Co., Ltd., Spencer's Building, Forjett Street, Bombay 26.

MINING MACHINERY & EQUIPMENT

Broom & Wade Ltd., High Wycombe, England. Portable and Stationary Air Compressors & Pneumatic Tools. Sole Importers: Voltas Limited, Ballard Estate, Bombay 1.

Joy Manufacturing Co., Pittsburg 22, PA., U.S.A. & Joy Sullivan Ltd., London, England. Coal Mining Machinery, Auxiliary Mining Machinery, Air Compressors and Pneumatic Tools. Sole Importers: Voltas Limited, Ballard Estate, Bombay 1.

R E. Barker & Co., Ltd., England. Barfill Rollers. Agents: Balmer Lawrie & Co., Ltd., 5, Graham Road, Ballard Estate, Bombay. Phone: 261494 (3 lines). Grams: "BALMER".

Sheepbridge Equipment Ltd., England. Tuggers, Haulages, Mine Cars, Vibrating Screens. Agents: Balmer Lawrie & Co., Ltd., 5, Graham Road, Ballard Estate, Bombay. Phone: 261494 (3 lines). Grams: "BALMER".

Usk-Ide Engineering Co. Ltd., Newport, Mon. Agents: Guest, Keen, Williams, Ltd., Wakefield House, Sprott Road, Ballard Estate, Bombay 1.

MOTOR ACCESSORIES

H. D. Jackson Co., Ltd, Summit Works, Walsall Agents: Soho House, Lohar Street, Bombay 2.

MOTOR CYCLES MFRS.

Associated Motorcycles, Ltd, Plumstead Road, London, S E. 18. Manufacturers of A.J.S. Motor Cycles. Sole Distributors: Dadajee Dhackjee & Co, Private Ltd., Sandhurst Bridge, Bombay 7.

MOTOR SCOOTERS

"Innocenti" Metallurgical and Mechanical General Co. Milan Manufacturers of Lambretta Motor Scooters, 3-Wheeler Rikshaw and Dely. Van Chassis, Auto-Bykes. Sole Distributors: Dadajee Dhackjee & Co., Private Ltd., Sandhurst Bridge, Bombay 7.

NON-FERROUS METALS

Henry Wiggin & Co., Ltd., Birmingham. Monel and Nickel alloys. Sole Concessionaires: Greaves Cotton & Co. Ltd., 1, Forbes Street, Fort.

I.C.I. LTD., Metals Division, and Yorkshire Imperial Metals Ltd. Leeds. (Wrought Brass, Copper, Aluminium and other non-ferrous metals.) Selling Agents: I. C. I. (India) Private Ltd., Post Box No. 310, Bombay 1.

Manganese Bronze & Brass Co. Ltd., Ipswich. Agents: Guest, Keen, Williams, Ltd., Wakefield House, Sprott Road, Ballard Estate, Bombay 1.

Mond Nickel Company Limited, The, London. Nickel, 'F' Nickel. Sole Concessionaires: Greaves Cotton & Co. Ltd., 1, Forbes Street, Fort.

Thomas Bolton & Sons Ltd, London, England Agents: India Metal Agencies, Post Box No. 1966, Bombay 1.

United Wire Works (Birmingham) Ltd., Birmingham. Agents: Guest, Keen, Williams, Ltd., Wakefield House, Sprott Road, Ballard Estate, Bombay 1.

YORKSHIRE COPPER WORKS LTD., Leeds, England. Representatives: James Finlay & Co., Ltd., P.O. Box No. 73, Bombay 1.

NUCLEAR RESEARCH INSTRUMENTS

Baird Atomic Inc., 33, University Road, Cambridge 38, Mass., U.S.A. Sales Distributors: Eastern Electric & Engineering Co., 127, Mahatma Gandhi Road, Bombay.

NUT & BOLT MAKING MACHINES

Etchells David & Son Ltd., Bull Piece Works, Darlaston S. Staffs, England. Sole Agents: Heatly & Gresham Ltd., 9, Forbes Street, Fort.

OFFICE APPLIANCES AND EQUIPMENT

Addressograph-Multigraph Corporation, Cleveland, Ohio, U.S.A. Agents for India: The National Cash Register Co., Steelcrete House, Dinsha Wacha Road, Back Bay Reclamation, Bombay 1.

Addressograph-Multigraph Ltd., London, England. Agents for India: The National Cash Register Co., Steelcrete House, Dinsha Wacha Road, Back Bay Reclamation, Bombay 1.

Friden Calculating Machine Co., Inc., California (U.S.A.). Manufacturers of Friden Automatic Calculators. Sole Agents for India: The National Cash Register Co., Steelcrete House, Dinsha Wacha Road, Back Bay Reclamation, Bombay 1.

Kalamazoo Ltd., Kalamazoo Works, Northfield, Birmingham. Loose Leaf Equipment. Agents: Gillanders Arbuthnot & Co., Ltd., 16, Queen's Road Estate, Bombay 1.

UNIVERSAL POSTAL FRANKERS LTD., Frankopost Works, London N-18, Postal Franking and Stamp Cancelling Machines, Totometer-Counting & Imprinting Machines. Sole Agents: Kilburn & Co. Private Ltd., P.O. Box 565, Bombay; Phone: 25-1908. Grams: "TASCONIUM".

OIL BURNERS

Wallsend Slipway & Engineering Co., Ltd., Walsend-on-Tyne, England. Sole Agents: Heatly & Gresham, Ltd., 9, Forbes Street.

OIL ENGINES

BLACKSTONE & CO., LTD., Dursley, England. Oil Engines Importers: Voltas Limited, Ballard Estate, Bombay 1.

Lister & Co., Ltd., R.A., Dursley, Gloucestershire, England. Vertical Diesel Engines, Petrol and Kerosene Engines, Lighting and Pumping Sets. Vertical Marine Diesel Engines. Importers: Voltas Limited, Ballard Estate, Bombay 1.

Ruston & Hornsby Ltd., Lincoln & Grantham, England. Horizontal and Vertical Diesel, Engines. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort.

OIL MILLING MACHINERY

Fukoku Kogyo Co. Ltd., Osaka, Japan. Sole Agents: J. Khushaldas & Co., 77-79, Nagdevi Street, Bombay 3.

Rose Downs & Thompson Ltd., Hull. Maxoil & Duplex Oil Expellers. Sole Agents: Marshall, Sons & Co. (India) Ltd., Marshall's Building, Ballard Road, Bombay 1.

V. D. Anderson Co., Cleveland, Ohio, U.S.A. Oil expellers, Continuous Solvent extraction plants. Sole Importers: Voltas Limited, Ballard Estate, Bombay 1.

OIL SEALS

CARL FREUDENBERG, West Germany. Mfrs. of Oil Seals. Sole Agents: B. Chowdhury, Messrs. Indian Globe Chambers (7th Floor), Fort Street, Fort, Bombay 1. Phone: 26-3479. Grams: "BISUKEH."

ORE DRESSING & CHEMICAL EQUIPMENT

DENVER EQUIPMENT CO., Denver, U.S.A. Sole Agents: Pioneer Equipment Co., Private Ltd., 139, Medows Street, P. O. Box 1909, Bombay 1. (Phone: 251882). Also at 1, Mangoe Lane, Calcutta 1. (Phone: 231611) and 193, Mount Road, Madras 2. Grams: "PIOMETAL."

OXYGEN CUTTING & PROFILING MACHINES

Hancock & Co., (Engineers) Ltd., Progress Way, Croydon, England. Sole Agents: Datson Raviraj & Co., 43, Tamarind Lane, Fort, Bombay. Phone: 39333.

PACKING & JOINT RINGS

Batey Metallic Packing Co., St. Peters, Newcastle-on-Tyne, England. Agents: Heatly & Gresham, Ltd., 9, Forbes Street.

British Metallic Packing Co. (1933), Ltd., Britimp Works, Sidcup, Kent, England. Sole Agents: Heatly & Gresham Ltd., 9, Forbes Street, Fort.

Walker, James & Co., Ltd., Woking, Surrey, England. 'Lion' Brand Packings and Jointings. Agents: Roberts, McLean & Co., Ltd., Ilaco House, Sir Phirozshah Mehta Road, Fort.

PADLOCKS & KITCHENWARE

Henry Squire & Sons Ltd., Near Willenhall, Staffs, New Invention. Agents: Soho House, Lohar Street, Bombay 2.

PAINTS, ENAMEL & VARNISHES

A. C. C. I. LTD., "DUCO" & "DULUX" Paints and I.C.I. Pre-treatment processes. Agents: I.C.I. (India) Private Ltd., Post Box No. 310, Bombay 1.

Docker Bros., Rotton Park Street, Birmingham 16. Agents: Gillanders Arbuthnot & Co., Ltd., 16, Queen's Road Estate, Bombay 1.

Francisco Nubiola, 648, Avda. Jose Antonio, Barcelona (Spain). Sole Agents for India for Ultramarine Blue: Chemidye Trading Co. Private Ltd., 38, Cawasji Patel Street, Bombay 1.

Morrison Charles Composition Co., Ltd. "Capstan" Brand Paints. Agents: Hardcastle, Waud & Co. Private Ltd., Alice Buildings, Dr. Dadabhoy Naoroji Road, Fort.

Pinchin Johnson & Co., 4, Carlton Gardens, London, S.W.1. Agents: Gillanders Arbuthnot & Co. Ltd., 16, Queen's Road Estate, Bombay 1.

Robt. Ingham Clark & Co., 4, Carlton Gardens, London, S.W.1. Agents: Gillanders Arbuthnot & Co. Ltd., 16, Queen's Road Estate, Bombay 1.

Wilkinson Heywood & Clark, 4, Carlton Gardens, London, S.W.1. Agents: Gillanders Arbuthnot & Co. Ltd., 16, Queen's Road Estate, Bombay 1.

PAPER BAGS FOR PACKAGING

Paper Sacks Ltd., London. Sole Agents: Killick Nixon & Co. Private Ltd., Killick House, Home Street, Fort.

PAPER MFRS. & MERCHANTS

CHARLES BORGEN & CO., LTD., Paper Merchants, Gateway House, 1, Watling Street, London, E.C. 4. Agents: Wiggins, Teape & Alex. Pirie (Export) Ltd., Kadamal Chambers, Nicol Road.

FINNISH PAPER & BOARD CONVERTERS' ASSOCIATION, Unionin-Katu, 19, Helsinki, Finland. Representatives: James Finlay & Co., Limited, P.O. Box No. 73, Bombay 1.

FINNISH PAPER MILLS' ASSOCIATION, Department I, Helsinki, Finland. Newsprint. Representatives: James Finlay & Co., Ltd., P.O. Box No. 73, Bombay 1.

FINNISH PAPER MILLS' ASSOCIATION, Department II, Helsinki, Finland. Representatives: James Finlay & Co., Ltd., P.O. Box No. 73, Bombay 1.

LIEBIG PAPER EXPORT CO., A/B, Gothenburg, Sweden. Exclusive Agents for: Fiskeby Fabriks Aktiebolag, Sweden. A/S. Fellum Fabrikker, Norway. Union Paper Co., Ltd. A/S Norway. Representatives in India:—Scanfennia Paper Co., (Bombay) Private Ltd., 53.57 Lakshmi Bldgs., Sir Phirozshah Mehta Road, Bombay 1. Calcutta Office: Scanfennia Paper Co., (Calcutta) Private Ltd. 32-A Brabourne Road, Calcutta.

STORM & BULL LTD., Oslo, Norway. Agents: R. K. Gandhi & Co., Aga Khan Building, Dalal Street, Fort, Bombay. Phone: 255684. Grams: "BOARD PAPER".

PAPER MILLS

Backhouse & Coppock Ltd., "Perfection" Postal Wrappers. Agents: Hardcastle, Waud & Co. Private Ltd., Alice Buildings, Dr. Dadabhoy Naoroji Road, Fort.

Cincinnati Industries Inc., Cincinnati (Lockland), Ohio, U.S.A. Agents: Hardcastle, Waud & Co. Private Ltd., Alice Buildings, Dr. Dadabhoy Naoroji Road, Fort.

Smith, Stone & Knight Ltd., Wrapping Papers, Corrugated Strawboards, etc. Agents: Hardcastle, Waud & Co. Private Ltd., Alice Buildings, Dr. Dadabhoy Naoroji Road, Fort.

Transparent Paper Ltd., Bury, Lancashire. "Diophane" Transparent Papers. Agents: Hardcastle, Waud & Co. Private Ltd., Alice Buildings, Dr. Dadabhoy Naoroji Road, Fort.

PAPER TRANSFERS

Tearne & Sons Ltd., All Saint's Road, Birmingham, England. Sole Agents: Heatly & Gresham Ltd., 9, Forbes Street, Bombay.

PATENT GLAZING BARS

Pennycook Patent Glazing & Engineering Co., Ltd., 38, Bath Street, Glasgow C.2, Scotland. Sole Agents: Heatly & Gresham, Ltd., 9, Forbes Street, Fort.

PERFUMERY

Antoine Chiris, S. A. Grasse, France. Agents Anil Trading Co., 32, Princess Street, Bombay 2.

Dragco-Holzminden. W. Germany, Agents: B. C. Patel & Co., 79, Princess Street, Bombay 2.

H. Raab & Co., Amsterdam, Holland Agents: B. C. Patel & Co., 79, Princess Street, Bombay 2.

P. Roberiet & Co., Grasse, France. Agents B. C. Patel & Co., 79, Princess Street, Bombay 2.

Parfums Legion Lelong, Ltd., Perfumes. Sole Agents: J. L. Morison, Son & Jones (India) Private Ltd., Contractor Building, Nicol Road, Ballard Estate, Bombay 1.

PHARMACEUTICALS

Arnold Otto Meyer, Ballindamm 1-3, Post Box No. 689, Hamburg 1. Distributors: F. Bock & Co., Shale Building, Bank Street, Fort, Bombay.

Bigot, Scharfe & Co., Chemische Fabrik, G.M.B.H., Kirchenallee 25, Hamburg. Distributors: F. Bock & Co., Shale Building, Bank Street, Fort, Bombay.

Chemifa Chemische Fabriek Amsterdam N. V., Amsterdam—"X-Ray Contrast Mediums & Dental Anaesthetics." Agents: The Fairdeal Corporation (Private) Ltd., Lakshmi Building, Sir P. M. Road.

Chemische Vertriebs—Gesellschaft, m. b. h. Gereco, Frankfurt Am Main. "Aretus." Agents: Fairdeal Corporation (Private) Ltd., Lakshmi Building, Sir Phirozshah Mehta Road, Fort.

CIBA LIMITED, Basle (Switzerland). Manufacturers of Pharmaceutical Specialities, etc. Sole Representatives for India: CIBA Pharma Private Limited, Esplanade House, Waudby Road, Fort.

Commercial Solvents Corporation, New York 16, U.S.A., "Penicillin Preparations". Agents: Fairdeal Corporation (Private) Ltd., Lakshmi Building, Sir Phirozshah Mehta Road.

Conray Products Co., 129, Pearl Street, New York 5, N.Y. Fine Chemicals/Pharmaceuticals. Distributors: F. Bock & Co., Shale Building, Bank Street, Fort, Bombay 1.

C. S. R. CHEMICALS PTY. LTD., Australia (Ascorbic Acid). Selling Agents: I. C. I. (India) Private Ltd., P.B. No. 310, Bombay 1.

Curapharm C. V. Amsterdam—"Intravenous Solutions and Administration Sets" Agents: The Fairdeal Corporation (Private) Ltd., Lakshmi Building, Sir P. M. Road.

De Witt & Co., E. C., Ltd., London. "De Witt's Kidney and Bladder Pills." Sole Agents: J. L. Morison, Son & Jones (India) Private Ltd., Contractor Building, Nicol Road, Ballard Estate, Bombay 1.

Ephasone and Company, 180, Piccadilly. "Ephasone" for Asthma, Bronchitis, etc. Sole Agents: J. L. Morison, Son & Jones (India) Private Ltd., Contractor Building, Nicol Road, Ballard Estate, Bombay.

F. Hoffmann-La Roche & Co., Ltd., Basle (Switzerland). Manufacturers of Biochemicals, fine chemicals, alkaloids Vitamins and 'Roche' Pharmaceutical Specialities. Sole Importers: Voltas Limited, Ballard Estate, Bombay.

G. D. Searle & Co., Ltd., High Wycombe, U.K." Ethical Pharmaceuticals". Agents: Fairdeal Corporation (Private) Ltd., Lakshmi Building, Sir Phirozshah Mehta Road, Fort.

Herts Pharmaceuticals Ltd. Pharmaceuticals. Sole Agents: J. L. Morison, Son and Jones (India) Private Ltd., Contractor Building, Nicol Road, Ballard Estate, Bombay 1.

Heyden Newport Chemical Corporation, 342, Madison Avenue, New York, 17, N. Y. Industrial, Fine & Pharmaceutical Chemicals. Distributors: F. Bock & Co., Shale Building, Bank Street, Fort.

HINDUSTAN LEVER LTD., Glycerine. Agents: L.C.I. (India) Private Ltd., P.B. No. 310, Bombay 1.

Homburg A. G., Chemiewerk, Daimlerstrasse 25, Postfach 3123, Frankfurt/Main, Western Germany. Factory Representatives: German Remedies & Trading Co. Private Ltd., Laxmi Building, Ballard Estate, Bombay. G.P.O. Box No. 1945, Bombay 1.

Honeywill Atlas Ltd., Devonshire House, Mayfair Place, Piccadilly, London W. 1, England. Sole Agents for India for Surface Active Agents: Chemidye Trading Co. Private Ltd., 38, Cawasji Patel Street, Bombay 1.

Hugo Stinnes G.m.b.H., Mulheim (Ruhr) Ruhrstrasse 1, Germany. Products: Phthalic Anhydride, Maleic Anhydride and Fumaric Acid. Distributors: F. Bock & Co., Shale Building, Bank Street, Fort, Bombay.

Inabata & Co. Ltd., 40 2-Chome, Doshomachi, Higashiku, Osaka, Japan. Distributors: F. Bock & Co., Shale Building, Bank Street, Fort, Bombay.

International Division, Allied Chemical & Dye Corp., 40, Rector Street, N. Y. 6, New York. Sole Agents for Bombay State: R. K. Shapurji & Co., Prospect Chambers, 319, Dr. Dadabhai Naoroji Road, Fort. Post Box No. 1065, Bombay 1.

I.C.I. LTD., PHARMACEUTICALS DIVISION, Manchester, England. ("AVOLON" Brand Pharmaceuticals.) Selling Agents: I.C.I. (India) Private Ltd., Post Box No. 310, Bombay 1.

Istituto Chemioterapico Italiano, Milano—*Via* Crocefisso No. 12, Italy. Products: Sulfa drugs and Vitamins. Distributors: F. Bock & Co., Shale Building, Bank Street, Fort, Bombay.

Johnson & Johnson (Gt. Britain) Ltd., Slough, U.K. "Personal Products." Agents: Fairdeal Corporation (Private) Ltd., Lakshmi Building, Sir Phirozshah Mehta Road, Fort.

Kemball, Bishop & Co. Ltd., Crown Chemical Works, Bromley-by-Bow, London, E. 3. Agents: Gillanders Arbuthnot & Co. Ltd., 16, Queen's Road Estate, Bombay 1.

M. & R., Dietetic Laboratories Inc., Columbus, 16, U.S.A. "Similac", Infant Milk Food. Agents: Fairdeal Corporation (Private) Ltd., Lakshmi Building, Sir Phirozshah Mehta Road, Fort.

Mead Johnson & Co., U.S.A., "Meads" Vitamin Preparations etc., Sole Agents: J.L. Morison, Son & Jones (India) Private Ltd., Contractor Building, Nicol Road, Ballard Estate, Bombay 1.

Merck-Sharp & Dohme International, New York. Pharmaceutical Specialities and Biologicals. Sole Importers: Voltas Limited, Ballard Estate, Bombay 1.

Munton & Fison Ltd., Stowmarket, Suffolk, England, Malt Extract. Distributors: F. Bock & Co., Shale Building, Bank Street, Fort, Bombay 1.

Newton Chambers & Co., Ltd., Thorncliff Works, Sheffield. Izal Germicide, etc. Agents: Gillanders Arbuthnot & Co., Ltd., 16, Queen's Road Estate, Bombay 1.

A. & G. NICHOLAS LTD., England, (Pharmaceuticals). Selling Agents: I.C.I. (India) Private Ltd., P. B. No. 310, Bombay 1.

Nordmark Werke G.M.B.H., Adolphstrasse 32, Hamburg 21, Western Germany. Factory Representatives: German Remedies & Trading Co. Private Ltd., Laxmi Building, Ballard Estate, Bombay. G.P.O. Box No. 1945, Bombay 1.

Optrex (Overseas) Ltd. "Optrex" Eye Lotion and "Optone" Eye Drops. Sole Agents: J. L. Morison, Son & Jones (India) Private Ltd., Contractor Building, Nicol Road, Ballard Estate, Bombay 1.

Oxo Ltd., London. Pharmaceutical Specialities and Food Products. Agents: Anglo-Thai Corporation Ltd., Ewart House, Bruce Street, Fort.

Pearson & Co., Ltd., E. T., "Lactagol." "Tessol," "Rhinitol," "Iodinosol," etc. Sole Agents: J. L. Morison, Son & Jones (India) Private Ltd., Contractor Building, Nicol Road, Ballard Estate, Bombay 1.

PFIZER EASTERN CORPORATION, New York. Exclusive Distributors in India: Ravison Pharmaceuticals Private Ltd., 198, Jamshedji Tata Road, Post Box 1636, Bombay 1. Phone: 37387. Grams: "RAVIPHARM". Branches at Delhi, Calcutta and Madras.

Pharmaceutical Manufacturing Co., Ltd. "Novutox" "Xylotox" "Surfacaine". Sole Agents: J. L. Morison, Son & Jones (India) Private Ltd., Contractor Building, Nicol Road, Ballard Estate, Bombay 1.

Riedel de Haen A. G., (Pharmaceutical Department), (20a.) Seelze, b. Hannover, Western Germany. Factory Representatives: German Remedies & Trading Co. Private Ltd., Laxmi Building, Ballard Estate, Bombay. G.P.O. Box No. 1945, Bombay 1.

Riker Laboratories Ltd, Patent and Proprietary Medicines. Sole Agents: J. L. Morison, Son & Jones (India), Private Ltd, Contractor Building, Nicol Road, Estate, Bombay 1.

R. Lienau & Cie., 22 (a) Uerdingen A. RH., Germany (West). Sole Agents for India: R. K. Shapurji & Co., Prospect Chambers, 319, Dr. D. Naoroji Road, P.B. No. 1065, Bombay 1.

Sankyo Company Ltd., Tokyo. "Raw Pharmaceuticals". Agents: The Fairdeal Corporation (Private) Ltd., Lakshmi Building, Sir Phirozshah Mehta Road.

Schering A. G., Mullerstrasse, 170-172, Berlin N 65, Western Germany. Sole Importers & Distributors: German Remedies & Trading Co. Private Ltd., Laxmi Building, Ballard Estate, G. P. O. Box No. 1945, Bombay 1.

SCOTT & BOWNE LTD. (Scotts Emulsion, Kalivite.) Selling Agents: I. C. I. (India) Private Ltd., Post Box No. 310, Bombay 1.

Scott & Turner, Ltd., Newcastle-on-Tyne, "Andrews Liver Salt." Sole Agents: J. L. Morison, Son & Jones (India), Private Ltd., Contractor Building, Nicol Road, Ballard Estate, Bombay 1.

Societa Italiana Medicinali Scandicci Firenze (Scandicci), Italy, *via* Molin Vuovo-Products: Choline Salts. Distributors: F. Bock & Co., Shale Building, Bank Street, Fort, Bombay.

Spencer & Co., Ltd., Urodonal. Sole Agents: J. L. Morison Son & Jones (India) Private Ltd., Contractor Building, Nicol Road, Ballard Estate, Bombay 1.

Sperti Faraday Inc., Hoboken, U.S.A. Electro Medical Apparatus." Agents: Fairdeal Corporation Private Ltd., Lakshmi Building, Sir Phirozshah Mehta Road, Fort.

Uzara Werke Meisungen, P. O. Box No. 88, Meisungen, Western Germany. Factory Representatives: German Remedies & Trading Co., Private Ltd., Laxmi Building, Ballard Estate, Bombay 1. G.P.O. Box No. 1945, Bombay 1.

Wulfing & Co., A., M.B.H., (Sanatogen-Werke Bauer & Cie, and Fabrik Pharmaceutischer Praeparate Johann A. Wulfing) Graf-Adolf-str., 18 (22a.) Duesseldorf, Western Germany. Factory Representatives: German Remedies and Trading Co., Private Ltd., Laxmi Building, Ballard Estate, Bombay 1. G.P.O. Box No. 1945, Bombay 1.

Van Baerle & Co. Ltd., Munchenstein/Basle, Switzerland. Products: Crystalline Phosphoric Acid, Potassium Silicate. Distributors: F. Bock & Co., Shale Building, Bank Street, Fort, Bombay.

VEB Berlin-Chemie, Berlin/Aldershof Glienicker Weg 181. Products: Chloramphenicol, Santonin Chloroform. Distributors: F. Bock & Co., Shale Building, Bank Street, Fort, Bombay.

Yodogawa Pharmaceutical Co., Ltd., 136, Higashi, 2-Chome, Nozato, Nishiyodogawa-Ku, Osaka, Japan. Products: Folic Acid U.S.P. Distributors: F. Bock & Co., Shale Building, Bank Street, Fort, Bombay.

PHARMACEUTICAL MACHINERY & EQUIPMENT

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Albro Fillers & Engineering Co. Ltd. Middlesex, England. Filling Machines for liquid, cream chutneys, Powder, etc. Lidding and Capping Machines. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Arenco Aktiebolag, Stockholm (Sweden), Tube Filling, Folding & Crimping Machine, Jar Filling Machine. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Arthur Colton & Co. New York 16. N. Y. Complete range of Tablet Machinery, Filling, Closing, Crimping Machines, etc. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Autopack Ltd., Birmingham, England. Ampoule Cutting, Washing, Filling & Sealing Machines, Powder Ampoule Filling Machine, Vial Feeding, Filling & Capping Machines, Protamin Insulin Double Headed Filling machine, Powder, Tea Powder, Flour, Cereal, Soap Flakes Weighing & Filling Machines, Weighing, Pressing & Tin Feeding Machines, Tube Filling, Feeding and corking Machine, Cap Spinning Unit for Vials, Screw Capping Machine with/without filling unit, Cellophane wrapping machine, Automatic film wrapping machine, Anacin type Tablet Packing Machine. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Banister Street Works Ltd., London N.1. Tube Filling, Folding & Crimping Machines. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Blomqvists Verkstandsaktiebolag, Sweden. Mixers and Dough Kneaders. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

D. Trapow & Co. (Clifford Packaging Machinery Ltd.), England. NEWMAN Fully and Semi-Automatic Labelling Machines for bottles, jars, ampoules, vials, torch batteries, etc. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Greif Werke, Germany. Weighing and Filling Machine for flour, sugar, etc. Agents: Armstrong Smith Private Ltd., Sir P. M. Road, Bombay 1.

James Cruickshank Ltd., Scotland. 'Husky', 'Consul' & 'Envoy' Multispeed Mixers, Vortex Dough Kneader, Vegetable Preparer, Coffee Grinder, Meat Mincer, etc. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

J. G. Jackson & Crockatt Ltd., England. Granulators for Dry & Wet Masses. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

MANESTY MACHINES LTD., Liverpool, 19. Pharmaceutical & Tablet making Machines, Distilled Water Plants, etc. Sole Agents: Kilburn & Co., Private Ltd., P.O. Box 565, Bombay. Phone: 25-1908. Grams: "TASCONIUM."

Ormerod Engineers Ltd, England. Homogenizers for Pharmaceutical, Textile, Jute, Foodstuffs, etc. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

William Gardner & Sons (Gloucester) Ltd., England. Sifters & Mixers, Crushers, Grinders and Ball Mills, Essence Sprayer, Mixer. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

PHOTO COPYING MACHINES

SKANDINAVISK FOTOCOPI A/S, 5, Baggesengade, Copenhagen N, Denmark. Representatives: Latham Abercrombie & Co. Private Ltd., Forbes Building, Home Street, Fort.

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Mason, E. N., & Sons, Ltd., Arclight Works, Colchester, England. Sole Agents: Heatly & Gresham, Ltd., 9, Forbes Street, Fort.

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British Steel Piling Co., Ltd., Pile Driving Equipment, Steel Sheet Piling and Piles. Sol Distributors: William Jacks & Co. Ltd., Hamilton House, Graham Road, Ballard Estate.

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Staveley Iron & Chemical Co. Ltd., Chesterfield, England. C. I. Pipes and Specials. Sole Distributors: William Jacks & Co. Ltd., Bharat House, Apollo Street, Bombay.

Tom Carrington & Co., Ltd., England. Sole Agents: Elliott Waud & Hill Private Ltd., 1-2 Lakshmi Bldg., Sir P. M. Road, Bombay. 1.

YORKSHIRE IMPERIAL METALS LTD., Leeds. Selling Agents: I.C.I. (India) Private Ltd., Post Box No. 310, Bombay.

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AERO RESEARCH LTD., Duxford, Cambridge, England. Manufacturers of Synthetic Resin Adhesives for Plywood, Veneering, Furniture and Metal bonding. Sole Suppliers in India: Ciba Dyes Private Limited, Royal Insurance Building, Jamshedji Tata Road, Churchgate Reclamation, Bombay 1. Phones: 37184-87. Grams: "CIBA." Post Box No. 479. Codes used: Universal Trade and Bentley's Second Phrase.

ALKOR G.M.b.h., Munchen, Solla, West Germany. Manufacturers of Alkor Brand Plastics. Sole Agents: L. R. Trading Co., Navsari Chambers, Opp. Lloyds Bank, Fort, Bombay.

American Moulding Powder & Chemical Corporation, 703, Bedford Avenue, Brooklyn 6. N. Y. Products—Polystyrene Moulding Powder, Cellulose Acetate Butyrate, "Master" Colour concentrates "Kromaplast" Dry Colorants. Distributors: F. Bock & Co., Shale Building, Bank Street, Fort.

CIBA LIMITED, Basle (Switzerland). Manufacturers of Urea Formaldehyde and Melamine Formaldehyde Moulding Powders, Surface Coating Resins, Casting and Laminating Resins. Sole Suppliers in India: Ciba Dyes Private Ltd., Royal Insurance Building, Jamshedji Tata Road, Churchgate Reclamation, Bombay 1. Phone Nos.: 37184&7. Grams: "CIBA." Post Box No. 479. Codes used: Universal Trade and Bentley's Second Phrase.

HOLOPLAST LIMITED, England. (Plastic Laminated Sheets, Linings and Panels). Selling Agents: I. C. I. (India) Private Ltd., Post Box No. 310, Bombay 1.

I.C.I. LTD., Plastics Division, England. "Alkathene" Extrusion & Injection Compounds, "Perspex" sheets, blocks & rods; "Welvic" & "Corvic" PVC calendering Extrusion Compounds; "Diakon" Injection Moulding Powder "Mouldrite" P.F., U.F. & W.F. Moulding Powders "Darvic" Rigid P.V. Sheets; Corrugated "Perspex"—roof lighting. Selling Agents: I.C.I. (India) Private Ltd., P.B. No. 310, Bombay 1.

I. C. I. LTD., Plastics Division, England, ("PERSPEX" Acrylic Sheets, Powder, Rods, Tubes, etc. "ALKATHENE", Granules and Tubes, "CRINOTHENE", Nylon Monofilaments Moulding Powder, U.F., P.F., W.F., Moulding Powers, P.V.C. Moulding Powers and "Darvic Rigid" P.V.C. Sheets) Selling Agents: I.C.I. (India) Private Ltd., Post Box No. 310, Bombay 1.

I.C.I. (India) LTD., Calcutta. "Alkathene" Pipe & Film. Sales Office: I.C.I. (India) Private Ltd., P.O. Box No. 310, Bombay 1.

PLATINUM

BAKER PLATINUM, 52, High Holborn, London, W.C.1. Manufacturers of Jewellery Platinum and Palladium, Precious Metal Alloys and Compounds, Spinnerettes, Thermocouples Wire, Laboratoryware, Gauzes, Catalysts, Contacts Pen points, etc. Sole Agents: Malgham Bros., 26, Old Custom House Road, Fort, Bombay 1. Grams: "MALGHAM." Phone: 252964.

PLUMBAGO CRUCIBLES

James C. Waterhouse, Ltd., Sohoworks, Wakefield. Agents: Gillanders Arbuthnot & Co., Ltd., 16, Queen's Road Estate, Bombay 1.

PNEUMATIC PLANT COMPRESSORS, DRILLS, ETC.

DEPRAG PREISLUFTMASCHINEN SCHULZ K. G. (13a) Amberg/opf., Germany. Representatives: James Finlay & Co., Limited, P.O. Box No. 73, Bombay 1.

POLISHING MATERIALS

A.C.C.I. LTD., "DUCO" Wax Polish and I.C.I. No. 7 Polish. Selling Agents: I.C.I. (India) Private Ltd., Post Box No. 310, Bombay 1.

Goddard, J., & Sons, Ltd. Goddard's Plate Powder, Liquid Polish, Furniture Cream, etc. Sole Agents: J. L. Morison, Son & Jones (India) Private Ltd., Contractor Building, Nicol Road, Ballard Estate, Bombay 1.

Bonuk, Ltd., Household "Polishes". Sole Agents: J. L. Morison, Son & Jones (India) Private Ltd., Contractor Building, Nicol Road, Ballard Estate, Bombay 1.

W. Canning & Co., Ltd., Birmingham, England. Agents and Chief Distributors: S. Mitra & Co., 187, Dr. Dadabhoy Naoroji Road, Bombay 1. Grams: "Mudeshi."

POTTERIES

John Aynsley & Sons Ltd., Stoke. Manufacturers of China Tableware. Agents: A. H. Shah & Co. Private Ltd., Jan Mansion, Sir Phirozshah Mehta Road, Fort, Bombay.

Johnson Brothers (Hanley) Ltd., Stoke-on-Trent. Manufacturers of Domestic Tableware. Agents: A. H. Shah & Co. Private Ltd., Jan Mansion, Sir Phirozshah Mehta Road, Fort, Bombay.

POWER PRESSES

Hordern, Mason & Edwards Ltd., Pype Hayes, Birmingham 24, England. Sole Agents: Heatly & Gresham Ltd., 9, Forbes Street, Bombay.

POWER TRANSMISSION EQUIPMENT

Engrenages Citron Limited, Paris, France. Spur, Bevel and Cylindro-Conical Gears and Flexible Couplings. Contact: Ratansi Morarji Private Limited, Prospect Chambers, 317/21, Dr. Dadabhoy Naoroji Road, P.B. No. 1270, Bombay 1.

PRECISION TOOLS AND INSTRUMENTS

Carl Zeiss Jena, East Germany. Sole Agents: Ghordandas Desai Private Ltd., Kermani Bldg., Sir P. M. Road, Bombay 1.

PRESENTATION ARTICLES

Ronson Products Ltd., London. Cigarette Lighters & Products. Sole Distributors: Spencer & Co., Spencer's Building, Forjett Street, Bombay 26.

PRESS FASTENERS

Charles Edkins & Sons Ltd., Friday Bridge Works, Summer Row, Birmingham, 3. Agents: Soho House, Lohar Street, Bombay 2.

PRINTING AND ANTIFRICTION METALS

Fry's Metal Foundry Ltd., Tandem Works, Merton Abbey, England. Printing and Bearing Metals and Solders. Agents: Heatly & Gresham Ltd., 9, Forbes Street, Fort.

PRINTING INKS

Fishburn Printing Ink Co. Ltd., England. Sole Agents: Indo-Europa Trading Co., 9, Dalal Street, Fort.

PRINTING PRESS MACHINERY

August Fomm Maschinenfabrik, Germany. Sole Agents: Indo-Europa Trading Co., 9, Dalal Street, Fort, Bombay.

Cundall Folding Machine Co. Ltd., England. Sole Agents: Indo-Europa Trading Co., 9, Dalal Street, Fort, Bombay.

Kustermann & Comp., Germany. Sole Agents: Indo-Europa Trading Co., 9, Dalal Street, Fort, Bombay.

Lontke & Co. Maschinenfabrik G.m.b.H., Germany. Sole Agents: Indo-Europa Trading Co., 9, Dalal Street, Fort, Bombay.

Prakma Maschinenfabrik G.m.b.H., Germany. Sole Agents: Indo-Europa Trading Co., 9, Dalal Street, Fort, Bombay.

Reiss & Schirmer, Germany. Sole Agents: Indo-Europa Trading Co., 9, Dalal Street, Fort, Bombay.

VEB Buchbindereimaschinenwerk, Leipzig, Germany. Sole Agents: Indo-Europa Trading Co., 9, Dalal Street, Fort, Bombay.

VEB Druckmaschinenwerk Universal, Germany. Sole Agents: Indo-Europa Trading Co., 9, Dalal Street, Fort, Bombay.

VEB Druckmaschinenwerk Victoria, Germany. Sole Agents: Indo-Europa Trading Co., 9, Dalal Street, Fort, Bombay.

VEB Druckautomatenwerk, Germany. Sole Agents: Indo-Europa Trading Co., 9, Dalal Street, Fort, Bombay.

VEB Optima-Fabrik Graphischcer Maschinen, Germany. Sole Agents: Indo-Europa Trading Co., 9, Dalal Street, Fort, Bombay.

PRINTING PRESS MACHINERY MATERIAL

Baptist Bacher, Germany. Sole Agents: Indo-Europa Trading Co., 9, Dalal Street, Fort, Bombay.

Matern-un Pressspanwerke, Thalheim VEB, Germany. Sole Agents: Indo-Europa Trading Co., 9, Dalal Street, Fort, Bombay.

Max Nitzsche & Co., A. G., Germany. Sole Agents: Indo-Europa Trading Co., 9, Dalal Street, Fort, Bombay.

Sauven Perforating Machine Co., England. Perforating Machines. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

PROVISION MERCHANTS

Canada Packers Ltd., Toronto. Sole Distributors: Spencer & Co., Ltd., Spencer Building, Forjett Street, Bombay 26.

PUMPS & FITTINGS

Byron Jackson Co., Los Angeles, California. Deep Well Turbine Pumps, Vertical Spindle and Horizontal Spindle Centrifugal pumps. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort.

PUMPS & PUMPING MACHINERY

Auto Diesels Ltd. (England). Agents in India: Essential Engineering Co., Botawala Building, Horniman Circle, Fort, Bombay.

Benton & Stone Ltd., Birmingham. Patent Hyject Foot Pumps. Agents: Richardson & Cruddas, Ltd., Byculla, Bombay 8.

British La Bour Pump Co., Ltd., Nibbate Works, London, N.7. Sole Agents: Heatly & Gresham Ltd., 9, Forbes Street, Fort.

C. H. & E. Manufacturing Co., 3849, North Palmer Street, Milwaukee 12, Wis. (U.S.A.). Agents for India: Essential Engineering Co., Botawala Building, Elphinstone Circle, Fort, Bombay.

Glenfield & Kennedy, Ltd., Kilmarnock. Hydraulic Ram Pumps. Agents: Glenfield & Kennedy, Ltd., 196, Jamshedji Tata Road, Fort, Bombay 1.

Gwynnes Pumps Ltd., Lincoln. Centrifugal Pumps. Sole Agents: Marshall, Sons & Co., (India) Ltd., Marshall's Building, Ballard Road, Bombay 1.

Hayward Tyler & Co., Luton. Boiler Feed Pumps. Sole Agents: Marshall, Sons & Co., (India) Ltd., Marshall's Building, Ballard Road, Bombay 1.

J. Hartlage, Osnabruck, W. Germany. Agents: India Metal Agencies, Post Box No. 1966, Bombay 1.

S. Madan & Co. Ltd., Altrincham, England. Compressed Air-operated Testing Pumps, Hydraulic Pressure Pumps, Grease and Viscous Fluid Pumps. Sole Concessionaires: Greaves Cotton & Co. Ltd., 1, Forbes Street, Fort, Bombay.

Tecalemit Limited, Brentford, U.K. Mfrs. of High Pressure Grease Pumps & Lubricating Units. Agents: Tecalemit (India) Ltd., 9, Forbes Street, Fort, Bombay.

Worthington-Corporation, Harrison, N.J., U.S.A. Pumping Machinery and Air Compressors for all appli ations. Sole Distributors: William Jacks & Co. Ltd., Bharat House, Apollo Street, Fort, Bombay.

Worthington Simpson Ltd., Newark-On-Trent, England. Pumping Machinery of all descriptions and Air Compressors. Sole Distributors: William Jacks & Co. Ltd., Bharat House, Apollo Street, Fort, Bombay.

PYROMETERS

Foster Instrument Co. Ltd., England. Manufacturers of Pyrometers. Sole Agents & Stockists: Indian Wild-Barfield Co. Private Ltd., Lotus Cinema Building, Hornby Vellard, Bombay 18.

QUARRYING EQUIPMENT

Goodwin Barsby & Co. Ltd., Leicester. Stone-breakers & Crushing Plants, Road, Quarry, Gravel and Construction Plant. Sole Concessionaires: Greaves Cotton & Co. Ltd., 1 Forbes Street, Fort, Bombay.

RADIO TELEPRINTERS

A.C.E.C. CHARLEROI LE, BELGIQUE, Radio Teleprinter Suppliers. Representatives: Latham Abercrombie & Co. Private Ltd., Forbes Building, Home Street, Fort.

RADIOS & RADIOGRAMS

Telefunken G.m.b.H. Gotlingar, Chaussee, 76, Hanover, W. Germany. Agents: Hindco, 27, New Queen's Road, Bombay 4.

RAIL CARS AND TROLLEYS

Drewry Car Co., Ltd., London. Agents: Guest, Keen, Williams, Ltd., Wakefield House, Sprott Road, Ballard Estate, Bombay 1.

RAIL JOINT SHIMS

D. WICKHAM & CO., LTD., Ware, Hertfordshire, England. Manufacturers of Railway Cars and Equipment. Representatives: James Finlay & Co., Ltd., P.O. Box No. 73, Bombay 1.

Wenham Incorporated, 12, Victoria Street, London, S.W.1. Rail Joint Shims. Agents: Heatly & Gresham Ltd., 9, Forbes Street, Fort.

RAILWAY ENGINEERS

Associated Locomotive Equipment Ltd., London. Agents: Guest, Keen, Williams, Ltd., Wakefield House, Sprott Road, Ballard Estate, Bombay 1.

P. & M. Co. (England), Ltd., London. Agents: Guest, Keen, Williams, Ltd., Wakefield House, Sprott Road, Ballard Estate, Bombay 1.

RAILWAY EQUIPMENT

D. WICKHAM & CO., LTD., Ware, Hertfordshire, England. Manufacturers of Railway Cars and Equipment. Representatives: James Finlay & Co. Ltd., P. O. Box No. 73, Bombay 1.

English Steel Corporation Ltd., Sheffield. Springs, Forgings and Railway Wagon Accessories. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort.

MATISA EQUIPMENT LIMITED, 78, Buckingham Gate, Westminster, London, S. W. 1 (England). Representatives: James Finlay & Co., Limited, P.O. Box No. 73, Bombay 1.

Owen & Dyson Ltd., Rotherham, England. Wheels and axles for locomotives. Sole Representatives: The United Steel Companies (India) Private Ltd., Himalaya House, Hornby Road, Fort, Bombay.

PRESSED STEEL CO., LTD., Cowley, Oxford, England. Representatives: James Finlay & Co., Ltd., P.O. Box No. 73, Bombay 1.

S. A. D. Ateliers de la Dyle, Louvain, Belgium. Agents: Hardcastle Waud & Co., Private Ltd., Alice Building, Dr. Dadabhoy Naoroji Road, Fort.

S. A. Usines Emile Henricot, Court, Saint Etienne, Belgium. Agents: Hardcastle Waud & Co., Private Ltd., Alice Building, Dr. Dadabhoy Naoroji Road, Fort.

Steel, Peech & Tozer, Sheffield, England. Locomotive, Carriage and Wagon Tyres. Wheels, Axles and Laminated Springs. Disc Wheel Centres, Crank Axles and Forgings. Sole Representatives: The United Steel Companies (India) Private Ltd., Himalaya House, Hornby Road, Fort.

Wm. Beardmore & Co. Ltd., Glasgow. Railway Wheels and Axles. Agents: Guest, Keen, Williams, Ltd., Wakefield House, Sprott Road, Ballard Estate, Bombay 1.

Workington Iron & Steel Co., Workington, England. Steel Rails, Fish plates, Steel Sleepers and Fastenings. Sole Representatives: The United Steel Companies (India) Private Ltd., Himalaya House, Hornby Road, Fort.

RAILWAY EQUIPMENT & SANITARY FITTINGS

Levick John Ltd., Birmingham, England. Sole Agents: Heatly & Gresham Ltd., 9, Forbes Street, Fort.

RAILWAY SIGNALLING

Tyer & Co., Ltd., London. Agents: Guest, Keen, Williams, Ltd., Wakefield House, Sprott Road, Ballard Estate, Bombay 1.

RAZOR BLADE MFRS.

Ever-Ready Razor Products Ltd., England. Sole Agents: Elliott Waud & Hill Private Ltd., 1-2, Lakshmi Bldg., Sir P. M. Road, Bombay 1.

RECORDING INSTRUMENTS

British Pitometer Co., Ltd., London. Indicators and Recorders for Water, Sewage, Oil and other Fluids. Agents: Glenfield & Kennedy, Ltd., 198, Jamshedji Tata Road, Fort, Bombay 1.

Glenfield & Kennedy, Ltd., Kilmarnock. Water Level Indicators and Recorders. Agents: Glenfield & Kennedy, Ltd., 198, Jamshedji Tata Road, Fort, Bombay 1.

PYROWERK, G.m.b.H. Wennigsen, Germany, for Temperature Recording Instruments, Pyrometric Indicators, etc. Sole Agents: Pioneer Equipment Co. Private Ltd., 139, Medows Street, P. O. Box 1909, Bombay 1. (Phone: 251682.) Also at 1, Mangoe Lane, Calcutta 1. (Phone: 231611) and 193, Mount Road, Madras 2. Grams: "PIOMETAL."

REFLECTIVE SHEETINGS

Minnesota Mining and Mfg. Co., Ltd., Birmingham. Agents: Gillanders Arbuthnot & Co., Ltd., 16, Queen's Road Estate, Bombay 1.

REFRACTORIES

General Refractories Ltd., Genefax House, Sheffield 10, Great Britain. Sole Agents: J. D. Jones & Co. (Bombay) Private Ltd., Rustom Building, Veer Nariman Road, Fort, Bombay.

REFRACTORY CEMENTS

Furnace Linings Co., Ltd., Nursery Street, Sheffield 3. Sole Agents: Datson, Raviraj & Co., 43, Tamarind Lane, Fort.

Quigley Company of Canada Ltd., P. Q. Lachine, Canada. Sole Agents: Datson, Raviraj & Co., 43, Tamarind Lane, Fort, Bombay. Phone: 39333.

REFRIGERATORS

Nash Kelvinator Ltd., England. Refrigerators. Sole Distributors: Spencer & Co. Ltd., Spencer's Building, Forjett Street, Bombay 26.

REFRIGERATION EQUIPMENT (COMMERCIAL)

Alfred Teves K. G., Frankfurt/Main, Germany. Exclusive Representatives in India. Refrigeration & Appliances Co. Private Ltd., Pravin Court, 95, Queen's Road, Bombay 1.

Svenska Turbin Aktiebolaget Ljungstrom (Stal), Nosskoping, Sweden. Manufacturers of Refrigeration and Ice making Plant. Representatives: Asea Electric India, Private Limited, Yaffi Building, Goa Street, Ballard Estate.

RIVETS & NAILS

J. & W. Somerville Ltd., Kali Nail Works, Lennoxtown, nr. Glasgow. Agents: Soho House, Lohar Street, Bombay 2.

S. & D. Rivet Co., 'Ariel Works,' Temple Road, Leicester, England. Agents: Soho House, Lohar Street, Bombay 2.

ROAD BUILDING EQUIPMENT & MACHINERY

Alfred Hagelstein, Germany. Kemna Diesel Road Rollers. Sole Distributors: William Jacks & Co. Ltd., Hamilton House, Graham Road, Ballard Estate.

Aveling Barford Ltd., Invicta Works, Grantham, England. Motor & Diesel Road Rollers, Dumper Trucks, Trench-Diggers, Calf-Dozers, Graders, Crushing & Screening Plant. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort.

Boydell & Co. Ltd., E., Manchester (Muir-Hill Dumpers). Agents for Western India: Killick, Nixon & Co. Private Ltd., Killick House, Home Street, Fort.

Braham Patterson & Benham, Ltd., London. Road Surfacing Plant. Agents: Richardson & Cruddas Ltd., Byculla, Bombay 8.

Gallon Iron Works & Mfg., Co. Gallon, Ohio, U.S.A. Gallon Motorgraders. Sole Importers: Voltas Ltd., Chinchpokli Road, Bombay 12.

Georg. Stetter Baumaschinenfabrik, Germany. High Speed Builder's Winches, Concrete Mixers, Canal Cranes, etc. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

International Harvester Export Co., U.S.A., U.K., Australia & Associates. Bulldozers, Tractor Cranes, Dozer Shovels, Loaders, Land Clearing Equipment, Rippers, Motor, Scrapers, etc. Sole Importers: Voltas Limited, Chinchpokli Road, Bombay 12.

Johnson (Machinery) Ltd., C. H., England. Sole Agents: Killick, Nixon & Co. Private Ltd., Killick House, Home Street, Fort.

Johnston Bros. (Contractors) Ltd., 284 Ibex House, Minories, London, E.C. 3. (Asphalt Mixers, Tar Boilers, Slush Removers, Suction Scavengers, Mobile Bitumen Heaters, Road Line Makers). Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort.

LeTourneau-Westinghouse Co., Peoria, Illinois, U.S.A. Bulldozers, Scrapers, Rooters and Rollers. Sole Distributors: William Jacks & Co. Ltd., Hamilton House, Graham Road, Ballard Estate.

Marshall, Sons & Co., Ltd., Gainsborough. Diesel Road Rollers. Sole Agents: Marshall, Sons & Co. (India) Ltd., Marshall's Building, Ballard Road, Bombay 1.

Thew Shovel Company, The Lorain, Ohio, U.S.A. Shovels, Draglines and Cranes. Sole Distributors: William Jacks & Co. Ltd., Hamilton House, Graham Road, Ballard Estate.

Wacker Gebruder, Germany. Gasoline/Electric High Frequency Internal/External Concrete Vibrators, Tampers, Tie Tampers, Plate Vibrators, etc. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

W. G. Armstrong Whitworth (Metal Industries) Ltd., England. "Kue-Ken" Jaw and Gyratory Crushers. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

ROLLER BEARINGS

British Timken Ltd., England. Timken Taper Roller Bearings and Railway Axle Boxes. Sole Distributors: William Jacks & Co. Ltd., Hamilton House, Graham Road, Ballard Estate.

Ransome & Marles Bearing Co., Ltd., Newark-on-Trent. 'R & M' Ball and Roller Bearings. Agents: Roberts, McLean & Co., Ltd., Ilaco House, Sir Phirozshah Mehta Road, Fort.

ROLLING SHUTTERS

Dennison Kett & Co., Ltd., Kenoval House, Farmer's Road, London, S.E. 5. Sole Agents: Heatly & Gresham Ltd., 9, Forbes Street, Fort.

ROLLMAKERS

British Rollmakers' Corporation Ltd., Crewe. Agents: Guest, Keen, Williams Ltd., Wakefield House, Sprott Road Ballard Estate, Bombay 1.

ROLLS FOR PAPER & RUBBER MANUFACTURE

Miller Co. Ltd., Edinburgh. Agents: Guest, Keen, Williams, Ltd., Wakefield House, Sprott Road, Ballard Estate, Bombay 1.

ROOFING MATERIAL

D. Anderson & Sons, Manchester & London, Rok Roofing, Paints, etc. Agents Richardson & Cruddas Ltd., Byculla, Bombay 8.

Hellilwell & Co., Ltd., Brighouse. Patent Glazing Bars. Agents: Richardson & Cruddas Ltd., Byculla, Bombay 8.

McNeil, F., & Co., Ltd., 10, Lower Grosvenor Gardens, London, S. W. 1. Bituminised Roofing Felt. Agents: Heatly & Gresham Ltd., 9, Forbes Street, Fort.

Permanite Limited, London. Roofing Felt and Water-proofing Compounds. Sole Distributors: William Jacks & Co. Ltd Hamilton House, Graham Road, Ballard Estate.

Sika Limited, London. Sika Cement Waterproofer. Sole Distributors: William Jacks & Co. Ltd., Hamilton House, Graham Road, Ballard Estate, Fort.

RUBBER AND PLASTIC INDUSTRIES

CHANCE & HUNT LTD., England. Carbon Black. Selling Agents: I.C.I. (India) Private Ltd., P.B. No. 310, Bombay 1.

I. C. I. LTD., Dyestuffs Division, England. Rubber Chemicals and Colours. Selling Agents: I.C.I. (India) Private Ltd. Post Box No. 310, Bombay 1.

Northern Rubber Co. Ltd., Retford, Notts. Agents: Soho House, Lohar Street, Bombay 2.

RUST, ACID AND HEAT RESISTING STEELS

Firth-Vickers Stainless Steels, Ltd., Rust, Acid and Heat Resisting Steels. Sole Distributors: William Jacks & Co. Ltd., Hamilton House, Graham Road, Ballard Estate.

SANITARY WARES & FITTINGS

Allied Iron Founders Ltd, London. Cast Iron Enamelled Baths. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Fordham Pressings Ltd., Wolverhampton. Mfrs. of Seamless Steel & Enamelled Flushing Cisterns, Cattle Drinking Bowls, etc. Agents: A. H. Shah & Co., Private Ltd., Jan Mansion, Sir Phirozshah Mehta Road, Fort.

John Slater (Stoke) Ltd., Stoke Mfrs. of Sanitary & Hospital Fireclayware. Agents: A. H. Shah & Co., Private Ltd., Jan Mansion, Sir Phirozshah Mehta Road, Fort

Johnson Bros. Ltd., Stoke. Mfrs. of Sanitary Earthenware. Agents: A. H. Shah & Co, Private Ltd, Jan Mansion, Sir Phirozshah Mehta Road, Fort.

J. A. R. Howie Ltd., Hurlford Fireclay Works, Kilmarnock, Scotland. Sole Agents for Bombay State: R. K. Shapurji & Co., Prospect Chambers, 319, Dr. Dadabhai Naroji Road, Fort, P.B. No. 1066, Bombay 1.

Robert McArd & Co., Ltd, Denton Mfrs. of Sanitaryware, W. C. Seats. Agents: A. H. Shah & Co., Private Ltd., Jan Mansion, Sir Phirozshah Mehta Road, Fort

Samuel Booth & Co., Ltd., and Barking Brassware & Co., Ltd., England. Mfrs. of Sanitary Metal Fittings. Agents: A. H. Shah & Co., Private Ltd., Jan Mansion, Sir Phirozshah Mehta Road, Fort.

Twyfords Ltd., England. Sanitaryware. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

SCIENTIFIC & MARINE INSTRUMENTS

Aldis Brothers Ltd, Sarehole Road, Hall Green, Birmingham 28, England. Agents: E. W. Stevens & Co., Private Ltd., Mackinnon Mackenzie's Building, 4, Ballard Road, Bombay 1.

Amsler & Co. (Alfreid, J.), Schaffhausen, Switzerland. Testing Machines, Planimeters, Integrators. Sole Importers: Voltas Limited, Ballard Estate, Bombay 1.

Archibold Low & Sons Ltd., Merkland Works, Partick, Glasgow, Scotland. Agents: E.W. Stevens & Co. Private Ltd., Mackinnon Mackenzie's Building, 4, Ballard Road, Bombay 1.

C. A. Steinheil Sohone, Germany. Spectorgraphic Instruments. Sole Agents: Ghordandas Desai Private Ltd., Kermani Bldg., Sir P. M. Road, Bombay 1.

Chadburns (Liverpool) Ltd., Park Lane, Aintree, Liverpool 10, England. Agents: E. W. Stevens & Co., Private Ltd., Mackinnon Mackenzie's Building, 4, Ballard Road, Bombay 1.

Cossor Radar Ltd., Cossor House, Highbury Grove, London N. 5. Agents: E. W. Stevens & Co., Private Ltd., Mackinnon Mackenzie's Building, 4, Ballard Road, Bombay 1.

C. Plath, Stubbenhuk 25, Hamburg 11, Germany. Agents: E. W. Stevens & Co., Private Ltd., Mackinnon Mackenzie's Building, 4, Ballard Road, Bombay 1.

Decca Navigator Co., Ltd., 1-3, Brixton Road, London S.W. 9. Agents: E. W. Stevens & Co., Private Ltd., Mackinnon Mackenzie's Building, 4, Ballard Road, Bombay 1.

Decca Radar Ltd., 1-3, Brixton Road, London S.W. 9. Agents: E. W. Stevens & Co., Private Ltd., Mackinnon Mackenzie's Building, 4, Ballard Road, Bombay 1.

Electroacustics G.m.b.H., Kiel, Westring 425-429, Germany. Agents: E. W. Stevens & Co., Private Ltd., Mackinnon Mackenzie's Building, 4, Ballard Road, Bombay 1.

JULIUS PINTSCH WEST K. G., Frankfurt Main, Germany. Manufacturers of Light Buoys, Light Beacons, Maritime Signal and Lighting Equipment, Sea Marking Devices, Electric Acoustical Plants. Agents: Gaytee & Co., Janmabhoomi Chambers, Fort Street, Bombay. Phone: 263449. Grams: "IMPENG."

Kelvin & Hughes (Marine) Ltd, 99, Fenchurch Street, London E.C. 3. Agents: E. W. Stevens & Co., Private Ltd., Mackinnon Mackenzie's Building, 4, Ballard Road, Bombay 1.

Leeds & Northrup Company, Philadelphia. Indicators, Recorders, Controllers, etc. Electrical Measuring Instruments. Agents: Hardcastle, Waud & Co., Private Ltd., Alice Buildings, Dr. Dadabhoy Naoroji Road, Fort

Radio Corporation of America, RCA Building, 30, Rockefeller Plaza, New York 20, N.Y., U.S.A. Agents: E. W. Stevens and Co., Private Ltd., Mackinnon Mackenzie's Building, 4, Ballard Road, Bombay 1.

Raytheon Manufacturing Company, Waltham 54, Massachusetts, U.S.A. Agents: E. W. Stevens & Co., Private Ltd., Mackinnon Mackenzie's Building, 4, Ballard Road, Bombay 1.

Ross Ensign Ltd., North Side, Clapham Common, London S.W. 4. Agents: E. W. Stevens & Co., Private Ltd., Mackinnon Mackenzie's Building, 4, Ballard Road, Bombay 1.

Schermuly Pistol Rocket Apparatus Ltd., 51, Coleman Street, London E.C. 2. Agents: E. W. Stevens & Co., Private Ltd., Mackinnon Mackenzie's Building, 4, Ballard Road, Bombay 1.

S. G. Brown Ltd., Shakespeare Street, Watford, Herts, England. Agents: E. W. Stevens & Co., Private Ltd., Mackinnon Mackenzie's Building, 4, Ballard Road, Bombay 1.

Sperry Gyroscope Co., Division of Sperry Rand Corporation, Great Neck, Long Island, New York, U.S.A. Agents: E. W. Stevens & Co., Private Ltd., Mackinnon Mackenzie's Building, 4, Ballard Road, Bombay 1.

Steels Engineering Installations Ltd. Crown Works, Sunderland, England. Agents: E.W. Stevens & Co., Private Ltd., Mackinnon Mackenzie's Building, 4, Ballard Road, Bombay 1.

Submarine Signal Co. (London) Ltd., Shakespeare Street, Watford, Herts, England. Agents: E. W. Stevens & Co., Private Ltd., Mackinnon Mackenzie's Building, 4, Ballard Road, Bombay 1.

Thomas Mercer Ltd., Eywood Road, St. Albans, England. Agents: E. W. Stevens & Co., Private Ltd., Mackinnon Mackenzie's Building, 4, Ballard Road, Bombay 1.

Thomas Walker & Son Ltd., 58, Oxford Street, Birmingham 5, England. Agents: E. W. Stevens & Co., Private Ltd., Mackinnon Mackenzie's Building, 4, Ballard Road, Bombay 1.

T. Francis & Sons, Electric House, Turner Bridge, Bolton, Lancs, England. Agents: E. W. Stevens & Co, Private Ltd., Mackinnon Mackenzie's Building, 4, Ballard Road, Bombay 1.

SEWAGE EQUIPMENT

Cakebread Robey & Co., London. Makers of Drain Cleaning Appliances. Agents: Richardson & Cruddas, Ltd., Byculla, Bombay 8.

Hughes & Lancaster Ltd., London. Makers of Sewage Ejectors, etc. Agents: Richardson & Cruddas Ltd., Byculla, Bombay 8.

SHIPPING COMPANIES

Belships Co., Ltd., Victoria St., Westminster, London, S.W. 1. Agents: Killick Nixon & Co., Private Ltd., Killick House, Home Street, Fort.

Bibby Bros. & Co., Martins Bank Building, Water Street, Liverpool. Agents: Killick Nixon & Co, Private Ltd., Killick House, Home Street, Fort.

Compagnie des Messageries Maritimes, Paris. To and from Continental and Mediterranean Ports. Representatives: Volkart Bros, Ballard Estate, Bombay.

Ellerman's City & Hall Lines Ltd., Bankside House, 107, Leadenhall Street, London, E.C. 3. Agents: Killick Nixon & Co., Private Ltd., Killick House, Home Street, Fort.

Hoegh Line—Service of the Hoegh Line to and from U.S.A., Atlantic and Gulf Ports. Representatives: Volkart Brothers, Ballard Estate, Bombay.

Holland-Bombay-Karachi Line and Holland-Bengal-Burma Line. Service of the United Netherlands Navigation Co., Rotterdam, to and from European, Continental and Mediterranean Ports. Representatives: Volkart Brothers, Ballard Estate, Bombay.

Java Pacific & Hoegh Lines—Service of Java Pacific Line, Amsterdam, and Leif Hoegh & Co., A.s., Oslo to and from Ceylon, Malayan Union, Indonesia, Philippines and West Coast of U.S.A. and Canada. Representatives: Volkart Brothers, Ballard Estate, Bombay.

L. Smit & Co.'s Internationale Sleepdienst, Westplein 5, P.O. Box 1042, Rotterdam. Agents: Killick Nixon & Co., Private Ltd., Killick House, Home Street, Fort.

Maersk Line - Service of A. P. Moller, Copenhagen, to and from the Far East. Representatives: Volkart Brothers, Ballard Estate, Bombay.

T. & J. Harrison, Mersey Chambers, Liverpool. Agents: Killick Nixon & Co., Private Ltd., Killick House, Home Street, Fort.

Thos. & Jno Brocklebank Ltd., Cunard Building, Pier Head, Liverpool. Agents: Killick Nixon & Co., Private Ltd., Killick House, Home Street, Fort.

SIZING MATERIAL

Houghton, E. F., & Co., Philadelphia. Agents: Hardcastle, Waud & Co., Private Ltd., Alice Buildings, Dr. Dadabhoy Naoroji Road, Fort.

SMALL TOOLS-METAL & WOOD WORKING

Firth Brown Tools Ltd., Sheffield, England. Files, Drills, Augers, etc. Sole Distributors: William Jacks & Co. Ltd., Hamilton House, Graham Road, Ballard Estate.

SOUND RECORDING MAGNETIC TAPES

Minnesota Mining & Mfg. Co., International Division, Minnesota, U.S.A. Sales Distributors: Eastern Electric & Engineering Co., 127, Mahatma Gandhi Road, Bombay 1.

Minnesota Mining & Mfg. Co. Ltd., Birmingham 8, England. Sales Distributors: Eastern Electric & Engineering Co., 127, Mahatma Gandhi Road, Bombay 1.

SPEED INDICATORS & RECORDERS

Hasler Telegraph Works, 26, Victoria Street, Westminster, London, S.W.1. Sole Agents: Heatly & Gresham Ltd., 9, Forbes Street, Fort.

SPORTS GOODS MFRS. AND DEALERS

A. G. Spalding & Bros. Ltd. "Sports Goods." Sole Agents: J. L. Morison, Son & Jones (India) Private Ltd., Contractor Building, Nicol Road, Ballard Estate, Bombay 1.

I. C. I. LTD., Sporting Ammunition Dept., England. ("ELEY" and "KYNOCH" Cartridges, Gun Powders, etc.) I. C. I. Ltd., Plastics Division: ('Luron' Fishinglines, "Survon" for Tennis racquets.) Representatives in India: I. C. I. (India) Private Ltd., Post Box No. 310, Bombay 1.

SPRAY PAINTING EQUIPMENT

Adolf Ehman, Germany. Alup Air Compressors, Hydraulic Car Lifts, Car Washers, etc. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Aerograph Co. Ltd., London, England. Spray Painting Equipments. Agents: John Fleming & Co. Private Ltd., Bastion Road, Fort, Bombay. Phone: 261153.

B.E.N. Patents Ltd., High Wycombe, England. Air Compressors, Spray Painting plants, Tyre inflators, Car Washers, Spark Plug Cleaners. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort.

B. O. Morris Ltd., Coventry, Polishers. Agents in India: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

DeVilbiss Company, Toledo 1, Ohio, U.S.A. Agents: Gillanders Arbuthnot & Co. Ltd., 16, Queen's Road Estate, Bombay 1.

Richard C. Walther, Germany. Representatives: Behram & Co., 1/1, Lakahmi Bldg., Sir P. M. Road, Fort, Bombay.

SPRAYERS & DUSTERS

Air Pumps Ltd., England. Portable Air Compressors. Sole Distributors: William Jacks & Co. Ltd., Hamilton House, Graham Road, Ballard Estate.

H. Liebherr, Germany. Tower Cranes. Sole Distributors: William Jacks & Co. Ltd., Hamilton House, Graham Road, Ballard Estate.

Page Engineering Co. U.S.A. Walking Draglines. Sole Distributors: William Jacks & Co. Ltd., Hamilton House, Graham Road, Ballard Estate.

SPRINGS

Cope & Timmins (London) Ltd., 91/93, Paul Street, Finsbury, London E.C.2. Agents: Soho House, Lohar Street.

STATIONERS

MERRYWEATHER, L. & C. (GREAT BRITAIN), LTD., Koh-i-Noor Pencil Factory, Chard, Somerset. Agents: Wiggins, Teape & Alex. Pirie (Export) Ltd., Kamani Chambers, Nicol Road, Ballard Estate.

Perry & Co., Ltd., "Perry" Steel Pens and other Stationery Items. Sole Agents: J. L. Morison, Son & Jones (India) Private Ltd., Contractor Building, Nicol Road, Ballard Estate, Bombay 1.

PIRIE, APPLETON & CO., LTD., Manufacturing Stationers, Chadwell Heath Mill, Essex. Agents: Wiggins, Teape & Alex. Pirie (Export) Ltd., Kamani Chambers, Nicol Road, Ballard Estate.

STEAM, DIESEL & ELECTRIC LOCOMOTIVES & SPARES

Vulcan Foundry Ltd., Newton-Le-Willows, Lancashire, England. Sole Agents: Heatly & Greaham Ltd., 9 Forbes Street, Fort.

STEAM & WATER TURBINES

Charmilles Engineering Works Ltd., Geneva, Switzerland. Agents: Kaycee Industries Ltd. Kermani Chambers, Nicol Road, Bombay.

Hayward Tyler & Co., Ltd., Luton. Steam Turbines. Sole Agents: Marshall, Sons & Co. (India) Ltd., Marshall's Building, Ballard Road, Bombay 1.

Hitachi Limited. Tokyo, Japan, Steam & Water Turbines. Sole Distributors: William Jacks & Co., Ltd., Hamilton House, Graham Road, Ballard Estate.

Svenska Turbin Aktiebolaget Ljungstrom (Stal), Finspong, Sweden. Manufactures of Steam and Gas-Turbo-Alternators, Representatives: Asea Electric India, Private Limited. Yaffi Building, Goa Street, Ballard Estate.

STEAM TRAPS & VALVES

Richard Klingers Ltd., Klingerit Works, Sidcup, Kent. Agents: Hardcastle, Waud & Co., Private Ltd., Alice Buildings, Dr. Dadabhoy Naoroji Road, Bombay 1.

Samson, Apparateban, A. G. Frankfurt, Germany. Samson Controls, Regulators. Agents: C. Sethia & Co., 59, Forbes Street, Bombay 1.

Velam Engineering Co., Ltd., 18/22, Erskine Street, Leicester, England: Agents: Hardcastle, Waud & Co., Private Ltd., Alice Buildings, Bombay 1.

STEEL

C. D. Walzholz, Hohenlimburg, Germany. Cold Drawn and Cold Drawn Steel Strips, Wire, Section and Profiles. Distributors: F. Bock & Co., Shale Building, Bank Street, Fort, Bombay 1.

Samson, Apparateban, A. G. Frankfurt, Germany. Samson Controls, Regulators. Agents: C. Sethna & Co., 59, Forbes Street, Bombay 1.

STAHLUNION-EXPORT G.m.b.H., Duesseldorf. Steel materials and products of all kinds. The Stahlunion Company Limited, 61, Pall Mall, London, S.W.1. The Stahlunion Company Limited, India House, 4th Floor, Fort Street, Bombay 1. Telegraphic Address: "MARCASTEEL," Bombay. Branch Offices: Calcutta and Delhi.

STEEL & BRASS

Harrison (Birmingham) Ltd., Bradford Street Works, Birmingham 12. Agents: Soho House, Lohar Street, Bombay 2.

Vossloh Werke, G. m. b. H., Werdohl, Westfalia, Germany (Brit. zone). Agents: Soho House, Lohar Street, Bombay 2.

STEEL (STAINLESS)

Brown Bayley Steels Ltd., Leeds Road, Shaffield. Agents: Heatly & Greaham Ltd., 9, Forbes Street, Fort.

Fox (Samuel) & Co. Ltd., Sheffield, England, Alloy and Stainless Steel Sheets, Bars, Strip and Wire. Sole Representatives: The United Steel Companies (India) Private Ltd., Himalaya House, Dr. Dadabhoy Naoroji Road, Fort.

WARDLOWS LTD., Sheffield, England. Manufacturers of Stainless Steel Sheets and Rods. Agents: Gaytee & Co., Janmabhoomi Chambers, Fort Street, Bombay 1. Phone: 263449. Grams: "IMPENG."

STEEL CASTINGS & FORGINGS

Darlington Forge Ltd., Darlington, County Durham, England. Steel Castings and Forgings. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

Edgar Allen & Co., Ltd., Sheffield. Makers of High Speed Steels, heavy C. S. castings and Metal Working Tools. Agents: Richardson & Cruddas, Ltd., Byculla, Bombay 8.

Wm. Beardmore & Co. Ltd., Glasgow, Agents: Guest, Keen, Williams, Ltd., Wakefield House, Sprott Road, Ballard Estate, Bombay 1.

STEEL MANUFACTURERS

ARTHUR LEE & SONS LTD., Sheffield, (Lee of Sheffield Ltd.), Sheffield, England. Manufacturers of Cold Rolled Steel Strips, Free cutting Steel, Bars, Rounds and Hexogons, Stainless Steel Strips, High Tensile Steel Wires, etc. Representatives for Bombay:— Eastern Trading & Engineering Co., Alice Building, 3rd Floor, 339, Dr. Dadabhoy Naoroji Road, Fort, Bombay 1.

Dorman Long & Co. Ltd., Middlesborough, England. Agents: Balmer Lawrie & Co., Ltd., 5, Graham Road, Ballard Estate, Bombay. Phone: 261494 (3 lines). Grams: "BALMER".

Dunford & Elliott (Sheffield) Ltd., Attercliffe Wharf Works, Sheffield, England. Mining Drill Steel Bars. Sole Representatives. The United Steel Companies (India) Private Ltd., Himalaya House, Hornby Road, Fort.

Edgar Allen & Co., Ltd., Sheffield. Makers of High Speed Steels, Heavy C. S. Castings and Metal Working Tools. Agents: Richardson & Cruddas, Ltd., Byculla, Bombay 8.

English Steel Corporation Ltd., Sheffield. Tool & Alloy Steel. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort.

Exors of James Mills, Ltd., Stockport. Agents: Guest, Keen, Williams (P) Ltd., Wakefield House, Sprott Road, Ballard Estate, Bombay 1.

Guest, Keen & Nettlefolds (South Wales), Ltd., Cardiff. Agents: Guest, Keen, Williams, Ltd., Wakefield House, Sprott Road, Ballard Estate, Bombay 1.

Hallamshire Steel & File Co., Ltd., Hallamshire Works, Sheffield 3, England. Manufacturers of Black & Bright Bars in Alloy & Special Carbon Steels, Wire & Rods, etc. Sole Agents: H. Chokai & Co., Ltd., 106/108, Medows Street, Fort, Bombay.

Huntsman B. (Sheffield) Ltd., Sheffield, England. High Speed and Tool Steel. Sole Representatives: The United Steel Companies (India) Private Ltd., Himalaya House, Hornby Road, Fort.

Johnson Richard & Nephew Ltd., Manchester, England. Mild and High Tensile Steel Wire. Sole Representatives: The United Steel Companies (India) Private Ltd., Himalaya House, Hornby Road, Fort.

Power, Fredrick A. & Sons (Saltley) Ltd., Edgbaston, Birmingham, England. Bright drawn Steel Bars. Sole Representatives: The United Steel Companies (India)Private Ltd., Himalaya House, Hornby Road, Fort.

Shipmans (Sheffield) Ltd., Sheffield, England. Silver Steel and Polished Music Spring Wire. Sole Representatives: The United Steel Companies (India) Private Ltd., Himalaya House, Hornby Road, Fort.

Steel Company of Wales Ltd., London. Agents: Guest, Keen, Williams, Ltd., Wakefield House, Sprott Road, Ballard Estate, Bombay 1.

Summers, John & Sons Ltd., Hawarden Bridge Steel Works, Shotton, Chester, England. Steel Sheets. Sole Representatives: The United Steel Companies (India) Private Ltd., Himalaya House, Hornby Road, Fort.

TINSLEY ROLLING MILLS CO. LTD., Sheffield, England. Manufacturers of Silico Manganese Spring Steel to EN-45A, Quality. Representatives for India: Eastern Trading & Engineering Co., Alice Building, 3rd Floor, 339, Dr. Dadabhoy Naoroji Road, Fort, Bombay.

United Steel Companies Ltd., Sheffield, England. Sole Representatives: The United Steel Companies (India) Private Ltd., Himalaya House, Hornby Road, Fort.

STEEL PLATES

Appleby-Frodingham Steel Co., Scunthorpe, England. Mild Steel Plates for Shipbuilders, Bridge builders, Structural Engineers, Boiler Makers, etc. Steel Angles, Channels, Joists, Tees, and Flats. Sole Representatives: The United Steel Companies (India) Private Ltd., Himalaya House, Hornby Road, Fort.

STEEL PRODUCTS

Crittall Manufacturing Co. Ltd., London. Steel Windows, Doors and Industrial Sashes. Sole Distributors: William Jacks & Co. Ltd., Hamilton House, Graham Road, Ballard Estate.

Firth Cleveland Steel Strip Ltd., Mfrs. of Cold roll, hardened and tempered Steel strips. Sole Agents in India: Alsales Ltd. 9, Wallace Street, Bombay 1.

Firth Co. Ltd., England. Mfrs. of High Carbon boric and Acid Steel wires and other Steel Products. Sole Agents in India: Alsales Ltd., 9, Wallace Street, Bombay 1.

Henry Hope & Sons, Ltd., Steel Windows & Doors Mfrs., Smethwick, Birmingham. Agents: Balmer Lawrie & Co., Ltd., 5, Graham Road, Ballard Estate, Bombay. Phone: 261494 (3 lines). Grams: "BALMER."

Pittsburgh Steel Products Co., Pittsburgh, U.S.A. Distributors: Manekial & Co., 166, Dr. Dadabhoy Naoroji Road, Bombay 1.

Richard Hill Ltd., England. Mfrs. of Steel wire, rods and M. S. Bars. Sole Agents in India: Alsales Ltd., 9, Wallace Street, Bombay 1.

STEEL WOOL

Stewols & Co., King Edward Road, Sewri, Bombay. Agents: Killick Nixon & Co., Private Ltd., Killick House, Home Street, Fort.

STONEBREAKERS & GRANULATORS

Baxter W. H. Ltd., Leeds. Knapping Motion Stonebreakers and Granulators. Sole Agents: Marshall, Sons & Co. (India) Ltd., Marshall's Building, Ballard Road, Bombay 1.

Edgar Allen & Co., Ltd., Sheffield. Makers of High Speed Steels, Heavy C. S. Castings and Metal Working Tools. Agents: Richardson & Cruddas Ltd., Byculla, Bombay 8.

STUD WELDING EQUIPMENT

Crompton Parkinson Ltd., London. Agents: Guest, Keen, Williams, Ltd., Wakefield House, Sprott Road, Ballard Estate, Bombay 1.

SUGAR MACHINERY

A. F. Craig & Co. Ltd., England. Complete Sugar Plant. Sole Distributors: William Jacks & Co. Ltd., Hamilton House, Graham Road, Ballard Estate.

Associated Engineering Manufacturers of Australia Pty Ltd., Bowen Street, Maryborough, Queensland, Australia. Sugar Machinery. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

FAWCETT, PRESTON & CO., LIMITED, Bromborough, Cheshire, England. Representatives: James Finlay & Co. Limited, P.O. Box No. 73, Bombay 1.

SURGICAL DRESSINGS

JOHNSON & JOHNSON (Gr. Britain) Ltd., England. (Medical) Aids. Selling Agents: I.C.I. (India) Private Ltd., P.B. No. 310, Bombay 1.

SURGICAL GOODS AND INSTRUMENTS

I. C. I. LTD., Plastics Division, England. (Surgical Nylon Sutures, etc.) Selling Agents: I. C. I. (India) Private Ltd., Post Box No. 310, Bombay 1.

T. J. Smith & Nephew Ltd., Surgical Dressings 'Elastoplast', 'Gypsona', etc. Sole Agents: J. L. Morison, Son & Jones (India) Private Ltd., Contractor Building, Nicol Road, Ballard Estate, Bombay 1.

Thos. Glover and Son, Ltd., "Verlog" Kneecaps, Anklets etc. Sole Agents: J. L. Morison, Son & Jones (India) Private Ltd., Contractor Building, Nicol Road, Ballard Estate, Bombay 1.

SURVEYING INSTRUMENTS

Carl Zeiss Jena, East Germany. Sole Agents: Ghordandas Desai Private Ltd., Kermani Building, Sir P. M. Road, Bombay 1.

COOKE TROUGHTON & SIMMS LTD., York, England. For Engineers' Block Levels, Gauges, Surveyor's Levels, Theodolites, Tacheometers, etc. Agents: Pioneer Equipment Co. Private Ltd., 139, Medows Street, P. O. Box 1909, Bombay 1. (Phone: 251882). Also at 1, Mangoe Lane, Calcutta 1. (Phone: 231611) and 193, Mount Road, Madras 2. Grams: "PIOMETAL".

TAPE RECORDERS

Simon Sound Service, Ltd., London W. 1, England. Sales Distributors: Eastern Electric & Engineering Co. 127, Mahatma Gandhi Road, Bombay 1.

TELEGRAPH & RADIO COMMUNICATION EQUIPMENT

Great Northern Telegraph Works. Division of the Great Northern Telegraph Co., Ltd., Copenhagen S V, Denmark. Sales Distributors: Eastern Electric & Engineering Co., 127, Mahatma Gandhi Road, Bombay 1.

TELEPHONE EQUIPMENT

Telephone Manufacturing Co., Ltd., Hartell Road, West Dulwich, London. Agents: Hindco, 27, New Queen's Road, Bombay 4.

TELEPHONE, TELEGRAPH AND CARRIER COMMUNICATION APPARATUS

Autelco Mediterranea S A:T.A.P. Milan, Italy. Sales Distributors: Eastern Electric & Engineering Co., 127, Mahatma Gandhi Road, Bombay 1.

Automatic Electric International Corpn., Chicago 7, Illinois, U.S.A. Sales Distributors: Eastern Electric & Engineering Co., 127, Mahatma Gandhi Road, Bombay 1.

Automatique Electrique S.A. Antwerp, Belgium. Sales Distributors: Eastern Electric & Engineering Co., 127, Mahatma Gandhi Road, Bombay 1.

Lenkurt Electric Co., Calif., U.S.A. Sales Distributors: Eastern Electric & Engineering Co. 127, Mahatma Gandhi Road, Bombay 1.

TESTING MACHINES (PHYSICAL)

COATS MACHINE TOOL CO., U.K., for Shore Sclerscopes, Hardness Testers etc. Sole Agents: Pioneer Equipment Co., Private Ltd., 139, Medows Street, P. O. Box 1909, Bombay 1. (Phone: 251882). Also at 1, Mangoe Lane, Calcutta 1. (Phone: 231611) and 193, Mount Road, Madras 2. Grams: "PIOMETAL."

RIDSDALE & CO., U.K., Manufacturers of Sand Testing Equipment. Sole Agents: Pioneer Equipment Co., Private Ltd., 139, Medows Street, P.O. Box 1909, Bombay 1. (Phone: 251882). Also at 1, Manoe Lane, Calcutta 1. (Phone: 231611). and 193, Mount Road, Madras 2. Grams: "PIOMETAL."

SOLUS SCHALL LTD., U.K., for Non-destructive Testing Equipment. Sole Agents: Pioneer Equipment Co., Private Ltd., 139, Medows Street, P. O. Box 1909, Bombay 1. (Phone: 251882). Also at 1, Mangoe Lane, Calcutta 1. (Phone: 231611) and 193, Mount Road, Madras 2. Grams: "PIOMETAL."

TEXTILE ENGINEERS

Allen Beam Co., New Bedford, Massachusetts. Wraper Beams, etc. Sole Representatives: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

Bates Textiles Machine Co., Ltd., Leicester, England. Hosiery Finishing Machinery. Sole Representatives: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

British Northrop Loom Co., Ltd., Daisyfield, Blackburn, England. Automatic Looms. Sole Representatives: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

Cocker Machine and Foundry Co., U.S.A. High Speed Warping & Sizing Machinery. Sole Representatives: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

Devoge & Co., Ltd., Manchester, England. Jacquards, Card Cutting Machinery, etc. Representatives: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

Durrant, G., & Sons, Ltd., Textile Specialists. Sole Representatives: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

Kershaw (H.), & Son, Ltd., Mossley. Roller Cloth, Sizing Flannel, etc. Sole Representatives: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

Lang Bridge Ltd., Accrington. Cotton Bleaching, Dyeing, Printing and Finishing Machinery. Sole Representatives: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

Macadam & Co., Ltd., Manchester. Stamping Paste & Mercine Glaze. Sole Representatives: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

Oldham Rope & Twine Co., Ltd., Oldham. Cotton Rope and Banding. Sole Representatives: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

O'Neill, S., & Sons, Ltd., Paper Cones & Tubes. Sole Representatives: W. H. Brady & Co., Ltd., Veer Nariman Road, Fort, Bombay 1.

Petrie & McNaught Ltd., Rochdale, England. Wool Washing, Carbonising and Drying Machinery, etc. Sole Representatives: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

Rudman & Co., Ltd., F. E., Manchester. Mercine Glaze, Epsoil Softening. Sole Representatives: W. H. Brady & Co., Ltd., 12,14, Veer Nariman Road, Fort, Bombay 1.

Sanderson & Co. (Textile Engineers), Ltd., Manchester, England. Yarn Conditioning Machinery, etc. Sole Representatives: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

Tatham (William) Ltd., Belfield Works, Rochdale, England. Cotton Waste and Woollen Machinery. Sole Representatives: W. H. Brady & Co., Ltd., 12,14, Veer Nariman Road, Fort, Bombay 1.

Tragasol Products Co., Ltd., Hooton. Gum Tragasol and Gum Tragon for sizing and finishing. Sole Representatives: W. H. Brady & Co., Ltd., 12,14, Veer Nariman Road, Fort, Bombay 1.

Universal Winding Co., Providence, U.S.A. Mnfrs. of Textile Winding Machinery, Sole Representatives: W. H. Brady & Co., Ltd., 12,14, Veer Nariman Road, Fort, Bombay 1.

Walrus Fibre Mfg. Co., Ltd., Rochdale, Lancashire, England. Card, Cans, etc. Sole Representatives: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

Whitley E. Gordon, Leeds, England. Woollen & Worsted Finishing Machinery, etc. Sole Representatives: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

Wilson & Ingham. Mirfied Card Clothing, Burnishing and Stripping Brushes. Sole Representatives: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

Woonsocket Napping Machine Co., Woonsocket, U.S.A. Raising Machines. Sole Representatives: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

TEXTILE MACHINERY & EQUIPMENT

Adolph Saurer Ltd., Arbon, Switzerland. Agents: Indequip Private Ltd., Maneckjee Wadia Bldg., 127, Mahatma Gandhi Road, Fort, Bombay 1.

Allis-Chalmers Mfg. Co., Milwaukee, U.S.A. Agents: Indequip Private Ltd., Maneckjee Wadia Bldg., 127, Mahatma Gandhi Road, Fort, Bombay 1.

American Moistening Co., U.S.A. Agents: Indequip Private Ltd., Maneckjee Wadia Bldg., 127, Mahatma Gandhi Road, Fort, Bombay 1.

Armstrong Cork Co., Ltd., Kingsburg, London, N.W. 9. Agents: Roberts, McLean & Co., Ltd., Ilaco House, Sir Phirozshah Mehta Road.

Chas A. Schieren Co., U.S.A. Agents: Indequip Private Ltd., Maneckjee Wadia Bldg., 127, Mahatma Gandhi Road, Fort, Bombay 1.

Creation Textiles, Switzerland. Agents: Indequip Private Ltd., Maneckjee Wadia Bldg., 127, Mahatma Gandhi Road, Fort, Bombay 1.

Cutler Hammer Inc., Milwaukee, U.S.A. Agents: Indequip Private Ltd., Maneckjee Wadia Bldg., 127, Mahatma Gandhi Road, Fort, Bombay 1.

David Gassner & Co., Worcester, U.S.A.—Representatives: Bakubhai Ambalal Private Ltd., Shahibag House, 13, Wittet Road, Ballard Estate, Bombay 1.

Dip. Ing. Holzwart, Bayreuth, Germany. Agents: Indequip Private Ltd., Maneckjee Wadia Bldg., 127, Mahatma Gandhi Road, Fort, Bombay 1.

Emill Adolff, West Germany. Agents: Indequip Private Ltd., Maneckjee Wadia Bldg., 127, Mahatma Gandhi Road, Fort, Bombay 1.

Erhardt & Leimer, Augsburg, West Germany.—Representatives: Bakubhai Ambalal Private Ltd., Shahibag House, 13, Wittet Road, Ballard Estate, Bombay 1.

Giacomo Jucker, Milan, Italy. Agents: Indequip Private Ltd., Maneckjee Wadia Bldg., 127, Mahatma Gandhi Road, Fort, Bombay 1.

Hahn & Kolb Stuttgart, West Germany. Agents: Indequip Private Ltd., Maneckjee Wadia Bldg., 127, Mahatma Gandhi Road, Fort, Bombay 1.

Heberlien & Co., Switzerland. Agents: Indequip Private Ltd., Maneckjee Wadia Bldg., 127, Mahatma Gandhi Road, Fort, Bombay 1.

Hungerford & Terry Inc., Clayton, New Jersey, U.S.A. Representatives: Bakubhai Ambalal Private Ltd., Shahibag House, 13, Wittet Road, Ballard Estate, Bombay 1.

H. W. Butterworth & Sons Co., Bethayres, U.S.A. Agents: Indequip Private Ltd., Maneckjee Wadia Bldg., 127, Mathama Gandhi Road, Fort, Bombay 1.

I. A. Mitchell Ltd., Manchester, U.K.—Representatives: Bakubhai Ambalal Private Ltd., Shahibag House, 13, Wittet Road, Ballard Estate, Bombay 1.

Injecta Ltd., Switzerland. Agents: Indequip Private Ltd., Maneckjee Wadia Bldg., 127, Mahatma Gandhi Road, Fort, Bombay 1.

J. Brookesbank Ltd. U.K. Agents: Indequip Private Ltd., Maneckjee Wadia Bldg., 127, Mahatma Gandhi Road, Fort, Bombay 1.

J. Mac A. King & Co. Ltd., U.K. Agents: Indequip Private Ltd., Maneckjee Wadia Bldg., 127, Mahatma Gandhi Road, Fort, Bombay 1.

Liba Machine Fabricken, Näila, West Germany.—Representatives: Bakubhai Ambalal Private Ltd., Shahibag House, 13, Wittet Road, Ballard Estate, Bombay 1.

Lindemann Maschinenfabrick G. m. b. H., Dusseldorf, Germany. Scrap Sheers & Presses, Hydraulic Baling Presses for Cotton, Jute, etc. Sole Importers: Voltas Limited, Ballard Estate, Bombay 1.

Luwa A. G., Zurich.—Representatives: Bakubhai Ambalal Private Ltd., Shahibag House, 13, Wittet Road, Ballard Estate, Bombay 1.

Mckiernan-Terry Corporation, Dover, New Jersey, U.S.A.—Representatives: Bakubhai Ambalal Private Ltd., Shahibag House, 13, Wittet Road, Ballard Estate, Bombay 1.

Plutte Koecke & Co. Wuppertal-Barman, West Germany. Agents: Indequip Private Ltd., Maneckjee Wadia Bldg., 127, Mahatma Gandhi Road, Fort, Bombay 1.

Reisinger, Austria. Agents: Indequip Private Ltd., Maneckjee Wadia Bldg., 127, Mahatma Gandhi Road, Fort, Bombay 1.

Richard Hough Ltd. Lancashire, U.K. Agents: Indequip Private Ltd., Maneckjee Wadia Bldg., 127, Mahatma Gandhi Road, Fort, Bombay 1.

Rodney Hunt Machine Co., Orange, Massachusetts, U.S.A.—Representatives: Bakubhai Ambalal Private Ltd., Shahibag House, 13, Wittet Road, Ballard Estate, Bombay 1.

Stowaca Fibre & Can Co., Ltd., Moston, Manchester 9. Fibre and Steel Card Cans. Agents: Roberts, McLean & Co., Ltd., Ilaco House, Sir Phirozshah Mehta Road, Fort.

Thomas Josef Heimlach A. G. West Germany. Agents: Indequip Private Ltd., Maneckjee Wadia Bldg., 127, Mahatma Gandhi Road, Fort, Bombay 1.

Trockentechnik, Stuttgart, West Germany.—Representatives: Bakubhai Ambalal Private Ltd., Shahibag House, 13, Wittet Road, Ballard Estate, Bombay 1.

Ulrich Steinemann, Switzerland. Agents: Indequip Private Ltd., Maneckjee Wadia Bldg., 127, Mahatma Gandhi Road, Fort, Bombay 1.

Wicaco Machine Corporation, U.S.A. Agents: Indequip Private Ltd., Maneckjee Wadia Bldg., 127, Mahatma Gandhi Road, Fort, Bombay 1.

TEXTILE & TECHNICAL PUBLICATIONS

NIXON (ALFRED) SON & TURNER, Chartered and Incorporated Accountants, 40, Brazennose Street, Manchester, 2, England. British Representatives for The Indian Textile Journal, (Private) Ltd., Military Square, Fort, Bombay.

TEXTILES

Attenborough, C. W., & Co., Ltd., Leicester, England. Sole Agents: Batlibol, C. J., & Co., 319, Dr. Dadabhoy Naoroji Road, Fort, Bombay.

F. M. Hammesle, Dornbirm, Austria. Sole Agents: Jethalal V. Dave & Co., 295, Masjid Bunder, Bombay 3.

Hield Brothers Ltd., Bradford, England. Sole Agents: Batlibol, C. J., & Co., 319, Dr. Dadabhoy Naoroji Road, Fort, Bombay.

Keith & Henderson, Ltd., London. Sole Agents: Batlibol, C. J., & Co., 319, Dr. Dadabhoy Naoroji Road, Bombay 1.

Moore Johnston & Co. Ltd., England. Sole Agents: Jethalal V. Dave & Co., 295, Masjid Bunder, Bombay 3.

TEXTILES MANUFACTURERS

Dan River International Corporation, 1407, Broadway, New York, N.Y. Cotton, Woollen and Art Silk Piecegoods. Agents Windmere (India) Private Ltd., Sir Vithaldas Chambers, Apollo Street, Fort Bombay.

THERMOMETERS

British Rototherm Co., Ltd., London. Industrial Thermometers. Sole Agents: Marshall, Sons & Co., (India) Ltd., Marshall's Building, Ballard Road, Bombay 1.

TILE & MARBLE MANUFACTURERS

Johnson, H. & R., Ltd., Tunstall. Manufacturers of Glazed Tiles "Crystal" Brand. Agents: A. H. Shah & Co., Private Ltd., Jan Mansion, Sir Phirozshah Mehta Road, Fort.

TOILETRIES

Bronnley, H., & Co., Ltd., London. Makers of high class Soaps and Perfumes and Toilet requisites. Agents: The Anglo-Thai Corporation, Ltd., Ewart House, Bruce Street.

Delavelle (G. B.) Ltd., "Go" Stick Deodorant, etc. Sole Agents: J. L. Morison, Son & Jones (India) Private Ltd., Contractor Building, Nicol Road, Ballard Estate, Bombay 1.

Gala of London Ltd. Nail Colour, Lipsticks, Liplines, etc. Sole Agents: J. L. Morison, Son & Jones (India) Private Ltd., Contractor Building, Nicol Road, Ballard Estate, Bombay 1.

JOHNSON & JOHNSON (Gr. BRITAIN) LTD., England. Selling Agents: I. C. I. (India) Private Ltd., Imperial Chemical House, Ballard Estate, Bombay 1.

Morny, Ltd. Perfumery & Toilet Specialists. Sole Agents: J. L. Morison, Son & Jones (India) Private Ltd., Contractor Building, Nicol Road, Ballard Estate, Bombay 1.

Thomas Christy & Co., Ltd., Glycothymoline, Liquid Lanoline and Zepto Tartar Removing Pencils. Sole Agents: J. L. Morison, Son & Jones (India) Private Ltd., Contractor Building, Nicol Road, Ballard Estate, Bombay 1.

T. J. Smith & Nephew Ltd., "Nivea" Creme etc. Sole Agents: J. L. Morison, Son & Jones (India) Private Ltd., Contractor Building, Nicol Road, Ballard Estate, Bombay 1.

TOOLS MFRS.

ACKERMANN U. SCHMITT K. G., Postfach 28, Stuttgart, 13, Germany, Electric Tools. Representatives: James Finlay & Co., Limited, P.O. Box No. 73, Bombay 1.

British Tool & Engineering Co. Ltd., Sole Agents: Elliott Waud & Hill Private Ltd., 1-2 Lakshmi Bldg., Sir P. M. Road, Bombay 1.

BROOKE TOOL MFG., CO. LTD., England. Mfrs. of 'Cardinal' brand small tool for Factories. Sole Agents in India: Shah Traders, 229, Masjid Bunder Road, Bombay 3. Phone: 39604.

Charles Thomas & Co. Ltd., Wainwright Street, Astar, Birmingham 6. Agents: Soho House, Lohar Street, Bombay 2.

Cumbrian Tools Ltd., England. Sole Agents: Elliott Waud & Hill Private Ltd., 1-2, Lakshmi Bldg., Sir P. M. Road, Bombay 1.

Elliott-Lucas Ltd., England. Sole Agents: Elliott Waud & Hill Private Ltd., 1-2, Lakshmi Bldg., Sir P. M. Road, Bombay 1.

English Steel Corporation Ltd., Sheffield. Engineers' Small tools, files, Hacksaw Blades, etc. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort.

FRITZ KLAIBER K. G., SCHWENNINGEN/NECKAR, Germany. Manufacturers of Tools & Cutter Grinders, Surface Grinders etc. Agents: Gaytee & Co. Janmabhoomi Chambers, Fort Street, Bombay 1. Phone: 263449. Grams: "IMPENG."

Hack Saws Ltd., England. "Aven" Hacksaw Blades, Frames and Metal Cutting Band Saws. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Ideal Machine Tools & Eng. Co. Ltd., England. Precision Tools. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

James Neill & Co., (Sheffield) Ltd., England. Sole Agents: Elliott Waud & Hill Private Ltd., 1-2 Lakshmi Bldg., Sir P. M. Road, Bombay 1.

Job Wheway & Son Ltd., England. Electrically Welded Steel Chains, Shackles. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Nuckey Scott & Co. Ltd., England. "Warrior" Brand Taps & Dies. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Peter Stubs Ltd., England. Files, Gravers, Scrapers, Tool Holder Bits, Tool Steels. Agents: Armstrong Smith Private Limited, 1, Sir P. M. Road, Post Box No. 185, Bombay 1.

Thor Hammer Co. Ltd., England. Sole Agents: Elliott Waud & Hill Private Ltd., 1-2 Lakshmi Bldg., Sir P. M. Road, Bombay 1.

Tom Carrington & Co. Ltd., England. Sole Agents: Elliott Waud & Hill Private Ltd., 1-2 Lakshmi Bldg., Sir P. M. Road, Bombay 1.

Turton Bros. & Matthews Ltd., Sheffield. Agents: Guest, Keen, Williams, Ltd., Wakefield House, Sprott Road, Ballard Estate, Bombay 1.

VEERKOOPKANTOOR VANDER HEEM N. V., Maanveg 256, The Hague, Holland. Electric Drills. Representatives: James Finlay & Co., Limited, P.O. Box No. 73, Bombay 1.

Wm. Gilpin Senr. & Co., (Tools) Ltd., England. Sole Agents: Elliott Waud & Hill Private Ltd., 1-2 Lakshmi Bldg., Sir P. M. Road, Bombay 1.

TOOL STEEL

B. K. Morton & Co., Ltd., Sheffield, England. Representatives: D. M. Harishanker Narbheram & Co., 94, Kansara Chawl, Kalbadevi Road, Bombay 2.

Horbach & Schmitz G.m.b.H. Koln, W. Germany. Representatives: D. M. Harishanker Narbheram & Co., 94, Kansara Chawl, Kalbadevi Road, Bombay 2.

Moss & Gamble Brothers Ltd., Sheffield, England. Agents: Kaycee Industries Ltd., Kamani Chambers, Nicol Road, Bombay 1.

Rayo Steel Works, Sheffield, England. Representatives: D. M. Harishanker Narbheram & Co., 94, Kansara Chawl, Kalbadevi Road, Bombay 2.

WALTER SPENCER & CO., LTD., Sheffield, England. Manufacturers of Highspeed Steel, Alloy Tool Steel, Carbon Tool Steel, etc., etc. Milling Cutters, Twist Drills, Reamers, Slitting Saws, Files, Carbide Tipped Tools, Lathe Tools, etc. Agents: Gaytee & Co., Janmabhoomi Chambers, Fort, Bombay. Phone: 263449. Grams: "IMPENG."

TRACTION GEARS AND UNITS

Wiseman, Alfred & Co. Ltd., Glover Street, Birmingham 9. Sole Agents: Heatly & Gresham Ltd., 9, Forbes Street, Fort.

TRACTORS & PLOUGHS

International Harvester Export Co., Chicago, U.S.A. Agricultural Machinery and Implements, McCormick-Deering Tractors, (Agricultural and Industrial). Sole Importers: Voltas Limited, Chinchpokli Road, Bombay 12.

John Fowler & Co., (Leeds) Ltd., Leeds. Diesel Crawler Tractors from 40 BHP to 150 BHP. Sole Agents: Marshall, Sons & Co. (India) Ltd., Marshall's Building, Ballard Road, Bombay 1.

Marshall, Sons & Co., Ltd., Gainsborough. Diesel Tractors (Wheel Types). Sole Agents: Marshall, Sons & Co. (India) Ltd., Marshall's Building, Ballard Road, Bombay 1.

Oliver International, S.A., Illinois, U.S.A. Oliver Tractors and Agricultural Implements. Sole Distributors: William Jacks & Co. Ltd., Hamilton House, Graham Road, Ballard Estate.

TRAIN LIGHTING BATTERIES & ACCUMULATORS

Pritchett & Gold & E. P. S. Co. Ltd. Manufacturers of Accumulators of all types, Head Office: 50, Grosvenor Gardens, Victoria, London. Sole Agents: Heatly & Gresham Ltd., P. O. Box No. 1774, Bombay. Telephones: 255756 & 255757. General Manager for India: Niren N. Ghose, J.P., D.F.H. (Lond.), A.M.I.E.E.

TRANSFORMERS

BRYCE ELECTRIC CONSTRUCTION CO., LTD., Kelvin Works, Hackbridge, Wallington, Surrey, England. Representatives: James Finlay & Co., Ltd., P.O. Box No. 73, Bombay 1.

Gresham Transformers Ltd., Hanworth. Transformers. Sole Agents: Marshall, Sons & Co. (India) Ltd., Marshall's Building, Ballard Road, Bombay 1.

Hitachi Ltd., Tokyo, Japan. Transformers. Sole Distributors: William Jacks & Co. Ltd., Hamilton House, Graham Road, Ballard Estate.

Yorkshire Electric Transformer Co., Ltd., Dewsbury. Transformers. Sole Agents: Marshall, Sons & Co. (India) Ltd., Marshall's Building, Ballard Road, Bombay 1.

Zenith Electric Co. Ltd., London, N.W. 2, England. Sales Distributors: Eastern Electric & Engineering Co., 127, Mahatma Gandhi Road, Bombay 1.

TRAVELLING REQUISITES

Fibre Case Co. Ltd., 36 S. Peckham Road, London, S.E. 5. Agents. Soho House, Lohar Street, Bombay 2.

TUBE WELL DRILLING AND BORING EQUIPMENT

English Drilling Equipment Co., Ltd., London. Sole Agents: Killick, Nixon & Co. Private Ltd., Killick House, Home Street, Fort.

TYGAN FLYSCREENING

Fothergill & Harvey Ltd., Manchester. Agents: Killick, Nixon & Co. Private Ltd., Killick House, Home Street, Fort.

TYGLAS INSULATION

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TYPEWRITERS, CALCULATORS, ADDING MACHINES & TELEPRINTERS

ING. C. OLIVETTI & C. S.P.A., Ivrea, Italy. Typewriters, Calculators, Adding & Listing Machines. Representatives: Latham Abercrombie & Co. Private Ltd., Forbes Building, Home Street, Fort.

OLIVETTI TELESCRIVENTI, Via Viotti 9, Torino, Italy. Teleprinters. Representatives: Latham Abercrombie & Co. Private Ltd., Forbes Building, Home Street, Fort.

Paillard Ltd., Yverdon (Switzerland). Hermes Typewriters. Sole Importers: Voltas Limited, Ballard Estate, Bombay 1.

SERIO S. P. A., MACCHINE PER SCRIVERE E DA CALCOLO, Via Mellerio 1, Milano, Italy. Everest 10 Key Calculating Machines. Representatives: Latham Abercrombie & Co., Private Ltd., Forbes Building, Home Street, Fort.

UPHOLSTERY

ALBRIGHT & WILSON LTD., London, (Calgon). Selling Agents: I. C. I. (India) Private Ltd., P.B. No. 310, Bombay 1.

I. C. I. LTD., Leather cloth Division, England. "REXINE" & "VYNIDE" Leather cloth. Selling Agents: I. C. I. (India) Private Ltd., Imperial Chemical House, Ballard Estate, Bombay 1.

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VACUUM CLEANERS & FLOOR MAINTENANCE MACHINES

Breuer Electric Mfr. Co., Chicago 6, Illinois, U.S.A. Sales Distributors: Eastern Electric & Engineering Co., 127, Mahatma Gandhi Road, Bombay 1.

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Ernest Flitsch, Stuttgart, Germany. 'Flica' Expansion Valves. Agents: C. Sethia & Co., 59, Forbes Street, Bombay 1.

Ham Baker & Co., Ltd., England. Valves, Penstocks Fittings, etc. Agents: John Fleming & Co., Private Ltd., Bastion Road, Fort, Bombay 1. Phone: 261153.

J. Blakeborough & Son, Ltd., Brighouse. Makers of Valves all types, and other Waterworks Appliances. Agents: Richardson & Cruddas Ltd., Byculla, Bombay 8.

Meynell & Sons Ltd., Wolverhampton, England. Agents in India: R. Ochavlal & Co., 86, Nagdevi Street, Bombay 3.

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Fenner, J. H., & Co., Ltd., Marfleet, Hull, England. V-Belts and V-Belt Drives. Agents: Greaves, Cotton & Crompton Parkinson Private Ltd., 1, Forbes Street, Fort.

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Enicar, S. A., Switzerland. Representatives: Phoenix Watch Co., 166, Dr. Dadabhai Naoroji Road, Bombay 1.

Wehrle Uhrenfabrik, G.m.b.H., West Germany. Representatives: Phoenix Watch Co., 166, Dr. Dadabhai Naoroji Road, Bombay 1.

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British Pitometer Co., Ltd., London. Venturi Meters and Recorders. Agents: Glenfield & Kennedy, Ltd., 198, Jamshedji Tata Road, Fort, Bombay 1.

C. G. E., Liege, Belgium. Agents: India Metal Agencies, P. Box No. 1966, Bombay 1.

Cleveland Meters Ltd., Yorkshire. Makers of Water Meters. Agents: Richardson & Cruddas, Ltd., Byculla, Bombay 8.

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Taylors of London Ltd., London, England. Water Meters, Waste & Cocks Fittings. Agents: John Fleming & Co. Private Ltd., Bastion Road, Fort, Bombay 1. Phone: 261153.

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Drambuie Liqueur Co. Ltd., 12, York Place, Edinburgh 1. Sole Distributors: Spencer & Co., Ltd., Spencer's Building, Forjett Street, Bombay 26.

Martell & Co., Cognac, France. Sole Distributors: Spencer & Co., Ltd., Spencer's Building, Forjett Street, Bombay 26.

Wm. Gaymer & Co., Ltd., Attleborough-Norfolk, England. Sole Distributors: Spencer & Co., Ltd., Spencer's Building, Forjett Street, Bombay 26.

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Gem Brushes (Luson) Ltd., Gem Works, Minerva Road, Park Royal Road, London, N.W. 10. Sole Agents: Datson, Raviraj & Co., 43, Tamarind Lane, Fort, Bombay. Phone: 39333.

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Pittsburgh Steel Products Co., Pittsburgh, U.S.A. Distributors: Manekial & Co., 166, Dr. Dadabhoy Naoroji Road, Bombay 1.

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Thos. Holdsworth, & Sons Ltd., Drighlington, England. Sole Agents in India: Anil Private Ltd., 57 Stock Exchange, New Building, Apollo Street, Fort, Bombay 1.

Whitecross Co. Ltd., England. Wire Ropes. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

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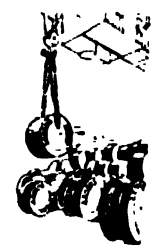
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Agents for the Cunard Steamship Co. Ltd., and also for Runciman Shipping Co. Ltd., Runciman (London) Limited, Lamport & Holt Line Limited, Mungo, Campbell & Co. Ltd., J. & J. Denholm, Limited, Donaldson Line Limited.

ANDHERI METAL REFINERY & FOUNDRY, Buyers and Refiners of Precious & Non-ferrous metals' drosses, sweeps, residues, slags and ashes. Chandi Karkhana, Mogra, Post Box No. 24, Andheri, Bombay 41. Phone No. 80247. Grams: "RUPAWALA."

ANDREW YULE & CO. LTD., 32, Nicol Road, Ballard Estate, Post Box No. 293.

Code used: Bentley's Second Phrase Code.

Tel. Address: "YULETIDE" Bombay.

Telephone No. 261355—Office.

,, No. 263054—Personal.

Calcutta—8, Clive Row, Calcutta 1.

Telegraphic Address: "Yuletide," Calcutta.

London—Yule, Catto & Co., Ltd., Orient House, New Broad Street, London, E.C. 2.

Telegraphic Add.: "Yuletide," London.

Anglo-American Dyestuffs Corporation (Private) Ltd., Importers & Stockists of Chemicals & Dyestuffs and Copper Printing Rollers, Prospect Chambers, Hornby Road, Fort. Tel: 254903.

ANGLO-THAI CORPORATION, LTD. (Ewart Latham Branch).

Ewart House, Bruce Street, Bombay.

Branches: Bombay, Bangkok, Singapore, Penang and Kuala Lumpur.

Telegraphic Add.: "Ewart," Bombay.

Tel. No. 25-2261 (3 lines).

Manager: G. A. D. Porter.

Assistants: -

I. W. Revell (Signs *per pro*),

V. A. Castellino. ,,

Civil Engineering Dept. Manager:—N. H. Taylor.

Codes used: Bentley's, Acme and "New Standard" (half-word).

Branch Managers:—

The Great Eastern Life Assurance Co., Ltd.

Managing Agents & Secretaries: Tyresoles Concessionaires Private Ltd., Recondo Private Ltd.

ANIL PRIVATE LTD., Importers, Exporters & General Merchants, 57, New Stock Exchange Building, Apollo Street, Fort, Bombay 1. Phone: 251153-251871. Grams: "PRAMILA."

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Steel, Tool Steel, Wires, Machinery, etc.

Exporters of:

Scraps, miscellaneous articles, etc.

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Representatives of Thimonnier & Co., France.

Anupam Electric Co., 24B, Hamam Street, Bombay 1.

Apex Corporation, Cardboard box mfrs. 151, Upper Duncan Road, Bombay 8.

Apex Traders, Importer, Exporter & Commission Agent, Advani Chambers, Sir Phirozshah Mehta Road, Fort.

Aras & Aras, Rating Surveyors and Municipal Tax Consultants, 24, Dalal Street, Bombay 1.

Arc Braser, The, Welding Engineers and Contractors, 84, Foras Road, Bombay 8.



ARDESHIR B. CURSETJEE & SONS (PRIVATE) LTD., Stevedores, Dubashes and Clearing & Forwarding Agents, 6, Rampart Row, Fort, Bombay. Tel. Address: "Greyhound". Phone Nos. 253103, 252543 & 254077.

ARDESHIR, D., & CO., Importers and Exporters of Bristles, Behramji Mansion, Sir Phirozshah Mehta Road, Bombay. Tel. Add. "Dardeshir".

Ardesir Hormusji Dinshaw & Co., Solicitors and Notaries Public, 113, Mahatma Gandhi Road, Fort, Bombay.

Arlabs Private Ltd., India House, Fort Street, Bombay 1.

ARMSTRONG SMITH PRIVATE LTD., Gresham Assurance House, Sir Phirozshah Mehta Road, Bombay 1. Postal Address: P.O. Box No. 185, Bombay. Telegraphic Address "ADNERS", Bombay Telephones: 255171 2.

Engineering Department

. Western Rly. Stores Lane, Haines Road, North, Mahalaxmi, Bombay 11. Telephone: 40229.

Branches at -

Calcutta 59, Chowringhee, Calcutta 20. P.O. Box No 787 Calcutta Telegraphic Address, "ARMSMIT" Calcutta Telephone: 47-1902

Madras: Catholic Centre, 2, Armenian Street, Madras 1. P.O. Box No. 1618, Madras Telegraphic Address: "ARMSMIT" Madras Telephone: 4911 (4 lines).

Delhi: 'Munshi Niketan', Asaf Ali Road, New Delhi P.O. Box No. 670, New Delhi. Telegraphic Address: "ADNERS", New Delhi. Telephone: 26749.

Directors: F. H. Kemple, *Chairman*, L. Armstrong Smith, A.C.I.S., G. S. Royshen, D.F.H. (Lond.), J. P. Kharas, B.E., A.M.I.E., Hon. R. D. Campbell.

Manager: R. Barreto.

Secretary: S. R. A. Aiyar.

Assistants: U. G. Kalyanpur, R. S. Krishnan.

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Hindustan Klockner Switchgear Private Ltd., Direct-on-Line Push-Button Operated Starters, Starters with Isolators, Panel Mounting Starters, Starters for Remote Control, Contactors, Direct-on-Line Reversing Contactors, Automatic Star-Delta Starters Push-Button Stations, Remote Control Stations, Limit switches etc.

Saru Smelting & Refining Corporation Private Ltd., All types of silver Brazing Solders.

Shevarov Bauxite Co. Private Ltd., Emery Powder.

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E. Ruttonsha Private Ltd. Distributors for "RI" Battery Chargers for West Bengal Bihar, Orissa, Assam

Orient General Industries, Electro Motors Sole Distributors for U. P. Rajasthan, Delhi Punjab, Himachal Pradesh, PEPSU and Jammu & Kashmir.

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Aromatic Products & Chemicals Private Ltd., Importers of Essential Oils, Aromatic Chemicals & Perfumery Raw Materials, 42 Prospect Chambers Annexe, Dr Dadabhai Naoroji Road, Fort, Bombay. Phone: 253151. Grams: "DISCOVERY"

ARTBANGLE PRIVATE LIMITED, Manufacturers of Celluloid spectacle Frames, 204, Dr Dadabhoy Naoroji Road, Fort. Phones 26-1144, 15-17, Noble Chambers, Parsee Bazar Street, Bombay 1 Phone: 254081 Factory at Village Road Kandivli. Phone: 84186. Grams: "Artbangle"

ARTHUR IMPORT EXPORT CO., 166, Hornby Road, Fort, Bombay 1. Tel. No. 262276. Tel. "FABYARN", Bombay.

Branches at:—

Ludhiana, Amritsar, and Coimbatore. Covering whole of India

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Cotton, Woollen, Rayon Yarn piecegoods, Staple Fibre, Raw Cotton, Sugar, Machinery, Iron & Steel, Chemicals, Heavy plants & Equipment.

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Indian Cotton piecegoods, Cotton Yarns, Tea, Coffee, Oilseeds, Jute and other Indian Produce, Hosiery, Readymade garments, footwear etc.

"Artistic" Leather Goods Manufacturers, Manufacturers of Ladies Handbags, No. 2, Phiroz Building, Apollo Pier Road, Fort, Bombay 1.

Artytoys, Toys and Packing Cases Mfrs., Sir Ratan Tata Road, Tardeo, Bombay 7.

Arvind & Co., Insurance Agents, Bombay Mutual Building, Sir Phirozshah Mehta Road, Fort, Bombay. Agents for Indian Trade & Gen. Ins. Co., Ltd. Tel. Address: "Selection." Phone No. 263232.

ARVINDA TRADING CO., PRIVATE LTD., Importers, Exporters & Manufacturers' Agents, Mill Stores, Colours, Chemicals, Papers, China Clay and Tallow, 105, Apollo Street, Fort, Bombay. Tel. Address: "Radiant". Phone No. 251013. Managing Director: R. P. Patel.

Aryan Brush Co., Ltd., Manufacturers of Brushes. Lentin Chambers, Dalal Street, Fort, Bombay.

ASAHI CHEMICAL DISTRIBUTING COMPANY, National Insurance Building, 1st Floor, 27, Bastion Road, Fort, Bombay. Phone: Office 263708 & Residence 89211. Grams: "ASAHIBEM". Sole Distributors of Asahi 'BEMSILKIE' yarns (Asahi Bemberg).

Asave Mehta & Co., Textile machinery, Machines & Spares. 24/B, Raja Bahadur Compound, Hamam Street, Fort.

ASBESTOS CEMENT (Private) LIMITED

Head Office: Mulund, Bombay.

Branches: Calcutta, P.O. Box 374. Madras, P.O. Box 350. Podanur (Coimbatore Dist.). New Delhi, 1st Floor, 4/23-B, Asaf Ali Road.

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Manufacturers and Distributors of "EVEREST" and "CROWNIT" Asbestos-Cement Building Products, Rainwater and Soil Pipes, Pressure Pipes, Gutters and Fittings.

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Chairman, H. Hanson; *Managing Director*, W. H. Rooksby; *Directors*, J. E. Hutton, N. Dandeker, A. A. S. Rao, S. K. Swami.

Telegraphic Address: "BIGSIX", Mulund, Calcutta, Madras, Podanur, Kymore and New Delhi.

Telephone Numbers:

Mulund — 67993/4/5.
Calcutta — 45-2001/2/3.
Madras — 86209.
Podanur — 380 Coimbatore.
New Delhi — 27648.
Kymore — Katni—12.

ASBESTOS & ENGINEERING STORES, THE, Western India House, Sir Phirozshah Mehta Road, Fort, Bombay. Agents for Tuck & Co., Ltd., London. Oldest Manufacturers of Engine Packings and Jointings. H. Windsor & Co., Ltd., London. Manufacturers of special Acid resisting paints and lining materials. "Kenseric" Products Co., Boiler and Steam Pipe and general insulation materials. Tel. Address: "KENERIC". Phone: 262814.

ASBESTOS MAGNESIA & FRICTION MATERIALS LTD. (Incorporated with limited liability in England).

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Branches: Calcutta and Madras. Telegrams: "ASMAFRIC".

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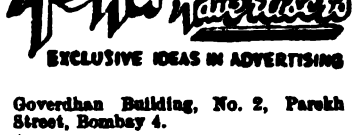
J. W. Roberts Limited, Leeds, England.

Turners Asbestos Cement Co., Ltd., (Electrical Insulation Dept.), Manchester, England.

ASBESTOS PACKING & MANUFACTURING CO., 15, Bruce Street, Fort, Bombay 1. Phone: 251605.

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Asgarali Nuruddin & Co., Pipe Fittings, Sanitaryware, Hardware Merchants, 95, Nagdevi Street, Bombay 3.



Goverdhan Building, No. 2, Parekh Street, Bombay 4.

Asha Scientific Company, Lotlikar Mansion, 503, Girgaum Road, Bombay 2. Telegrams: "ASHACOM."

ASHLAND OIL COMPANY (INDIA).

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Proprietor: Mr. J. R. Scott.

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Branch Manager: Mr. K. C. Jagtiani.

Madras Office: 1/6, Second Line Beach.

Branch Manager: Mr. P. S. Ranganathan.

Tel. Address: "VALVOLINE".

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Directors:—Mr. Dharamsey M. Khatau (*Chairman*), Sir Purshotamdas Thakurdas, K.B.E., C.I.E., Sir Chunilal Mehta, K.C.S.I., Mr. Ambalal Sarabhai, Mr. J. E. D. Tata, Sardar Barkat Hyat Khan, Mr. M. M. Amersey, Mr. Pratapsinh Mathuradas, Mr. S. Moolgaokar, Mr. B. K. Garg, Mr. E. D. Sheppard, Mr. P. S. Mistry, Mr. K. G. Milne, Mr. K. C. Bakhle, Khan Muhammad Inamullah Khan, I.S.E., Mr. U. N. Mahida, Mr. A. N. Haksar, Mr. B. K. Chatterjee, Mr. S. L. Kakar, Mr. Tricumdas Dwarkadas.

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Managing Agents:—Cement Agencies (Private) Ltd., Cement House, 121, Queen's Road, Bombay. Tel. Address "ACCAGENCY".

Directors:—Mr. R. D. Sheppard (*Chairman*), Mr. Dharamsey M. Khatau, Mr. S. Moolgaokar, Mr. P. S. Mistry, Mr. N. Dandeker, Mr. L. Sawhny, Dr. R. R. Hattiangadi, Mr. P. K. Mistry.

Managing Director:—Mr. N. Dandeker.

Executive Officers:—Mr. B. N. Reporter, Mr. K. E. Coorlawala, Mr. Ranvir Singh Khosla.

Associated Corporation of Industries (India) Ltd., "Commerce House", Currimbhoy Road, Ballard Estate, P.O. Box No. 40A, Bombay 1.

ASSOCIATED ELECTRICAL INDUSTRIES (INDIA) PRIVATE LTD., Indian Mercantile Chambers, Nicol Road, Ballard Estate, Post Box No. 484. Telephone Nos.: 26-1231, 26-1232, 26-1233. Tel. Address: "Mainland."

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Associated Electrical Industries Mfg. Co. Private Ltd.

Birlec Ltd.

British Thomson-Houston Co., Ltd.

Ferguson, Pailin Ltd.

International Refrigerator Co., Ltd.

Metropolitan-Vickers Electrical Co., Ltd.

Metropolitan-Vickers GRS. Ltd.

Newton Victor Ltd.

Siemens Edison Swan (Export) Ltd.

Sunvic Controls Ltd.

Agencies—

Aluminium Union Ltd.

Head Office: Calcutta. Offices at Bombay, Bangalore, Coimbatore, Madras and Nagpur. Managing Director: J. Nicholson; Director & Manager, Bombay office: J. Carey-Brown, B.Sc., M.I.E.E.; *Engineers:* D. T. Mahajan, B.Sc. (London), A.C.G.I., S. P. Divgi, B.Sc. (Hons.), D. G. Goverdhan, M.Sc., D. W. Kerkar, B.E. (Elec.), M. K. Ajwani, B.Sc. (Hons.); *Assistant Engineers:* B. Bhatnagar, B.Sc., T. Sridhri, B.Sc.

ASSOCIATED IMPORTERS, Himalaya House, Palton Road, Bombay 1. Phone: 261994 Grams: "SECOTINE". H. O.—55/45, Canning Street, Calcutta-1 Phone: 343915 Grams: "Glucose". Sub-Distributors: Chaspfizer & Co., Inc., U.S.A., Bombay, Southern Rajasthan, New Madhaya Pradesh and Hyderabad.

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Phone: 252688

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Head Office—92, Cheapside, London.

Bombay Branch—Dougall Road, Ballard Estate. *Manager:* E. M. Smythe.

Atlas Engineering Corporation, Air Conditioning & Refrigeration Engineers. Authorised dealers for 'Chrysler-Air-Temp' Equipment. Importers & Stockists of Refrigeration Equipment & Accessories. Kitab Mahal, 192, Dr. Dadabhai Naoroji Road, Bombay 1. Phone: 22320, Grams: "ICYCOOL".

Atlas Engineering Co., Stockists of Machine Tools, Oil Engines, Woodworking Tools, Saws and Machines. Crescent Chambers, Tamarind Lane, Fort, Bombay.

Aurungabad Mills Ltd., Empire House, Dr. Dadabhoy Naoroji Road, Fort, Bombay. Tel. Address: "Ellorafabs".

Auto Agency, Importers of Automobile Parts & Accessories. Congress House, Vithalbhai Patel Road, Bombay 4.

Autocars Ltd., Automobile Engineers. Office & Workshop.- 43, Queen's Road, Bombay 2. Tel. Address: "AUTOCARS."

Auto-Equipment Ltd., Opera House Tram Terminus, Bombay 4. Direct Importers of Automobile Parts and Accessories.

Autogenous Welding & Repair Co. Ltd. Welding Specialists & Heavy Machinery Repairers. 63, Fergusson Road, Bombay 13.

AUTOMACHINES (INDIA) PRIVATE LTD., Engineers, Merchants, Industrial Consultants and Direct Importers of Workshop Machinery. 111-A, Mahatma Gandhi Road, Fort, Post Box No. 1853, Bombay 1 Telephone No. 25-4023. Grams: "WETOIL".

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AUTOMATIC ELECTRIC DEVICES COMPANY, "Rectifier House", Naigaum Cross Road, Bombay 31. Grams: "AUTOMETERS". Electrical Engineers & Manufacturers of Power Transformers—Oil & Air Cooled, Constant Voltage Transformers Line Voltage Correctors, Automatic & Manual, Saturable Reactors, 'Dimmerstat' continously variable Auto Transformers, Magnetic Amplifiers, Selenium Rectifier Plates & Assembled Units, AC/DC Conversion Units, Telephone Exchange Power Supplies, Cinema Arc Lamp Power Supplies, Battery Chargers, Electroplating Rectifiers, Instrument Transformers, Switchboard & Portable Voltmeters & Ammeters, Frequency meters, Synchroscopes.

Avery Company of India Private Ltd., The (Incorporated in India), Weighing, Counting and Testing Machine Suppliers. Head Office: 28/1, Waterloo Street, Calcutta. Area Office and Repair Department: 16, Dougall Road, Ballard Estate, Bombay. Godown—St. Mary's Road, Mazagon, Bombay. *Area Manager, Western India*—T. L. Foxcroft. *Office Manager*—F. Saldanha. *Area Service Supervisor*—J. P. Ford. *Engineer*—G. R. D. Harper. Tel. Address: "Weighing." Phone No. 26-3974/5. Branch Offices, Ahmedabad—2069, Raikhad, Hyderabad, 889, Imperial Post Office Rd. Phone: 4235. British Offices and Works—W. & T. Avery, Ltd., Soho Foundry, Birmingham. Sole Agents for India, for Avery-Hardoll, Ltd., Petrol Pumps.

Ayurvedashram Pharmacy Ltd., Dealers in Ayurvedic Medicines, 202, Girgaum Road, Bombay 4.

AZAD BRUSH CO., Manufacturers of Industrial, Textile and Toilet Brushes, Madhavdas Pasta Road, Dadar, Bombay 14. Phone: 61663. Grams: "BRUSHAZAD".

Babsengineers, Babs Corner, 24, Gunbow Street, Bombay 1. Machinery mfrs.

B-Tex Ointment Manufacturing Co., 4, Bapu Khote Street, Bombay 3.

B. A. & BROTHERS, Manufacturing Chemists, Drugs & Pharmaceutical Distributors. 98, Princess Street, Bombay 2. Tel. Address: 'Babuline'. Phone: 22939. Branch at Calcutta. 2 & 3, Clive Row. Tel. Address: 'Babuline'. Phone No. 5940. Station Road, Patna and Pan Bazar, Gauhati, Assam. Grams: 'Babuline'; and Buxi Bazar, Cuttack.

B. B. Electric & Auto Stores, Direct Importers of Electrical and Insulating Materials, 89, Princess Street, Bombay 2.



Phone No. 29990. Grams: "ALEKIDEAL".

B. Naraindas & Co., Exporters & Importers, Court House, Carnac Road, Bombay 2.

B. Trikamlal & Co. Private Ltd., 196, Princess Street, Bombay 2. Ball-bearings merchants.

BABCOCK & WILCOX OF INDIA (PRIVATE) LTD., 16, Queen's Road Estate, Bombay 1. Manufacturers of the Babcock and Wilcox Patent Water Tube Boiler, Superheaters, Mechanical Stokers, Steam Piping, Steel Chimneys, Coal Conveyors, Electric Cranes and Oil Firing Installations, Pulverized Fuel Installations. Head Office in India:—Wallace House, 4, Bankshall Street, Calcutta.

Managing Director: J. M. Marks.

Manager in Bombay: A. K. Bose.

Codes used:—Acme, Bentley's Complete Phrase and Private. Tel. Address: "Boiler." Phone No. 241233.

London Office—Babcock House, 209 to 225, Ruston Road, London N.W.-1.

Babulal & Co., Milkgin Stores & Pipe fittings. 26 Nagdevi Cross Lane, Bombay 3.

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Exporters of: Cotton and Rayon Textiles, Raw Cotton and Cinema Films, etc.

Sole Agents for India for: Pagoda Brand Saccharine manufactured in Czechoslovakia.

Bakelite (India) Private Ltd., India House, Fort Street, Bombay 1.

BAKER, A. M., & CO., Hardware Tools, Mill & Engineering Stores Merchants, Govt. & Rly. Contractors, Also Fire Fighting Equipment. 218, Nagdevi Street, Bombay 3. Phone: 30443. Grams: "LEADPIPES".

Baker Brothers, Enamels, Varnishes, Plastic & Cellulose Lacquers, Fine Chemicals and their Thinners. 31, C. P. Tank Road, Bombay 4 Phone No. 72621. Grams: "BAKERCOLOR."

BAKER, M., & COMPANY, Dealers in Paints, Varnishes, Enamels, Lacquers, Brushes, Paint Spraying Equipments, etc. Head Office: 35, Nagdevi Street, Bombay 3. Tel. Address: "Multitrade". Phone No. 34212.

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Post Box 1081, Bombay.

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General Mgr. & Secretary: S. Chowdhary.

Tel. Add.: "Cristolite." Phones: Works 42023 (3 lines), Administration and Finance Offices and Show Room: No. 261271(3 lines). P. O. Box 85.

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Bombay Safe Deposit Company, Ltd., Forbes Building, Home Street, Fort. Directors: Sir Purshotamdas Thakurdas, K.B.E., C.I.E.; Sir Jamsetjee Jejeebhoy, Bart.; F. H. Kemple (*ex-Officio*); The Hon. R. D. Campbell, and Mr. M. R. Chinoy. Phone No. 268083.

Agents:—Forbes, Forbes Campbell & Co. Private Ltd., Forbes Building, Home Street, Fort, Bombay.

BOMBAY SAMACHAR, THE, "Red House," Horniman Circle, Bombay. Proprietors: The Bombay Samachar Private Ltd. Phone No. 255531. Tel. Address: "Samachar." G.P.O. Box No. 676, Bombay.

Bombay Scientific Glass Industries, Private Ltd., The, Manufacturers of all kinds of Glass Ampoules, Test Tubes, Vials, Transfusion Bottles and all sorts of Laboratory apparatuses, etc. Rustom Building, 2nd floor, Veer Nariman Street, Fort, Bombay.

BOMBAY SENTINEL, THE, "Red House," Horniman Circle, Fort. Proprietors: The Bombay Associated Newspapers Private Ltd. Tel. Address: "Sentinel." Phone No. 255531. G.P.O. Box No. 984, Bombay.

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Telephone Nos.: 261741/42.

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Local Office: Electricity House, Santa Cruz (East).

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Boyce & Co., 23, Fort Street, Fort, Bombay. Phone No. 268910. (Army Contractors, Mines & Minerals & General Merchants and Cinema Proprietors, at Belgaum).

BRACEWELL PRIVATE LTD., J. Importers and Dealers in Textile machinery such as, Winding, Warping, Yarn and Cloth Singeing, drying and Processing machines, Magree Building, 50/56, Custom House Road, Fort, Bombay. Phone: 268062. Grams: "WELLBRACE," Bombay.

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J. K. S. Nicholson, *Proprietor*.

Tel. Address: "Breul." Phone No. 26398/2/3 (3 lines) Post Box No. 27.

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British Commonwealth Insurance Co., Ltd., Gresham Assurance House, Sir Phirozshah Mehta Road, Fort. Phone No. 255088.

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Head Office:—BOMBAY: Imperial Chemical House, Ballard Estate, Bombay 1. Post Box No. 1341. Phone No. 26-3138 (2 lines).

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British India Press (Props.: Leader's Press Private Ltd.), Letterpress, Litho, Offset Printers & Book Binders, Specialists in Book Work, Calendars, Diaries, Multicolour posters, Labels, Cartons, and Wrappers, etc, etc. 108, Love Lane, Mazagon, Bombay-10. Tel. Nos. 75334-35. ESTD. 1887. Grams: "PRINTBIND".

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Brooke Bond India Private Ltd., Gresham Assurance House, Sir Phiroshah Mehta Road, P. O. Box 271, Bombay. Phone No. 253527. Grams: "BLENDERS."

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Works: 88-C, Old Parbhadevi Road, Bombay 28. Phone No. 61968.

Byramjee Jeejeebhoy & Co., Alice Building, 3rd Floor, Hornby Road, Fort.

BYRAMJI & CO., T., Merchants and Manufacturers' Representatives. Central Bank Building, Fort, Bombay. *Phone:* 251406. *Grams:* "SWEETSMILE," Bombay. *Codes:* Bentley's, A.B.C. and all standard commercial codes. Partners: T. Byramji and Dhun T. Byramji.

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Telephone Nos. 26-3201 and 26-3202.

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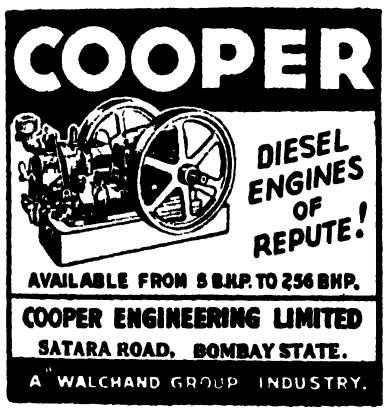
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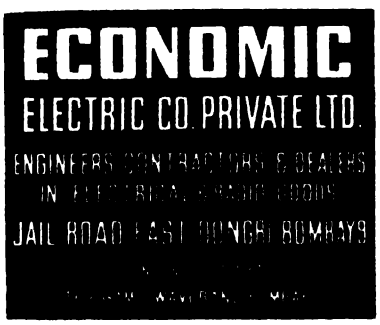
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IMPERIAL CHEMICAL INDUSTRIES (INDIA) PRIVATE LTD. Suppliers of Chemicals—all types, Refrigerant Gases, Dairy Detergents and General Cleansers, Water Treatment Chemicals, Alkalis, Mineral and Organic Acids, Emulsifying Agents, Dyestuff and Auxiliary Products, Leathercloth, Plastics—all types, Non-Ferrous Metals and Alloys, Sporting Ammunitions, Explosives, Rubber Chemicals, Colours and Synthetic Resins, Paints, Fertilizers, Agricultural Chemicals, Insecticides, Weed-Killers and Pharmaceuticals. Also Sole Selling Agents of Albright & Wilson Ltd. (Chemicals & Solvents, Laboratory Reagents), The Alkali & Chemical Corporation of India Ltd. (Caustic Soda, Chlorine, Hydrochloric Acid, Zinc Chloride, "Gammexane" Insecticides, "Duco" and "Dulux" paints), The Alumin Co. Ltd. (Sulphate of Alumina—Iron-Free), Boots Pure Drug Co. Ltd (Saccharin, Potassium Permanganate Technical), Borax Consolidated Ltd. (Borax, Boric Acid, Tartaric Acid), British Glues & Chemicals Ltd. (Glues, "Churn" brand Mineral Mixtures, Roller Composition), British Dyewood Co. Ltd. (Tannic Acid), British Sulphate of Copper Association Ltd. (Copper Sulphate), Brotherton Ltd. (Hydros & Formosul), Chance & Hunt (Carbon Black & Cobalt Oxide), Chemical & Insulating Co. Ltd. (Light Magnesium Carbonate, Oxide and Hydroxide), C.S.R. Chemicals Pty Ltd. (Ascorbic Acid), Cyanne Ltd. (Inhalers), Dairy Products Ltd. (Lactose), Dental Manufacturing Co. Ltd. (Kallodent, etc.), Distillers Co. (Biochemicals) Ltd. (Vitamin B 12, Yeast tabs., antibiotics), Duff Chemical Co. Inc. (Phosphorus), Earnshaw Ltd. (Leather Pigments), English Metal Powder Co. Ltd. (Aluminium Powder and Paste), Fertilizer & Chemicals (Travancore) Ltd. (Ammonium Chloride), Fullers' Earth Union Ltd. (Bleaching Earths), Hardman & Holden Ltd. (Naphthenate Driers), H. Imami & Bros. (Gum Tragacanth), Holoplast Ltd. (Plastic Laminated Panels and Linings), John & E. Sturge Ltd. (Citric Acid), Johns-Manville International Corpn. (Filter-aids), Johnson & Johnson (Gr. Britain) Ltd. (Pharmaceutical Products, Cellulose Adhesive Tapes and Dairy Filters), Johnson & Johnson of India Private Ltd. (Baby powders, Prickly Heat powder, Tek Tooth Brushes), Laporte Chemicals Ltd. (Chemicals), Hindustan Levers Ltd. (Glycerine), Lustre Fibre Ltd. (Cellulose Acetate Moulding Powder), The Magadi Soda Co. Ltd (Heavy Soda Ash), Mond Nickel Co. Ltd (Nickel Electroplating Salts, Selenium Cobalt Oxide & Salts), National Peroxide Ltd. (Hydrogen Peroxide), A. & G. Nicholas Ltd. (Megimide, Daptazole), Ortho Pharmaceuticals Ltd. (Contraceptives and Gynaecological Products), Plant Protection Ltd. (Insecticides, Fungicides, Weed-killers), Bayer Agriculture Ltd (Plant Protection Products), Pan American Sulphur Co. (Sulphur), Scott & Bowne Ltd. (Vitamin Products), Svenska Tandsticks Aktiebolaget (Chlorate of Potash), Svenska Cellulosa Aktiebolaget (Rayon Pulp and Paper Pulp), T. N. Waldron & Co. Ltd. (Dusting Equipment), The United Glass Bottle Manufacturers Ltd (Glassware), Western India Match Co. Ltd (Potassium Chlorate), Whey Products Ltd. (Lactose), B. Young & Co. Ltd (Edible & Technical Gelatines).

Bombay Regional Office at "Crescent" House, Ballard Estate, Bombay 1. Telephone Nos. Bombay: 26-8051 (15 lines). Director-in-Charge, Bombay Offices: J. Parker.

All India Head Office for Dyes: Manager J. P. Ward. Telegrams: "ICIDYES", Bombay. P.O. Box No. 287.

Bombay Regional Office: Manager: A. Mott. Telegrams: "Alkali", Bombay. P.O. Box No. 310.

Bombay Commercial Services Dept. Manager: G. J. C. Hambling.

Technical Service Laboratory: Fosbery Road, Sewri, Bombay. Jt. Technical Managers, Dr. C. E. Salkeld and D. F. Milburn. Telephone No. 76131.

Head Office for India: 34, Chowringhee, Calcutta. Chairman and Managing Director: J. M. Lall. Managing Directors: A. E. Foster, F. G. Lamont. Directors: C. E. Crawford, E. Parker, G. Wilkinson and C. A. Pitts. Secretary: K. M. McCaw. Chief Accountant: H. M. Molesworth. Codes used: Bentley's Complete and Second Phrase and Private Telegraphic Address: "IMPKEMIX", Calcutta. G.P.O. Box No. 182, Calcutta 1. Phone No. 23-2391 (11 lines).

Delhi Office: Hamilton House, Connaught Place, Post Box No. 107, New Delhi. Telephone: 43161, Telegram: "IMPKEMIX", New Delhi. Managing Director: A. R. Foster.

Branches: Calcutta: P.O. Box 334. A. Keown (Manager). Phone No. 22-2... (10 lines). Madras: P.O. Box No. 1... R. Coleman (Manager). Phone Nos. 29... 2929, 2930 & 55597.

District Offices: Ahmedabad, Kanpur. Resident Representatives: Patna, Cochin, Mathurai, Amritsar, Alleppey. Telegram: "ALKALI."

Imperial Surgical Co., "India House" opp. G.P.O., Fort, Bombay.

IMPERIAL TOBACCO CO. OF INDIA LTD., THE. Factory Address: P.O. Box No. 8002, Parel, Bombay 12. Phone No. 62521 (3 lines). Tel. Address: "BACUYMAKE."

Importers & Exporters, Ltd., The, Managing Agents: Eranee Brothers, 9, Forbes Street, Fort.

Ind Advertising Agency, Advertising Service Agents and Consultants, Commercial Chambers, Masjid Bunder Road, Bombay 3.

INDEQUIP PRIVATE LTD., Maneckjee Wadia Bldg., 127, Mahatma Gandhi Road, Fort, Bombay 1. Phone: 255038. Grams: 'INDEQUIPCO'. Textile Engineers and machinery merchants. Branches: Ahmedabad, Amritsar, Calcutta, Delhi, Indore, Kanpur and London.

INDIA ARMS (PRIVATE) LTD., Arms, Ammunition & Shooting Requisites, 351, Abdul Rehman Street, Bombay 3. Phone: 22119. Grams: 'FIREARMS'.

INDIA CORPORATION PRIVATE LTD. (Estd. 1941). Cotton and Piecegoods Merchants, Indian Globe Chambers, Fort Street, Bori Bunder, Fort, Bombay 1. Tel Address: "LOCNI."

INDIA CROWN CORK CO. (PRIVATE) LTD., Office: I. C. House, Dougall Road, Ballard Estate, Bombay. Telephone: 264411 (8 lines). Factory: Powai Estate, North Kurla. Telephone: 67997 (5 lines). Manufacturers of Crown Corks. *Directors:* H. Holck-Larsen; F. Fox; H. Skov; S. K. Toubro; N. M. Desai (Ex-Officio). *Managing Agents:* E. & T. (Management) Private Ltd., P.O. Box 278, Bombay. Tel. Address: "LARSENBRO".

THE INDIA ELECTRIC WORKS, LTD.

6, Sir Phirozshah Mehta Road, Fort. Phone No. 252505. Tel. Address: "MANUFACTER" Manufacturers of I. E. W. low consumption fans, Telephones, Telegraph, Train Lighting Dynamo & Switch Gears and Railway Signalling Instruments, Pole Fittings, Electrical Accessories, Domestic Appliances, Fractional H. P. Motor & Starters and Distribution Transformers, etc.
Repairers of Measuring Instruments, Mechanical & Electrical Engineers and Approved Contractors to Railways and I. S. D. Head Office & Factory:—Diamond Harbour Road, Calcutta 34. Instrument Factory:—25, South Road, Entally, Calcutta. Other Branches at Madras, Kanpur, Delhi & Patna. *Managing Director:* B.K. Rohatgi. *Manager:* Harish Chandra.

PRADIP LAMPS

(General Service, Automobile Fluorescent Tubes, Starters and other special types of lamps.)
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The India Electric Works Ltd.

India Engineering Works, Importers, Exporters and Manufacturers' Representatives, opp. Share Bazar Building, Hamam Street, Fort, Bombay.

India Laboratory Products Co., 2-4, 3rd Cross Lane, Sankli St., Byculla, Bombay 8.

India Machinery Stores, Dealers in Machinery, Flourgrinding Mills, etc., 163, Nagdevi Cross Lane, Bombay 3.

INDIA METAL AGENCIES, Importers & Manufacturers' Representatives, India House, Opp. G.P.O., P.Box 1966, Bombay 1. Telephone: 261078. Grams: 'WIDEEYE'.

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C. G. E., Liege, (Belgium). Water Meters, Sluice Valves, Hydraulic Measuring Equipments.

G. Cesare Ranzi Legnano (Italy) Diesel Locomotives, wagons and Engine Testing Equipments.

Uher & Co., Vienna (Austria). H. S. Electric Meters.

Agents for Western India :

Bergius Company Ltd., Glasgow, Kelvin Marine Diesel & Petrol Kerosene Engines.

H. Widdop & Co., Ltd., Keighly England. Widdop Marine Diesel Engines.

Strojexport, Praha. (Czechoslovakia) (For Western & Central India) Excavators, Concrete Mixers, Battery Trucks, Conveyors Electrical Hoists, Mechanical and Hydraulic Jacks, Chain Pully Blocks.

Outboard Marine International, S. A., Nassau (Bahamas). "EVINRUDE", Outboard Motors.

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We also supply Brass Sugar Tubes, A.C.S.R. Conductors, Tubular Poles, Cables, Wire Ropes, Stone Crushers, Road Rollers, etc.

India Pipe Fittings Co., Pipe & Fittings Merchants, 146, Nagdevi Street, Bombay 3.

India Publications Company, 31, Hamam Street, Fort, Bombay. Trade, Business and Class Journals.

India Radio Service, Dreamland, New Queen's Road, Bombay 4.

India Raw Products Supply Co., 65, Alli Chambers, Tamarind Lane, Fort, Bombay.

India Taps & Dies Works, Engineering Tools Manufacturers & Brass & Iron Founders, Central Bank Building, Mahatma Gandhi Road, Bombay 1.

India Traders, 101-B, Girgaum Terrace, Bombay 4. Receivers — Transmitters — Amplifiers—complete and associated parts.

INDIA TRAVEL SERVICE PRIVATE LTD General Travel Agents. People's Building, Sir Phirozshah Mehta Road, Fort, Bombay 1. Phone: 261424 (3 lines). Grams: "INDTRAVEL".

INDIA UNITED MILLS LTD., Comprising: Mill No. 1; Mill No. 2; Mill No. 3; Mill No. 4; Mill No. 5 and Dye Works.
Agents —Agarwal & Co., Indu House, Dougall Road, Ballard Estate, Bombay. Phone No. 26-3211. Tel. Address: "INDUFAB". P.O. Box No. 807.

India Water Proofing Co., Structural Waterproofing Engineers & Contractors. Hassan Chambers, Parsi Bazar Street, Fort, Bombay.

INDIAN ALUMINIUM COMPANY, LIMITED.
Bombay Office: Lotus House, Marine Lines, Bombay 1.
Head Office: 31, Chowringhee Road, Calcutta 16.
Branches: Bombay, Calcutta, Delhi and Madras.
Products: Bauxite, Alumina Hydrate, Calcined Alumina; Aluminium Ingots; Sheets, Strips, Coils, Circles, Slugs, Corrugated Sheet, Chequered Plate, Extruded Sections, Frameless Houses, Grain Bins; Aluminium paste and powder, Carbon Electrode paste.

Sole Selling Agents for "Venesta" Aluminium Foil. Non-exclusive distributors for a variety of imported aluminium products.

Indian Arts Emporium, Bombay Mutual Annexe, 2-C, Cowasji Patel Street, Fort, Bombay 1.

Indian Art Museum Private Ltd., Carnac Bridge, Bombay 3. Artwares & Curio Dealers. Manufacturers of Brassware and Carpets. Exporters of Brassware, Ivory, Woodcarvings, Carpets, Cotton Piece Goods, Benares Silk Sarees, Sarees, Zaritags and other Indian commodities
Managing Director :—Kishinchand Lekhraj.
Tel. Address: "INDARTMUSE". Phone 20726.

Indian Automobile Company, Ltd., 4, Apollo Street, Fort. Dealers in Petrol, Oils and Tyres.

INDIAN CABLE COMPANY LIMITED, THE, Cable Manufacturers and Electrical Engineers. Representatives in India for British Insulated Callender's Cables Ltd.
Bombay Office: Esplanade House, Waudby Road, Fort.
Head Office: 9, Hare Street, Calcutta 1.
Factory: Tatanagar (S.E. Rly.).

INDIAN CASABLANCAS HIGH DRAFT CO., LTD., THE, Registered Office: Maneckji Wadia Building, Mahatma Gandhi Road, Fort, Bombay 1. Telephones: 253026 and 40486. Grams: "INCASA." Patentees and Manufacturers of the Casablancas System of High Drafting for Cotton Spinning for India, Pakistan, Burma & Ceylon and Selling Agents for "Casavon" Products and Constant Card Apparatus.

INDIAN CATHODIC PROTECTION CO. PRIVATE LTD., Corrosion Engineers. Maneckji Wadia Building, 127, Mahatma Gandhi Road, Fort, Bombay 1.
Director-in-charge: N. B. Bhagat. Tel: Nos. 255601-2-3 Telegrams: CATHOPROF.

Indian Commercial Co. Ltd., 45/47, Apollo Street, Fort, Bombay.

Indian Durries Emporium, Carpets, Durries & Coir Mats Dealers, 64, Mahomedali Road, Bombay 3.

INDIAN DYESTUFF INDUSTRIES LTD., Manufacturers of VAT DYESTUFFS, Mafatlal Houses, Backbay Reclamation, Bombay 1. Phones 37854-5 (2 lines) Grams: 'HITSAGAR' *Factory at:* Shahad, near Kalyan (Thana Dist.)
Managing Agents: Messrs. Mafatlal Gagalbhai & Sons.

Indian Electric Stores, Electrical Goods, Maskati Mahal, Lohar Chawl, Bombay 2. Phone No. 31613.

INDIAN EXPANDED METALS, PRIVATE LTD., THE, Manufacturers of Steel, Brass, Copper & Aluminium Expanded metal of all sizes and meshes.
Managing Director :—N. B. Bhagat, Mechanical Engineer, Overseas Member of the Institute of Welding, London and Sustaining member of the American Welding Society.
Works :—Fort Road, Wadala, Bombay 31.
Office :—Maneckji Wadia Bldg., 127 Mahatma Gandhi Road, Fort, Bombay Phones: 255601-2-3.

Indian Globe Insurance Co., Ltd., The, 315/321, Dr. Dadabhoy Naoroji Road, Fort.

Indian Guarantee & General Insurance Co., Ltd., Bank of Baroda Building, Apollo Street, Bombay. Tel. Address: "INDGUARCO." Phone Nos. 32955/6.

INDIAN HOTELS CO., LTD., Bombay House, 24, Bruce Street, Fort.
Taj Mahal Hotel, Green's Hotel & Restaurant and Wellington Mews.

Directors:—
Sir Homi Mody (*Chairman*).
J. R. D. Tata.
N. H. Tata.
A. D. Shroff.
Brig. M. H. Rane.
J. D. Choksi.
T. V. Baddeley.
D. R. D. Tata.
K. C. Pakhle.

Managing Agents: Tata Industries, Private Ltd.

Director-in-Charge: D. R. D. Tata.
Manager: B. D. Cotval.

Controller of Accounts: S. B. Bajan.

Secretary & Agents' Assistant: M. K. Vajifdar.

Tel. Address: "INHOTELS."

Phone No. 219101 (10 lines).

INDIAN HUME PIPE CO., LTD., THE, are the largest Manufacturers in India of Concrete Pipes, Steel Pipes and Concrete Poles. Concrete Pipes manufactured by this Company, better known as "Hume Pipes" and "Homogeneous Pipes" are very extensively used for Water Supply, Drainage, Culverts, Irrigation, etc. They are also used as Cable Conduits, Half-round and One-third round Channels, as well as for Well Sinking, Septic Tanks, Telephone Cabins, Dust Bins, Cattle Troughs, Fencing Posts, Latrines, Policeman Cabins, Pillars, etc.

For High Pressure Mains and Distribution required for Water Supply, the Company manufactures Steel Pipes lined and outcoated with Concrete, known as "Hume Steel Pipes." These too are very extensively used and are considered more economical than any other substitutes used for the purpose. During the World War II, the Company started manufacture of Welded Steel Pipes for Penstock requirements of Hydro-Electric Projects.

The R.C.C. Poles manufactured by this Company have very advantageously replaced the Steel Electricity Poles for both High Tension and Low Tension Transmission Lines. They are also largely used as Lamp Posts in all the big Cities.

Recently the Company has also started manufacturing the Prestressed Concrete Pipes, which can easily stand pressures upto 400 ft. head.

The Company have a large network of about sixty factories spread over India, and Ceylon. Head Office: Construction House, Ballard Estate, Bombay 1. Telephone No. 26-2094 (3 lines). Telegraphic Address: "HUMEPIPE", Bombay.

Excellent tests and testimonials: Maintaining large staff of qualified Engineers.

INDIAN INDUSTRIAL ENGINEERS, Electrical Engineers, Importers and Stockists of Electrical Measuring Instruments, 43, Tamarind Lane, Fort. Phones: 255514 (Office) and 241469 (Res.) Grams: "NEWLIGHT."

Proprietor: B. A. Mehta, B.Sc. (Eng.), M.I.E.

Manager: I. P. Gupta, M.A., B.Com., LL.B.

INDIAN IRON & STEEL CO., LTD., Managing Agents: Martin Burn Ltd. Head Office: 12, Mission Row, Calcutta. Bombay Branch: Esplanade House, Waudby Road, Fort, Bombay. Phone: 264102. Grams: "MARTINBURN."

Indian Mercantile Insurance Co., Ltd., Indian Mercantile Chambers, Nicol Road, Ballard Estate, Fort.

INDIAN OXYGEN LTD., Ghatkopar (Bombay-Agra Road), Bombay 39. Manufactures of Oxygen, Dissolved Acetylene, Nitrous Oxide, Nitrogen gases. Suppliers of Oxy-Acetylene Welding and Cutting Equipment, Welding Rods and Fluxes, Electric Arc Welding Plant and Electrodes, Automatic Arc Welding Equipment, Argon Arc Welding Equipment, Metal Spraying Equipment and Wires, Hydrogen, Helium, Argon, Neon and other rare gases, also Medical Apparatus for Anaesthesia, Analgesia and Oxygen Therapy and Medical Oxygen.

Registered Office:—48-1, Diamond Harbour Road, Calcutta 27.

Managing Director:—R. G. C. Stephenson.

Bombay Office:—Ghatkopar (Central Railway), Bombay 39.

Telegrams:—"INDOXCO", Ghatkopar.

Phone No. 67941 (4 lines).

Bombay City Depot:—Arched Bungalow Road, Off Reay Road, Mazagaon, Bombay 10.

Phone Nos 75311 and 75312.

District Manager:—P. C. Kavanagh.

District Sales Manager:—K. Hartley.

Bombay Works:—

Oxygen Production & Compression/ Dissolved Acetylene Production —Ghatkopar.

Other Branches:—Ahmedabad, Bangalore Baroda, Burnpur, Calcutta, Cochin, Delhi Gauhati, Hyderabad, Jamshedpur, Jullundur, Kolhapur, Kanpur, Ludhiana, Madras, Nagpur, Patna, Poona, Tiruchirapalli and Visakhapatnam.

Indian Pharmaceutical Combine Association Ltd., Manufacturers of Pharmaceutical and Biological Products. 95, Morland Road, Byculla, Bombay 8. Phone: 74631. Grams: "IPCAPHARM".

INDIAN PLYWOOD MANUFACTURING COMPANY, PRIVATE LTD., Manufacturers of:—Plywood, Veneers, Block Boards, Flush Doors, etc., 9, Wallace Street, Post Box 1175, Fort, Bombay. Factory at Dandeli (Southern Rly.), North Kanara. Phone: 26-3381. Grams: "INDPLYWOOD," Bombay.

Indian Rare Earths (Private) Ltd., Manufacturers of Thorium Cerium nitrates, Trisodium Phosphate and Cerium Compounds. Army & Navy Building, 148, Mahatma Gandhi Road, Fort, Bombay. Phone: 255544/45 Gram: "RAREARTH".

Indian Schering Private Limited, Mercantile Chambers, 1st Floor, Graham Road, Ballard Estate, Bombay.

INDIAN SMELTING & REFINING CO., LTD., THE,
"Industry House"
159, Jamshedji Tata Road, Churchgate Reclamation, Bombay 1.
Tele. No. 37299.
Cable: "ISARC," Bombay.

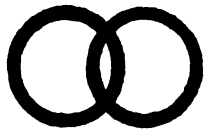
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Lead Bronze.
Brazing Solder.
All Non-Ferrous Alloys and Castings.

INDIAN STANDARD METAL CO., LTD., THE, I. S. M. Estate, Chinchpokli Cross Lane, Bombay 27. Phone Nos. 42205 and 75018. Tel. Address: "ISMETCO."



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INDIAN TEXTILE CO. PRIVATE LTD.

Manufacturers & Exporters of Handwoven Sarees, Brocades, Silks, Cottons, Prints, Woollens, Embroideries etc.

Bombay Office: Taj Mahal Hotel, Bombay 1. Phone: 35771. Grams: "HANDICRAFT".

Head Office: Varanasi (U.P.). Phone: 1087.

Branches: Great Eastern Hotel, Calcutta. Phone: 231543. Grand Hotel, Calcutta. Ambassadors Hotel, New Delhi. Phone: 45121/10. Grams: "HANDWOVEN"; Maidens Hotel, Delhi.

INDIAN TEXTILE ENGINEERS, PRIVATE LTD., Stadium House, 81/83, Veer Nariman Road, Bombay. Dealers in Textile, Woollen & Worsted Machinery.

THE INDIAN TEXTILE JOURNAL

THE INDIAN TEXTILE JOURNAL PRIVATE LTD., Registered Office: "Surya Mahal", Military Square, Fort. Proprietors and Publishers of "The Indian Textile Journal," a representative monthly publication for the Textile Engineering and Electrical Industries of South Asia. Founded in 1890 by the late Mr. Sorabji M. Rutnagur.

Directors.—Sir Joseph Kay, K.B.E. (Chairman), Neville N. Wadia, J.P., Jal H. Mehta, Nityanand M. Wagle, and Jal S. Rutnagur

Agents: M. C. Rutnagur & Co.

Tel. Address: "Journal." Phone No 252043.

INDIAN TOOL MANUFACTURERS LTD., THE

Tel, Sion Road, Bombay 22

Phone: 62473 74

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Manufacturers of Small Tools, particularly Twist Drills, Reamers, Cutters and Taps.

Indian Trade & General Insurance Co., Ltd, Business Transacted: Fire, Marine, Motor and Miscellaneous, Jehangir Building, Mahatma Gandhi Road, Fort.

INDIAN VEGETABLE PRODUCTS LIMITED. Manufacturers of Refined Oil and Hydrogenated Vegetable Oils.

Directors:—
L. H. Kemple, Esq (Ex-Officio),
Sir Purshotamdas Thakurdas, K.B.E., C.I.E.
N. H. Tata, Esq.
Mathuradas Devidas Madhowji, Esq.
K. M. Antia, Esq.
Prahlad C. Mehta, Esq.

Registered Office:—
Forbes Building, Home Street, Fort, Post Box No. 79, Bombay.

Factory:—
Arthur Bungalow Road, Ghorupdeo, Bombay 10.

Telegraphic address:—
"VEGSTERMORN"

Factory Telephone Nos. 42004-5.
Office Telephone No. 268081 (10 lines).
B. V. Samul, Esq., *Factory Manager.*
M. Matthan, Esq., *Assistant Manager.*
E. Ireson, Esq., *Chief Engineer.*

INDIAN WILD-BARFIELD CO., PRIVATE LTD., Lotus Cinema Building, Hornby Vellard, Bombay 18. Branch Office: 27/29, Brabourne Road, Calcutta 1. Heat Treatment & Furnace Engineers. Suppliers of: "WILD-BARFIELD" Electric Furnaces; "THERMIC" Fuel Fired Furnaces; "FOSTER" Pyrometers; "GRAFTON" Electric Kilns. "AUTO-LEC" Electrode Steam & Waterboilers; Pottery Kilns; Ceramic and Enamel Colours; "ETERNITE" Carburizing Compound and other Heat treatment Shop Supplies; "CASSEL". Heat treatment Salts; "SHELL-WILD-BARFIELD' Quenching Oils. Phone: 74687. Grams: "Elecfurn"

Indo-Bombay Trading Co., Steel Specialists, Pipe Fittings Merchants, 34, Nagdevi Street, Bombay 3.

Indo-Berolina Ind-Pvt Ltd., Mfrs of Machinery for Chemical, Pharmaceutical etc., Victoria Bldg., 1st Floor Parsee Bazar Street Fort, Bombay

Indo-British Chemical Co., Dealers in Sizing Materials and Chemicals, Raja Bahadur Mansion, Tamarind Lane, Fort.

INDO-BRITISH TRADING BUREAU (Estd. 1917), Direct Importers and Stockists of Mill & Handloom Stores, 7-10, Horniman Circle, Fort, Bombay. Phone No. 252778 Tel. Address: "Millocraft"

INDO-BURMA PETROLEUM CO., LTD. THE *Managing Agents:* Steel Brothers & Co., Ltd., Allahabad Bank Building, Apollo Street, Fort, Bombay No. 1. P.O. Box No. 369. Phone Nos. 251214-15. Grams: "STEELOIL."

Indo-Europa Trading Co., Estd. 1926, Importers Exporters & Printers' Complete Furnishers. 9, Dalal Street, Fort, Bombay. Grams: "INDOEUROPA." Phone: 252124.

Sole Agents for: Cundall Folding Machine Co., Ltd., England; Fishburn Printing Ink Co., Ltd., England; VEB Druckautomatenwerk Leipzig, Germany; VEB Buchdruckmaschinenwerk Universal, Germany; Max Nitzsche & Co. A. G., Germany; Baptist Bacher, Germany; Kustermann & Comp., Germany; VEB Buchbindereimaschinenwerk Leipzig, Germany; August Fomm, Maschinenfabrik, Leipzig, Germany. Reiss & Schirmer, Hamburg, Germany. Lontke & Co. Machinfabrik G.m.b.H., Leipzig, Germany. Prakma Machinenfabrik G.m.b.H., Berlin, Germany. VEB Optima-Fabrik Graphischer Maschinen, Leipzig, Germany.

Indo-European Trading Agencies, 4th Floor, Byramji Mansion, Sir Phirozshah Mehta Road, Fort, P.O. Box 1344, Bombay. Phone: 22664. Grams: "MUSKETEERS." Direct Importers of Electrical Accessories, Electrical Appliances, Nickrome Wires, Switchgears, Radios & Refrigerators.

INDO-FOREIGN TRADE SERVICE, Debt collectors, 505, Kalbadevi Road, opp. Edward Cinema, Bombay 2. Phone No. 22848. Tel. Address: "Busitrade."

INDO-INTERNATIONAL COMMERCIAL CORPN., PRIVATE LTD., Manufacturers' Representatives, Crescent Chambers, Tamarind Lane, Bombay 1. Phone: 251555. Grams: '18EE'.

Sole Agents for: Chemo Puro Manufacturing Corpn., U.S.A., Switzerland, Germany, Holland, Italy. Mfrs of fine Chemicals; Meera Corporation, New York, U.S.A. Mfrs. of Compounds, Spices, Fluid Extracts & Tinctures, Solid & powdered extracts, Botanical drugs, water soluble Gums, Shellac Gums etc.

Indo-Pharma Pharmaceutical Works Private Ltd., Manufacturing Pharmaceutical Chemists. Kohinoor Road Dadar, Bombay 14.

Indo-Straits Private Ltd., Import and Export Beaumont Chambers, Medows Street, Fort.

Indo-Textile Stores, The, Mill & Gin Stores Suppliers & Specialists in Shuttles, Reeds & Leather Goods, Sir Vithaldas Chambers, 16, Apollo Street, Fort Phone No. 255211. Tel. Address: "Alltradco."

INDOKEM PRIVATE LTD., 143, Mahatma Gandhi Road, Fort, P.O. Box 832, Bombay. Telegraphic Address: "Indokem". Phones: 255096 97.

Directors:—
Dharamsey M. Khatau.
Ramniwas Ramnarain.
Ratansey Mulji.
C. Rai.

Import Dept.:—
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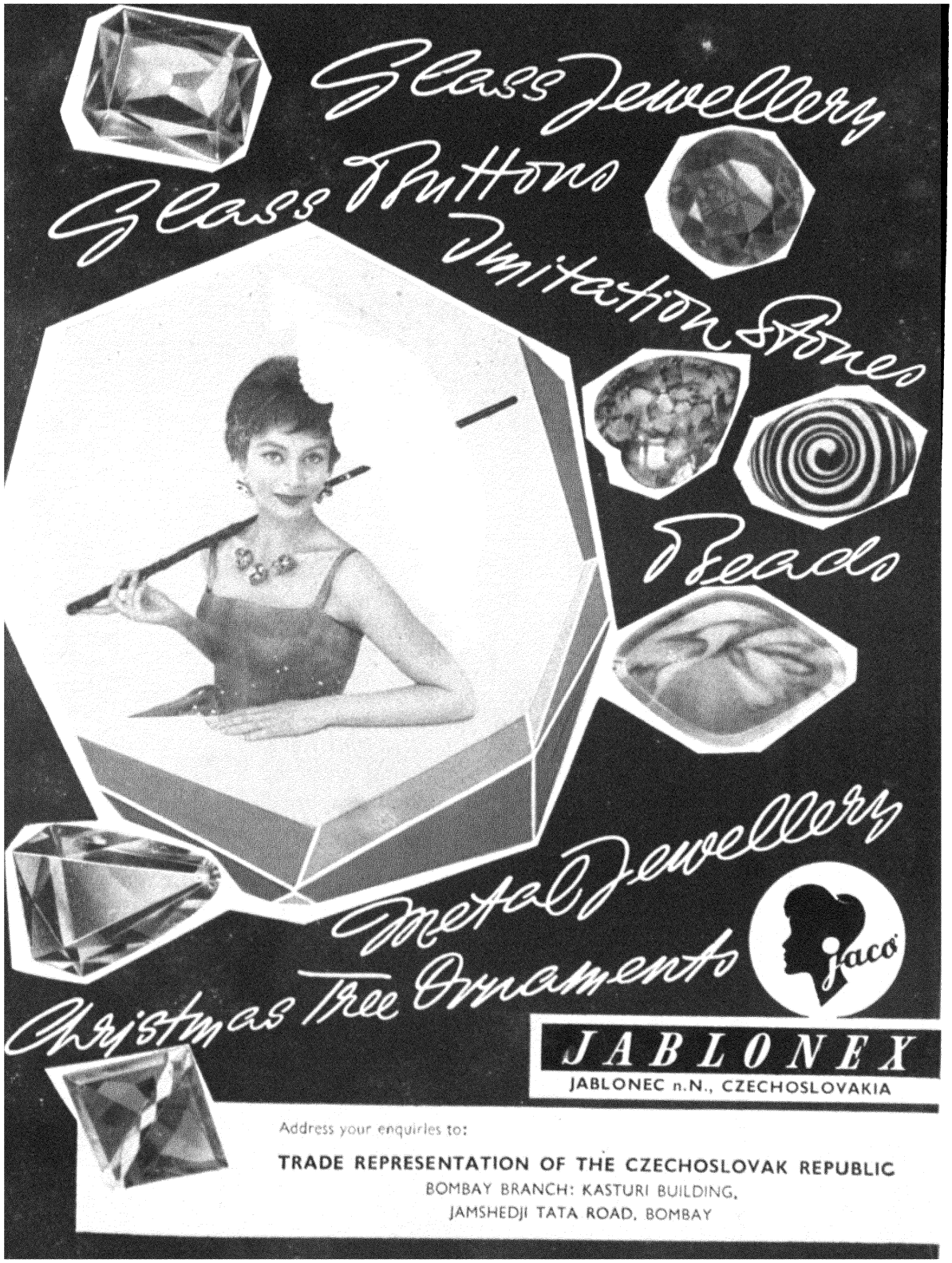
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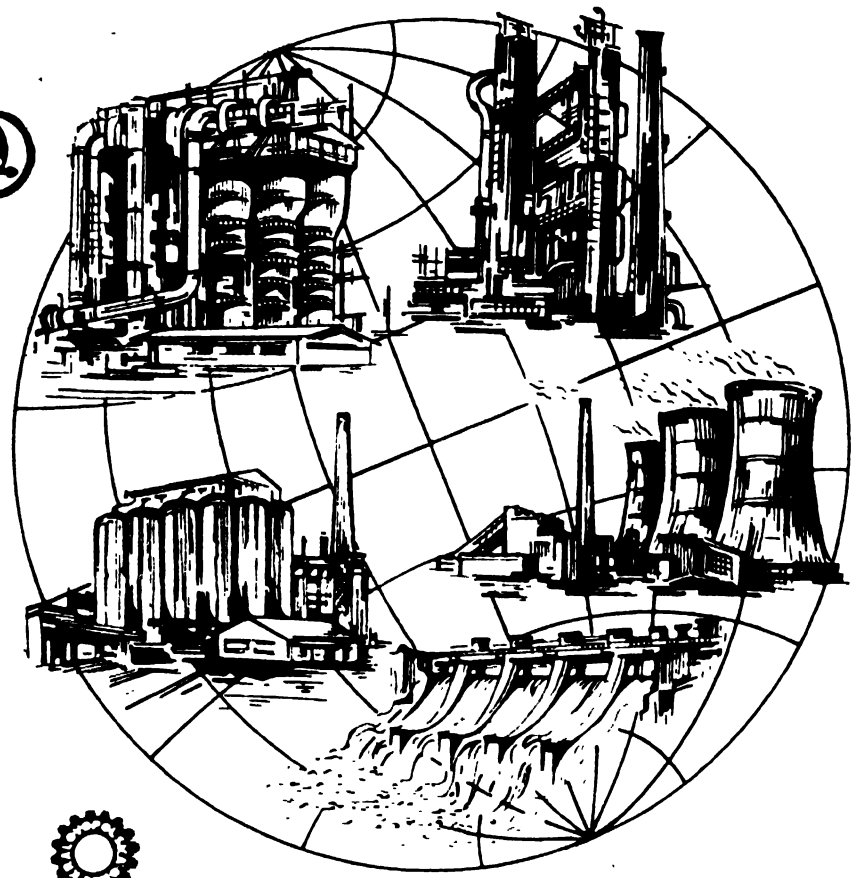
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Kalamazoo Parchment Paper Co., India, Elphinstone House, Churchgate Street, Bombay.

KALVERT, R., & CO., 90/92, Masagaon Road, Bombay 10. Phone No. 42414. Tel Address: "Currosauce." Manufacturers of Mango Chutney, Pickles, Curry Powder, Condiments, Squashes, Vinegar, Sauce, Syrups, Prumto, Canned Alphonso Mango Slices and Pulp, Prawn Balchow, Jams, Canned Vegetables, Mogial Mutton Biriyani & Curry.

Kalyan & Sons, Piecegoods & Silk Merchants and Ladies' Dress Makers, Bode House, Ormiston Road, Apollo Bunder, Bombay 1.

Kamal Rubber Works Ltd., Rubber Balloons & Toys Manufacturers 71, New Citizen Bank Bldg., Parton Road, Bombay 1.

Kamani Engineering Corporation Ltd., Engineers, Kamani Chambers, Nicol Road, Ballard Estate. Phones: 26-1744 (5 Lines).

Kamani Metals & Alloys Ltd., Manufacturers of Brass, Copper, Phosphor Bronze and Zinc Sheets and Strips, Agra Road, Kurla North, Bombay 37. Phone: 67984 (3 Lines).

Kamani Metallic Oxides Private Ltd., Manufacturers of Zinc Oxide, for Commercial and Pharmaceutical requirements. Agra Road, Kurla North, Bombay 37. Phone: 67984 (3 Lines).

Kamdar Private Ltd., Furnishers & Decorators, Show Rooms, Industrial Building, opp. Churchgate Station, Fort, Bombay. Tel. No. 242178.

Kamlashankar P. Joshi & Co., Distributors & Stockists of Ball Bearings and Mill Gin Stores, 72-80, Nagdevi Cross Lane, Bombay 3.

Kamruddin Adamjee & Co., Motor Car Hood & Upholstery Materials Specialists, 135, Ibrahim Rahimtoola Road, Bombay No. 3.

Kanara Engineering Co., Ltd., Mount Road, Masagaon, Bombay 10. Refrigeration and Mechanical Engineers.

Kanchanlal Maganlal & Co., Chemists & Druggists, Bode Chawl, Princess Street, Bombay 2.

Kanchanlal Vadilal & Co., Chemists & Druggists, Masgaldas Road, Bombay 2.

Kanji Govind Kerson, Builders & Contractors, Military Contractors & Electrical Engineers, Jiji House, Ravelin Street, Fort, Bombay & Murbad Road, Kalyan.

Kanji Jadhavji & Co., Masjid Bridge, Bombay 9. Clearing, Forwarding, Shipping & Landing Stevedores.

KASHIRAM HARI KISAN MATH (ESTD. 1918), 4-C, Vulcan Insurance Bldg., Veer Nariman Road, Bombay 1. Phone: 241808. Grams: "Kayrons." Importers of Woollens, Woollen yarn, Rayon yarn, Woollen, Rayon & Cotton piecegoods. *Branches:* Delhi and Amritsar.

KANTILAL BHOGILAL & CO., (ESTD. 1923), Engineering Stores, Tools and Hardware merchants. 66, Nagdevi Cross Lane, Bombay 3. Phones: 30637 (Office) and 32047 (Residence.) Grams: 'PIPE-TOOLS'.

Kantilal Company, Dealers in Batteries, Torches, Bulbs, etc., Jamnabai Building, Abdul Rehman Street, Bombay 3.

Kantilal & Company, Importers of Cycles & Accessories, 170, Princess Street, Bombay 2.

Kantilal Keshavlal & Co., Electrical Licensed Contractors, Manufacturers of Spherebot Water Heaters. 80-82, Vithalwadi, Bombay 2.

Kantilal Sanghvi & Co., Importers, Exporters and Manufacturers' Representatives, Mherwan Building, Sir Phirozshah Mehta Road, Fort, Bombay. Tele. No.—Office: 253041; Residence: 28185. Tel. Address: "Expim."

Kapadia Brothers, Paint Merchants & painting contractors. Chief Stockists of noble paints & Decorators, 81, Abdul Rehman Street, Bombay 3. Phone: 29108. Grams: 'DECORATORS'.

KAPADIA & CO., Importers and Exporters, Bell Building, 19, Sir Phirozshah Mehta Road, Fort, Bombay 1. Grams: "WEDLOCK." Phone: 252942.

Partners.—Kariman Burjor Kapadia and Burjor Kariman Kapadia.

Dealers in: Woollen, Cotton & Rayon Piece-goods, P.V.C. Plastic Sheetings, Leather Cloth, Oil Cloth, Essential Oils, Aromatic Chemicals & Sundries.

Kapur & Co., A. N., Manufacturers, Importers & Stockists of Sports Goods, Court House, Dhobi Talao, Bombay 2.

Karachi Electric Co., Electrical Engineers & Direct Importers, Himalaya House, Palton Road, Bombay 1.

Karachi Engineering Co., Asbestos Cement Products Suppliers, People's Bldg., Sir P. M. Road, Bombay 1.

Karanjia & Co. Private Ltd., N. B. Union Bank Bldg., Apollo St., Bombay 1.

Karimjee Trading Co. Private Ltd., Importers, Exporters and Commission Agents, 7, Homji Street, Bombay 1.

Karnad & Bellare Ltd., 2nd Floor, Western India House, Sir Phirozshah Mehta Road, Fort, Bombay.

KATGARA BROTHERS, 10, Veer Nariman Road, Bombay 1. Exporters of Indian products such as Textile goods, Jute goods, Carpets, Oils, Oilcakes, Minerals, Tiles, Mica, Tapioca Flour, Coir products; also sundries like Footwear, Table Cutlery, Silver Filigree, Jewellery, Hand Bags, Curios, Perfumes, etc.—Enquiries solicited. Telegram: "Newvogue". Phones: 251514, 251515 & 251516.

KAYCEE INDUSTRIES LTD., Electrical & Mechanical Engineers and Manufacturers' Representatives.

Licensees in India for: The Manufacture of WESTINGHOUSE Metal Rectifier Equipment for Electroplating, Anodonising, and Electrolytic Process.

Representatives for:
"WESTINGHOUSE" Metal Rectifiers,
"CHARMILLES" Water Turbines,
"BRENTFORD" Voltage Regulators,
"CLEVELAND" Water Meters,
"MOSS & GAMBLE BROS" High Speed Steel, H.T. Switchgear, Wires & Cables.
"SANTON" Rotary Switches,
"MARELLI" Exhaust Fans.

Head Office: Kamani Chambers, Nicol Road, Ballard Estate, Bombay 1.
Telephone: 262757. *Telegrams:* "KAYCEE".
Branches at: Delhi, Calcutta, Madras, and Kanpur.

KEMP & CO., LTD., Manufacturing Chemists & Pharmaceutical Agents.
General Manager:—S. V. S. Iyer.
Assistants—R. D. Kotwal, M.Sc.; B. R. Swami, M.A., G.D.A.; D. L. Amore, J.P. and B. D. Monteiro.
Head Office and Factory: "Elphin House," 880, Old Prabhadevi Road, Bombay 28. Tel. Address: "Pharmacy", Bombay.
Branches:—Sohrab House, Dr. Dadabhoy Naoroji Road, Fort; 44, Cumballa Hill; Clare Road, Byculla; Taj Mahal Hotel; Sopari Baug Road, Parel; Dr. Annie Besant Road, Worli; Kashmiri Gate, Delhi; Connaught Place, New Delhi; 32-C, Chittaranjan Avenue, Calcutta 12 and 27/28, Armenian Street, Madras 1.

Kemicolor Industries, 193-195, Hornby Road, Bombay 1.

KERR, F. S., & CO. PRIVATE LTD., 125, Mahatma Gandhi Road, Fort, Bombay. Dealers in Dyes, Chemicals, Pharmaceuticals, Solvents and Pigments. Also Exporters of Frozen sea foods.
Representing:—
American Aniline Products Inc., New York, U.S.A.; Newport Industries Inc., New York, U.S.A. Tel. Address: "Kerindia." Phone: 254172.

Kerson Ramji Kalyanwalla, K. R. K. Bricks Manufacturer and Contractor, Jiji House, 17, Ravelin Street, Fort, Bombay.

KERSONS MANUFACTURING CO. OF INDIA PRIVATE LTD., Manufacturers of quality Electrical Accessories. Gopal Nivas, Lohar Chawl, Bombay 2. Phone: 20479. Grams: "SNIPE". Factory at Bhandup. Phone: 67386.

KESAR SUGAR WORKS, LTD., 45-47, Apollo Street, Fort, Bombay. Phone: 25-1201. Tel. Address: "KESUWORKS." Sugar Factory at Baheri (U.P.). Chemical Factory: Goregaon, Bombay.

Kesbo (Private) Limited (Formerly known as The Karachi Electric Stores (Bombay) Ltd.), Electrical Engineers, and Importers in Electrical Goods. Sole Agents: "Burgess" Vibro Tools, Vibro Sprayers, Micro Switches. Executive Office: Bombay Mutual Terrace, 534, Sandhurst Bridge, Bombay 7. Phone: 71643. Warehouse: Arthur Bunder Road, Colaba, Bombay 5. Grams: "Rectifiers".

KESHAVLAL NARSIDAS JALIWALA

Estd. 1884.

Head Office:

157, Abdul Rehman Street, Bombay 3. Phone: 25614. Grams: "GIRDHARI."

Importers & Stockists of

Wire ropes, Signal wires, Vacuum gauges, Perforated and plain sheets, in all metals, Non-ferrous metals, Woven wire netting, expanded metal sheets, etc.

Suppliers to

Central and States Governments, Railways & Port Trusts.

Registered with

D. G. S. & D., New Delhi, Bombay, Calcutta & Madras, Central Railway, Western Railway, Bombay Port Trust and Director of Industries, Bombay.

Representatives of British & Continental Manufacturers.

London Office at 47/49, Monument Street, E.C. 3.

Keshavlal Talakchand Private Ltd., Cloth, Yarn, Staple Fibre & Jute Merchants, Importers & Exporters. India House, opp. G.P.O., Bombay 1. Telegraphic Address: "CHANDRODAY." Phone: 261982.

Branches at: Ahmedabad, Sholapur, Coimbatore, Madras and Salem.

Agencies at: Addis Ababa, London, Manchester.

Keshowdas Hassanand Karachiwalla, Highclass Glass & Plywood Merchants, 256, Masjid Bunder Road, opp. Imperial Bank of India, Bombay 3.

KEYMER, D. J., & CO. LTD., Incorporated Practitioners in Advertising, (*Incorporated in England with Limited Liability.*)

Bombay: Steelcrete House, Dinshaw Wacha Road, Backbay Reclamation, and 6, Ballard Road, Ballard Estate.
Madras: 3/18, Mount Road, Post Box 372.
Delhi: 15.1, Asaf Ali Road.
London: 25, Bedford Row, London W.C.1.

Khanna & Co., S., Engineers, Builders, Quarry Owners & Decorators, Mustafa Building, Sir Phirozshah Mehta Road, Fort. Phone No. 251162. Grams: "CRETECO".

Kharas Bros., Merchants, Importers and Exporters of Piecegoods. No. 14, Hamam Street, Fort. Phone: 251805. Grams: "KHAYA."
Sole Proprietor: Dhanjishaw R. Kharas.

KHATAU MAKANJI SPG. & WVG. CO., LTD., Byculla, Bombay. Phone: 261093/4. Grams: "KHATAUMILL".

K. Hassaram & Co., (Estd. 1881). Manufacturers, Direct Importers and Wholesalers in Textiles and Hosiery of all kinds; World-wide Exporters. New Silk Bazar, Kalbadevi Road, P. O. Box 2142, Bombay 2. Phone Nos.: 34152 and 35729. Grams: "HINDWASI."

KHATAU VALABHDAS & CO., Indian Globe Chambers, Fort Street, Bombay. Phone No. 26-1655. Tel. Address: "SCARLET", Bombay. Manufacturers' Representatives. Importers and dealers in Dyes, Auxiliaries, Pharmaceuticals and Chemicals. *Branches:* Delhi, Madras, Patna, Madura, Secunderabad, Cawnpore, and Bangalore. *Agencies.*—Ahmedabad, Nagpur, Indore, Delhi, Ludhiana, Amritsar, Rajahmundry, Calcutta, Miraj, Bhavanagar, etc.

Khemchand Rajkumar, Bombay Office: 213, Argyle Road, Bombay 9. (*See Index to Advertisers.*)

KHEMKA & COMPANY (AGENCIES) PRIVATE LIMITED, *Managing Directors:* Mr. S. L. Khemka, Mr. B. P. Khemka, Mr. C. P. Khemka, Mr. N. L. Khemka. Exporters of Manganese & Iron Ore. *Selling Agents for* Metalexport, Building Contractors Machinery, Warsaw. *Agents for* Messrs. Polish Ocean Lines, at Calcutta. *Bombay Office:* Vulcan Insurance Building, 2nd Floor, 202-A, Veer Nariman Road, Churchgate Extension, Bombay 1. Telegraphic Address: "EXPORTIRON". Phone: 242244-45. Other Offices at: Calcutta, Madras, New Delhi, Nagpur, Vizianagaram, Vizagapatnam, Kakinada, Masulipatanam, Benwada, Khamameth, Shermohamed Path, Hospet, Thimmarcherla (Guntakal), Gooty, Velludtri, Cuddapah, Chitaldroog, Gandhidham, Londa, Dabla, Jaipur, Nimakathana, Chomu.

Khimandas Jagumal & Sons, Estd. 1910 (Sind). Engineers, Machinery Merchants, 12, Gunbow Street, Fort. Phone No. 26-1691. Grams: "EXPOCORP."

KHIMJI POONJA & CO., Bank's Muccadams, Share, Cotton & Seeds Brokers, Bullion Merchants and Commission Agents. Ready Cotton Merchants, Commission Agents, Importers, & Exporters, Clearing, Forwarding & Shipping Agents. Wadia Building, 19-21, Dalal Street, Fort. Phone Nos. 253510 and 251644. Tel. Address: "GAINSURE".

KHIRA STEEL WORKS PRIVATE LTD. Manufacturers of fine steel furniture & equipment for homes, offices, hospitals, libraries, canteens and Patented 'Ajax' Aluminium Collapsible Awnings & Folding Roofs. H.O. & Factory: Ghodbunder Road, Santa Cruz, Bombay 23. Grams: "Steelcase"; Phones: 88002 & 89569. Regd. Office: Kothare Building, Sandhurst Bridge, Bombay 7. Grams: 'Swakala'. Phone: 27636. Showroom: Fulchand Nivas, Chowpatty Sea Face, Bombay 7. Grams: 'Swakala'. Phone: 27108.

Khokhani & Company, Importers & Stockists of Fountain Pens and Spare Parts, Narayan Building, 38-42, Chippi Chawl, Bombay 2.

Telegrams:	*Telephone:*
"IRONSHEET"	28592

KHUSHIRAM CHIMANLAL PRIVATE LIMITED
(Iron, Steel and Hardware)
21, Broach Street, Dana Bunder, BOMBAY 9.

KIKABHOY CHANDABHOY, Paper & Strawboard Merchants. P. B. No. 2131, 33-35, Mangaldas Road, Bombay 2. Phone No. 38046. Tel. Address: "Creamlaid."

KILACHAND DEVCHAND & CO. PRIVATE LTD. 45-47, Apollo Street, Fort. Phone No. 25-1301. Tel. Address: "Seeds."

Importers and Exporters in Raw Cotton, Oilseeds and Oils, Cotton, Silk and Art-Silk Yarn and Piecegoods, Rayon, Chemicals, Jute, Hessian and Gunny Bags.

KILBURN & CO. PRIVATE LIMITED, Gresham Assurance House, Phirozshah Mehta Road, Bombay 1. Telegraphic Address: "Tasconium", Bombay. Phone: 25-1908.

Proprietors of Western Wireless Co.

Head Office: 2, Fairlie Place, Calcutta.

Branches: New Delhi, Madras, Kanpur, Ahmedabad, Nagpur, Bangalore and Secunderabad.

Foreign Correspondents: Kilburn Brown & Co., Dunster House, 37, Mincing Lane, London, E.C. 3, England.

MANUFACTURERS OF: Waterproofed Canvas, Tarpaulins and Tents (made to any size), Disinfectants.

Agents for:—

Engineering Section:

Bramigk & Co. Ltd., London, England. ('Mikro' Pulverisers, Atomizers, Collectors).

Chandra Foundries Ltd., Madras. (Centrifugal Pumps).

Compagnia Genovese D'Esportazione, Genoa, Italy. (Machine Tool Manufacturers' Representatives and Exporters).

Copes Regulators Ltd., London, England. (Boiler Feed Water Regulators).

Crossley Bros. Ltd., Manchester, England. (Diesel Engines for marine and stationary applications)

Dewrance & Co. Ltd., London, England. (High Pressure Valves, Fittings and Boiler Mountings).

Drysdale & Co. Ltd., Glasgow, Scotland. (Pumps).

Erskine Heap & Co. Ltd., Manchester, England. (Electrical Switchgear, Motor Control Gear).

Fredk. Pollard & Co. Ltd., Leicester, England. ('Corona,' Drilling Machines).

Gilbert, Gilkes, & Gordon Ltd., Kendal, England. (Hydraulic Turbine equipment and accessories).

Hugh J. Scott & Co. (Belfast) Ltd., Ireland. (Electric Motors).

Innocenti S. G., Milan, Italy. (Heavy Machine Tools and Rolling mill equipment).

J. & E. Hall Ltd., Dartford, England. ('Hallmark' & 'Halliford' Refrigerating and Air Conditioning Equipment).

James Howden Ltd., Glasgow, Scotland. (Forced and Induced Draught Fans, Air Preheaters, Steam Turbines and Dust Collectors).

John Holroyd & Co. Ltd., Rochdale, England. ('Holfos,' Spuncast Phosphor Bronze Cored and Solid Rods).

Kestner Evaporator & Engineering Co. Ltd., London, England. (Evaporators, Spray Driers, Continuous Driers, Pickling Plant, etc.).

Lansing Bagnall Ltd., Basingstoke, England. (Mechanical Handling Equipment).

Lennox Foundry Co. Ltd., London, England. (Acid Resisting Metals and Plants).

London Electric Wire Co. & Smiths Ltd., London, England.

Vactite Wire Co. Ltd., Salford, England. (Bare Copper Wires, Insulated Copper Wires, Resistance wires, Strips, Busbars, etc.).

Manesty Machines Ltd., Liverpool, England. (Tablet Making Machinery, Distilled Water Plants, etc.).

Nuclear Engineering Ltd., London, England. (Radiographic Equipment).

Ohio Brass Co., Mansfield, U.S.A. (H.T. Transmission Line, Switch Insulators and Fittings).

Reed Crane & Hoist Co. Ltd., Bristol, England. (Cranes and Hoists).

Rejafix Ltd., London, England. (Universal Marking and Printing Machines).

Russell Constructions (Export) Ltd., London, England. (Sieving machines, Tea-grading machines and strainers).

Sinnova-Paris, France. (Detergents, Wetting and Penetrating Agents, Self-emulsifying Waxes, Fatty Alcohols, etc.).

General & Office Equipment Section:

A. B. Dick Co., Chicago, U.S.A. ("Mimeograph" Stencil Duplicating Machines).

American Photocopy Equipment Co., Chicago, U.S.A. ("Apeco" Autostat Photo-Copying Equipment and Supplies).

Barrow Hepburn & Gale Ltd., Mitcham, England. (Leather Belting, Picking Bands, etc.).

Boler Petroleum Co., Philadelphia, U.S.A. (Lubricating Oils, Greases, Waxes, etc.).

Bruntons (Musselburgh) Ltd., Scotland. (Galvanised Wire Ropes).

Cawnpore Tannery Ltd., Kanpur. (Industrial Leather—"Ceeta" Brand Belting, Picking Bands, Martingale Strapping, Tuggers, Etc.).

Deutsche Telephonwerke und Kabelindustrie, Berlin, West Germany. ("Hamann" Electrical and Hand-Operated Calculating Machines).

Dictaphone Corporation, New York, U.S.A.

Dictaphone Co. Ltd., London, England (Dictating and Transcribing Machines).

Dictograph Telephones Ltd., Croydon, England. (Inter-Office Telephones).

Ditto Incorporated, Chicago, U.S.A.

Ditto (Britain) Ltd., London, England. (Spirit and Gelatine Process Duplicators).

Golf Ball Developments Ltd., Birmingham, England. ("Penfold" and "Bromford" Golf Balls).

Hall Harding Ltd., London, England. (Drawing Materials and Copying Machines).

J. Sloper & Co. Ltd., London, England. (Perforating Machines).

Joseph Wright & Co. Ltd., Tipton, England. (Heavy Shipping Chains).

Mulcott Belting Co. Ltd., Bradford, England. (Hair and Cotton Belting, Vee Belts, Plasticon Conveyor Belting, etc.).

National Time Recorder Co. Ltd., London, England. (Time and Attendance Recording Equipment).

Richards Ltd., Aberdeen, Scotland. (Flax Canvas Fire and Delivery Hose).

Universal Postal Frankers Ltd., London, England. (Postal Franking and Stamp Cancelling Machines and Employees' State Insurance Franking Machines).

Victor Adding Machine Co., Chicago, U.S.A. (Adding and Listing Machines).

Manufacturers of "Victory" Brand Sensitised Paper. (Ammonia and Ferro-Prussiate Papers).

Distributors for—

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'Kilburn' Hair Belting.

'Kilburn' Steel Lacing.

'Kilcots' Synthetic Rubber Cots.

Tru-Cut Hacksaw Blades.

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A. G. Wild & Co. Ltd., Sheffield, England ('Sylvester' Pit Prop Withdrawers).

Austin Hopkinson & Co. Ltd., Manchester, England. ('Pikrose' Haulages—Flameproof Electric (A.C.) and Compressed-Air)

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Barker Davies & Co., Pontypridd, Wales (Safety Detachable Hooks, Rope Cappels, etc.). (Locally Manufactured Winding Rope Cappels).

Belmos Co. Ltd., Lanarkshire, England (Flameproof Switchgear and Lighting Fittings).

Bruntons (Musselburgh), Ltd., Scotland (Steel Wire Ropes, for all purposes)

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Distington Eng. Co. Ltd., Cumberland, England. (Mine Cars and Conway Shovels)

Etelco Ltd. (Ericsson Telephones Ltd.), London, England. (Mining Telephone Equipment).

Goodman Manufacturing Co., Chicago, U.S.A. (Continuous Borers and Coal Cutting Machines).

Hayden-Niles Ltd., Sheffield, England, (Belt Fastening and Repairing Materials, Hose Clips and Connections, etc.).

Hugh Wood & Co. Ltd., Gateshead-on-Tyne, England. (Mining and Industrial Conveying Machinery, Coal/Stone. Drilling Equipment, Diesel Locos, Slicers, Loaders, etc.)

Industrial Plastics (India) Calcutta. Duravyn Miners' Safety Helmets.

James W. Smallman Ltd., Nuneaton, England. (Haulage Clips for Endless Rope Haulage).

John Mills & Co. (Llanidloes), Ltd., Montgomeryshire, England. (Heavy duty Haulage Engines—Electric, Steam, Compressed-Air).

Oldham & Son (India), Private Ltd., Madras (Mine Lighting Equipment:—Self-servicing Cap Lamps, and Accessories and Storage Batteries).

Oldham & Son Ltd., Denton, England. (Sole Overseas Distributors of I.G.D. Testing Instruments for Mines, Gas Plants, Oil Installations, etc. Also F.L.P. Tuba Torches).

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Assistants & Administrative Staff: A. N. Haksar; P. D. C. R. Clark, C.A.; A. B. Jackson; A. Bennett, A.C.S.M., Assoc. Inst. M.M.; J. A. Colaco, B.E., A.M.I.E.E.; H. J. MacQueen, C.A.; Col. L. Sawhny; S. H. Captain; R. D. Modak, B.Sc. (Elec., Engrg.), Columbia; D. P. H. Rowe, A.C.S.M.; A. C. B. Millar; B. M. Maniar, S. C. Malhotra; S. A. A. Pinto; M. M. Talwar; P. R. Saraiya; B. J. Boyce P. J. Kajalia; M. J. Hill; L. Poppelwell; L. S. Warner; R. P. Aiyer; N. M. Robertson; I. M. Desai.

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Grams: "KINDRED." Phone: 26-2311. P.O. Box No. 109.

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Chief Executives: W. A. Hemmant; Brig. F. H. B. Ingall, D.S.O., O.B.E.

Engineering Department: W. A. Hemmant, M. R. Ogle, S. M. Nabar, A. T. Kothavala, M. M. Talwar.

Agency Department: Brig. F. H. B. Ingall, D.S.O., O.B.E., N. F. C. Hilling, V. P. Anand.

Shipping & Clearing Department: F. Rozario, D. S. Kumana.

Finance & Accounts: N. Nath.

Calcutta Office (F-2, Gillander House, 8, Netaji Subhas Road, Calcutta 1)—S. Lal.

Delhi Office (74, Janpath, New Delhi)—N. G. Takle.

Madras Office (C/o Binny & Co. Private Ltd., 7, Armenian Street, Madras)—R. Parthasarathi.

Kandla Office (Godown No. 88, Sardarganj, Gandhidham, Kutch)—R. B. Anantani.

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Shipping: The Hall Line; The City Line; T. & J. Brocklebank Ltd.; Bibby Line; Belships Co. Ltd.; T. & J. Harrison; L. Smit & Co's Internationale Sleepdienst, Rotterdam.

Agency Department: 31, Murzban Road, Bombay 1. Acalor (1948) Ltd., London; Bird & Co., (Private) Ltd., Calcutta; Boase Spinning Co. Ltd., Dundee; British Insulated Callendar's Cables Ltd.; Cement Marketing Co. Ltd., London; Dewey & Almy Chemical Co., Massachusetts, U.S.A.; Fothergill & Harvey Ltd., Manchester ("TYGAN" & "TYGLAS"); Gulf Oil (India) Private Ltd., Bombay; F. W Heilgers & Co. (Private) Ltd., Calcutta; WMB International, AB, Goteborg; James Sandy Pty. Ltd., Sydney; Masonite Corporation, Chicago; B. S. Mohindar & Co., Bombay; Paper Sacks Ltd., London; Sack Fillers Ltd., London; Stewobs & Co., Bombay; Standard Manufacturing Co., Bombay; Own Manufacture: U.C. (Universal Cleanser) Detergents.

Engineering Department: 31, Murzban Road, Bombay 1. E. Boydell & Co., Ltd., Manchester (MUIR-HILL DUMPERS); British Straddle Carrier Co., Ltd., London; Cement & Steel Ltd., London; J. Christopher & Sons Ltd., London; J. Collis & Sons Ltd., London; Ductube Co., Ltd., London; Electric Furnace Co. Ltd. (Group), Weybridge, Surrey; English Drilling Equipment Co. Ltd., London; Ing. P. Florentini & Co., Italy; Flight Refuelling Ltd., Dorset; Gifford-Udall Pre-stressing Equipment England; I. H. C. Holland, Holland; Halifax Tool Co. Ltd., Halifax; Humphreys & Glasgow Ltd., London; C. H. Johnson (Machinery) Ltd., Stockport, England; Kumardhubhi Engineering Works Ltd.; Kumardhubhi Fireclay & Silica Works Ltd.; Loro & Parisini, Milan, Italy; Mitchell Coleman & Co. Ltd., London; Newton Chambers & Co. Ltd., Thorncliffe; Niagara Screens (Great Britain) Ltd., Middlesex; Richard C Gibbins & Co. Ltd. Birmingham; Slough Estates (London) Ltd; StelMo Ltd, London; Superior Engineers (Watford) Ltd, Kent; Turner Manufacturing Co. Ltd, Wolverhampton.

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London Representatives: Nixon, Forrest & Co., Ltd., 16/17, Devonshire Square, Bishopsgate, E.C. 2.

Tel. Address: Killick Bombay. P.O. Box 109. Phones: General Offices: 262011; Clearing & Forwarding Dept.: 261395.

KINSHO TRADING CO., LTD., Manufacturers' Representatives, General Merchants, Importers and Exporters. *Head Office:*—No. 8, 2-Chome, Kayabacho, Nihonbashi, Chuo-ku, Tokyo, Japan. *Bombay Office:*—Petit Building, 4th Floor, Dr. Dadabhai Naoroji Road, Fort, Bombay 1. Grams: "KINSHO".

Importers & Exporters: Non-Ferrous Metals, Rolled Metal Products, Ferro-Alloys, Steel Products (including stainless), Electric Wires & Cables, Ores, & Minerals, Machinery, Pulps, Papers, Chemicals & Dyes, etc.

Kirpalsai & Co., P., Paper & Strawboard Merchants, Bulakidas Building, 11, Vithaldas Road, Bombay 2.

Kirti Agencies, Importers of Hardware, Chemicals, Drugs & Medicines, Cycles, Stainless Steel Non-Ferrous Metals, Corks & General Merchandise, 125, Medows Street, Fort, Bombay 1.

Kirtikumar & Co., Machinery Importers & Dealers, 25, Ropewalk Street, Fort, Bombay.

Kirtikumar & Co., Chemicals and Sizing Materials Dealers, 80, Bhapdari Street, Mandvi, Bombay 3.

Kirtikumar Electric Corporation, Electric & General Merchants, 12, Tawawala Building, Lohar Chawl, Bombay 2.

KISHIN CHAND & CO. (INDIA)

Exporters & Converters, Importers and Manufacturers' Representatives.

55-57, Empire Building, 138, Hornby Road, Fort, Bombay 1.

Cables: "ALLEGIANCE."

Phone: 261524.

EXPORTERS OF:—Textiles, Yarns, Wool, Pashina, Goat Hair, Shellac, Hosiery, Spices, Oils, Seeds and Gums, etc.

IMPORTERS OF:—Textiles, Yarns, Crockery, Cutlery, Drugs, Dyestuffs, Glassware, Hosiery, Knitting Wools, Cycles, Biscuits, Tinned Provisions, Gums and Dry Fruits.

Kishinchand Chellaram (Estd 1916), Gazdar House, 629A, Girgaum Road, P.O. Box 2145, Bombay 2

K. K. Shah & Co., Empty Bottles, Corks and Capsules Merchants, Sheriff Devji Street, Bombay 3.

Phone: 261583. Grams: "WADHICO"

K. L. WADHI & CO.

Manufacturers & dealers in

Explosives, Gunpowder, Safety Fuses, Gelatine, Detonators, etc., etc.

24, Peoples Bldg., 3rd floor, Pherozshah Mehta Road, Bombay.

Klimt & Lion Private Ltd., Agents for Import & Export in Textiles of all kinds, Western India House, Sir Phirozshah Mehta Road, Fort. Tel. No. 252452. Tel. Address: "Elkayco."

KODAK LIMITED (Incorporated in England with limited liability), Manufacturers of Photographic Materials, Kodak House, Dr. Dadabhai Naoroji Road, Fort, Bombay. Phone No. 26-2604 and 17, Park Street, Calcutta; 33-34, Faiz Bazar, Paryaganj, Delhi; and 2-155, Mount Road, Madras Tel Add.: "Kodak."

KOHINOOR ELECTRO GILDERS, Electroplaters, Khetwadi 10th Lane, Bombay 4. Phone: 71786.

Komal Mfg. Chemists, Ltd., 23-36, Masrani Mansion, Halov Bridge, Old Kurla, Bombay 37. Manufacturers of Toilet Requisites.

Kooka, N. D., & Co., Distributors for "TCC" Condensers, 13/19, Medows Street, Fort, Bombay.

Kooverji Devshi & Co. Private Ltd., Fire Protection Engineers, 164, Lohar Chawl, Bombay 2. (*Also see* under Fire Fighting Equipment Section.

Kooverji Karamshi Talpatrivala, Gaumukh Bhuvan, opp. Masjid Station, Bombay 9.

KORES (INDIA) PRIVATE LTD. Head Office: Plot 10, Off Haines Road, Worli, Bombay 18. Manufacturers of Carbon Papers, Typewriter Ribbons, Drytype Stencils, Duplicating Ink, Ink Tablets, Stamp Pads, etc. Phone No. 73454 (Three Lines). Tel. Address: "Korescarbo." Branches at: 7, Canal Street, Entally, Calcutta 14; 22A, Asaf Ali Road, Near Kama's Market, New Delhi; 334, Thambu Chetty Street, 1st Floor, G. T. Madras; Pioneer Building, Meston Road, Kanpur; Balkrishna Nivas, Dr. Gogate's Bungalow, Kachiguda Station Road, Hyderabad Dn.; 12/3, Moolje Rawjee Colony, Devanga High School Road, R. S. Puram, P. O. Coimbatore; No. 16, 'Sri Sailam', Second Cross Gandhinagar, Bangalore 9; 524, Gatrajni Pole, Mandvini Street, Ahmedabad.

KORULA RUBBER CO. PRIVATE LTD., Manufacturers of Latex Foam Cushions, Telecord Cables, automobile parts, Rubber lined Tanks, Industrial Rubber goods, Gloves & Gumboots & Pharmaceutical Rubber goods. 249, Worli, Bombay 18. Phone: 41950. Grams: 'ZIRCON', Bombay.

KOSMEK PRIVATE LIMITED, Sole Distributors of BINACA Toothpaste and Toiletries, 'BIERI' Fashion Jewellery, 'POLYTAINER' Polythene Containers. Head Office: 'Cecil Court', Lansdowne Road, Apollo Bunder, Bombay 1. P. O. Box 1680. Phones: 37834/5. Grams: "KOSDIST". Branches: Calcutta, Delhi, Madras.

Kosmos Paper Stores, Paper & Strawboard Merchants, 87A, Khadilkar Road, Bombay 4. Phone: 71901. Grams: "KOSMOSPAP."

Kotak Brothers, 59, Forbes Street, Bombay 1. Office equipment merchants.

Kotak & Co., Cotton Merchants, Navsari Building, Dr. Dadabhoy Naoroji Road, Fort. Tel. Address: "Kotakandco." Phone Nos. 263331-263332-263333.

KOTECHA & CO., Importers & Exporters of Cotton & Cotton Piece-goods, Commissariat Building, 231, Hornby Road, Fort.

Kothari Brothers, Textile Machinery and Mill-Gin Store Suppliers, Fodar Chambers, Parsi Bazar Street, Fort.

Kothari & Sons, Importers, Exporters & Manufacturers' Representatives, 20, Noble Chambers, Parsi Bazar Street, Fort, Bombay.

Krishin, N., & Co., Stationers and Paper Merchants. Bombay Mutual Building, Hornby Road, Fort.

K. S. KAPOOR & CO., Advertising Agents, 25B, 3rd Floor, Noble Chambers, Parsi Bazar Street, Bombay 1.

K. T. Steel Industries Ltd., Manufacturers of Wire Nettings of all types. K. J. Building, Broach Street, Bombay 9. (See under Iron & Steel Works).

Kulkarni & Co., Insurance underwriters, Merchants & Manufacturers' Agents. Navsari Building, 2nd Floor, Hornby Road, Fort, Bombay 1. Phone No. 262867. Tel. Address: "Kulkarco."

KUMAR BROS. (India) Private LTD.

Importers and Exporters,
55-57, Empire Building,
138, Hornby Road, Fort, Bombay 1.
Cables: "KUMARSILKS."
Phone: 261524.

Exporters of:—Textiles, Yarns, Wool, Pashina, Goat Hair, Shellac, Hosiery, Spices, Oilseeds, Gum, etc.

Importers of:—Textiles, Yarns, Crockery, Cutlery, Drugs, Dyestuffs, Glassware, Hosiery, Knitting Wools, Cycles, Biscuits, Tinned Provisions, Gums and Dry Fruits.

Kumar Commercial Co., Machinery & Oil Engines Importers, Nadirshaw Sukia Street, Fort, Bombay.

Kumar Stationery Mart (Estd. 1942), Importers, Stationers, Paper Merchants and Government & Railway Contractors. Manufacturers of "Stag Brand" gem clips and pins. Podar Chambers, Store Lane, 100, Parsee Bazar Street, Fort. Phone No. 255203. Grams: "TRADEMOTO."

KUMUDCHANDRA & CO., Importers of replacement parts for Textile winding machines. 29, Dalal Street, Fort, Bombay. Phone: Office: 253214. Godown: 264437. Grams: 'VERYGOOD.'

Kurwa and Kajiji, Government, Railway and Marine Contractors, Shipchandlers, Ironmongers, General Hardware Merchants, 142-44, Abdul Rehman Street, Bombay 3.

Kusumgar & Co., Private Ltd., V. B., Direct Importers of Cycles & their Accessories, P. O. Box No. 2071, 503, Kalbadevi Road, Bombay 2.

L. Kant & Co. For "Neon" & "Glow" Signs, Jan Mohamed Building, 318, Charni Road, Bombay 4.

L. R. Trading Company, Manufacturers of greeting cards for all occasions and 'Flash' zip fasteners. Navsari Chambers, Outram Road, Fort, Bombay. Phones: 263141 & 264073. Grams: 'SHAHANICO'.

Laffans (India) Ltd., Rustom Building, Churchgate Street, Fort, Bombay.

Lakhani & Co., Importers, Exporters, Merchants & Commission Agents, Mulji Jetha Building, 12, Champagalli, Bombay 2.

LAKHANPAL PRIVATE LTD.,

Radio Receivers and Radio Parts Suppliers, 29, New Queen's Road, Bombay. Tel. Address: "ETHERWAVE". Phone: 22473.

Lakshmana Pillai V. D. S. Importers, Exporters & General Merchants. Dharamsee Building, 2nd Floor, 587, Girgaum Road, Bombay 2. Grams: "Veeyesel."

LALA GOPIKRISHNA GOKULDOSS

Importers, Exporters & Manufacturers Representatives

119, Mint Street, Madras 1

Branch:

11, Western India House, Sir P. M. Road, Bombay 1

Tel: 252821 Telegram: INTRADE

Agents:

Rohtas Industries Ltd., Dalmianagar (for South India)
Ratlam Strawboards Private Ltd., (for South India & Bombay State)
Harbans Lal Malhotra & Sons Private Ltd., Calcutta
Panama Private Ltd., Calcutta (for South India & Bombay State)
Shangrilla Food Products Ltd., Bombay (for South India)
Indian Hardware Industries Ltd., Delhi (for South India)
Bombay Pencil Private Ltd., Bombay (for Bombay & Madhya Pradesh)
Mysore Lac & Paints Works Ltd., Mysore (for Madras State)

Lalitkumar & Co., Gums & Sizing Material Dealers, 86, Kazi Sayed Street, Bombay 3.

LALLUBHAI AMICHAND PRIVATE LTD., Manufacturers of all Non-Ferrous Metal-wares, Props. of "Dun Aluminium Factory", 225-227, Tardeo Road, Bombay 7. Grams: "Cyclebrand". Phone Nos. 41618 & 73220.

Laiwani Radio Corporation, 11, Tinwalla Bldg., Tribhuwan Road, Bombay 4.

Lancelot Norman's Mercantile Agency, Local Office:—Jan Mansion, Sir Phirozshah Mehta Road, Fort.

LANS METAL & ENAMEL WORKS PRIVATE LTD., Kasturchand Mills Compound, Tulsi Pipe Road, Dadar, Bombay 28. Phone: 60637. Grams: 'LANSENAMEL'. Manufacturers of E. I. Shades, Hallow Wares, Hospitalwares, Railways Reflectors, Signboards and such other Enamelled articles. Also solicit job work for Enamelling and Metal Pressing of every description.

Managing Director: M. I. Patel.

Sole Selling Agents: Industrial Sales Corporation, 419/D, Joshi Wadi, Kalbadevi Road, Bombay 2.

LARSEN & TOUBRO LTD., Head Office: I. C. House, Dougall Road, Ballard Estate, Bombay. Telephone: 26-4411 (8 lines). Workshop, Parts Depot, Service Station, General Stores: Powai Estate, North Kurla. Telephone: 67097 (5 lines).

Branches: P.O. Box 619, Calcutta, P.O. Box 5247, Madras, P.O. Box 323, New Delhi, P.O. Box 55, Cochin, P.O. Box 98, Bangalore.

Consulting Engineers, Manufacturers' Representatives, Contractors, Importers & Exporters.

Manufacturers of Plant and Machinery for Dairy and Allied Industries and Earthmoving equipment.

Importers of Agricultural and Earthmoving Machinery and Implements, tube-well drilling equipment, industrial chemical and refrigeration plants and machinery for Pharmaceutical & bottling industries.

Directors: H. Holck-Larsen, M. V. Desai, N. M. Desai (Ex-officio), Solomon J. Judah, S. K. Toubro, Dwarkadas H. Vora.

Managing Agents: L. & T. (Management) Private Limited.

Tel Address: "LARSENBRO."

LATHAM ABERCROMBIE & CO. PRIVATE LTD., Forbes Building, Home Street, Fort, Bombay. Merchants, and Manufacturers' Representatives. Branches at Delhi, Calcutta, Madras.

F. H. Kemple, *Director*
Hon. R. D. Campbell, „
C. F. Barnard, „
C. P. Malhotra, *General Manager*
G. N. Fisher, *Assistant*
J. M. Bobb, *Dist. Manager, Delhi.*
A. K. Mukerjee, *Dist. Manager, Calcutta.*

Distributors for:—

Messrs. Ing. C. Olivetti & C. S. P. A., Ivrea, Italy. (Olivetti Typewriters, Calculators and Adding & Listing Machines.)

Messrs. Olivetti Telescriventi, Via Vlotti 9, Torino, Italy. (Teleprinters.)

Messrs. Officina Meccanica Olivetti, San Bernardo O'Ivrea (Torino), Italy. (Olivetti Drilling, Grinding, Milling Machines, etc.).

Messrs. Serio S.P.A. Macchine per Scrivere e da Calcolo, Via Melleria 1, Milano, Italy. (Everest Calculating Machines.)

Messrs. Organizzazione Possi, Milano (207)—Via Serbelloni, 14, Italy. (Antares Calculating Machines).

Ellams Duplicating Co., Ltd., Walton, Road, Bushey Hall Road, Watford, England (Duplicating machines, equipment and supplies).

Marsh Stencil Machine Co., Belleville, Illinois, U.S.A. (Package stencilling machines and supplies).

Messrs. Zeuthen & Aagaard A./S., 6, Esplanaden, Copenhagen, Denmark. (Contex Adding Machines & Rex-Recorder Dictating Machines).

Messrs. International Coin Counting Machine Co., Ltd., Alexandra House, Enfield, Middlesex, England (Coin Counting Machines).

Messrs. Skandinavisk Fotocopi A/S, 5, Baggesengade, Copenhagen N, Denmark. (Photocopying Machines).

Messrs. A.C.E.C. Charleroi Le, Belgique (Radio Tele-printers).

Telephone: 26-8081 (Ten lines).

Telegrams: "Latham".

P.O. Box No. 113.

Lawrence & Mayo (India) Private Ltd., 274, Dr. Dadabhai Naoroji Road, Fort. Telegraphic Address: "Lynx", Bombay. Telephone No. 261827.

Laxmi Electric Trading Co., Electrical Equipment, Radios, Refrigerators, Spare Parts and Accessories. 37, Sitaram Building, Hornby Road, Fort.

Laxmi Engineering Stores, Engineering Stores & Machinery Merchants, 154, Narayan Dhuru Street, Bombay 3.

Laxmi Syndicate, Machinery Importers, 4th Floor, Lentin Chambers, Dalal Street, Fort, Bombay.

Laxmidas & Dwarkadas, Radios & Radio Parts Manufacturers, Laxmi Bhuvan, Sardar Patel Road, Bombay 4.

L. Bhagat & Company, Importers of Watches, Clocks and Time-pieces, Abdul Rehman Street, Bombay 3.

L. Dewan & Son, Cargo Supdts. and Shipping Agents, Jan Mansion, Sir Pherozshah Mehta Road, Fort, Bombay.

Phones: 62018 & 71618 Grams: "GAYPANKAJ".

LEATHER CLOTH PROCESSORS & PRINTERS

Moghul Lane, Matunga, Bombay 16.

Manufacturers of: "LEATHERIDE" brand Leather Cloth for Book Covers, Travel Requisites, Shoes and Chapals, Railway Coaches, Cinema seats, Bus seats, Car Upholstery and Household Furniture.

LEDERLE LABORATORIES (INDIA) PRIVATE LTD., "The International", 16, Queen's Road, Bombay 1. Phone: 241144 (3 lines). Grams: "LEDLAB." Factory at P.O. Atul *Via* Bulsar. Phone 29.

Lee & Muirhead (India) Private Ltd., Clearing, Shipping, Travel, Warehousing & Insurance Agents, 12, Rampart Row, Fort. Phone: 251171 (5 lines). Grams: "LEMUIR."

LEGAL & GENERAL ASSURANCE SOCIETY LIMITED, Tel. Address: "LEGRESH". Phone No. 260068 (3 Lines), P.O. Box 966, Bombay. (Fire, Marine, Misc.) Manager for India, Pakistan & Ceylon: L. E. H. Purtock. *Head Office:* 188, *Fleet Street, London, E.C. 4.*

Branches at: Calcutta, Madras, Madurai, Delhi, Bangalore, Nagpur, Sholapur, Trivandrum, Coimbatore and Cochin. Agents and Representatives throughout India.

Levetus (Agents) Private Ltd., Manufacturers' Representatives. Bombay Office: 408/409, Himalaya House, Palton Road, Bombay 1.

LEWIS AND TYLOR (INDIA) LTD. (Incorporated in England.) For transmission Belting and Conveyor Bands of all types. V-Belts Flax Hose for Fire Fighting and Delivery purposes at all pressures. London Office: 52, Grosvenor Gardens, London S.W.1. Branches in India: Sohrab House, 237, Dr. Dadabhoy Naoroji Road, Bombay 1. Telegrams: "Belthose", Bombay; 6, Church Lane, Calcutta. Telegrams: "Belthose", Calcutta.

Importers of "Gripoly" Products made and patented by Lewis & Tylor Ltd. Cardiff:

"Gripoly" Hair Belting.
"Gripolata" Rubber and Canvas Belting.
"Gripolastic" (Filastic Yarn Belting).
"Gripolastic" Solid Woven Truly Endless Belts.
"Gripoly" Drop Stamp Belting.

Suppliers of:
"C. A. B." Leather Belting.
"Lantee" Leather Belting.
"Lantee" Vee Belts.
"Lantee" Conveyor Bands.
"Griplace" Steel Belt Lacing.

High Pressure Flax Fire Hoses:
"Underwriter" Super Fire Fighting.
"Underwriter" Cervis.
"TREE" Brand.
"Underwriter" Rubber Lined.
"Land T" Fire Brigade.

Products made in India:
"Lantee" Brand Solid Woven Hair Belting, Belt Preservative.

Sole Distributors for:
"India" Super and Sterling Brands of Rubber and Canvas Belting.
"India" Super V-Belts.

Light Building Materials Co., Manufacturers of Modern Electric Lights and Floor Tiles Moulds. 83-A/83-B, Tardeo Road, Bombay 7.

Light House, Stoves & Gas Lamps Manufacturers, 51, Kitchen Garden Lane, Bombay 2.

Liladhar. I. Shah, & Co., Importers, Exporters and Commission Agents, 835, Samuel Street, Vadgadi, Bombay 3.

Liladhar Pasoo & Co., Shipping and Clearing Agents, 282, Narshi Natha Street, Bombay 9.

Lilaram Kewalram & Sons, 12, Kishore Building, opp. Edward Cinema, Kalbadevi Road, Bombay 2. Bankers, Manufacturers' Representatives.

Linotype and Machinery, Ltd. Printing Machinery Manufacturers. *Head Office:* 21, John Street, Holborn, London, W.C. 1. Works: Altrincham, Cheshire. Head Office for India: Central Avenue South, Calcutta. Manager for India: T. King. Bombay Branch: 11-13, Horniman Circle. Manager: C. G. Raman. Tel. Address: "Linotype." Phone No. 251068. Madras Branch: 10/29, Mount Road.

LINTAS LIMITED, International Advertising Agents, Khetan Bhuwan, 198, Jamshedji Tata Road, Churchgate Reclamation.

LIONEL EDWARDS (PRIVATE) LTD., Nicol Road, Ballard Estate, Bombay. Head Office at Calcutta. Freight and Steamship Agents. Managing Agents: India Steamship Co., Ltd. *Agents:* American Export Lines, Inc., New York. Pacific Far East Line Inc., San Francisco. Waterman Steamship Corp., Mobile, Alabama. Parry Lines Inc., New York. M. Nemazee, Hongkong. Codes used: Bentley's 1st & 2nd Editions and New Boe Code. (Tel. Address: "LIONWARDS" —All Offices.) Phone Nos. 26-1241/43. Post Box 1000.

LION PENCILS
PRIVATE LIMITED

Pencil Manufacturers,

95, Marine Drive,
Bombay 2.

Phone: 242715.

Grams: "JOCELYN".

Lipton (India) Ltd., Ilaco House, Sir Phirozeshah Mehta Road, Bombay. Tel. Address: "Liptea." Phone No. 262769.

Little & Co., Solicitors and Notaries, Central Bank Building, Fort, Bombay, N. J. Apthorpe-Webb, J. S. Bapasola, N. B. Vakil, C. J. E. Grundy, J. J. Vakil, K. J. Chokshi, N. A. Modi. Cable Address: "Legal," Bombay. Phone: 251281, 82.

LIVERPOOL & LONDON & GLOBE INSURANCE CO., LTD., THE (Incorporated in England; Shareholders' Liability Ltd.) 12, Jamshedji Tata Road, Bombay. (Fire—Loss of Profits—Motor—Accident (all classes)—Engineering—Aviation—Marine). Secretary: D. E. Twemlow. Tel. Address: "Globance". Phone: 37125 (5 Lines). Post Box No. 1848. Head Office:—1, Dale Street, Liverpool, England.

Lloyd's Register of Shipping, Laxmi Building No. 2, Ballard Road, Ballard Estate, Bombay.

L. KANT & CO., for 'NEON' & 'GLOW' Signs and mercury Switches. Jan Mohammad Building, 318, Charni Road, Bombay 4. Grams: 'KANTCO'. Tel. 22539.

LLOYD TRIESTINO, Navigation Company, General Agency, Bombay, Post Box No. 1080, Bazargate Street, Fort, Bombay 1. Phone No. 252388. Grams: "Lloydiano."

LONDON, EASTERN & AMERICAN TRADING CO. PRIVATE LTD., Sole Proprietors:—'AA,' 'XLN,' 'A-1,' 'AONE' Electric Lamps and Accessories. 'Drill,' 'Sunspecial,' 'XLN,' 'A-1,' Mantles, 'Premier,' 'Commander.' Cable Wires, 'Royal Fire-Extinguisher.' Sole Agents for Silvery and Oosmania Clips, Splendor Lamps, 'LEA' Fans, 'Britmac' English Electrical Accessories. Dealers in Electric Fans, Fixtures, Accessories, Eveready Flashlights and Novelties. Phone No. 22969. Tel. Address: "Sanguine," 22, Hamam Street, Fort.

LONDON & PROVINCIAL MARINE & GENERAL INSURANCE CO., LTD., 10, Bruce Street, Fort, Bombay. Grams: "LOPROMAR." Phone: 252321. Post Box No. 842.

Lookmanji Moosaji, Furniture Fittings Merchant, Diamond Building, Lohar Chawl, Bombay 2.

Louis Dreyfus & Co., Ltd., Nicol Road, Ballard Estate. Tel. Address: "Dreyfus."

LUCAS INDIAN SERVICE PRIVATE LTD., Dealers & Repairers of Motor Car Electrical Equipment, Diesel Fuel Injection Equipment and Aircraft Electrical Equipment. *Head Office:* 15, New Queen's Road, Bombay 4. Phone No. 22901. Tel. Address: "Lucasind." Branch Offices at: Wellesley Street, Calcutta and Pattullas Road, Madras.

Lowndes & Co., G., Importers of Pharmaceuticals & Chemicals, Mercantile Chambers, Graham Road, Ballard Estate, Bombay 1. Phone: 263489. Grams: "Gerassimos".

Luis, Manufacturers of Naval, Air Force, Civil, Military Caps, Shoulder and Cap Badges, Stockists of all kinds of Wedding Requisites. Opp. G. T. Hospital, 280, Carnac Road, Bombay 2.

Lusob Trading Co., Consulting Engineers, Machinery Importers and Dealers, Specialists in Ventilation and Dust extraction. Bell Building, Sir Phirozshah Mehta Road, Bombay. Tel. Address: "Lusobtraco." Phone No. 252612.

Luxmi Engineering Works, Engineers & Metal Founders, 197, Corner of Grant Road, Bombay 8.

M. C. Mody & Bros., Electrical Engineers & Importers. 125A, Lohar Chawl, Bombay 2.

M. J. Patil & Co., Pipe Fittings & Sanitaryware Merchants, 46, Nagdevi Street, Bombay 3.

M. Pranjivandas & Co., Empty bottles & corks, 79-B, Princess Street, Bombay 2.

M. V. Joshi & Co., Tarpaulins Dealers, 31, Isaji Street, Bombay 3.

MACFARLANE & CO., LTD. (Managing Agents:—James & Co., Private Ltd.), 34, Lamington Rd. (N.), Bombay 8. Telegrams: "Taurus." Phones: 41271 & 74265. Regd. Office: 25, Netaji Subhas Road, Calcutta 1. Manufacturers of "Vala" Paints, Enamels, Varnishes & Distempers and "Valamoid" Plastic Roofing Compound. Agents for Valentine's "Valspar" Products. C. L. Pasricha, Manager for Bombay.

Machine Tools Corpn., Mill gin Store Merchants, 158-160, Narayan Dhuru Street, Bombay 3.

MACHINE TOOLS (INDIA) PRIVATE LTD., "Imperial Chambers," Wilson Road, Ballard Estate, Bombay. Tel. Address: "Immaculate". Post Box No. 522. Phone No. 263269. Head Office: Wimet House, 12-A, Russell Street, Calcutta 16. Tel. Address: 'Machtools'. Phone: 23-1161. Bangalore Office: 41, Silver Jubilee Park Road, Bangalore 2. Tel. Address: "IMMACULATE." Phone: 4807.

MACHINE TOOLS & IMPLEMENTS, Engineers, Hardware Merchants and Industrial Suppliers. Approved Suppliers to D.G.S. & D. and Other Government Departments, Railways and Prominent Workshops. Stockists of Ball and Roller Bearings, Tool Steels, Hardwares and Small Tools, etc. Main Office: 93-95, Narayan Dhuru St., Bombay 3. Phones Office: 22868. Residence: 242425. Tel. Address: "Machtools."

MACKINNON, MACKENZIE &. CO., PRIVATE LTD., *Regd. Office:* 16, Strand Road, Calcutta 1.

Branch Office: Ballard Estate, Bombay 1. Merchants.

Managing Directors—W. R. B. Sample (*Chairman*); H. L. Murray.

Directors—N. H. G. Grant, G. D. Longhurst, M. R. Das, A. T. Ott Deas, M.C., E. J. Pakes, C.B.E.

Director Secretary—T. O. Millar, C.A.

Shipping Manager—J. W. Anson.

Staff Manager: D. W. Mckay.

Assistants (Sign *Per Pro*): J. V. Cherry, E. K. Christie, C.A., N. Latif.

Assistants: M. N. Alikhan, R. K. Bilimoria, P. Chatterjee, N. P. Iyengar, N. K. Jerath, A. S. G. Lambert, E. H. P. Lewis-Bowen, D. Matheson, K. D. Mehta, A. D. Oag, R. Pollok, D. N. K. Sen, N. K. Sen, G. E. Thompson, R. P. Vachha, P. A. Wagle.

Agents: Peninsular & Oriental Steam Navigation Co., British India Steam Navigation Company Limited, Isthmian Lines, Inc., James Nourse Ltd., Canadian Pacific Steamships Ltd., Frank C. Strick & Co., Ltd., P. Henderson & Co., Hain Steamship Co., Ltd., General Steam Navigation Co., Ltd., New Zealand Shipping Co., Union Steamship Co. of New Zealand Ltd., Federal Steam Navigation Co., Ltd., Australasian United Steam Navigation Co., Eastern Australian Steamship Co., The Avenue Shipping Co., Ltd., Atlas Assurance Co., Ltd., Marine Insurance Co., Ltd., London & Lancashire Insurance Co., Ltd., The Ganges Rope Co., Ltd., East African Protectorates, Clearing & Forwarding Agents.

Sub-Agents: Overseas Tankship Corporation; Overseas Tankship (U.K.) Ltd.

Telegraphic Address: "MACKINNONS". Phone No. 26-8021. P.O. Box No. 122.

Macmillan & Co., Ltd., Publishers, 276 Dr. Dadabhai Naoroji Road, Bombay 1. Phones: 261184-261185. Tel. Address: "Biblicos." J. H. Collins, Manager.

J. Albiston, Assistant.

N. D. Irani, M.A., S.T.C., B.T., Educational Adviser.

Macropolo, D., & Co., Private Ltd., Kermani Building, Dr. Dadabhai Naoroji Road, Fort. Cigarettes, Cigars and Tobacco Manufacturers and Importers. Tel. Address: "Macropolos." Phone No. 255764. Factory at Kalachowki (Parel), Bombay. Branches at: 11, Old Court House Street, Calcutta and Connaught Circus, New Delhi.

Madan Mohan Jain & Sons, Approved Govt., Rly., P. W. D. Contractors and State Suppliers, Mill Stores Importers and Cloth Exporters, Bankers, Merchants. 217, Kalbadevi Road, Bombay. Tel. Address: "Madanmohan." Phone No. 20262.

MADHORAM & SONS, Forest Contractors, 136, Tank Bunder, Reay Road. Stockists: Chil Pine, Fire Pine, Teak Wood, Jungle Wood, etc.

Madhowji Dharamsi Mfg. Co., Ltd., Regd. Office: Foras Road, Bombay. Correspondence at: 15/A, Elphinstone Circle, Fort.

MADKU FASTENERS CO., Manufacturers of Zip Fasteners. Sanghavi Chambers, 27, Ghoga Street, Fort, Bombay 1. Phone: 253502. Grams: 'VIRVANDAN'. *Factory:* Udyognagar, Bhaktinagar Station Road, Rajkot (Saurashtra) Phone: 201. *Proprietor:* M. K. Sanghavi.

Madhusudan Gordhandas & Co., Importers and Exporters of Piecegoods. P.O. Box No. 2110. Ganeshwadi, M.J. Market, Bombay 2.

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Mehta & Co., Ltd., K. L., Dealers in Electrical goods. 35, Bhangwadi, Kalbadevi Road, Bombay 2.

MEHTA & COMPANY, P. N., Importers, Exporters and General Merchants, Rayon, Nylon, Cotton and Blended Yarns from Holland, France, U.K., U.S.A. and Europe. Exporters of Rayon, Silk, Cotton Waste and Cotton, Silk & Art Silk Piece-goods to all destinations. Cook's Building, 324, Dr. Dadabhoy Naoroji Road, Bombay 1. Grams: "Mazdiyesni." Phone No. 251328-29.

Mehta Narottam & Co., 96, Narayan Dhuru Street, Bombay 3.

MEHTA PRIVATE LIMITED, (Paid-up Capital Rs. 25 lakhs.) Exporters, Importers and General Merchants. Noble Chambers, Parsee Bazar Street, Bombay 1. Phone: 252465. Grams: "WORTHINESS".

Mehta, S., & Co., Mill Gin Stores Suppliers, Anees Chambers Annexe, Carnac Road, Bombay 1.

Mehta Textile & Hardware Stores, Hardware, Tools, Engineering Stores, Pipe fittings & General Merchants. 158/160, Narayan Dhuru Street, Bombay 3.

MENLEY & JAMES LTD., Manufacturing Chemists (Incorporated in England with limited liability). Bombay Branch: 141, Fort Street, Fort, Bombay 1.

Menora Hosiery Works Ltd., Manufacturers of Hosiery knitted wears. Ruby Terrace, opp. 3rd Pasta Lane, Bombay 6.

Monty, S. M., & Co., 11-13, Horniman Circle, Fort, Bombay 1. Stockists of all kinds of canvas for all purpose, Hessian, Gunnies, Flax and Jute Twines, Plastic Sheets, Oil Cloth, Leather Cloth, Book binding Cloth, Waterproof Cloth, etc., and Manufacturers of Tarpaulins, Holdalls, Kit Bags, Sails, Awnings, etc., etc. Tel. Address: "Tarpaulin." Phone No. 258620.

Mercantile Essential Oil Company, Dealers in Indian Essential Oils. Stockists of Palma Rosa Oil (Motia & Sofia) and Ginger Grass Oils, 5, Mint Road, Fort, Bombay. Phone No. 261357. Grams: "Geraniol."

MERCANTILE TRADING CO.

Dealers in all kinds of Minerals used by Paint Factories, Cotton Mills, Sugar Factories, Match, Glass and Rubber Factories, Paper Mills, Chemical Works, Leather Works, Pottery Works, Toilet and Sundry Manufacturers, Jute Mills, Foundries, Film Industry.

Office: Gulzare Kasmi, Mazgaon, Bombay 10. Phone No. 40794. Gram: 'Track'.

Specialities:—Pumice Stone Blocks, Pumice Powder, Silica Powder, Barytes and all Red Oxides.

Products used by various factories: Burnt Sienna; Raw Sienna; Burnt Turkey Umber; Raw Turkey Umber; Yellow Ochre; Red Ochre; Red Oxide; Black Oxide; Black Manganese; Chocolate Brown; Ivory Black; Green Earth; Whiting; Graphite; French Chalk; China Clay; Black Manganese Dioxide; Barytes; Bauxite; Kiesulghur; Calcium Carbonate; Lamp Black; Vermilion; Zinc Grey, Slate Stone Powder.

Merchants Bros., Mill Gin Store, Brushes and Fire-fighting Equipments Dealers, 151, Nagdevi Street, Bombay 3. (See under "Mill Gin Store".)

MERMAID PAINTS PRIVATE LTD., Manufacturers of "Mermaid" and "Chakra" Brand Paints for all purposes, Printing Inks, Varnishes, etc. *Directors:* J. K. Rege, J. N. Bhalsa, K. G. Kudva, S. K. Rane, J. D. Saurashtri, Purshottam Jethabhai, Jivanlal Lallubhai, C.W. H. P. Waud, Pratapsingh Purshottam. Alice Buildings, 339, Dr. Dadabhai Naoroji Road, Fort, Bombay 1. Phone: 255771. Tel. Address: "Waudco." *Factory:* Kalyan (Central Rly.) Phone: Kalyan 26.

MERWANJEE BOMANJEE DALAL, Stock, Share, Bullion, Exchange and Finance Brokers, Allahabad Bank Bldg., Apollo Street, Fort. Tel. Address: "Giltedged." Phone No. 25-5317.

Merwanjee Poonjiajee & Sons Private Ltd., Manufacturers of Chutneys, Pickles, Curry-Powder, etc., Poonjiajee Building, Prince's Dock, Bombay 9. Phone: 23833. Grams: "CHUTNEY."

METALS PRIVATE LTD.
Structural Engineers & Contractors, Steel Doors and Windows a Speciality.
Office: 269, Dadabhoy Naoroji Road, Bombay 1.
Grams: "TRUMETAL".
Works at: 44, Nesbit Road, Bombay 10.

Metal Distributors Ltd., Importers & Exporters of Metals. 12/18, Vithalbhai Patel Road, Bombay 4.

Metal Printers Co., The Agakhan Building, 4th floor, 9, Dalal Street, Fort, Bombay 1.

METALLICA WORKS, PRIVATE LTD.

11, Worli Road, Bombay 18.

Grams: METAMELT Bombay 18. Phones: 75432, 75433, 75434.

MAKERS OF METALS

Virgin Metals—Gunmetals—Brasses—Bearing-Metals — Tinsolders — Type-metals — Non-Ferrous Semis — Ferrous and non-Ferrous Castings, etc.

Sole Selling Agents & Stockists : Bound Brook Bearing Ltd., London: "Compo" Oil Retaining Bearings. Delta Metal Co., Ltd., London: "Delta" Bronze Welding Rods, etc.

Metcalfe & Hodgkinson, Private Ltd., Marine Surveyors and Assessors, Mackinnon Mackenzie's Building, Ballard Estate.

Tel. Address: "Bullwanger," Bombay. Phone No. 26-2526.

Metrogold Electric Stores. Dealers in Electric heating & Cooking Appliances, Vithal Sayana Building, 60, Lohar Chawl, Bombay 2.

METRO-GOLDWYN-MAYER INDIA LTD., Motion Picture Distributors.

Tel. Address: "Metroflims." Phone Nos. 24-2105, 24-2108.

Head Office:—"Metro House," Mahatma Gandhi Road. Bombay 1.

Branches at Calcutta, New Delhi and Madras.

Metro Industrial & Mfg. Co., Manufacturers of quality "METRO" Brand Stainless Steel Utensils. Harihar Nivas, Khetwadi 3rd Lane, 253, Sandhurst Road, Bombay 4.

Metro Motors, "The Motor House," Hughes Road, Bombay 7. Automobile Engineers and Dealers. Phone:. 41367, Grams: 'METRO'.

Metro Music, Gramophone and Radio Dealers, Kalbadevi Road Tram Junction, Dhobi Talao, Bombay.

MHATRE & MENDES, 156, Lady Jamshedji Road, Bombay 16. Automobile Engineers.

Midway Service Corporation (India), Electrical Engineers & Contractors, Shree Krishna Nivas, Abdul Rehman Street, Bombay 3.

MILAN SPRING WORKS, Manufacturers of Precision and Industrial Springs, 39, Khandia Street, Near Two Tanks, Bombay 6. Phone: 76960.

Millars' Timber & Trading Co., Ltd. (Established-1902), Victoria House, Victoria Road, Bombay 27. Road-making Machinery, Contractors' Plant and Timber. London Office: Pinners' Hall, E.C. 2. Works: Bishops Stortford, Herts. Branches throughout the World. Tel. Address: "Jarrah." Phone No. 72103, P.O. Box No. 282, Bombay 1. Manager for India: P. Sukumaran. Agents:—Throughout India.

Mineral Mining Co., Private Ltd., The. 111, Industrial area, Sion, Bombay.

Minerva Furniture Works, 67, Queen's Road, opp. Marine Lines Station, Bombay 2. Phone: 241129.

MINIMAX LIMITED



FOR FIRE FIGHTING EQUIPMENT

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MANUFACTURERS OF "MINIMAX" CHEMICAL HAND FIRE-EXTINGUISHERS AND ENGINES

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H.O. for India:
Mercantile Building, Lal Bazar St., Calcutta

Bombay Office :
Janmabhoomi Chambers, 29, Fort Street, Bombay-1

Phone: 26-2879. Grams: "MINIMAXIAL"

Mira Chemical Works, Chinchpokli, Bombay 27. Manufacturers of Calcined Glauber's Salt.

Miranda, Private Ltd., S. S., Merchants. Champsi Bhimji Road, Mount Road, Mazagaon, Bombay 10.

MISTRY, M. E. J., Import & Export Merchant. Established 1900. Address: "Florencia," 17th Road, Khar, Bombay 21. Tel. Address: "Munchtiles." Phone: 88085. Codes used: Bentley's & Schofield's 3 Letter. Bankers:—Hongkong & Shanghai Banking Corporation, Bombay.

Mitra, H. P., Non-Ferrous Metals, 304/305, Himalaya House, Dr. Dadabhoy Naoroji Road, Bombay.

MITRA & CO., S., Agents and Chief Distributors for:—W. Canning & Co. Ltd., Birmingham, England. Manufacturers of Electroplating and Polishing Equipments and Materials. Bachubai Building, 187, Dadabhoy Naoroji Road, Fort, Bombay 1. Phone No. 26-2087. Grams: "Mitrasahi." Branches at Calcutta and Madras.

Phone : 41022. *Estd.* 1915.
Grams : "INFLUX". Incorporated 1955.

R. J. MISTRY & CO. PRIVATE LTD.
Props.
of
ANILINE DYES & CHEMICAL CO.
(Estd. 1922).

Agents & Importers of Aniline Dyes for all Purposes.

Suppliers of Drugs & Medicines.

3, Gilder Lane,
Off Lamington Road,
Bombay 8.

MITSUBISHI SHOJI KAISHA LIMITED

(*Incorporated in Tokyo.*)

Kasturi Building, Jamshedji Tata Road, Bombay-No. 1

Phone Nos. 37804 & 37805.
Cables: "MITSUBISHI".

Other Branches in India at Calcutta, New Delhi & Madras.

Exporters, Importers, Manufacturers' Agents, Representatives.

'Mitsubishi' Group in Japan :—

Mitsubishi Shipbuilding & Engineering Co., Ltd.
Mitsubishi Heavy-Industries, Reorganized, Limited.
Mitsubishi Nippon Heavy-Industries Limited.
Mitsubishi Electric Manufacturing Co., Ltd.
Mitsubishi Oil Co., Ltd.
Mitsubishi Metal Mining Co., Ltd.
Mitsubishi Mining Company, Limited
Mitsubishi Steel Co., Ltd.
Mitsubishi Steel Manufacturing Co., Ltd
Mitsubishi Chemical Machinery Mfg Co., Ltd.
Mitsubishi Chemical Industries Limited
Mitsubishi Rayon Company, Limited.
Asahi Glass Company, Limited.
Mitsubishi Paper Mills, Ltd.
Mitsubishi Cement Co., Ltd.
Kirin Brewery Company, Ltd.
Mitsubishi Shipping Co., Ltd.
The Mitsubishi Warehouse Co., Ltd.
The Mitsubishi Bank, Ltd.
The Mitsubishi Trust and Banking Corporation.
Mitsubishi Estate Co., Ltd.
The Tokyo Marine and Fire Insurance Co., Ltd.
Mitsubishi Economic Research Institute

MODAK RUBBER PRODUCTS PRIVATE LTD., Managing Agents: Modak & Company. Registered Office & Factory: Verma's Building, Golanjee Hill Road, Sewree, Bombay 15. Phone: 621[illegible] Grams: 'MODRUB.' Manufacturers of all types of Industrial & Pharmaceutical moulded and extended Rubber goods in natural & Synthetic Rubber. Also manufacturers of automobile requirements.

Model Art Printery Private Ltd., Raised printing specialists. 4, Nanabhoy Lane, Fort. Phone: 252725.

Model Mills, Nagpur, Ltd. Agents—Bansilal Abirchand Dadabhoy & Co. Registered Office: Ilaco House, Sir Phirozshah Mehta Road, Fort, Bombay.

Modern Electric Co., Engineers, Contractors and Temporary Illumination specialists, 46, Cawasji Patel Street, Opp. Hongkong Bank, Fort, Bombay 1. Phone: 28703.

MODERN MECHANICAL & MARINE WORKS, Ship Repairers and Engineers, 93, Marine House, Dongri Bridge, Bombay 9. Telegrams: "Marineluck." Phone Nos. 71319 & 41523.

Modern Photo Stores and Studios, Photographic Goods Dealers and Photographers, 358, Lamington Road, Bombay 7.

MODERN TRADING COMPANY, Importers, Dealers & Distributors in Radios, Radio Accessories & Electrical Domestic Appliances; Head Office: Sukh Sagar, Sandhurst Bridge, Hughes Road, Bombay 7. Phone: 74546. Tel. Address: "Lokshewak."

Representing Exclusively:

Mullard Valves, Hunts Condensers, Celestion Loudspeakers, Goldring Products, G.E. Radio Valves, McMurdo Valve Bases, V & E Lamps, W. W. Products, Kenwood Domestic Appliances, Swan Electrical Appliances.

Branches at:

New Delhi, Calcutta, Madras, Bangalore City.

Modern Tools & Hardware Mart, Engineering Stores & Hardware Merchants, 43, Dhanji Street, Bombay 3.

Modern Tube & Sanitary Stores, Pipe Fittings Merchants, 48, Nagdevi Street, Bombay 3.

Modern Waterproof Papers Manufacturing Co., 109, Masjid Bunder Road, Bombay 3.

Modi & Company, K. B. (Estd. 1911), Direct Importers of Cycles, Motor Cycles & Accessories. Ebrahim Mansion, 366/68, Kalbadevi, Bombay 2.

Modi & Modi Co., Dealers in everything Electrical, 16, Hamam Street, Fort, Bombay 1. Phone No. 252619. Grams: "REFLECTORS."

Mody, J. E., & Sons, Coffee Specialists, 164, Hornby Road, Fort. Phone No. 261698.

Mody, R. E., & Co., Dealers in Timbers, Plywoods, Hard Boards, etc. Sole Distributors for 'Best Mudis Blend Tea' and Commission Agents, Reay Road, Bombay 10. Phone No. 41186. Grams: "Timbers."

MOGUL LINE LTD., 16, Bank Street, Fort. Regular Service from Bombay and Karachi to Mauritius, and Red Sea Ports. Managing Agents—Turner, Morrison & Co. Private Ltd., 16, Bank Street. Pilgrim Booking Office, Nos. 4 and 5, Mahomed Haji Saboo Siddick Musafirkhana, Carnac Road. Phone No. 26-2780. London Correspondents—Geoffrey Turner & Co., Ltd., 7, St. Helen's Place, Bishopsgate. Code used: A.B.C. 6th Edition and Company's Private Code. Telegraphic Address: "Mogul". Telephone Nos. 25-1321 to 25-1327. P.O. Box No. 194.

MOHAMADI FINE ART LITHO WORKS (Proprietors: Allibhoy Sharafally & Co., Private Ltd., Bombay). Mohamadi Bldgs., Mazagon, Bombay 10. Phone: 40235 & 42087. Grams: "KORAN."

Mohamed Umar Chandbhoy, General Exporters and Commission Agents. Estd.: 1836 A.D. 150, Nagdevi Street, Bombay 3. Tel. Address: "SAFREE."

Mohamedalli Gulamhusein Imani, Gold and Silver Thread Lametta Merchants, 13, Sutar Chawl, Bombay 3.

Mohan Brothers, Suppliers of Imported Wines, Cigarettes & Provisions to Ships & Embassies, 9, Ismail Building, Flora Fountain, Bombay 1. Phone: 252417. Grams: "GEEALEBEE." Branches: Delhi, Jodhpur, Hyderabad-A. P. and Calcutta.

Mohan Sons (Bombay) Private, Ltd., Merchants, & Manufacturers, 125, Mahatma Gandhi Road, Bombay. Phone No. 22127. Tel. Address: "Protection."

Mohanlal & Co., Mfrs. & Dealers of Bolts, Nuts & Screws, Diamond Bldg., Lohar Chawl, Bombay 2.

Mohanlal & Co., Toilet, Perfumery & Patent Medicines & General Merchants. 61, Princess Street, Bombay 2.

Mohanlal & Co., Marble, Tiles & Sanitarywares Merchants. 49, Duncan Road, Bombay 4.

MOHANWI CORPORATION PRIVATE LTD., Importers & Dealers in Agricultural Earth moving machinery, Tractors, Diesel Locomotives, Cranes etc. Co-operative Insurance Building, Homji Street, Fort, Bombay 1. Phone: 252649. Grams: 'MOHCOP.' Head Office: Lucknow. Branches: Bombay and New Delhi.

Monitor Radios, Dealers and Importers in Radios, opp. Roxy Talkies, 24, New Queen's Road.

Monotype Corporation Ltd., The, 1st Floor, India House, Opp. G.P.O., Bombay. Phone No. 263167. Tel. Address: "Remonotype."

MONSANTO CHEMICALS OF INDIA PRIVATE LTD., Wakefield House, Sprott Road, Ballard Estate, Bombay 1. Phone: 26-2624. Grams: "MONSANTO." Importers of Industrial Chemicals, Pharmaceutical Chemicals & Plastics powders manufactured by Associated Companies in U.S.A., U.K., Australia and Canada. Branch Offices: 1) The Exchange, 5, Mission Row, 2nd Floor, Calcutta 1. 2) 3 8, Ajmeri Gate Extn. Scheme, near Turkman Gate, New Delhi.

MONTANA PRIVATE LTD., Regd. Office: Rahimtoola House, Homji Street, Bombay 1. Tel. Address: "Metalsmith." Ferrous & Non-Ferrous Metals. *Chairman:* Y. A. Jasdanwalla, *Mg. Director:* Dr. F. R. Goldschmidt. Phone Nos.: Head Office:—30154, Refinery:—75715.

Moolchand & Co., R., Dealers in Pipe-Fitting and Sanitarywares. 44, Nagdevi Cross Lane, Bombay 3.

Mooljee Jaitha & Co., 187, Princess Street, Bombay 2. P. O. Box No. 2295. Phone No. 20058. Tel. Address: "Coronet." Oil Merchants and Commission Agents, etc. Oil Dept.: Narsi Natha Street, Bombay. Phone: 20125.

Mooljee Sicka & Co., Indian Tobacco, Bidi, Bidi Leaves and Tea Merchants, Tea Estate Owners, Landlords, Exporters & Importers. Sicka Nagar, Vithalbhai Patel Road, Bombay 4. Phone: 72552. Branches at Gondia (M.P.), Darjeeling, Champa (C.P.), Aurangabad (Murshidabad), Lucknow, Kanpur, Ambala. Head Office: 51, Ezra Street, Calcutta. Phone: 34-2748.

MORARJEE GOCULDAS SPINNING & WEAVING CO., LTD., Number of Looms 1,652, Spindles 71,652. *Agents:* Piramal Sons Private Ltd., *Directors:* Gopikisan Piramal, Mohanlal Piramal, Sanwalram R. More, Motilal Tapuriah, Basudeo Kanoria.

***Secretary:* P. B. Modi, M.Com., LL.B.**

***Manager:* P. S. Bagarka, M.A.**

Registered Office at the Mill, Soparibaug Road, Parel, Bombay. Phone No. 60021 (Three Lines). Tel. Address: "MOGOCO".

More, S., & Co., Decorators, Painting Contractors and Sign Painters, Specialists in Shop Fronts, Commercial and Dispensing Displays, 34-38, Hamam Street, Fort. Phone No. 252019. Tel. Address: "Packwell."

MORISON, J. L., SON & JONES (INDIA), PRIVATE LTD., Bombay, Calcutta, Madras, Contractor Building, Nicol Road, Ballard Estate, Bombay 1.
Tel No. 26-1823. Tel Address: "Conflict."

London Associate Company.

Morison, J. L., Son & Jones Ltd., 6, Albemarle Street, London W.1. also at Lagos, Port Harcourt, Accra, Cairo, Karachi, Chittagong, Colombo, Rangoon, Singapore, Penang, Kuala Lumpur and Bangkok.

Sole Agents for:—

Addis, "Wisdom" Nylon Toothbrushes and other Toilet Brushes.

Bob Martin (Export) Ltd., "Condition Tablets" and Dog Remedies.

Delavelle (G.B.) Ltd, 'Go' Stick Deodorant, etc.

E. C. DeWitt & Co., Ltd., "DeWitt's Kidney and Bladder Pills."

Ephazone & Co., "Ephazone" for Asthma, Bronchitis, etc.

E. T. Pearson & Co., Ltd., "Lactagol," "Tensol," "Rhinitol," "Iodinosol," etc.

Frank Cooper Ltd., "Oxford" Marmalade, etc.

Gala of London Ltd., Nail Colour, Lipsticks, Liplines, etc.

J. Goddard & Sons, Ltd., Goddard's Plate Powder, Silver Cloth Liquid Polish, etc.

James Pascall Ltd., Confectionery.

Marmite Food Extract Co., Ltd., "Marmite."

Mead Johnson & Co., "Mead's" Vitamin Preparations.

Morny, Ltd., Perfumery and Toilet Specialists.

Optrex (Overseas) Ltd., "Optrex" Eye Lotion.

Perry & Co., Ltd., Perry's Pens, etc.

Riker Laboratories Ltd., Patent & Proprietary Medicines.

Ronuk, Ltd., "Household Polishes." Boot, Furniture and Floor Polishes.

Scott & Turner, Ltd., "Andrews Liver Salt."

Spalding, A. G. & Bros., Golf Clubs & Golf Balls & Tennis Balls and Tennis Rackets, Villa Table Tennis Balls.

Spencer & Co. Ltd., "Urodonal".

T. J. Smith & Nephew Ltd., Surgical Dressings, 'Elastoplast,' 'Gypsona', Pharmaceuticals and 'Nivea' creme, etc.

Teasdale & Co., Ltd., 'Nipits', etc.

Thos. Christy & Co., Ltd., "Glyco-Thymoline."

Pharmaceutical Manufacturing Co. Ltd., "Novutox" & "Xylotox" Self-sterilising Local anæsthetics.

Valor Co., Ltd., "Stoves, Cookers, Ovens," etc.

British Alkaloids Ltd., "T.C.P. Antiseptic Lotion, etc."

Milton Proprietary Ltd., "Milton Antiseptic Lotion and Denture Powder."

Thos. Glover & Sons, Ltd., "Veriog" Kneecaps, Anklets and other Surgical Appliances.

Distributors for Burroughs Wellcome & Co. (India) Private Ltd. in Bengal, Assam, Bihar & Orissa. Also for Nivea Pharmaceuticals Ltd. in Bombay and Madras.

Motabhoy Gulabdas & Co., Neptune Building, 104, Apollo Street, Bombay 1.

MOTANDAS & CO., T., Wines and Provisions, Import-Export manufacturers of Plastic Advertising Gifts. 1st Marine Street, near Metro, Post Box 1896, Bombay 1.

Branches: Saddar Thana Road, Delhi; Station Road, Jaipur; Sojati Gate, Jodhpur; Troop Bazar, Hyderabad (Dn.); invite inquiries for Indian Goods for export.

Motichand & Co., Engineers & Contractors, United India Building, Sir Phirozshah Mehta Road, Fort.

Motilal Bawalal, Share, Stock and Finance Brokers, Agakhan Building, Dalal Street, Fort.

Motilal Dayabhai & Sons, Jewellers, 208, Walkeshwar Road, Bombay.

Motilal Vijbhukhandas, Bullion Merchants, 155, Shaikh Memon Street, Bombay 2.

Motiwalla & Sons Private Ltd., Importers, Exporters, Yarn and Piece-goods Merchants, 91, Mahomedally Road, Bombay 3. Phone: 23318. Grams: "Premium."

Motor Hood Depot, The, Motor Body and Upholstery materials. 480, Sandhurst Road, Bombay 4. Phone: 71097. Grams: "MOTORHOOD."

MOTOR HOUSE LIMITED, Estd. 1927. Admn. Office, Showrooms and Service Station: "House of Mehta", Hughes Road, Bombay 7, P.B. No. 6546, Bombay 26; Cables: "MOTORHOUSE", Bombay. Telephone Nos.: 77435 & 77436; Branches: Bombay (Fort), Ahmedabad, Rajkot, Nagpur, Poona, Hubli, New Delhi, Chandigarh, Gwalior, Jaipur, Indore & Bhopal.

Halda Facit Office Equipment Division: Exclusive Sales and Service Concessionaries of HALDA Typewriters, FACIT Calculators, FACTA Adding and Listing machines and other specialized office equipment; Town Sales Office: Dhan-Nur, Sir F. Mehta Road, Fort, Bombay. Tel: No. 261311.

Engineering Division:

(a) ROTOTILLER: Sole Importers and Exclusive Distributors for ROTOTILLER 5 h.p. Tractor and Implements.

(b) KELLOG-AMERICAN: HANCOCK: GARAGE EQUIPMENT: Importers of Kellogg American Air Compressors, Hancock Metal Cutting Machines, Garage Equipment and Tools. Bombay Sales Depot: "Krishna Bhuvan", 442-43, Sandhurst Road, Bombay 4.

Automobile Division: Kaiser-Frazer, Reo and Bradford: Pioneers of Automobile Assembly in India; Assemblers of Kaiser-Frazer Motor Cars, Reo and Bradford Commercial Vehicles; Manufacturers of Custom Automobile Bodies; Manufacturing Plant and Warehouses: 18, Rifle Range, Ghatkopar, Bombay-39. Tel. No. 67441.

Parts Division: Kaiser-Frazer, Reo and Bradford: Sole Importers and Exclusive Distributors in India of genuine Kaiser-Frazer, Reo and Bradford Parts and Accessories; Bombay Sales Depot: "Krishna Bhuvan", 442-43, Sandhurst Road, Bombay-4.

Domestic Appliance Division: Crosley-Easy: Sole Importers & Exclusive Distributors of Easy Washers and Dryers, Crosley Shelvator Refrigerators and Murphy-Richards Table Model Refrigerators and other Electrical Appliances.

MOTOR INDUSTRIES CO., LTD., Manufacturers of Fuel Injection Equipment & Spark Plugs. Stockists of Automobile Parts & Accessories. 41, Queen's Road, Bombay 2. Phone: 39065. Grams: "ELEMENT". Head Office: Post Box No. 93, Bangalore. Branches: Madras & Calcutta.

MOTOR UNION INSURANCE CO., LTD., THE (Incorporated in England with Limited Liability), 16, Veer Nariman Road, Fort, Bombay. Fire—Motor——Marine—Accident—Workmen's Compensation, etc.
Tel. Address:—"Motunicon."
Phone No. 255136 (3 Lines).
Post Box 595.
Resident Manager:—H. M. Chawalla.

MOTWANE (PRIVATE) LTD., incorporating CHICAGO TELEPHONE & RADIO CO. PRIVATE LTD. (Estd. 1909), Electrical, Mechanical and Electronic Engineers and Contractors for everything in electrical, electronic, mechanical and tele-communication equipments, sound systems and industrial plants, 127, Mahatma Gandhi Road, Post Box No. 1312, Fort, Bombay 1. Phone No. 252337 (3 lines). Branches at 25, Chowringhee, Calcutta; 48, Hazratganj, Lucknow; 68, Queensway, New Delhi; 196, Mount Road, Madras; 93-94, Sri Narasimaharaja Road, Bangalore, 2; 422, Lamington Road, Bombay 4. Tel. Address: "CHIPHONE", all offices.

Mushhals, & Co., H. R., 176, Bazar Gate Street, Fort.

MUKAND IRON & STEEL WORKS LTD. (Managing Agents: Jeewan Private Ltd.). Owners of Electric Steel Melting Furnaces, Rolling Mills, Steel & Iron Foundries. Manufacturers of Mild Steel Bars and Rods in Tested and Commercial Qualities, Steel Castings, Manganese Steel Castings and Cast Iron Castings for Railways, Wagon Builders, Locomotive Works, Cement Works and other Industries. Works and Admn. Offices: Bombay-Agra Road, Kurla, Bombay 37. Phone: 67471 (4 lines). Grams: "STEEL", Bombay; "JEEWAN", Kurla.

MULCHANDANI ELECTRICAL & RADIO INDUSTRIES PRIVATE LTD., Manufacturers of Bush Radios and Component parts. Sukh Sagar, Sandhurst Bridge, Hughes Road, Bombay 7. Phone: 74546. Grams: 'MUL RAIN.'

MULCHAND SOORCHAND, Dealers in Copper and Brass Rods, Pipes, Sheets, Sheathings, Rivets, Washers, Metals, etc., Tambakanta, Pydhownie, Bombay 3. Phone No. 73465. Tel. Address: "Mulsar."

Mulraj Khatau & Sons Private Ltd., Laxmi Building, Ballard Road, Fort. Phone Nos. 26-1093/94. Directors: Dr. Dharamsey Mulraj Khatau, J.P., Chandrakant Mulraj Khatau, Lalitkumar Mulraj Khatau, Abhay Laxmidas Khatau and Ashokkumar Morarji Khatau. Tel. Address: "Emandco."

Mulvaney & Co., Ltd., John L., Bombay Mutual Building, Hornby Road.

MUNSHI & CO., PRIVATE LTD., Engineers, Engravers and machinery merchants. Manufacturers of Soap plants, Cake mixers, Chocolate mixers, Rubber mixing rollers, Ink making machines, Cardboard box making machines, Wax candles making machines, Bakelite presses, all kinds of Embossing, Dies, Punches, Stamps, Dies for Electrical accessories and stainless steel bolts, nuts and screws, etc.
Office: 181-83, Bapu Khote Street, Pydhownie, Bombay 3. Phone: 72559. Tel. Address: "SPECIALDIE".
Factory: Munshi Cottage, 661, Haines Road, Worli, Bombay. Phone: 76264.

Munshi & Co., Transport Agents, Mohamedali Road, Bombay 3.

Murphy Radio of India Ltd., Dr. Shivakar Road, off Hospital Avenue, Parel, Bombay.

Musry, G. N. Private Ltd., Importers & Exporters. Canada Building, Home Street, Fort. Phone: 261435.

Mysore Chemical & Soap Works, Sion, Bombay 22.

N. P. Master & Co., Exporters & Importers, 17, Gunbow Street, Fort.

NADIRSHAW & BRO., Engineers, Brass & Iron Founders, Manufacturers of all sorts of Machinery Spare Parts, Boiler-maker Work and Contractors. "Silver Talkies" Building, Khetwadi Back Road, Bombay 4. Phone No. 71504.

Nadirshaw Printer & Co., Suppliers of Dental Goods and Equipment, 121, Mahatma Gandhi Road, Fort.

NAGDEVI TOOL-STEEL MART.
Including R. Baleobhai & Co.
Steel Merchants,
Government & Railway Contractors, 186, Nagdevi Street, Bombay 3.
Phone Nos. 28919, 28058 Grams: "Tenderers".

NAGINDAS KILABHAI & CO., Direct Importers and Distributors of Textile Mill Stores, Crescent Chambers, Tamarind Lane, Fort, Bombay. Phone: 253..9 Grams: 'HONOUR.'

NANDALAL GANDHI & CO., Exporters of Vegetable oils, Oil Seeds, Oil Cakes, Spices & Textiles. Rehman Buildings, Churchgate Street, Fort, Bombay 1. Phone: 252118 Gram: "ASPIRING".

NARANDAS PRAMANANDDAS, 2nd Floor, Mithawala Building, 272, Vadgadi (Samuel Street), Bombay 3. P.O. Box No. 1739, Bombay 1. Tel. Address: 'SHERGOLA.' Phone: 38881.

Head Office:—37, Armenian Street, Calcutta. Tel. Address: "Kundlaker" Phone: 233409. General Importers, Exporters and Dealers in Dyestuffs and Chemicals.

Narandas Rajaram & Co., Private Ltd., Cotton Merchants & Textile Exporters, Navsari Chambers, Outram Road, Fort, Phone: 261861.

Narendra Electric Stores, Electrical Goods & Appliances Merchants, 158, Lohar Chawl, Bombay 2.

Narendraroy & Company, Dealers in Cycles and Accessories, 453, Kalbadevi Road, Bombay 2.

Nariman B. Bharucha & Sons, Builders, Civil & Sanitary Engineers, Specialists in prestressed & Thin Shell Concrete Structures, Khalakdina Terrace, 1st, Gowalia Tank Road, Bombay 26. Phone: No. 40914. Grams: "BARUKSONS."

NEROTHE & PEREIRA PRIVATE LTD., Shipping and Insurance Agents, Bunkering, Landing Contractors, Stevedores, Dubash, Colombo and Galle. Registered Office: Schalck House, Dougall Road, Ballard Estate. Tel. Address: "Jalathara." Bombay, Phone No. 26-2461. *Directors:* Smt. Hansaji S. Mosarjee (Chairman), S. C. Ghosh, F. X. A. Pereira, R. P. Vevaina, J. C. Manavati, V. C. Machadwalla and S. C. Banker.

Munshi & Co., Transport Agents, Mohamedali Road, Bombay 3.

Murphy Radio of India Ltd., Dr. Shivakar Road, off Hospital Avenue, Parel, Bombay.

Musry, G. N. Private Ltd., Importers & Exporters. Canada Building, Home Street, Fort. Phone: 261435.

Mysore Chemical & Soap Works, Sion, Bombay 22.

N. P. Master & Co., Exporters & Importers, 17, Gunbow Street, Fort.

NADIRSHAW & BRO., Engineers, Brass & Iron Founders, Manufacturers of all sorts of Machinery Spare Parts, Boiler-maker Work and Contractors. "Silver Talkies" Building, Khetwadi Back Road, Bombay 4. Phone No. 71504.

Nadirshaw Printer & Co., Suppliers of Dental Goods and Equipment, 121, Mahatma Gandhi Road, Fort.

NAGDEVI TOOL-STEEL MART.
Including R. Baleobhai & Co.
Steel Merchants,
Government & Railway Contractors, 186, Nagdevi Street, Bombay 3.
Phone Nos. 28919, 28058 Grams: "Tenderers".

NAGINDAS KILABHAI & CO., Direct Importers and Distributors of Textile Mill Stores, Crescent Chambers, Tamarind Lane, Fort, Bombay. Phone: 253..9 Grams: 'HONOUR.'

NANDALAL GANDHI & CO., Exporters of Vegetable oils, Oil Seeds, Oil Cakes, Spices & Textiles. Rehman Buildings, Churchgate Street, Fort, Bombay 1. Phone: 252118 Gram: "ASPIRING".

NARANDAS PRAMANANDDAS, 2nd Floor, Mithawala Building, 272, Vadgadi (Samuel Street), Bombay 3. P.O. Box No. 1739, Bombay 1. Tel. Address: 'SHERGOLA.' Phone: 38881.

Head Office:—37, Armenian Street, Calcutta. Tel. Address: "Kundlaker" Phone: 233409. General Importers, Exporters and Dealers in Dyestuffs and Chemicals.

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Narendra Electric Stores, Electrical Goods & Appliances Merchants, 158, Lohar Chawl, Bombay 2.

Narendraroy & Company, Dealers in Cycles and Accessories, 453, Kalbadevi Road, Bombay 2.

Nariman B. Bharucha & Sons, Builders, Civil & Sanitary Engineers, Specialists in prestressed & Thin Shell Concrete Structures, Khalakdina Terrace, 1st, Gowalia Tank Road, Bombay 26. Phone: No. 40914. Grams: "BARUKSONS."

NEROTHE & PEREIRA PRIVATE LTD., Shipping and Insurance Agents, Bunkering, Landing Contractors, Stevedores, Dubash, Colombo and Galle. Registered Office: Schalck House, Dougall Road, Ballard Estate. Tel. Address: "Jalathara." Bombay, Phone No. 26-2461. *Directors:* Smt. Hansaji S. Mosarjee (Chairman), S. C. Ghosh, F. X. A. Pereira, R. P. Vevaina, J. C. Manavati, V. C. Machadwalla and S. C. Banker.

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(ESTD. 1864)

LEADING JEWELLERS OF THE EAST

LAMINGTON ROAD, BOMBAY 4.

PHONE NO. 71433.

Branch at: Sheikh Memon Street.

PHONE NO. 20565.

Narottamdas Karsandas & Co., International Oil-Products Importers, Merchants and Distributors and General Indenting Agents, 278, Dr. Dadabhai Naoroji Road, Fort, Bombay. Tele. 26-2215.

Narsi Mulji & Co., 179, Khoja Moholla, Bombay 9. Merchants, Commission Agents, Importers & Exporters of Grain, Seeds and Gums.

Nasserwanji & Co., Contractors to Government and Indian Navy, 10-B, Homji Street, Fort. Phone No. 253692. Tel. Address: "Beatific."

Partners:—Jeejeebhoy N. Dubash and Rusi N. Dubash.

Naterwalla, & Co., S. R., Dealers in Canvas, Tapestries & Furniture Cloth & Railway Stores, Bombay Mutual Annexe, Gunbow Street, Fort.

National Advertising Service, Ltd., People's Building, Sir Phiromshah Mehta Road, Fort. Grams: "Jeyenjeyn," Bombay. P.O. Box No. 511. Tel. No. 261846. Associates all over the world.

National Bearing Co., Ltd., 26, Calicut Street, Fort, Bombay 1. Manufacturers of Ball Bearings.

NATIONAL CARBON CO. (INDIA) LTD., Manufacturers of 'EVEREADY' Products. Lakshmi Building, Sir Phiroshah Mehta Road, Fort. Bombay 1. Phones: 263240 & 263968. Grams: 'EVEREADY'.

NATIONAL CASH REGISTER CO., Steelcrete House, Dinsha Wacha Road, Back Bay Reclamation, Bombay 1. Phone No. 35955. National Cash Registers, Adding, Accounting and Analysis machines; Agents for India: "Addressograph" Addressing and Embossing machines, Friden Calculators, Multigraph and Multilith Printing machines and Banda Duplicators. Head Office: CALCUTTA.

NATIONAL DYES, Manufacturers of Dyes & Auxiliaries, such as, National Congo Red, Developing Salts, Solubilised Azoic etc. Girton House, Lamington Cross Road, Bombay 7. Phone: 70999. Grams: 'RAPIDFAST.'

NATIONAL EDUCATION & INFORMATION FILMS LTD., National House, Tulloch Road, Apollo Bunder, Bombay. Grams: "Edufilms." Phone: 35159. Educational Films, Film-Strips, Projectors and other Audio Visual aids to Education. Producers of Documentary, Children's, Industrial & Publicity Films.

Sole Distributors in India for:—National Film Board of Canada, UNO Films; Coronet Films; Bray Studios; Czechoslovak Films; Common Ground Ltd., etc.

NATIONAL ENCO RADIO & ENGINEERING CO. LTD., THE, Ewart House, Bruce Street, Fort, Bombay 1. Phone No. 262015. Associated with Messrs. E. K. Cole Ltd., Southend-on-Sea, Essex, England.

Manufacturers of Radio Sets, Village Community Receivers, Components and other Electronic Equipment.

Directors:
A. D. Shroff (*Chairman*).
J. D. Choksi.
N. H. Tata.
E. K. Cole.
Hirjee C. Jehangir.
S. Moolgaokar.

Managing Agents: The Investment Corporation of India Ltd.

Works: Shri Shakti Mills Compound, Haines Road, Mahaluxmi, Bombay. Phone Nos. 75342-3. General Manager, H. V. Major.

NATIONAL ELECTRICAL INDUSTRIES LTD. *Works & Offices:* Industrial Estate, Lalbaug, Bombay 12. Phones: 77391-2-3. Grams: "Natelin." Makers of Power & Distribution Transformers, Electric Motors, Motorised Grinders, Monobloc pumps, etc.

National Employers' Mutual General Insurance Association, Limited. *Head Office:* National Employers' House, 1-4, Bury Street, London, E.C. 3. Fire, Motor, Workmen's Compensation, etc.

Head Office for India: "Kamani Chambers," 32, Nicol Road, Ballard Estate, P.O. Box 730.

Manager for India:—K. L. Pasricha.

Branch Manager:—H. K. F. Nariman

Telegraphic Address: "EMPLOMUTUA."

Telephone: (2 Lines): 26-2823 & 4.

National Engineering Co., Oil Engines, Machinery & Engineering Stores, 9-D, 103, Nagdevi Street, Bombay 3.

National Engineering Works, Structural Engineers & Builders, Das Chambers, 25, Dalal Street, Fort, Bombay.

National Garage Private Ltd., The Largest Service Station & Automobile Engineers, Bhulabhai Desai Road, Bombay No. 26.

National Glass Bottle Co., Direct Importers of Soda Water Requisites, Lentin Chambers, Dalal Street, Fort.

NATIONAL HELICOPTERS PRIVATE LIMITED, Rotary Wing and Fixed Wing Aircraft sales and maintenance. Stockists of Aircraft parts and spares. Radio and Authorized instrument shop.

Head Office: Cambata Building, 42 Queen's Road, Bombay. Phone: 37191 (5 lines). Grams: "COALPITS".

Depot: Hangar No. 1, Santa Cruz International Airport, Bombay. Phone: 62291 (Extn. 11).

NATIONAL INSURANCE COMPANY OF NEW ZEALAND LIMITED, THE (Incorporated in New Zealand with Limited Liability). *Head Office:* Dunedin, New Zealand. *Principal Office for India:* Rahimtoola House, Homji Street, Fort, Bombay 1. Transacts Fire, Marine and Miscellaneous Business. Principal Officers for India: S. R. Idgunji, A.C.I.I. (Lond.), F.F.I.I. and A. Y. Jasdanwalla, B.A. Phones: 255557 & 255558. Grams: 'OTAGO,', Bombay.

NATIONAL MACHINERY MANUFACTURERS LTD., Kalwe, Thana. Tel. No. 64/1075. Manufacturers of Textile Spinning Machinery, Spares and Castings.

National Plastic & Allied Industries Ltd., Globe Mills Passage, Bombay 13. Manufacturers of Plastic Goods.

NATIONAL RAYON CORPORATION LTD., The, Ewart House, Bruce Street, Fort, Bombay. Telephone: 255401 (five lines). *Telegram:* NARACORP, BOMBAY. Manufacturers of Rayon Yarn, Sulphuric Acid, Carbon-disulphide and Caustic Soda. Factory at Mohone, Kalyan, C. Rly.

Directors: Shri Kasturbhai Lalbhai (Chairman)
Shri A. D. Shroff
Shri Jiwanlal C. Chinai
Shri Rasiklal J. Chinai
Shri T. V. Baddeley
Shri Mathuradas Mangaldas Parekh
Shri Krishnaraj M. D. Thackersey
Shri Arvind N. Mafatlal.

General Manager (Technical): Dr. M. D. Parekh.

Secretary & Manager: Shri C. G. Mahant.

Works Manager: Shri J. J. Mehta.

MANAGING AGENTS:
CHINAI AND COMPANY PRIVATE LTD., 79, Masjid Bunder Road, Bombay 3.

NATIONAL STEAMSHIP CO. LTD., THE. *Managing Agents:* Dilipsinh Private Limited, 293, Dr. Dadabhai Naoroji Road, Bombay 1. Branches and Agencies at All Important Ports. Telegraphic Address: (Inland) 'RASHTRA', (Foreign) 'VIJAYDHVAJ.' Telephone No. 26-4432.

National Steel Equipment Co., Manufacturers of steel furnitures, Naigaum Road, Dadar, Bombay 14.

NATIONAL STORES, Wine and General Merchants. Sitaram Buildings, Crawford Market, Bombay. Phone No. 263121. Grams: "Avija."

National Trading Co., 263, Dr. Dadabhai Naoroji Road, Fort, Bombay 1.

National Wire Heald Works (Private) Ltd., Manufacturers of Wire Healds, Lakshmi Bldg., Sir Phirozshah Mehta Road, Fort, Bombay. Phone: 26-2166/67.

NATURAL GAS CO., PRIVATE LTD., H.O.: 53-57, Laxmi Building, Sir Phirozshah Mehta Road, Bombay 1. Phone: 263435/6. Grams: 'Naturalgas'. *Branch:* 2, Moledina Road, Poona.

Sole Selling Agents for: MOBIL-FLAME LIQUID PETROLEUM GAS.—STANDARD VACUUM OIL CO.

Board of Directors: D. M. Khatau, *Chairman;* M. D. Goculdas, *Managing Director;* R. M. Goculdas, K. D. M. Khatau, Mrs. C. D. Khatau and Mrs. R. M. Gokuldas.

Navbharat Radio Agencies, 350, Lamington Road, Bombay 7.

Navlakhi, J. V., & Co., Stationers, Kanta Terrace, 533, Kalbadevi Road, Bombay 2.

NEAR EAST TRADING CO. (INDIA), 32, Apollo Street, Fort. Phone Nos. 254407 & 251757. Tel. Address: "WIDESPREAD."

NEMSEY NARANDAS TOPAN (ESTD. 1925). Importers-Exporters & Commission Agents. Hanuman Bldg., Tambakata, Pydhownie, Bombay 3. Gram: 'YARNLILLY'. Phone: 29048 (Yarn & Local). 264101 (Import & Export).

NEMSHI MONJI, Contractor, Stone and Sand Supplier, 123, Mahatma Gandhi Road, Fort, Bombay 1.

Head Office	..	Tel. 251054.
Bhoiwada Quarry	..	„ 61160.
Sand Dept.	..	„ 40186.
Kurla Quarry	..	„ 86158.

Telegrams: "Stonesand."

Neptune Assurance Co., Ltd., The, Transacting Fire and Miscellaneous Insurance, 104, Apollo Street, Fort, Bombay. Phone Nos. 252258 & 252259.

Nestle's Products (India) Ltd., Kaiser-i-Hind Building, Currimbhoy Road, Ballard Estate. Tel. Address: "Nestbrand." Telephone No. 263165/66. P.O. Box No. 215.

NETTLEFOLDS OF INDIA PRIVATE LIMITED

Wakefield House, Sprott Road
Ballard Estate
BOMBAY 1
Post Box No. 1502
Telephone No. 261302 (3 lines)
Tel. Address: "NETTLEFOLD" Bombay

Distributors of:
Wood Screws, Cotter Pins, Screw Eyes, Machine Screws, Rivets, Safety Pins and Hypodermic Needles

Manufactured by:
GUEST, KEEN, WILLIAMS, LTD.
BHANDUP WORKS

Representing:
GUEST KEEN & NETTLEFOLDS (Midlands) LTD.
BIRMINGHAM

BOOKS
And ART PRINTS
THE NEW BOOK COMPANY PRIVATE LTD.
188/190, Dr. Dadabhoy Naoroji Road, BOMBAY 1
Phone: 263544/45.
Grams: "NEWBOOK"

New Cheap Jack No. 5. *Proprietors:* G. Mahomedalli & Co., Shop No. 5, Crawford Market, Bombay. Dealers in Oilman Stores, Provision and Household Requisites. Phone: 261949.

NEW CONSOLIDATED CONSTRUCTION CO., LTD., Engineers and Contractors, Rahimtoola House, Homji Street, Fort, Bombay. Phone: 253064. Grams: "Projects." *Chairman:* A. A. Jaseenvala. *General Manager:* K. Z. Gandhi.

NEW DHOLERA SHIPPING & TRADING CO., LTD. THE, *Managing Agents:* Vikramsinh Private Limited, 293, Dr. Dadabhai Naoroji Road, Bombay 1. Branches and Agencies all over India. Telegram: 'RAVASIA', Bombay. Telephone: No. 263443.

NEW DHOLERA STEAMSHIPS LTD., *Managing Agents:* Pratapsinh Private Limited, 293, Dr. Dadabhai Naoroji Road, Fort. P.O. Box No. 1139, Bombay 1. Telegraphic Address: 'JAYSHIPS'. Telephone No. 263443.

New Era Agencies Private Ltd., Chemicals Importers & Stockists, Kamani Chambers, 32, Nicol Road, Ballard Estate. Phone: 262552. Grams: 'MUJKO'.

New Era Paint Works, Building, Painting Contractors and makers of Industrial & Decorative Air-Dry Crinkle Finishes, Synthetic Hard Enamels, Glossy Oil Paint, Ready mixed Oil Paints, Flat Washable Oil Bound Distempers, Varnishes, Oils, Plastic Emulsion Paints, Rubber Enamels, etc. Opp. Byculla Station, Byculla, Bombay 27. Tel. Address: "NEWERA." Phone No. 40097.

New Field Paper Industries, 48, 2nd Carpenter Street, Bombay 4.

NEW GREAT INSURANCE CO. OF INDIA LTD., THE, Principal Office in the Union of India at 45-47, Apollo Street, Fort, Bombay.
Paid-up Capital .. .. Rs. 20,00,000
Chairman.—Shri Tulsidas Kilachand.
General Manager.—Shri M. G. Mody.
Business Transacted.—Fire, Marine, Accident and Miscellaneous Insurance.
Branches at: Ahmedabad, Amritsar, Baroda, Bangalore, Bhavnagar, Calcutta, Chittagong, Cochin, Davangere, New Delhi, Hyderabad (Dn.), Hubli, Indore, Jalgaon, Jaina, Jullundur, Karachi, Lucknow, Madras, Mangalore, Madurai, Masulipatam, Nagpur, Nairobi, Poona and Surat.
Representatives at: Amsterdam, Brussels, Colombo, Dar-es-Salaam, Kampala, London, Mwanza, Mombasa, Madurai, Rangoon, Rotterdam, Victoria (Mahe-Seychelles).

NEW HAMPSHIRE FIRE INSURANCE CO. OF MANCHESTER, NEW HAMPSHIRE, Warden House, Sir Phiroshah Mehta Road, Fort, Bombay. Grams: "AMINTIND." Manager for India, A. J. Shah.

NEW HAVEN STEEL BALL CORPORATION Private Ltd.
Manufacturers of Steel Balls, Bicycle parts, Sockets, Head Cap Screws, Bolts, Nuts, Auto parts etc.
Office: Nanjee Building, 17-B, Horniman Circle, Bombay 1.
Phone: 255346.
Grams: "GULDASTA".
Factory: Parsi Panchayat Road, Andheri (East).

NEW INDIA ASSURANCE CO. LTD.
Head Office: Bombay, New India Assurance Building, Mahatma Gandhi Road, Fort, P.B. No. 999. Phone: 259151. Grams: "Niassurance".
Board of Directors:
A. D. Shroff (*Chairman*).
J. R. D. Tata (*Vice-Chairman*).
Ambalal Sarabhai.
Ramniwas Ramnarain.
Kasturbhai Lalbhai.
Jayantilal R. Mehta.
Sir V.N. Chandavarkar, Kt.
N. K. Petigara.
Bhagwandas C. Mehta.
J. D. Choksi.
B. K. Shah (*Managing Director*).
Authorised Capital .. Rs. 10,50,00,000
Subscribed Capital .. ,, 5,69,66,485
Paid-up Capital .. ,, 1,42,42,125
Transacts Fire, Marine, Motor, Machinery and all classes of Accident Insurance Business.
Indian Branches:
Calcutta, 4, Lyons Range, P.O. Box 113.
Madras, 4-6, First Line Beach, P.O. Box 270.
New Delhi, Connaught House, Connaught Place, P.O. Box No. 46.
Kanpur, Kasturba Gandhi Road, P.O. Box No. 371.
And also at: Agra, Ahmedabad, Allahabad, Ambala, Amritsar, Asansol, Banaras, Bangalore, Bareilly, Baroda, Belgaum, Bellary, Bhopal, Coimbatore, Devengere, Ernakulam, Gauhati, Guntur, Hyderabad, Indore, Jaipur, Jamshedpur, Jubbalpore, Kolhapur, Kozikode, Lucknow, Ludhiana, Madurai, Mangalore, Masulipatam, Meerut, Mysore, Nagpur, Nasik, Patiala, Patna, Poona, Rajkot, Sangli, Sholapur, Shimoga, Srinagar, Surat, Trichur, Tiruchirapally, Trivandrum.
Overseas Branches: Baghdad, Bangkok, Basrah, Chittagong, Dacca, Djakarta, Hongkong, Kampala, Karachi, Khartoum, Kuala-Lumpur, Lagos, Lahore, Manila, Mombasa, Narayanguni, Nairobi, Osaka, Penang, Rangoon, Singapore, Suva, Sydney, Tangier, Tokyo.
London Agents: Messrs. Sedgwick Collins (Agencies) Ltd., Regis House, 43-46, King William Street, London E.C. 4.

New India Corporation, Importers, Exporters, Engineers, Contractors & Estate Suppliers. Warden House, Sir Phirozshah Mehta Road, Bombay 1. Phone: 254440. Grams: 'NUINDCORP'. Other Offices: Ensign Engineering Corporation. (Props. New India Corp.), 117, Armenian Street, Madras 1 and 70-Feet Road, Ernakulam, Kerala.

New India Hardware Mart, Shipchandlers, Mill Stores Suppliers, 152, Narayan Dhuru Street, Bombay 3. Phone: 38665. Grams: "FREETRADE".

New Hind Engineering Co., Mill Gin Store & Textile Beltings stockists, 63, Nagdevi Street, Bombay 3.

NEW INDIA MOSAIC AND MARBLE CO., PRIVATE LTD., Brabourne Stadium (North), Churchgate, Fort, Bombay 1. Manufacturers of "NIMMCO" plain cement and marble mosaic flooring Tiles in wide range of Patterns and attractive Colours. Suppliers of finished marble of the finest quality and in varieties of colours. Also undertaking marble works of every description. *Factory:* Industrial Estates, Lalbaug, Bombay 12. Grams: "Nimmcotile." Phone: 41773.

NEW JACK PRINTING WORKS PRIVATE LTD.
Globe Mills Passage, Off Delisle Road, Bombay 13.
Calendar Printing, Letter Press, Direct & Chromo Litho, Photo Engraving, Photo Offset and Block, Box and Carton Making.
Phone Nos. 62021-22-23.
Grams: "NEWJAKPRES".

New Kaiser-i-Hind Spg. & Wvg. Co., Ltd., J. K. Building, Dougall Road, Ballard Estate. Mill: Gorupdeo Road, Telephone: 262931.

NEW MANOHAR PRESS
Printers and Box-makers for Pharmaceutical and other Trades for over 20 years.
Angrewadi, Vithalbhai Patel Road, Bombay 4.
Tel. No. 27754. Gram: "Numanohar".

Phone: 241711. Grams: "NUPACK".

NEWPACK INDUSTRIES

Lotus House, 33-A, Marine Lines, Bombay 1.

Manufacturers of:

"NEWPAC" Polythene Bags and Sheetings & other Plastic Goods.

New Photoplay Co., 231, Hornby Road, Fort, Bombay.

New Popular Cycle Mart, Direct Importers of Cycles and Accessories. 387, Kalbadevi Road, Bombay 2.

NEW STANDARD CHEMICALS CO., PRIVATE LTD. (Estd. 1916). Importers, Wholesale Dealers and Stockists of Textile Dyes, Industrial Chemicals and Sizing Materials. Suppliers to Railways, Government Departments and Mills. 231, Samuel Street, Vadgadi, Bombay 3 Tel. Address: "Particular." Phone Nos. 29169, 23844, 28510. *Managing Directors:* Harilal Naranji and Keshavlal Naranji Bhatt. *Secretary:* Jayantilal S. Rajyaguru, B.Com. Branch: Gopal Bhuvan, Bahrana Road, Kanpur. Phone: 2858.

New Standard Engineering Co., Ltd., Carroll Road, Bombay 13. Structural & Mechanical Engineers and Founders.

NEW SURGICAL TRADING CO., THE, Direct Importers and Manufacturers' Representatives. Bulakhidas Building, Mangaldas Road, Princess Street, P. O. Box 2321, Bombay 2. Telegraphic Address: "Coworker." Phone No. 38138. Dealers in Surgical Scientific and Laboratory Equipments, Hospital Steel Furniture and Sundries. Proprietor: C. J. Patel.

New United Construction & Engineering Co., Ltd., Industrial Assurance Building, Churchgate, Bombay 1. Phone: 37181.

NEW ZEALAND INSURANCE CO., LTD. Hongkong Bank Building, 16, Veer Nariman Road, Fort. Tel. Address:— "Newzico." Post Box No. 125. Phone No. 25731 33. *Manager:* D. N. Chalmers. *Assistants:* T. P. Panthakey, R. C. Kothak, D. H. Karani, A. Monteiro.

Nicolls & Company, Typewriter Experts (a complete line of Typewriter business), Kermani Building, above D. Macropolo's, Sir Phirozshah Mehta Road, Fort. Telegraphic Address: "Typexpert." Telephone No. 253523.

N. Jamnadas & Co., Freight Brokers and Travel Agents, 16, Bank Street, Fort.

Noble Paint & Varnish Co., Private Ltd., Ferguson Road, Lower Parel, Bombay 13.

Phone: 261172.
Grams: "ROLLEDGOLD".

NOBLE PLASTIC WORKS

22, Mangesh Shenoy Street, Bombay 1.

Manufacturers of "NOBLE" brand quality plastic Umbrella handles in various and fancy colours.

Grams: "VELVETEEN." Phone: 28061

NOBLE TRADING CO.

174, Abdul Rehman Street, P.O. Box No. 3016, Bombay 3.

Importers of: Hardware, Cutlery, Shoe Grindery, Precision Measuring Tools, Toilet Requisites, Glassware, Paints Materials, etc. *Sole Agents for:* Spanish Mfrs. of Insulation Cork, Cork Sheets, Dives, Bottle Corks, Granulated Cork, Corkwood etc.

Non-Ferrous Metal Refinery, The, 24, Sitafalwadi, Mount Road, Masagaon, Bombay 10. Phone: 73572. Grams: "Nomery." Manufacturers of White Bearing Metals, Tin Solders, Type Metals, etc. Lead Seals and Zinc Boiler Plates made to any desired size.

Noronha Private Limited, Distributors of Motion Picture Films. Lotus House, 33-A, Marine Lines, Bombay 1. Phone: 241628. Grams: "WIDERANGE".

NORINCO (PRIVATE) LTD., Founded in 1942.

Head Office:—14, Netaji Subhas Road, Calcutta. Telephones: 22-4094 & 4095. Telegram Address: "NORINPACO", Calcutta.

Bombay Office:—India House, 4th Floor, Fort Street, Fort, Post Box No. 871, Bombay 1. Telephone: 26-3300. Telegram Address: "NORINPACO", Bombay.

Managing Agents:—Mornal Tea Estate, Cultivators of Tea and Coffee.

Bankers:—The Netherlands Trading Society, 18A, Brabourne Road, Calcutta 1. The Mercantile Bank of India, Bombay.

Principal Business:—Manufacturers' Representatives, Stockists, Managing Agents, Aviation, Importers and Exporters-Indentors and dealers in Staple Fibre, Paper, Paper Bags for Cement, Pulp, Wood Products, Hard and Soft Boards, Carbide, Fertilisers, Chemicals, Totanin Tanning Extract, Raw Materials for Paints and Plastics, Penstocks, Belting, Pearl Essence, Aluminium Life Boats and Radar Masts, Machinery.

Exporters of:—Minerals, Ores and Textiles.

North British & Mercantile Insurance Co., Ltd., Macmillan Building, 276, Dadabhai Naoroji Road, Fort. *Local Manager*—R. W. Cole. Tel. Address: "Norbrit." Phone No. 261404.

Norton & Gregory Ltd. (London), Manufacturers of Drawing Office Requisites. Office of the Representative: India and Pakistan, Commerce House, Currimbhoy Road, Ballard Estate.

NORWICH UNION FIRE INSURANCE SOCIETY, LTD., 16, Bank Street, Post Box No. 49, Fort, Bombay. *Branch Manager:* J. J. Sharma. Telegraphic Address: "Nufam". Telephone: 251985.

NUSSERVANJI, RUTTONJI NAZIR & SONS, Coal Merchants, Landing, Clearing, Bunkering Contractors, 5, Hamam Street, Fort. Phone Nos. Office—253312 and 251759. Coal Bunder: 40953—Res: 41092.

Nutex (India) Private Ltd., Specialists in Transfer Labels and Silk Screen Printing and Stencils. Devkaran Mansion, Block No. 1, 3rd Floor, Princess Street, Bombay 1. Grams: "SINOGEF".

Ocean Electric Co., 480, Kalbadevi Road Bombay 2.

Ocean Marine Insurance Co. Ltd., Macmillan Building, 276, Hornby Road, Fort.

Odhavji, R., & Co., Iron, Steel and Hardware Merchants, Government & Railway Contractors, Carnac Bunder, Bombay 9.

Odhavji Devidas & Co., Chemicals & Colour Merchants, 357, Vakil Building, Samuel Street, Bombay 3.

Oilseeds Trading Co., Private Ltd., The, Currimjee Building, 111, Mahatma Gandhi Road, Fort, Bombay 1. Phone No. 259241. Tel. Address: "Raytrade." Exporters of all kinds of Oilseeds, Oils, Oil Cakes, Spices, Grains and Textile Piecegoods.

Names of Directors:—
Ratilal Mulji Gandhi; Nagardas Ranchhoddas Sangvi; Babubhai Manji Sangvi; Dhirajlal Babubhai Sanghvi; Arun Nagardas Sanghvi.

Oliver, F. P., & Co., Ltd., Agents, Import and Export Merchants, 32, Apollo Street, Fort, Bombay 1. Post Box No. 50. Phone No. 22715. Tel. Address: "Australis."

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POLYCHEM LIMITED, manufacturers of polystyrene plastic moulding powders. 45-47, Apollo Street, Fort, Bombay. Phones: 254259 & 25-1301. Grams: "POLYCHEMIC".

Polymer Corporation, Manufacturers & Printers of 'HIPACK' brand Polyethylene Bags, Tubular Film & Sheeting. The only manufacturers of Treated Polythene Film 70, Kansara Chawl, Kalbadevi Road, Bombay 2. Phones: Office: 76457 & Factory: 84131. Grams: "WALKAL."

POONAGER BILIMORIA & CO., Architects, Civil Engineers, Surveyors, Appraisers, Adjusters for Insurance Coys. and Rating Surveyors & Valuers, Cama Bldg., 24-26, Dalal Street, Fort. Phone No. 258625.

Poonjajee, J. M., Jehangir, J. P., Manufacturers of Fruit Squashes, Syrups, Cordials, Jams, Jellies and Marmalades, Spices, Condiments, Pickles, Pappadums, etc., Byramji Mansion, Sir Pherozshah Mehta Road, Fort, Bombay. Phone: 262120.

POONJIAJI, M. M., & CO., 40/42, First Marine Street, Bombay 1. Manufacturers & Exporters of "SHIP BRAND" "GREEN LABEL" Indian condiments, Mango Chutneys, Mango Pickles, Madras Curry Powder and Sugar Cane Vinegar. Telegraphic Address: "Preserve." Codes used: Bentley's 6th and Private. Telephone Nos. 22412, (Res.) 241846.

Popular Electric & General Stores, Wholesale and Retail Dealers in Everything Electrical, 414, Hararwalla Building, Golpitha Corner, Bombay 4.

Popular Pharmacy (Regd.) Dispensing Chemists, Dhun Building, Lamington Road, Grant Road, Bombay No. 7. Phone No. 71884.

Popular (Imp-Exp) Trading Co., Importers and Exporters. Javeri House, 110, Medows Street, Fort, Bombay. Phone: 255701. Grams: "MAXSPIN". Sole importers for products manufactured by: Oerlikon Machine Tool Works, Zurich; Switzerland. Reimers & Furst, M. Gladbach, Germany. Ellerwerke Maschinenfabrik, Hamburg, Germany, Rheydter Maschinen & Spindelfabrik (Rhld.), Germany. (For further particulars see Bombay Agents for Overseas Firms Section).

Powercrafters, Engineers, 31, Queen's Road, Bombay 4.

POWERS SAMAS ACCOUNTING MACHINES (Sales) LTD., "Khetan Bhavan", 198, J. Tata Road, Churchgate, P.O. Box 600, Bombay 1. Phone No. 37367. Tel. Address: "POWSAMAS." *Maintenance Department:* "Ewart House," Bruce Street. The All British Accounting Machines. A Company of the Vickers Group.

POYSHA INDUSTRIAL CO., PRIVATE LTD., Manufacturers of Lithographed and plain Tin Cans, Containers, Closures, Crown Corks, Caps and Open Top Sanitary Cans. Messent Road, Sewri, Bombay 15. Phone: 72863. Grams: "SANCANS."

Prabha, & Co., V., Printers, Stationers, Book-binders & Die-Sinkers, 476, Sandhurst Road, Bombay 4.

Prabhat Products Co. Private Ltd., Manufacturers of Gas Mantles, Lanterns and Accessories, Noble Chambers, Parsee Bazar Street, Fort, Bombay.

Prabhudas & Co., Importers of Surgical & Scientific Goods, 27, New Hanuman Lane, Bombay 2.

PRABHULAL L. PANDYA & CO., Salt Freight and Chartering Brokers, Steamships Agents and Stevedores. 11, Bank Street, Fort, Bombay. Phone: 251794. Grams: "Prapandya." Branches: Okha, Jamnagar, Bhavnagar, Veraval, Porbunder, Navalakhi and Kandla.

Praffullchandra & Co., Electrical Goods & Engineering Tools Merchants, Hararwala Bldg., Lohar Street, Bombay 2.

Pramashaw Motor Co., 420, Lamington Road, Bombay 4.

Prahladrai Dalmia & Sons. Paper & Board Merchants, 51, Podar Chambers, Bombay 1.

Pravin Brothers & Co., Chemicals Importers & Stockists, 37, Bora Bazar Street, Bombay 1. (Also see under Chemical Importers & Stockists Section).

Precious Electric Co., Yusuf Building, Churchgate Street, Fort. Distributors of Philips Lamps and Radios.

Premchand Iron & Steel Works, Kasturchand Mills Compound, Dadar, Bombay 28.

Premier Aerated Waters Private Ltd., Mfgs. Aerated Waters. Lamington Road North, Bombay 8. Phone: 74282. Grams: "BURGUL".

Premier Art Printing Works, Fine Art Printers and Label Manufacturers. 17-B, Cawasji Patel Street, Fort, Bombay.

PREMIER AUTOMOBILES LTD., THE. *Head Office:* Construction House, Ballard Estate, Bombay-1. Phone: 26-1956. *Factory:* Agra Road, Kurla, Bombay 37. Phone: 67911-22. Grams: "PREMOBILES." Kurla(North). Progressive Manufacturers of Dodge, Plymouth & Fiat Cars and Dodge & Fargo Petrol & Diesel Trucks.

Premier Chromate & Chemical Works Ltd., 402, Cadell Road, Prabhadevi, Bombay 28. Phone No. 61019. Tel. Address: "Chromchem."

PREMIER CONSTRUCTION CO., LTD. Constructional Engineers and Contractors. Registered Office: Construction House, Ballard Estate, Bombay. Chairman: Gulabchand Hirachand. Secretary: B. D. Sardesai Allied Companies: The Hindustan Construction Co., Ltd., Specialists in construction of Dams, Tunnels and Bridges; The All-India Construction Co. Ltd., The Indian Hume Pipe Co., Ltd., Manufacturers of Hume Concrete Pipes and Hume Steel Pipes lined and outcoated with cement concrete for high pressure; The Building Construction Co., Ltd.; Cooper Engineering Ltd., Engineers and General Founders, Manufacturers of Diesel Engines, Machine Tools and Agricultural Implements; The Acme Manufacturing Co., Ltd., Mechanical Engineers and Founders, Manufacturers of Building Fittings, Hardwares, Railway Spares, Diesel Oil Engines, Electric Fans, etc. Phone No. 262171 (five lines).

Premier Electric Co., Ltd., Electrical Goods (Stockists and Dealers), Mehta House, Apollo Street, Fort.

Premier Furnishing & Decorating Private Ltd., Furniture & Interior Decorators, 7, Brabourne Stadium, Churchgate Street Extension, Fort. Phone: 37532.

Premier Glass Traders, Importers of all kinds of Glass, Frames, Plywood, Mounts, Glaziers' Diamonds, etc., 74/78, Dhanji Street, Bombay 3. Grams: "Reason." Phone: 23845.

Premier Machine Stores Co., Dealers in Files, Engineering Tools & Machinery, 66, Nagdevi Street.

Premier Offset Works, Offset Photo Lithographers and Colour Printers, Swadeshi Mill Property, Roxy Cinema Compound, Bombay 4.

Premier Traders, Agents for Dyer Meakin Breweries Ltd., 95 Netaji Subash Road, Bombay 2.

Premier Typewriter Co., 235, Dr. Dadabhoy Naoroji Road, above Kemp & Co., Fort. Dealers in Typewriters. Phone No. 261787.

Premji Haridas & Co. (Estd. 1911). Bhanushali Chambers, 166-170, Argyle Road, Bombay 9.

Press Process Studio, for Designs, Blocks, Slides, Stereos, etc. Victoria Mills, 2nd Floor, Gamdevi, Bombay 7.

Press Trust of India Limited (News Agency), Petit Building, 357, Dr. Dadabhoy Naoroji Road, Fort, Bombay 1. Grams: "Presstrust," Bombay. Phone: 252371.

Primera Corporation, Importers, Exporters and Manufacturers' Representatives, 10, Bruce Street, Bombay 1.

PRINCE, H. I., & SONS, 9, Lily Court, Churchgate Reclamation, Bombay. *Sole Proprietor:* H. I. Prince; *Sales Manager:* H. P. Prince; *Sole Agents:* Brunsviga Maschinenwerke A. G. Braunschweig, Western Germany, Manufacturers of "Brunsviga" Adding and Calculating Machines.

Phone: 26-3100. Grams: "PRINTMACHO"

THE PRINTING MACHINERY CO.,

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Typography, Block-Making & Offset Lithography

Specialists in: Paper & Metal Cutting Knives Grinding

Anees Chambers, Mistry Estates, Carnac Road, Bombay 1.

Printing Materials Store. Sole Distributors: Mander Bros., Printing Inks. 89, Princess Street, Bombay.

PRITCHETT & GOLD AND E.P.S. CO., LTD., Manufacturers of Accumulators of all Types. Head Office: 137, Victoria Street, Victoria, London. Sole Agents: Heatly & Gresham Ltd., Post Box No. 225, Bombay 1. Phone Nos. 255756 & 255757.

General Manager in India: Niren N. Ghose, D.F.H. (Lond.), A.M.I.E.E.

Sales Representative: D. R. Purchase.

Sales Engineer: R. R. Karandikar.

Battery Engineer: D. Pratt.

Personal Assistant to General Manager: Miss M. V. de Lima.

Produce Dealers Private Limited, Currimji Building, 111, Mahatma Gandhi Road, Fort, Bombay. Phone: 259241. Grams: "Peanut." Exporters of Oil Seeds, Essential Oil Seeds, Oils, Spices, Crude Drugs, etc.

Progressive Corporation, Ltd., Publishers, Publishers' Agents and Booksellers, 51, Mahatma Gandhi Road.

PROGRESSIVE TRADING CO.

Importers, Indentors & Exporters of Dyes, Chemicals, Drugs & Medicines, Essential Oils, Aromatic Chemicals Papers & Boards. Cycles & Accessories, Spices & Kirana, Cloth, Oil & Oil Seeds, Etc., Etc.

Bankers: Devkaran Nanji Banking Co., Ltd., Bombay 2, Bank of Baroda Ltd., Bombay 1.

Address: 50, Esaaji Street, Bombay 3.

Phone: 34164. Grams: "COTRADEPRO."

PROTOS ENGINEERING CO. (PRIVATE) LTD., 173, Jamshedji Tata Road, Churchgate, Bombay. *Telegrams:* "PROTODYN." Phone: 37147-8-9. Electrical & Mechanical Engineers.

Head Office: P.O. Box 1642, Bombay 1.

Branches: Delhi, Calcutta, Madras.

Managing Directors: Mr. F. K. Heller; Mr. H. Scharbau.

Directors: Mr. G. Wilhelm; Mr. H. N. Kapadia

Hydro-power plants, Steam power-plants, Irrigation Plants, Ship-Building, Steel Plants, Ropeways, Boilers, Sugar Factory Machinery, Diesel Engines, Generating sets, pumping sets, Airconditioning Plants, Locomotives, Tiles and Bricks making Machinery, harbour equipments.

Provincial Insurance Company Limited (Fire). Gresham Assurance House, Sir Phirozshah Mehta Road, Fort.

Provincial Motor Car Co., Ltd., New Queen's Road, opp. Opera House, Bombay 4.

Publicity Society of India Ltd., Advertising Media Representatives. People's Building, Sir Phiroshah Mehta Road, Fort, Bombay. Post Box No. 296, Bombay.

Pundole Watch Co., 263, Hornby Road, opp. "Lloyds Bank," Fort. Dealers in Watches, Clocks, Timepieces and Jewellery.

PUNEGAR, N. E., & CO., Boiler, Economiser, Steam Plant solutions and Paints Specialists. Union Bank New Building, Dalal Street, Fort, Bombay 1. Phone No. 253178. Telegrams: "ACMECOMPO", Bombay.

Punga Trading Syndicate, Manufacturers, Exporters, Woollen Carpets, Hardware, 2, Prospect Chambers, Hornby Road, Fort.

Purbhoodas, D. S., & Co., Share, Stock, Exchange & Finance Brokers, Stock Exchange New Building, Apollo Street, Fort.

Pure Products & Madhu Canning Ltd., Fruit, Vegetable & Fish Canners. Worli, Bombay 18.

Purshotam Mathradas & Co., Ltd., Manufacturers of Myrabolans Extract, 3, Mherwan Building, Sir Phiroshah Mehta Road, Fort, Bombay.

Purshotamdas Madhavani & Co. Private Ltd., Stevedores, Clearing and Forwarding Agents, Botawalla Building, 8, Horniman Circle, Fort. Phones: 251687, 253159, 264558. Tel. Address: "Stevedore."

Purshotamdass Popatlal & Co., Importers, Exporters, Yarn Merchants & Chemicals, Shreenivas House, Outram Road, Fort.

Pyarally Gulamhusein & Co., 103, Tantanpura Street, Khoja Mohoila, Bombay 9.

Queensland Insurance Co., Ltd., Contractor Bldg., Nicol Road, Ballard Estate.

R. C. EDWARDS & CO., PRIVATE LTD., 16, Arthur Bunder Road, Colaba, Bombay 5. Phone: 36032. Grams: "Eddicom." Sole Importers of Argo Taximeters Tachographs, Vibracorders and other Recording Instruments.

Chairman, Board of Directors: Sardar Bahadur Bakshi Dalip Singh.

Managing Director: Major Jagtar Singh.

Chief Agents for the State of Bombay: Kanwal & Co. Private Ltd., 16, Arthur Bunder Road, Colaba, Bombay 5.

R. S. Traders, 16, People's Bldg., Sir Phirozshah Mehta Road, Fort, Bombay.

RACEK, F., & CO. PRIVATE LTD., Makers' Agents and Manufacturers of Efar, & Petromax Lampware, Stoves & Blowlamps, Efar Gas Mantles, Racek, Efar & Feuerhand Hurricane Lanterns, Feuerhand Chimneys and Glass Tableware, Window and Thick Plate Glass, Gas and Water Tubes and all other kinds of Pipes, Hardware & tools, "EFAR" Electric Conduit Pipes, "ISMET" Electrical Household Appliances, etc. Managing Director: W. L. Racek. Director: A. Racek. Head Office and Showrooms: Shreeji Bhuvan, Lohar Street, Bombay 2. Post Box No. 2006. Phones: 20255, 35252 & 36464. Tel. Address: "EFRACEK." Code: ABC 6th Edn. and Bentley's 2nd Phrase. Branch Offices: 57, Radha Bazar Str., Calcutta. P.O. Box 2121. Phone: 22-3576 & No. 2, Singanna Naick Street, Madras. P.O. Box 1248. Phone: 2700. Sub-Agents in all important Cities in India, Burma, Ceylon and East and West Pakistan.

Radhakishan Rajaram & Co. 143, Princess Street, Bombay 2.

RADIANT ELECTRIC & MACHINERY CO., Vithaldas Chambers, Bruce Street, Fort, Bombay 1. Phone: 256297.

RADIO CRAFTERS, THE, Radio Sound and Refrigeration Engineers, Laud Mansion, opp. Charni Road Railway Station, 21, C-D, Queen's Road. Phone No. 23006

Radio Electric Private Ltd., Manufacturers of Radiotone Products. Lamington Chambers, Lamington Road, Bombay 4. Phone: 70824. Grams: "RADTRIC."

RADIO LAMP WORKS LTD., 45-47 Veer Nariman Road, Bombay 1. Electrical Engineers, Manufacturers & Contractors. Phone: 25-3841. Gram: "SOFTLITE" Branches at Calcutta, Delhi, Kanpur, Indore, Madras, Gauhati and Wardha.

Radio Services:—Radio Sales & Service, publishers of "Radio Services" monthly magazine. Skylark Winding machines a speciality, 417-21, Lamington Road, next to Powells Ltd., Bombay 4. Phone No. 70601. Tel. Address: "Voltohm."

Railship Stores, Manufacturers and dealers in Leather goods and travelling requisites for authorised Distributors & Stockists of 'Samsons' Readymade Garments 39, Medows Street, Fort, Bombay.

Raj & Co., Printing press material dealers, 40, Cowasji Patel Street, Bombay 1.

Raja, F., & Co., Iron & Rolled Steel Beams Merchants. Carnac Bunder, Bombay 9.

Raja Furniture Mart, Furniture and Fancy Cloth Dealers, Fulchand Nivas, Chowpatty Sea Face, Bombay 7.

RAJARAM BHIKU & SONS, Manufacturers of India's best "AERATED WATER MACHINES" famous for best quality, durability and Workmanship. Production capacity from 40 to 250 Dozens per hour; Trimbak Parsharam Street, Golpitha, Bombay 4. Phone: 71652

Raj-Der-Kar & Co., Importers of Scientific and Industrial Instruments, Commissariat Building, Dr. Dadabhai Naoroji Road, Fort. Phone: 262304. Grams. 'TECHLAB.'

Rajkamal Supplying Stores, 205, Abdul Rehman Street, Bombay 3. Direct Importers and Stockists of Paints and Dry Colours, Brushes & Artistic Materials

RALLIS INDIA LTD., 21, Ravelin Street, Fort, Bombay 1. P.O. Box 166. Tel. Address: "RALLI," Bombay. Telephone: 26-8151 (8 lines).

Head Office: Bombay. *Branches:* Calcutta and Madras.

Managing Director: M. P. A. Paspatti

Directors: Sir Badridas Goenka, Kt., C.I.E., Sir Jamsetjee Jejeebhoy, Bart.; A. D. Vickers; P. A. Cronopulo; J. O. G. Barnes; M. A. Sreenivasan.

Correspondents:

Ralli Brothers Limited, London, Manchester and Branches.

Ralli Brothers (New York) Inc., New York.

Ramdas Khimji Brothers, Cotton Merchants, Exporters & Importers of Raw Cotton and Piece-goods, Warden House, Sir Phiroshah Mehta Road, Fort, Bombay.

Ramesh Dalal & Co., Cotton Merchants, Nawab Bldg., 327, Dr. Dadabhai Naoroji Road, Bombay 1. Phone: 251793 Grams 'GRAPE JUICE.'

Ramjanally Ebrahim, Investor in Industrial Joint Stock Cos. & Estate. Office: 7, Apollo Street, opp. State Bank, Fort, Bombay. Tel. Address: "Bilidock" Phone Nos. 251151 & 37364. Also at Poona, 14-A, Wellesley Road. Phone: 8702.

RAMNARAIN SONS PRIVATE LTD., Cotton Merchants, Importers and Exporters, State Bank Building, Bank Street, Fort, Bombay. Tel. Address: "Ramnarye." Phone Nos. 252231 (6 lines).
Members:
Liverpool Cotton Association Ltd.
East India Cotton Association Ltd.
Karachi Cotton Association Ltd.
Managing Agents:
Bradbury Mills, Ltd.
Phoenix Mills, Ltd.
Dawn Mills Co., Ltd.

Ramniklal Amidas & Co., 71, Mirchi Street, Vadgadi, Bombay 3 and Carnac Bunder, Argyle Road, opp. Latif House, Bombay 9. Phone No. 20705. Tel. Address: "Authority."

Ramniklal C. Kothari & Co., Plastics Machinery, Moulds and Raw Materials Dealers, 16, Apollo Street, 513, Sir Vithaldas Chambers, Bombay 1. Grams: "Astrogems."

RAMNIKLAL MAGANLAL & CO., Iron and Steel Merchants, Carnac Bunder, Bombay 9. Phone No. 38492. Grams: "TESTED", Bombay.

RANADE & PARTNERS, Room No. 40, Bombay Mutual Annexe, 4th Floor, 17 Gunbow Street, Fort, Bombay 1. Phone: Office: 261038. Resi: 61091. Grams: 'JALYANTRA' Direct Importers of Cast Iron Sluice Valves. Water meters & Venturi Meters Dealers in Pipe Fittings & Chemical Fertilizers.

Ranade, G. S., & Co., Temple of Industry, Girgaum Main Road, Bombay 4. Tel. Address: "Newstyle". Phone No. 22548.

Randaxy & Co. Private Ltd., 1st Floor, Queen's Mansions, Bastion Road, Fort, Bombay.

RANJIT SALES & PUBLICITY PRIVATE LTD., 111-A, Mahatma Gandhi Road, Fort, Bombay. (Advertising Service Agents.) Telegrams: "RANJITSALE". Phone: 251121.

Rank Film Distributors of (India) Private Ltd. Distributors of films produced by the Rank Organisation and Republic pictures. Head Office: 33A, Marine Lines, Bombay 1. Phone: 241594. Grams: "JARDISTO". *Jt. Managing Directors:* R. L. H. Davidson and K. N. Sahgal.

Rasiklal & Co., Ltd., Importers & Stockists of Light and Heavy Industrial Chemicals, 60-62, Princess Street, Bombay. P. O. Box 2228.

Rasiklal Hiralal & Co., Diamond Merchants and Jewellers, 205, Sheikh Memon Street, Bombay 2.

RASIWALLA & CO., M.M.A. 17, Janjikar Street, Hussainbhai Building, Mandvi, Bombay 3. Phone: 29550. Grams: "TWIST"
Proprietors of: Kurla Rope & Thread Factories, Pipe Road, Kurla, Bombay 7. Phone: 67312.
Manufacturers of: Cotton Ropes, Thread Twine and all sorts of Fishing Lines.
Dealers in: Fish-Hooks, Hemptwine, Plastic Fishing Lines twines, Sail needles, etc.

Ratansi Morarji Private Limited, Machinery Material, Handling Equipment, Water Purification and Treatment Plants and Chemicals. Prospect Chambers, 317/21, Dadabhoy Naoroji Road, Fort, Bombay. Phone: 33265. Grams: "Shrijamini."

Ratilal & Co., Automobile Parts and Accessories Dealers, New Bhatwadi, Sandhurst Road, Bombay 4.

Ratilal Dahyabhai Shah, Yarn Merchant & Commission Agent, Tambakanta, Byculla, Bombay 8.

Ratilal D. Khetsey & Co., Importers, Exporters and Yarn Merchants, 16, Military Square Lane, Fort, Bombay.

Ratilal Nathalal & Co., Stainless Steel wares Dealers, 118, Kansara Chawl, Bombay 2.

Ratilal, P., & Co., 43, Dhanji Street, Bombay 3. Mill Gin Stores Suppliers.

Ratilal Parekh & Co., Imports & Exports, Bombay Mutual Building, 2nd Floor, Sir Phirozshah Mehta Road, Fort, Bombay.

Rational Art Press Private Ltd., Prospect Chambers Annexe, Pitha Lane, Bombay 1.

RAVALGAON SUGAR FARM LTD., Construction House, Ballard Estate, Bombay. Sugar Manufacturers. Sugar Factory at Ravalgaon, District Nasik. Grams: "Rasufald". Phone: 262171 (Five Lines).

Raval Tiles & Marble Private Ltd., 97A Queens' Road, Bombay. Phone No. 242310. Tel. Address: "Ravaltile."

Ravi Udaya Vijaya Photo-Litho Offset Works, Tilak Road, Ghatkopar, Bombay 39.

Ravin Trading Company, 41, Mohatta Market, 1st Floor, Palton Road, P.O. Box No. 1969, Bombay 1.

RAVINDRA & CO. (PLATINUM) 63, Dhanji Street, Bombay 3. Phone No. 22373. Grams: 'CRUCIBLE.' Manufacturers of Platinum Laboratory apparatus, i.e. Crucibles, Dishes, Wires, Spatulae Spoons, Boats, Fitter Cones, Tipped Forceps, Tipped Tongs, Triangles, Wire Gauge, Foils, Electrodes, etc.

RAVISON DRUGS PRIVATE LTD.
198, Jamshedji Tata Road,
Bombay 1.
Phone: 37387.
Grams: "RAVIDRUG".
Manufacturers of Pharmaceutical Preparations Head Office: 3/15A, Jawahar Mal Mansion, Ajmeri Gate Extension, New Delhi 1. Sales Offices at Madras and Calcutta.

RAVISON PHARMACEUTICALS PRIVATE LTD.
198, Jamshedji Tata Road,
Post Box 1636, Bombay 1.
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Phone: 37387.
Grams: "RAVIPHARM".
Regional Offices at Delhi, Calcutta and Madras.

Rawal Shankerlal & Co., Dental Goods Dealers 160, Dr. Dadabhoy Naoroji Road, Fort, Bombay.

Raymond-Reynolds, Publicity Consultants, Bombay Co-operative Insce. Building, Sir Phirombah Mehta Road, Fort, Bombay. Phone No. 21933.

R.C.H. BARAR & CO., 239, Abdul Rehman Street, Bombay 3. General Merchants, Importers, Exporters and Manufacturers' Representatives. Dealers in Buttons, Beads, Pencils etc. Grams: 'ATAL.' Phone: 20610.

READYMONEY PRIVATE LTD., C.R.E., 107, Mahatma Gandhi Road, Fort, Bombay 1. Importers, Exporters, Seed Merchants. Phone Nos. 253379 & 253348. Grams: "CRUSTREAD."

RECONDO PRIVATE LTD., Ewart House, Bruce Street, Fort. Engineer: L. J. Rose. Road Construction, Resurfacing and Civil Engineering Contractors. Secretaries: Anglo-Thai Corporation Ltd.

Refrigeration & Appliances Co. Private Ltd., Pravin Court, 95, Queen's Road, Bombay 1. Phone No. 242577. Tel. Address: "Refriances." *Managing Agents:* Patell Brothers, C/o Dorabjee & Co., Poona. *Manager.*—R. A. Meher-Homji. Exclusive Distributors in India for ATE domestic Refrigerators, SANTON Storage Type electric Water Heaters. Sole Distributors in Western India for H.M.V. Refrigerators. Manufacturers of Electric Water heaters, Stoves etc. etc. Dealers in all sorts of domestic electrical appliances.

Reliable Engineering Co., 132, Reay Road, Bombay 10.

Rembrandt and Vandykes, Ltd., Whiteaway Buildings, Horaby Road, Bombay.

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Corresponding Firm: S. B. Industrial Development Co. (U.K.) Ltd., Colonial House, 24/25, Mark Lane, London, E.C. 3.

Codes Used: Western Union, New Standard Tricode, Bentley's and ABC 4th and 5th Edition.

Telegraphic Address: "IRONWORKS", Bombay and Madras.

Telephone Numbers: 70011 (Bombay); 3907 (Madras).

GENERAL MANAGER:
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Departmental Managers: F. J. Fonseca, B.Sc., B.E., A.M.I.E. (Structural Engineering Department and Sanitary Engineering Dept.).
Assistant Managers: T. R Stewart, W. F. Fernandes, B.Sc., B.E., A.M.I.E. (Structural Engineering Department).
Structural Engineers: G. S. Joshi, M. M. Raut, N. Mc-Queen.
Mechanical Engineers: T. G. Share, B. A. Ghadiali, P. Simon, G. R. MacFarlaine.
Chief Accountant: B. J. Suntook, A.C.A.
Metals & Agencies Department: F. F. Madon.
Sanitary Engineering Department: R. J. Meyers.
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Assistants: M. J. Menon, T. C. Sundaram, F. C. Mathias, N. A. Krishnamoorthy, T. K. Rama Rao, H. M. Soma Rao.

REMEDIOS & SONS, Scientific Instruments Makers, 255, Dr. Dadabhoy Naoroji Road, opp. Lloyds Bank, Fort, Bombay. Tel. Address: "Remesons."

REMINGTON RAND OF INDIA LTD., Remington Rand Business Equipment. Head Office: Calcutta. Regional Office at Thackersey House, Graham Road, Ballard Estate, Bombay. Phone No. 261196 (2 lines). Grams: "Remingtons." Post Box 455. Also—Ahmedabad—Ajmer—Hyderabad (Deccan)—Poona—Nagpur — Jabalpur — Bhopal — Jorhat — Shillong — Patna — Ranchi — Cuttack — Delhi — Meerut Cantt. — Chandigarh—Jaipur City—Amritsar—Jullundur — Patiala — Jammu — Lucknow — Indore — Dehra Dun — Allahabad — Banaras — Gorakhpur — Kanpur — Gwalior — Agra Cantt. — Madras — Bangalore — Coimbatore — Trichinopoly Cantt. — Vizagapatam — Trivandrum — Vijaywada.

RENOWN BISCUIT CO., THE, Biscuit Manufacturers, Connaught Road, near Victoria Gardens, Bombay 27. Tel. Address "Rebiscuit." Phone No. 42272.

REPUBLIC PICTURES OF INDIA LTD., Motion Picture Distributors, 33A, Marine Lines, Lotus House, Bombay 1. Phone: 241712. Grams: "REPUBFILM."

REUNION ENGINEERING CO. PRIVATE LTD., Electrical & Mechanical Engineers and Contractors. Head Office: Amar Building, Sir Phirozshah Metha Road, Fort, Bombay. Phone: 251871. Grams: 'RECOWIND' Factory: Old Atlas Mills Compound, Reay Road, Bombay 10. Phone: 42192.

REX-RECORDER

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Phone: 26-8061 (10 lines).
Telegrams: "LATHAM".
P.O. Box No. 113.

Rhod-India Ltd., Machinery Importers, Aryan Mahal, C Road, Churchgate, Bombay 1.

Rithy Commercial Corporation, Importers, Exporters & Machinery Dealers, 75, Tamarind Lane, Fort.

Ritz Private Ltd., Proprietors: Ritz Hotel, Bombay; Ritz Hotel, Hyderabad and Hill grone, Coonoor. Caterers to Caltex Oil Refining (India) Ltd., Vizagapatam Office: Churchgate Reclamation, Bombay 1. Phone 37161. Grams: "RITZ".

RKO RADIO PICTURES PRIVATE LTD., Head Office for India, Burma and Ceylon: Dhan-Mur Building, Sir Phirozshah Mehta Road, Fort. Telephone No. 26-3111 (two lines). Tel. Address: "RKORADIO". P.O. Box 738. *Godown:* Vault A-4, Sitladevi Temple Road, Mogul Lane, Mahim. *Branches:* Calcutta, Madras, Delhi and Rangoon. Distributors of outstanding Motion Pictures including Walt Disney Productions. 35 MM. and 16 MM. *Managing Director:* J. Remi Crasto, J.P.

ROBERTS, McLEAN & CO., PRIVATE LTD., Engineers and Merchants, "Tisco House," Sir Phirozshah Mehta Road, Fort. P.O. Box No. 452. Telegraphic Address: "Robisan." Phone: 26-1602 & 261602. Godown: Kalachowky Road, Chinchpokli.

Managing Director: Hon. G. R. Macdonald.

Director: R. C. Atterton.

Assistants: J. S. Mansukhani, H. DeSouza, S. P. W. Mandes, C. R. Menon, G. A. Noronha.

Head Office:—5 & 7, Netaji Subhas Road Calcutta. Madras Office: 200, Mount Road.

Rockhard Fire Engineers, Fire Fighting equipment, dealers. 25, Bank Street, Bombay 1.

Rogers Watch Co., Watch & Clock Importers, Stockists, Prospect Chambers, opp. Thos. Cook, Hornby Road, Fort.

Rolex Watch Company (Eastern) Ltd., Wholesale Importers & Dealers in Watches, 128, Mahatma Gandhi Road, Fort.

Rose, S., & Co., Ashok Kumar House, Rampart Row, Fort. Phone No. 252595. Tel. Address: "Rosebud." *Chairman.*—A. K. Gangoly. *Managing Director.*—P. N. Ghosh. *Directors.*—Shobha Gangoly & Kanan Devi.

ROWE & ROWE (EXPORT) PRIVATE LTD., Oilseeds, spices, tanning materials, henna leaves, sandalwood, rags, Cotton waste, goat skins, etc. 381, Dr. Dadabhoy Naoroji Road, above Eastern Bank, P.O. Box No. 299, Bombay 1. Phones: 252369 and 35324. Grams: "ROWCO".

ROWE & ROWE, Importers of Woollen & Cotton Piece-goods, Hardware, Machinery, Iron & Steel & Sundry Goods. 381, Dr. Dadabhoy Naoroji Road, above Eastern Bank, P.O. Box No. 622, Bombay 1. Phones: 252369 & 35324. Grams: "Rowco."

Rowlandson Bros. (Estd. 1927), Stationers, Printers, Paper Merchants, dealers in Drawing materials and Surveying Instruments, Account-Book Manufacturers, Engravers, Relief Stampers, Rubber Stamp Makers, State & Railway Contractors & General Order Suppliers. Podar Chambers, Parsi Bazar Street, Fort, Bombay 1. Phone: 251107. Grams: "Telltrue."

Royal Cycle and Motor Works, Jeriwala Mansion, Hughes Road, Bombay. Tel. Address: "Roycy." Phone No. 78860.

RUBY INDUSTRIES, Motor Body Builders (On Government and Municipal List), 75, Dr. Annie Besant Road, Worli, Bombay 18. Phone: 70538. Grams: 'MOTOR BODY.'

ROYAL INSURANCE CO., LTD. (Incorporated in England, Stockholders' Liability Limited), 12, Jamshedji Tata Road, Bombay. (Fire—Loss of Profits—Motor—Accident (all classes)—Engineering—Aviation—Marine). *Secretary:* D. E. Twemlow. Tel. Address: "Royal." Phone No. 37125 (5 lines). P. O. Box 1847. Head Office:—1, North John Street, Liverpool, England.

Royal Paper Stores, Importers and Stockists of Paper, Boards, etc., 187-89, Abdul Rahman Street, Bombay 3.

Ruby Record Company, General Dealers and Importers in Acoustic and Electrical Goods, authorised dealers for His Master's Voice and Columbia Products, Spinner Building, near Bombay House, 8-10, Tamarind Lane, Fort, Bombay. Phone No. 253404.

RUPCHAND TARACHAND & CO.

All kinds of Glass, Celluloid and Plastic Bangles Merchants, Importers, Exporters & Commission Agents.

67-69, Bazargate Street, Fort, Bombay 1.

Phone: 26-1490.
Tel. Add. "MERUSHIKAR".

RUTNAGUR, M. C., & CO. (Estd. 1890) "Surya Mahal," Military Square, Fort. Managing Agents of The Indian Textile Journal, Private Limited. Tel. Address: "Journal." Phone No. 252943.

Rylands & Sons (Overseas) Ltd., of Manchester, Manufacturers and Wholesale Warehousemen. Chief Agent in India and Constituted Attorney: D. J. Riveting, Cook's Building, Hornby Road, Bombay.

S. Kumar & Co., Paper Merchants, 37, People's Building, Sir Phiroshah Mehta Road, Fort.

S. M. Shah & Co., Chemicals & Mill Gin Stores Suppliers. 16 (2), Shankarbar Lane, Chira Bazar, Bombay.

S. Ramchandra & Co., Artists' & Students' Art Materials, B-15, Sitaram Building, near Crawford Market, Dr. Dadabhoy Naoroji Road, Bombay 1.

Saba Radio Company, Sakiat House, 15, New Queen's Road, Bombay

Sabnis, Goregaoker & Rele, 11-A, Bruce Street, Fort, Bombay. Telephone: 22774. Telegram: "Lis", Bombay.

SADHANANTI PRAKASH PRINTING PRESS PRIVATE LTD., Publishers & Fine Art Printers. Chairman & Managing Director: Laxmikant S. Dabholkar, J.P. Managerial:—G. Y. Kamat, General Manager; Miss K. Malkani, B.A., Secretary.

Head Office:—Devkaran Nanjee Buildings, Elphinstone Circle, Fort, Bombay.

Press:—12, Homji Street, Fort, Bombay Phones: 252955 & 251715.

Saiga & Co., Glass, Surgical and Laboratory Equipment, Rubber, Drugs and Medicines, 105, Apollo Street, Fort.

Saileshkumar & Co., Direct Importers and Stockists of Electrical Goods, 158, Lohar Chawl, Bombay 2.

Sajan & Co., 18, Custom House Road, Fort Bombay.

Salehbhai & Co., A. R., Direct Importers & Wholesale Dealers in Paper, 76/78, Sutar Chawl, Bombay 2.

SALEM & COMPANY, Consulting Engineers, and Contractors for Erection & Maintenance of heavy Machinery. Mafatlal House, Backbay Reclamation, Bombay 1. Phone: 37101. Grams: "SALECTRON".

SANDOZ PRODUCTS PRIVATE LTD. Registered Office: 3, Wittet Road, Ballard Estate, Fort, Bombay. Phone No. 264061/4.

Branches: Calcutta, Delhi & Madras.

Distributors in India, for Dyestuff Chemicals, Agrochemicals and Pharmaceutical Products of Sandoz Ltd., Basle, Switzerland, Bradford, and New York.

Pharmaceutical Dept.—Dr. D. Tata (Managing Director); Dr. M. C. Hindley man; E. Riquet; M. D. Boovariwala; Dr. J. N. Banerjee; D. R. Gupta; J. Samuel; Dr. J. Ng, K. R. Vazifdar; B. Chithesanjan (Delhi); N. S. Subramanyam (Calcutta); P. P. Gopal (Madras).

Dyes & Chemical Dept.—R. Zangger; C. E. Fletcher; R. Hintenberger (Joint Managers); Mahinder Lall.

Agrochemical Dept.—G. Gogel.

SANGHAVI & SONS, Importers & Exporters. Sanghavi Chambers, 27, Ghoga Street, Fort, Bombay 1. Phone : 253502. Grams : 'VIRVANDAN.'

Sanj Vartaman Printing Press & Office: Peraj Building, Apollo Street, Fort. Phone No. 38709. Newspaper/Job Printers of Repute.

SANKALCHAND G. SHAH & CO., PRIVATE LIMITED, Exporters & Importers of Yarn, Cotton, Sugar and Machinery Merchants, Hanuman Building, Tambakanta, Bombay 3.
Tel. Address : " Force," Bombay.
Telephone Nos. 23853, 20765, 241403, 27179, 86324, 26-2027, 253060, 61466 and 75377.

SANKEY ELECTRICAL STAMPINGS Private LTD.

Manufacturers of Stampings and Laminations for the Electrical Trade & Light Pressings for the Industry.
Regd Office & Calcutta Commercial Office :—Mookerjee House, 17, Brabourne Road, Calcutta. Post Office Box No. 926. Phone : Bank 4616. Tel. Address : "LOWLOSS", Calcutta.
Calcutta Works : Currie Road, Shalimar, P.O. Howrah.
Bombay Commercial Office : Agra Road, Bhandup.
Bombay Accounts Office : Wakefield House, Sprott Road, Ballard Estate, Bombay 1. Post Office Box No. 121-A. Phone : 261758-59.
Bombay Works : Agra Road, Bhandup, Bombay 40.
Telephone—Managing Director : Office : 67218. Residence : 42206. General Office : 67934-5.
Tel Address : "LOWLOSS", Bombay.

Santhanam & Co., Exporters, Importers & Commission Agents. Sri Ram Building, 2nd Floor, 195, Dr. Cowasji Hormusji Street, Bombay 2.

Sapt Textile Products (India) Private Ltd., Sapt Building, Graham Road, Ballard Estate, Bombay. Merchants and Exporters : Cotton and Textile wastes. *Directors :* K. J. Kirpalani ; W. L. Wolf ; H. Sommer : P. M. Strimpel. Tel. Address : "Caramel" Post Box No. 318. Phone : 262091.

SARDESAI BROTHERS PRIVATE LTD., Post Sardesai Factory, Bhimora (W. Rly.). Phone 484. Grams : "SARDESAI". Manufacturers of Quality Textile Chemicals, Vegetable Tallow, Preservatives, Detergents Resin Finishes, etc. *Bombay Office :* 14, Murzban Road, Fort, Bombay 1. Phones : 26196. Grams : "SURBINOL".

SARDESAI & COMPANY, Manufacturers' representatives for Textile Auxiliaries-Leather goods, Bobbins, Shuttles, Dyestuffs, Yarn etc. 14, Murzban Road, opp. New Empire Cinema, Fort, Bombay 1. Phone : Office : 263933. Res. : 74486. Grams : "SURBINOL".

Sargon & Co., Hague Building, Sprott Road, Ballard Estate. (*See Western India Trading Co.*)

SAURASHTRA ENGINEERING CORPORATION PRIVATE LTD.
(Estd. 1948)
Structural and Mechanical Engineers, Founders & Manufacturers, Janmabhoomi Chambers, 29, Fort Street, Bombay 1.
Phone—Office : 26-2808, Factory : 67343.
Grams : "SINGANATY".

SAURASHTRA WIRE HEALDS MFG. CO. PRIVATE LTD., Manufacturers of wire healds. *Sales Office :* Sanghavi Chambers, 27, Ghoga Street, Fort, Bombay 1. Phone : 253502. Grams : 'VIRVANDAN' *Factory :* Udyognagar, Bhaktinagar Station Road, Rajkot (Saurashtra). Phone : 201 Grams : 'WIREHEALDS.' Rajkot. *Managing Director :* M. K. Sanghavi.

SCHERING ASIA G.m.b.H. Manufacturers of Pharmaceutical Specialties on behalf of Messrs. Schering Asia G.m.b.H. Berlin, West Germany, and Scientific Information Service, 6th Floor, Sir Vithaldas Chambers, 16, Apollo Street, Post Box 10085, Bombay 1. Phone : 252503, Grams : "SCHERASIA."

SCINDIA STEAM NAVIGATION CO. LTD., Scindia House, Ballard Estate, Bombay 1. Tel. 268161. Grams : "JALANATH" (for Coastal Service). "SAMUDRAPAR" (for Overseas Service). Business : Shipping.

SCIENTIFIC INSTRUMENT CO., LTD., Navsari Building, 240, Dr. Dadabhoy Naoroji Road, Fort, Bombay 1. Importers and Stockists of Scientific Instruments, Apparatus and Appliances for Education, Research and Industry. Agents for Leica Camera and Accessories. Tel. Address : "SICO", Phone No. 26-2642. Offices also at Allahabad, Calcutta, Madras and New Delhi.

Scottish Alliance Insurance Co., Agents : Bhaichand Amoluk & Co., 9, Wallace Street, Fort, Bombay.

Scottish Union and National Insurance Co. (Estd. 1824). Fire, Motor Car, Personal Accident, Workmen's Compensation, etc., Funds exceed Rs. 50 Crores. Chief Indian Office : 6, Lyons Range, Calcutta. Branch Office : Hazratgunj, Lucknow. Bombay Branch Office : 16, Bank Street, Bombay. *Branch Manager :* K. M. Dastur. Tel. Address : "Fortior." Phone No. 251321. Post Box No. 821.

Seagrand & Co., Railway Sigaling Lamps mfrs. 19, Arab Lane, Grant Road Corner, Bombay 8.

SELVEL SYNDICATE, All-India Outdoor Publicity Organisers, Hashim Building, 38, Churchgate Street, Fort, Bombay.

Sentinel Assurance Co., Ltd., The, Prospect Chambers, Dr. Dadabhoy Naoroji Road, Fort, Bombay.

SEPULCHRE BROTHERS (INDIA) PRIVATE LTD., Importers-Exporters and Merchants, Taj Building, Dr. Dadabhoy Naoroji Road, Fort, P.O. Box No. 754, Bombay.
Tel. Nos. 261871 and 261872. Tel. Address : "Belcast".
Managing Director : R. C. L. Van Damme.
Managers : M. Sanker ; P. V. Ramanayya. D. T. Ghandy ; J. C. Oonwalla ; P. S. Shivram ; D. R. Malhotra ; K. Mahadevan and V. S. Mani.
Branches :
Calcutta, P.O. Box No. 2041. *Manager :* M. Parakot. *Madras :* P.O. Box No. 91. *Manager :* K. B. Chandran. *Cochin :* P. O. Box No. 49. *Manager :* P. R. Vidyadhar. *Visakhapatnam :* 20/359, Godevari Street. *Manager :* Y. N. Murty.

SETHIA C. & CO., Importers, Exporters and General Merchants. 59, Forbes Street, Bombay 1. Phone : 251695. Grams : 'SUKHSAGAR.

Dealing in : Air-Conditioning & Refrigeration machinery and accessories, Arcton (Freon) Gases, Electric Motors Generating Sets, Machine Tools, & etc.
Representing :
ERNST FLITSCH, STUTTGART, Germany. "FLICA" Expansion valves.
SAMSON, Apparatebau, A. G. Frankfurt, Germany. "SAMSON" Controls, Regulators.
AEROVOX CORPORATION, U.S. America. "AEROVOX" Motor Capacitors.
Machine Tools Department :
GUSTAV STROHM, Schwenningen/ NECKAR, Germany. Swiss Type Precision Long Turning Automatics

SETHIA, R. K. (INDIA) LTD., Exporters of Cotton, Raw Wool & Gunny merchants. Himalaya House, 79, Palton Road, Bombay 1. Phone : 261607. Grams : 'NEMJIS'

SETHISONS PRIVATE LTD., Sales Representatives for India to Dorr-Oliver (India) Ltd., for starch industry equipments Locury-Hydropress, U.S.A., Alcoa International - Aluminium, U.S.A., *Head Office :* 12, Rampart Row, Bombay 1. Office Phone No. 253069. Residence Phone No. 72723. Tel. Address : "SETHISON."
Branch : Kandla, New Delhi, Calcutta.
Managing Director : S. B. Sethi.

SEWRI ENGINEERING CONSTRUCTION CO., PRIVATE LTD., Civil Engineers and Contractors, Specialists in Design & Construction of Reinforced Concrete Structures.
Office :—Savoy Chambers, West Wing, Wallace Street, Fort, Bombay.
Phone Nos. 26-3941 & 26-1456. Post Box No. 319, Bombay 1.
Tel. Address : 'TIROD." Bombay.
Godown :—222, New Sewri Road, Sewri.
Engineers : C. V. Deshpande, B.E., M.I. Struct. E. (Lond.), M.I.E. (Ind.), P. R. Tongaonkar, B.E, M.I.E. (Ind.) and R. P. Deshpande.
Consulting Engineer : G. P. Bhandarkar, M.B.E., B.A., L.C.E., M.I.E. (Ind.), I.S.E. (Retd.).

Shah & Bros., Files & Hardware Merchants, 234, Nagdevi Street, Bombay 3.

Shah & Co., R. J., Merchants, Commission Agents and Forest Contractors, Hassan Chambers, Parsi Bazar Street, Fort.

Shah, A. H., & Co. Private Ltd., Jan Mansion, Sir Phirozshah Mehta Road, Fort. Phone : 26-1930. Grams : "OCSAH". *Sole Representatives :*—H. & R. Johnson Ltd. (Tiles) ; Johnson Bros. Ltd. (Sanitarywares) ; Johnson Bros. (Hanley) Ltd., (Domestic Tableware) ; Fordham Pressings (Cisterns) ; Samuel Booth & Co., Ltd. and Barking Brassware & Co., Ltd. (Sanitaryware fittings) ; John Slater (Stoke) Ltd. (Sanitary & Hospital Fireclayware) ; Robert McArd & Co., Ltd. (W. C. Seats) ; John Aynsley & Sons Ltd. (China Tableware).

Shah Brothers, Indentors of Paper, Boards, Newsprint, etc. 6, Malharrao Wadi, Kalbadevi Road, Bombay 2.

Shah Chhaganlal Savchand, Importers and Exporters, Cotton Piece-goods, Silk Merchants, 504, Kalbadevi Road, New Silk Bazar, Bombay 2.

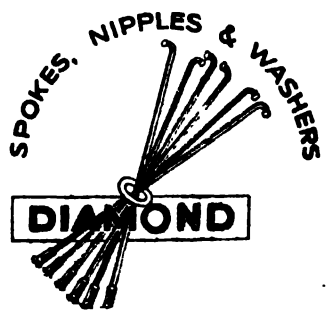
Shah, & Co., C. J., Sole Agents for L. C. Smith Corona Typewriters, Inc. and Sasaya Sugar Factory, Churchgate House, Churchgate Street, Fort.

SHAH CONSTRUCTION CO., PRIVATE LTD., Engineers, Contractors & Gunite Experts. 198, Churchgate Reclamation, Jamshedji Tata Road, Bombay 1. Phone: 37144. Grams: "SUPERTRADE."

Shah Engineering Stores, Hardware & Machine tools Stockists, 88, Nagdevi Cross Lane, Bombay 3.

Shah, & Co., D. D., Oil Paint Manufacturers, 93, Kika Street, Bombay.

Shah, & Co., H. T., Incandescent Gas Lights, Electrical Goods Dealers, Ahmed Bldg., Golpitha, Bombay 4.



Manufactured by
SHAH INDUSTRIES
8 Ebrahim Mansion,
366/68 Kalbadevi Road,
Bombay 2.
Phone: 39038 Grams: "CYCLEBELL"

Shah Patel & Co., Mill Gin & Hardware Merchants, 109-111, Nagdevi Street, Bombay 3.

Shah Tarachand Shamji, Sewing Thread Mfrs., Nagdevi Street, Bombay 3.

SHAH & SUNDAR
Agents & General Merchants.
Importers and Dealers in:—Automobile Parts and Accessories, Material Handling Equipments, Lubricating Oils, Garage Instruments and Hardware.
Address: 7/10, Horniman Circle, Botawala Building, Bombay 1.

Shah Trading Co., Ltd., Wholesale Dealers in Cycles & Cycle Accessories, 213, Princess Street, Bombay 2.

Shah Trading Corporation, Goldsmith Tools and Hardware Merchants, Oomrigar Building, Opp Crawford Market, Bombay 3.

Shah Virajlal & Co., 124-126 Kansara Chawl, Bombay 2.

SHALIMAR PAINT, COLOUR & VARNISH CO., PRIVATE LTD. Agents: Turner Morrison & Co. Private Ltd., 16, Bank Street, Bombay 1. Tel. No. 251321 (7 lines).

SHALIMAR TAR PRODUCTS (1935) LTD., Manufacturers of Coaltar products Specialists in Asphalt flooring, Roof Waterproofing, Damp-proofing, Decking, Canal linings, etc. Contracts executed under guarantee. 16, Bank Street, Fort, Bombay 1. Phone: 252185. Grams: "TARSTIL." H.O. 6, Lyons Range, Calcutta.
Bombay Manager: Shri P. Raghavan.

SHALIMAR TRADERS, Sole selling Agents for 'ECON' trucks for entire India; for 'GEEP' torches for Bombay State, Stockists of Handware, Material 'WOLF' portable Electric Tools and 'ADDISON' machine Tools. P. O. Box No. 1620. 111, Mahatma Gandhi Road, Bombay 1. Phone: 254368. Grams: 'SWANKY.'

Shambhulal A. Shah & Co., Specialists in all kinds of foreign and Indian make Papers & Boards, Podar Chambers, Parsi Bazar Street, Fort.

Shamsun & Co., Importers of Radios, Recordchangers, Watches, Time-pieces, Electrical Appliances, Fountain pens, Hardware etc., 11, Bruce Street, Fort, Bombay. Phone No. 252167. Tel. Add.: "Shasun."

Shantilal & Co. Private Ltd., Fluorescent Tubelight and Accessories Importers and Distributors, 195-197, Abdul Rehman Street, Bombay 3.

SHAPARIA DOCK & STEEL CO., PRIVATE LTD., Structural Engineers and Shipbuilders, Contractors, Iron & Brass Founders, Suppliers to Director-General of Industries & Supplies, Railways and Public Works Departments. Specialising Corrugated Steel Pale Fencing, Ornamental Gates, Rolling Shutters, Collapsible Gates, Tugs, Cargo & Passenger Vessels, Launches, Barges, Wood or Steel Life-Boats, Row Boats, Whalers, Dinghis, Pressed Steel Unsinkable Boats, Diesel Engines, Stone Crusher, Fire Fighters, Lead-Ulite for Cast Iron Pipe Jointing, Hollow Steel Rollers, Steel Cabinets, Safes, etc. and Engineering Stores and Tools Suppliers, Sewri, Bombay 15. Tel. Address: "SHAPARIA." Phone No. 60071 (2 Lines).

SHAPOORJI PALLONJI & CO. PRIVATE LTD., Building Contractors to Government and Railways, 70, Medows Street, Fort, Bombay. Phone No. 251534.

Shapurji, R. K., & Co., Importers & Indentors of Aromatic & Pharmaceutical Chemicals, Laboratory Reagents, Selenium metal, Bacteriological Peptone, Stains, Essences, Essential Oils, Solvents, Soap and Perfumery Raw Materials, Pressure Gauges, Sanitaryware, 319, Dr. Dadabhoy Naorjoji Road, P.O. Box 1065, Fort, Bombay 1. Grams: "SEVENSEAS."

Sharda Electric & Radio Co. Private Ltd. 159/63, Lohar Chawl, Bombay 2.

Sharp & Tannan, Chartered Accountants, Bank of Baroda Building, Apollo Street, Fort.

Sharp, R., & Son, Ltd., Stevedores, Dubashes and Marine Contractors, Kaiser-i-Hind Building, Currimbhoy Road, Ballard Estate. Tel. Address: "Granite." Phone No. 262440.

SHAW WALLACE & CO., LTD., Merchants and Agents, 3, Wittet Road, & Contractor Bldg., Nicoll Road, Ballard Estate, Fort, Bombay.
Head Office: Calcutta. Other branches at Madras, Delhi & Dibrugarh.
London Correspondents: R. G. Shaw & Co., Ltd., 14 and 19, Leadenhall Street, E. C. 3.
Bombay Director: I. A. Brewster. *Assistants*: P. A. Latham, G. Crasemann, F. C. Fairs, S. Bhatia. (Signs per pro), G. M. Palekar.
Agents:—
Allan Whyte & Co., Ltd., Glasgow (Unit, British Ropes Ltd.) (Wire Ropes).
Amalgamated Coalfields, Ltd., Calcutta.
American Cyanamid Co., Inc., New York ("Cyanogas," Calcium Cyanide for Plague Control).
Schweppes (Overseas) Ltd., London (Fruit Juices and Cordials).
Celotex Ltd. London. (Celotex board for heat-insulation and acoustics).
Isbrandtsen Co., Inc. New York (Cargo service between India, American North Atlantic Ports, China and the Far East).
Deutsche Dampfschifffahrts—Gesellschaft "Hansa" Bremen.
(Cargo Service between India/North Continental and Red Sea Ports).
Pench Valley Coal Co., Ltd., Calcutta.
Rewa Coalfields, Ltd., Calcutta.
The Tinplate Company of India, Ltd., Calcutta.
Venesta Ltd., London (Ornamental Plywood and Furniture).
Jaipur Mineral Development Syndicate Private Ltd., Jaipur. (Soapstone (Talcum) Powder and Lumps).
Udaipur Mineral Development Syndicate Private Ltd., Jaipur. (Soapstone (Talcum) Powder and Lumps).
The Associated Soapstone Distributing Co. (Private) Ltd., Jaipur.
Attorneys:
Queensland Insurance Co. Ltd.
Codes used: Acme, Bentley's Complete Phrase Code and Second Phrase Code. Tel. Address: "Shawlace." Phone No. 264051 (Seven lines). Post Box No. 208.

Sheraton & Co., Show-room, "Chateau Windsor," opp. Brabourne Stadium, Churchgate Street, Post Box No. 109-A, Bombay.

Sheth, S. C., & Co., Private Ltd., Dealers in Mill Stores, Bobbins & Shuttles, Textile Auxiliaries, Sizing Materials, Colours, Chemicals, Beltings, Leather goods for Textile Industry, Raja Bahadur Mansion, 14, Hamam Street, Fort. Tel. Address: "Agmol." Phone No. 255358.

SHETHIA, S. D., & CO., PRIVATE LTD. Coal Merchants, Landing and Bunkering Contractors, Colliery Agents. Head Office: 8, Netaji Subhas Road, Calcutta. Phone—22-6936/7. Bombay Office: Podar Chambers, Parsee Bazar Street, Fort.
Phone Nos. 255505-6 (Office), 40888 (Depot) and 40992 (Res.).
Grams: "SHETHIACO".

Shetty Automobiles, Direct Importers of Automobiles Parts and Accessories, etc. Opera House Tram Terminus, Bombay 4.

SHIAVAX C. CAMBATA & CO. PRIVATE LTD., Colliery Proprietors and Agents, Coaling Contractors, Stevedores, Dubashes and Bunkering Contractors. General Merchants and Contractors. Proprietors The Rakhikol Collieries. Managing Agents: The Eros Theatre & Restaurant Private Ltd., Cambata Building, 42, Queen's Road, Back Bay Reclamation, Fort.
Tel. Address: "Coalpits." Telephone No. 37191 (5 lines).

SHILPI PRIVATE LTD., Advertising Shahibag House, 13, Wittet Road, Ballard Estate, Bombay 1. Phone: 264201 Grams: "SPLASH". Manager: Nissim Ezekiel Major clients include the Swastik Oil Mills Ltd., Sarabhai Chemicals Calico Mills, The Indian Plywood Manufacturing Co. Ltd., Mhatre Pen and Plastics (Plato pens), Air India (part account) etc.

SHIP SALES CO.
Commissariat Building,
231, Hornby Road, Bombay 1.
Phone: 263598 AFTER HOURS: 35070. Grams: "SHIPSALES", Bombay. (Code-NewBoe) Brokers for the Sale and Purchase of Steamers and New buildings, also Floating Equipment of every description. Towage Contractors. Advisers and Consultants on all Types of Marine Crafts including Dredgers, Tugs, Launches, Ferries, etc.
MARINE INSURANCE.

SHISHIR & CO., 62, Nagdevi Street, Bombay 3. Sole Agents: World Famous "POLDI" Steel Works, Czechoslovakia. Importers and Stockists of Highspeed Steel, Die Steel, Tool Steel, Stainless Steel, Alloy Steel, etc. Phones: 23047 & 75807. Residence: No. 61716. Grams: "Shishirco."

Shivlal Motilal, Hansraj Building, 56-60, Masjid Bunder Road, Bombay No. 3. Oil and Oil Cake Manufacturer and Merchant, Exporter & Importer, Supplier of Fertilizers & Indian Produce. Phone Nos. 70635 and 61157. Tel. Address "Fathomless."

Shree Bombay Watch Co., Direct Importers of Watches, Clocks and Jewellery, 160, Hornby Road, Fort.

SINGER SEWING MACHINE COMPANY

BOMBAY CENTRAL AGENCY OFFICE

Singer Building, 207, Dr. Dadabhoy Naoroji Road, Fort, Bombay 1. P.O. Box 176. Grams: "Singer", Bombay. Phone: 26-3187 (3 lines).

MANUFACTURERS' AGENCY

Singer Building, 207, Dr. Dadabhoy Naoroji Road, Fort, Bombay 1. P.O. Box 619. Grams: "Coregnis", Bombay. Phone: 26-3187 (3 lines).

Manufacturing Trade Departments at:

CALCUTTA

29, Waterloo Street, P.O. Box 456, Calcutta 1.
Grams: "COREGNIS". Phone: 23-2637.

BOMBAY

Singer Building, 207, Dr. Dadabhoy Naoroji Road, Fort, Bombay 1.
Grams: "COREGNIS". Phone: 26-3187 (3 lines).

AGRA

518/7, Jaswant Talkies Building, Hing Ki Mandi, Agra.

AHMEDABAD

Jackaria Masjid, Relief Road, Ahmedabad 1.
Phone: 4807.

BANGALORE

171, Commercial Street, P.O. Box 78, Bangalore Cantonment.
Grams: "COREGNIS". Phone: 5521.

KANPUR

Life Insurance Corporation of India Building, Phool Bagh Road, Kanpur.
Grams: "SINGER". Phone: 22404.

DELHI

21, Faiz Bazar, Darya Ganj, Delhi 7.
Grams: "COREGNIS". Phone: 25423.

MADRAS

12, Mount Road, Madras 2.

Shree Industrial & Commercial Syndicate Ltd., 198, Jamshedji Tata Road, Bombay 1.

SHREE KARNATAK AGENCIES, Foundry equipment dealers, 48, Western India House, Pherozshah Mehta Road, Fort, Bombay 1. Phone: 253105. Grams: "Sachoti".

Shree Mahavir Electric Trading Co., Stockists of Electrical Goods and Appliances, 182, Zaveri Bazar, Bombay 2.

Shree Niwas Cotton Mills Ltd., DeLisle Road, Bombay 13.

Shree Ram Trading Co., Importers, Exporters and General Agents. Phone: 20359. Grams: "Aryadesh." 195, Kalbadevi Road, Bombay 2.

Shree Shakti Mills Ltd., Podar Chambers, Parsi Bazar Street, Fort, Mills at Mahaluxmi.

Shroff, R. P., & Sons, Stock Exchange Building, Dalal Street, Fort.

Shuttleworth & Brett, Exchange Brokers, 21, Ravelin Street, Fort.

SIEMENS EDISON SWAN LTD. (Incorporated in England). *Bombay Branch:* United Bank Bldg., Sir P. M. Road, Bombay 1.
K. M. Kalapesi, L.E.E., Manager, Bombay Branch Tel. Address: "SIEMENS," Bombay. Phone: 253927 (2 lines). Post Box No. 1062. Head Office in India: 5, Clive Row, Post Box No. 2261, Calcutta 1. F. C. Calsh, Manager for India.
Manufacturers of Electric Underground Cables & Boxes, C.M.A. Wires & Cables, Insulating Materials including Black Adhesive Tapes, Telephone Equipments and Cables, Dry, Inert and Leclanche Cells, Electric Lamps of all Types, Fluorescent Tubes, House Service Meters, Ceiling & Table Fans. Agents for: Electrical measuring Instruments & Telegraph Apparatus, manufactured by Elliott Brothers (London) Ltd., London.

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Branches: Calcutta and New Delhi.
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Simplex Art Floorings Private Ltd., Flooring and Interior Decorators. Specialists in Marble, Tiling, Mosaic, Terrazzo and all Decorative Stone Work. Office: "La Citadelle," 99, Queen's Road, Bombay.

Factory: "Shant Shree" (formerly Lovji Castle), Government Gate Road, Parel, Bombay.
Phones: Office: 241340. Factory: 60623.
Tel. Address: "Simplex."

Simplex Concrete Works and Construction Co., Engineers, Contractors and Manufacturers, "La-Citadelle," 99, Queen's Road, next to Central Government Offices, Bombay. Tel. Address: "Simplex." Tel. No. 241340.

SIMPLEX MILLS COMPANY LIMITED, THE.
Manufacturers of:—Canvas, Belting Ducks and Industrial Sorts, Furnishings, Flannelettes, Drills, etc.
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Mills at:- Clerk Road, Byculla, Bombay.
Telegraphic Address: "YESTERMORN."
Mill's Telephone: 40617.
Office Telephone: 268081 (10 lines).
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Simplex Timber Mart, 66, Pydhoni Road, Khadak, Bombay 9. Phone: Call on 70663.

SINDHI CLEARING AGENCY, (ESTD. 1930), Godown Keepers & Clearing and Forwarding Agents. 384-C, Dabhalkar Wadi, Kalbadevi Road, Bombay 2. Phone: 22646. Grams: "BELANISONS".

SIR KASTURCHAND PRIVATE LTD., Exporters, Importers, Financiers, Commission Agents, Automobile Distributors and Repairers. Kodak House, Hornby Road, Fort, P.O. Box No. 53. Phone No. 263170. Tel. Address: "Dagaco." Show Room: Kastur Nivas, French Road, Chowpatty, Bombay. Phone: 40941.

Sirdar Carbonic Gas Co., Ltd., Manufacturers of CO2-Liquid, Dry Ice, Aerated Water Machines and their Spare Parts, Connaught Road, Mazagon. Tel. Address: "Carbonic." Phone No. 40812.

Sirur, N., & Co. Private Ltd., 70, Forbes Street, Temple Bar Building, Fort. Managing Agents: The Mysore Spinning and Manufacturng Co., Ltd., Minerva Mills Ltd., Modern Mills Ltd. Tel Address: "Chamundi." Phone No. 251067.

Sivaramakrishnan, M., Importers, Exporters & Manufacturers' Representatives, 82-86, Abdul Rehman Street, Bombay 3.

S. K., & Co., Dealers in Electrical Goods, Gopal Nivas, 133, Princess Street, Bombay 3.

SKF BALL BEARING CO., PRIVATE LTD., THE, Head Office: Mustafa Building, Sir Pherozshah Mehta Road, P.O. Box No. 71, Fort, Bombay 1. Branch Office: 18, Netaji Subhas Road, P.O. Box No. 588, Calcutta. Distributors of Ball and Roller Bearings, Roller Bearing Axleboxes, Split Belt Pulleys, Ball Bearing Top Rollers and Pendulum Arms, Jockey Pulleys for Ring frames and Lineshafting Equipment and De Laval Industrial Separators. Managing Director: J. Higham. Codes used: Western Union and Private. Tel. Address: "Skefko". Phone Nos. 252241 (2 lines), Bombay and Bank 225494 (2 Lines), Calcutta.

SKODA (INDIA) PRIVATE LTD., Consulting Engineers and Suppliers of heavy industrial plants, such as Sugar and Cement Factories, Steam and Hydro-Electric power stations, etc., etc. from Czechoslovakia, Vulcan Insurance Building, Churchgate Reclamation, P.O. Box 1963, Bombay. Tel. Address: "CZECHPLANT."

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SMIDTH, F. L., & CO. (BOMBAY) PRIVATE LTD., Engineers, Manufacturers and Designers of Cement factories, Eros Cinema Building, 42, Queen's Road, Churchgate Reclamation. Phone No. 37096. Tel. Address: "Folasmidth".

SMITH KLINE & FRENCH & INTERNATIONAL CO., Manufacturers of Ethical Pharmaceuticals (Incorporated in U.S.A. with Limited Liability). Bombay Branch: 232, Dr. Dadabhoy Naoroji Road, Fort, Bombay 1. Phone: 261868. Grams: "Smithkline."

Sobhraj Reloomal, Kalbadevi, Bombay 2.

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"Sonico," Photographical Material, Wholesalers & Chemists and Druggists, 171, Dr. Dadabhai Naoroji Road, Fort, Bombay. Phone: 263976. Grams: "SONIPHOTO."

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SORABJI NOWROJI & CO., 16, Horniman Circle, Fort. Bombay 1. Phones: 252410 & 252631. Tel. Address: "WELFARE."

SOUTH BRITISH INSURANCE CO., LTD., Canada Building, Dr. Dadabhoy Naoroji Road, Bombay. Phone No. 26-4711. Grams: "British". Manager: W. J. Morgan. Inc. and Head Office, New Zealand. All classes of Insurance excluding Life.

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Spence Limited, 29/33, Gowalia Tank Road, Bombay 26. Telephone: 72446.

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Phone No. 72361.

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Bombay Manager—F. W. Audsley, Assistant—Dev Raj.

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Standard Garage, Modi Chambers, Bombay 4.

STANDARD GENERAL ASSURANCE CO. LTD., THE (Incorporated in India), (Estd.: 1944), 17/B, Elphinstone Circle, Fort, Bombay. Transacts all general Insurance business. Grams: "STANGENAL". Phones: Office 255565-66. Manager's Residence: 27983.

Head Office:—9, Brabourne Road, Calcutta. Phones: Bank 4225/4226.

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Manager (Bombay Division):—B. R. Adhvaryu.

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STANDARD ROLLING SHUTTERS & ENGINEERING WORKS, on Approved Government & P.W.D. List. Office:—Opp. Jai Hind Cinema, Next to Byculla Goods Yard, Bombay 12. Phone: 41624. Fort Office:—11, Bruce Street, Fort Grams: "Reishutter." Manufacturers of M. S. Rolling Shutters, Electrically Operated Rolling Shutters, Rolling Grills, Collapsible Gates, Railings, Grills, Corrugated Steel Pales Fencing, Pressed Steel Gutters, Tanks, Compound Gates, Wheel Barrows, Municipal and P.W.D. Carts, Steel Structures, Shutter Gates, Alligator Doors for Electric Lifts, etc.

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Bombay Territory Office:—Standard-Vacuum Building, 17, Jamshedji Tata Road, Churchgate Reclamation, Bombay 1. Telegraphic Address: "STANVAC". Telephone No. 249151 (10 lines). Post Box No. 181. Code used—Private.

STANLEY WORKS, THE, 43-44, Lakshmi Building, 3rd Floor, Sir Phirozshah Mehta Road, Fort. Phone No. 26-2787. Tel. Address: "Stanlyworx". Post Box No. 491. Manufacturers of Builders' Hardware, Carpenters', Mechanics' and Portable Electric Tools.

Star Art Framing Works, No. 90, Medows Street, Fort.

STAR METAL REFINERY PRIVATE LTD. (Estd. 1940), The only smelters of Antimony "Starmetal" in India. 361, Dr. Dadabhoy Naoroji Road (Hornby Road), Fort. Phone: 253347. Grams: "Starmetal." Factory: Vikhroli (Central Rly.). Phone: 67327.

Managing Director: Ramanlal Parikh.

STAR PAINT & OIL INDUSTRIES, Crescent Chambers, Tamarind Lane, Bombay 1. Mfrs. of Industrial, Marine and Building Paints; Natural & Synthetic Enamels & Varnishes etc. Specialist in "SILVO" Aluminium Paint, Multi-Purpose, Roof-Top, High Temperature Heat Resisting upto 1000°F. & Rubberex Rubber Paint (For Chemical Resisting). Grams: "Starpaint". Phone No. 253493.

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STAR TRADING CO., PRIVATE LTD., THE, Importers of Textile Machinery & Stores. Bank of Baroda Building, 12, Apollo Street, Fort, Bombay 1. Phone Nos. 253480 & 251357; Grams: "STAR-TRADE."

STEAM & MINING EQUIPMENT (INDIA) PRIVATE LTD., Head Office: 101, Park Street, Calcutta 16. Branch Office: Bombay Mutual Chambers, 21, Hamam Street, Fort, Bombay 1. Phone: 252061. Grams: "STEAMING", Bombay.

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Manager: J. N. C. Kilick.
Assistants: I. Madhok, M. N. Sargent, R. Rana and K. S. Tyabji.
Phone Nos. 251214-15. Grams: "STEELSEQUE".

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SteelAge Industries Private Ltd., Opp. Post Office, Mazagaon, Bombay 10. Mnfctrs. Steel Furniture Security Equipment, etc. Phone No. 41014. Grams: "SteelAge". Show-rooms: Readymoney Mansion, Veer Nariman Street, Fort, Bombay. Phone: 253429. Branch: 71, Ganesh Chandra Avenue, Calcutta 13. Phone: 24-1121. Grams: "Symbolic."

STEELYARD PRIVATE LIMITED, Regd. Office: Carnac Bunder, Argyle Road, Bombay 9. Steel, Hardware. *Chairman:* Jathashankar Gopalji. *Managing Directors:* C. J. Ambani, K. V. Mehta. Phone: Sales Office 22643. Tele. Address: "Scotchiron."

STERLING DYES PRIVATE LIMITED, Manufacturers of Textile Dyes & Chemicals. Office: 231, Samuel Street, Vadgadi, Bombay 3. Phone: 20462. Grams: "LAXNAGAR." Works: Agra Road, Bhandup, Bombay 40.

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Stone Supplying Co. Ltd., Marble, Tiles & Stone Merchants, 494, Duncan Road, Bombay 4. Phone No. 72586.

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Works No. 2: Bombay-Agra Road, Near Mile Stone 20, Mulund (Bombay Suburb).

Phones: Office: 255437, 255601-2-3.
Works No. 1: 62741-2.
Works No. 2: 67981 and 67982.

Mr. Bhagat's Residence: 40398.

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A. M. Kapadia, A.M.I. Struct. E., M.I.W. (Lond.), Technical Adviser.
I. N. Bhagat.
B. M. Ghia.
Mathew S. D'Souza.
M. N. Bhagat (Tech. Asst.).
J. R. Taleyarkhan (Commercial Manager), A. T. Tarkas (Secretary).
D. S. Mulla.

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SUDHIR & COMPANY, Exporters, Importers & Manufacturers' Representatives, Steel, Small tools, Starches, Waterproof Packing Papers and Chemical Merchants, 248, Samuel Street, Bombay 3. Telegram: "SPEEDSTEEL". Telephones: Office: 22288 & Factory: 60024.
(A.B.C. 5th & 6th edition, Bentley's).

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Sukhanand Shankerlal Jain & Co., Dyestuffs & Chemical Merchants, 47, Daryasthan Street, Bombay 3.

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Sunderlal & Sons, Mill Gin & Hardware Merchants, 11, Narayan Dhuru Cross Lane, Bombay 3.

Super Leather Works, Leather & Canvas Goods Dealers, 300, Abdul Rehman Street, Bombay 3.

Superior Stationery Mart Private Ltd., Stationers, Printers, Direct Importers of Stationery and Paper. Examiner Building, 117, Medows Street, Fort, Bombay 1. Phone: 25-2398. Grams: "Loveliness."

Superphone India, Communication Consultant, 7, New Queen's Road, Bombay 4.

SURAT ELECTRICITY COMPANY, LIMITED, THE, CENTRAL ADMINISTRATION DEPARTMENT, Sorab Mansion, 35, Murzban Road, Fort, Bombay. *Officers:* H. J. MacQueen, C.A., J. A. Colaco, B.E., A.M.I.E.E., R. D. Modak, B.A., B.Sc., B.S. (Engr.), S. A. A. Pinto, M.A., LL.B., S. Datta, B.Sc., B.E.E. *Telegraphic Address:* "ADISEBS," Bombay. *Telephone Nos.* 261741/261742. *Managing Agents:* Killick Industries Ltd., Home Street, Fort, Bombay. *Local Office:* Tilak Maidan, P.O. Box No. 20, Surat (Ref. Surat Section).

UREM, W. T., & CO. PRIVATE LTD., Merchants, United India Building, Sir Phirozshah Mehta Road, Fort, Post Box No. 229, Bombay 1. Tel. Nos. 252281/252282. Tel. Address: "Suren". Importers of Ferrous and Non-Ferrous metals, Paper, Electrical Materials, Chemicals, Pharmaceuticals, etc. Sole Importers for India of Endocrinal and Pharmaceutical preparations manufactured by Schering Corporation, Bloomfield, New Jersey (U.S.A.). *Sole Distributors for:* Teddington Chemical Factory Private Ltd., Andheri.

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Swastik Engineering & Construction Co., Sanitary Engineers and Contractors, Confectioner Building, 303 Frere Road, Fort, Bombay 1. Phone: 261869.

Swastik Paper Mart, For Newsprint, Corrugated Boards and other boards, 54, Sutar Chawl, Bombay 2.

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Swastik Rolling Shutters & Engineering Works, Parel Station Road, Bombay 12. Rolling Shutters Manufacturers.

Swedish Match Co., The, Match Manufacturers. *Office:*—Indian Mercantile Chambers, Nicol Road, Ballard Estate.

Sykes, Patker & Divecha, Architects, Engineers & Surveyors, 24-26, Dalal Street, Fort.

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Union Press, all kinds of printing undertaken, 13, Homji Street, Fort.

Union Trading Co. (Bombay) Ltd., Manufacturers' Representatives & Provision Merchants, Arya Bhuvan Building, Graham Road, Ballard Estate, Fort.

Unique Trading Corporation, 221, Sheriff Devji Street (Chakla), Bombay 3. Phone: 30011. Grams: "Unilab." Importers & Stockists of Scientific Apparatus, Laboratory Glassware, Authorised Distributors for "Whatman" Filter Papers.

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United Engineering Corpn., 5, New Queen's Road, Bombay 4.

United Importers Corporation, Toys Importers & Wholesalers, Phalton Road, Bombay 1.

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Unique Trading Corporation, 221, Sheriff Devji Street, Bombay 3. Phone : 30011. Grams : 'Unilab.' Importers & Stockists of Scientific apparatus, Laboratory Glassware, Authorised Distributors for 'Whatman' Filter papers.

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Usha Textiles & Machinery Corporation, Mill Stores & Machinery Merchants. 75, Tamarind Lane, Fort, Bombay.

Vadilal & Co., Marble & Tiles Merchants. 485, Duncan Road, Bombay 4.

Vallabhdas Mohanlal & Co., Exporters of Textiles, Hosiery, Spices, Ghia Building, Princess Street, P.O. Box No. 2200, Bombay 2. Phone : 23903. Grams : "Vallabhco."

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Wallace & Co., J. P., Machinery and all supplies for Textile Mills, Shale Building, 28-32, Bank Street, Fort. Phone: 20839. Grams: "Walpy".

Wallace Flour Mills Co., Ltd., Registered Office: 9, Wallace Street, Fort. Telephone: 26-3281.

Wallace, P. R., & Sons, Ltd., Elphinstone Building, 10, Churchgate Street, Fort.

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Ward, Thos. W. (India) Ltd. (Subsidiary of Thos. W. Ward Ltd., Sheffield), Registered Office:—Marshall Building, Ballard Road, Fort, Bombay.

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Western Link Company, Importers, Exporters & Indenting Agents. P.O. Box No. 1200, G.P.O., Bombay 1.

WESTINGHOUSE TRADING CO. (ASIA) LTD., "The International," 16, Queen's Road, Bombay 1. Tel. Address: "Westasia." Phone No. 24-1094. *Vice-President:* Mr. V. M. White. *Regional Supervisor:* Mr. G. B. Sujan.

WESTREX COMPANY, INDIA, Metro House, Mahatma Gandhi Road, Bombay 1. P.O. Box No. 1232. Tel. Address: "Westrex." Phone Nos. 242273 & 242274.

WHARTON, H. W., & CO., PRIVATE LTD., Importers and Manufacturers of Lubricating Oils & Greases, Welding Rods, Toilet papers, Adding Machine Coils, Iron Cement, "Silica Gel" Paints, etc. *Directors:* J. K. Rege, C. W. H. P. Waud, V. V. Dabholkar, C. H. Hardcastle, and M. K. Rege. Alice Building, Dr. Dadabhai Naoroji Road, Fort, Bombay 1. Phone: 255771.

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Tele. Address: "BOOKSTALLS—Bombay".

Telephone No. 26-3915, Bombay.

Post Office Box 204, Bombay 1.

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James Bertram & Son Ltd., Leith Walk, Edinburgh 6. Manufacturing: Stock Preparation Paper & Board Machine

Vickerys Limited, 4, Lambeth Palace Road, London, S.E.1. Manufacturing Stock Cleaning System, Felt Conditioners, Doctor Blades, etc.

Ernest Scott & Co. Ltd., Artillery House, Artillery Row, Westminster London, S.W. 1. Manufacturing Pulping and Chemical Recovery Plants.

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Langworthy Bros. & Co. Ltd., 1 Charlotte Street, Manchester 1 Manufacturing: Moleskin and Blowing Wrapper Cloths.

R. R. Whitehead & Bros., Ltd., Rose George Mills, Greenfield, near Oldham Lancs., England. Manufacturing: All Types of Woollen Pressed Felts

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Wiltshire Dairy Farm, "Win-Villa," 28, Care Road, Byculla, Bombay No. 8.

Wadhwere (India) Private Ltd., Importers, Exporters of Cotton and Rayon Piece-goods & Yarn and Commission Agents, 6 Sir Vithaldas Chambers, 16, Apollo Street, Fort. Phone: 252443.

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Y. M. Pathare & Co., Engineers, 41, Medows Street, Post Box No. 1428, Bombay 1

Yorkshire Insurance Co., Ltd., 10, Bruce Street, Fort, Bombay. Tel. Address: "Yorkshire." Phone No. 25-2321. Post Box No. 842.

Zandu Pharmaceutical Works, Ltd., The, Manufacturers of Ayurvedic & Allopathic (including Biological) Products, Gokhale Road (South), Bombay 28.

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Zenith Electric Stores, Electrical Goods Importers & Stockists, 51, Ahmed Building, Lohar Chawl, Bombay 2.

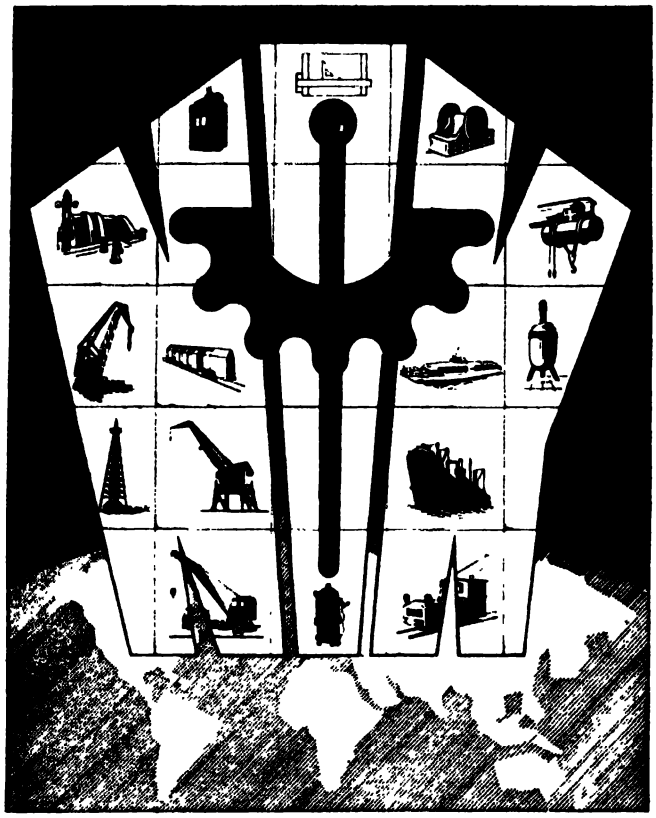
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Zenith Safe Manufacturing Co., Lock & Safe Merchants, 249, Kalbadevi Road, Bombay 2.

ZENITH TEXTILE ENGINEERING CO., Textile Engineers and Manufacturers of Spare Parts of Cotton Spinning and Weaving Machinery. Specialists in Manufacture of Roller Bearing Spindles and Conversion Materials. 250, Ripon Road, Bombay 8. Phone: 42784. Grams: "ZENTEX."

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Ropeways

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Accessories and spare parts to the above instruments and equipments.

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Abdeally, B. M., & Co.—127, Sarang Street, Bombay 3. Phone : 29990.

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Babulal & Bros.—26, Nagdevi Cross Lane, Bombay 3.

Bharat Engineering Stores.—113, Nagdevi Street, Bombay 3.

CHANDRAKANT SHAH & CO.—95, Abdul Rehman Street, Bombay 3. Largest Stockists of Sandpaper, Emery Cloth, Emery Tape roll, Carborundum cloth, Emery powder, Emery fillet, Emery Disc and all kinds of quality Abrasives.

Cox & Co., Ltd., H. S.—24, Rampart Row, Fort, Bombay.

Gaytee & Co.—Janmabhoomi Chambers, Fort Street, Bombay 1.

Gillanders Arbuthnot & Co., Ltd.—16, Queen's Road, Bombay 1.

Grind-Well Abrasives Limited.—Karim Chambers, 40, Hamam Street, Fort.

Jacks, William & Co., Ltd.—Hamilton House, Graham Road, Ballard Estate, Fort.

MARVIN & CO.—3, Modi Chambers, Kennedy Bridge, Bombay 4. Phone : 40448. Grams : 'VINMAR.'

M. DESAI & CO.—163, Narayan Dhuru Street, Bombay 3. Grams : "EMDESAICO." Authorised Stockists for Grinding Wheels by Carborundum Universal Ltd.

NAGDEVI TOOL-STEEL MART.—186-88, Nagdevi Street, Bombay 3. Phone : 23058. Grams : "TENDERERS."

PAREKH TRADING CO.—48, Nagdevi Cross Lane, Bombay 3. Phone : 34723. Grams : 'DIGNITY.' Importers & Stockists of Engineering Stores, Tools & Abrasives. Branch : 59, Bibijan Street.

P. Ratilal & Co.—43, Dhanji Street, Bombay 3.

Ratilal Shah & Co.—93, Narayan Dhuru Street, Bombay 3.

S. G. TRIVEDI.—90, Nagdevi Street, Bombay 3. Phone : 39041. Grams : 'BASICSTEEL.' Sole Selling Agents for 'CAT' & 'RHINOCEROS' brand coated Abrasives.

Shah Engineering Stores.—88-92, Nagdevi Cross Lane, Bombay 3.

Shah Trading Corporation.—Oomrigar Building, opp. Crawford Market, Bombay 3.

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Hollerith (India) Private Ltd.—Head Office : Fazalbhoy Building, Mahatma Gandhi Rd., Bombay 1.

IBM WORLD TRADE CORPORATION.—Bombay Branch and Head Office : Vulcan Insurance Building, Veer Nariman Road, Bombay 1. Phone : 24-2386. Grams : "INBUSMACH." Offices at Calcutta and New Delhi. IBM Electric and Electronic Accounting Machines.

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REMINGTON RAND OF INDIA LTD.—Manufacturers of Remington Rand Business Equipment, Thackersey House, Graham Road, Ballard Estate, Bombay. Phone : 261196 (2 lines). Grams : "REMINGTONS."

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Burroughs Corporation. See Adding Machines (India) Private Ltd.

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NATIONAL CASH REGISTER CO.—Steelcrete House, Dinsha Watcha Road, Back Bay Reclamation, Bombay 1. Agents for Friden Automatic Calculator.

Prince, H. I., & Son.—9, Lily Court, Churchgate Reclamation, Bombay.

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Ajanta Advertising.—3rd Floor, Lakshmi Bldg., Sir P. M. Road, Bombay 1.

BHARAT ADVERTISERS & PRINTERS.—104, New Citizen Bank House, Palton Road, Bombay 1.

Bombay Advertising Society.—Commerce House, 140, Medows Street, Fort, Bombay 1. Tel. Address : "CALADSO."

D. J. Keymer & Co. Ltd.—Steelcrete House, Dinshaw Wacha Road, Backbay Reclamation, Bombay 1.

Everest Advertising Private Ltd.—Kitab Mahal, Dr. Dadabhoy Naoroji Road, Fort, Bombay 1.

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Green's Advertising Service Agents.—Rustom Building, Churchgate Street, Fort.

Gujarat Advertising Agency Ltd.—Dahanukar Building, 480, Kalbadevi Road, Bombay 2.

HEROS' PUBLICITY SERVICE.—4-B, Vulcan Insurance Bldg., Veer Nariman Road, Bombay 1. Phone: 242089. Grams: 'HEROSPUB.'

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INDIA ADVERTISING SERVICE.—Western India House, Sir Phirozshah Mehta Road, Fort. Tel.: 254769. Branch Office: 7D, Rajouri Gardens, New Delhi 15. Phone: 51591.

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Samant, B. P., & Company.—Advertising Agents, Mithabai's Mansion, 115, Charni Road.

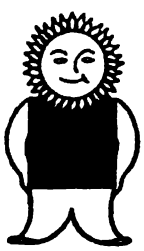
SELVEL SYNDICATE.—Hashim Building, 38, Churchgate Street, Fort. All-India Outdoor Publicity Organisers.

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Premier Aerated Waters Ltd.—Lamington Road (North), Bombay 8.

Pure Drinks Ltd.—Worli, Bombay 18.

Rogers & Co., Ltd.—18, Clare Road, Byculla, Bombay.

Spa's Mineral & Ice Factory.—Lamington Road (North), off Jacob Circle.

Turf Aerated Water, Ltd.—69, Tardeo Road, Bombay 7.

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AKBARALLY MOHAMEDALLY & CO. (Estd. 1917).—Importers of Aerated Water Requisites and General Merchants. 316, Abdul Rehman Street, Dawoodi Building, Bombay 3. Grams: "ICECREAM." Phone: 30962. Branch: The India Essence Mart, 299, Wall Tax Road, P. T., Madras. Grams: "HOPEFUL."

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Bombay Garage (Private) Limited.—Meher Building, Chowpatty, Bombay 7.
Brady, W. H., & Co. Ltd.—12, Vir Nariman Street, Fort.

BRIGHT BROS. PRIVATE LTD.—156-A, Tardeo Road, Bombay 7. Grams: 'BRIBOS'. Phones: 77454 & 77455. Manufacturers of Air-Conditioner Fronts Grilles, Refrigeration Components, etc. in plastics.

Calcutta Bombay Trading Corporation.—Royal Opera House Building, Bombay 4.

CHATUR PARMANAND VASWANI.—1st Floor, National Insurance Bldg., 59, Forbes Street, Fort, Bombay 1. Phone: 251340. Grams: 'CLIMATEER." Agents for "COPELAND."

CHOONILAL MOHANLAL & CO.—Shop No. 54, Kika Street, (Gulalwadi), Bombay 4. Stockists of Seamless Copper Tubing for Air-Conditioning. Phone: 72064. Grams: 'RODS.'

DADAJEE DHACKJEE & CO. PRIVATE LTD.—Refrigeration and Air-Conditioning Dept., Sandhurst Bridge, Bombay 7. Importers of Remote type and Central Air-Conditioning Plants, "Tempair" Consort Window Model Air-Conditioning Units manufactured by Tempair Ltd., U.K.; "Winair" Air-Conditioners manufactured by Gebr. Winkelstrater of W. Germany; COOL-A-MATIC Commercial Air-Conditioning and Cold Storage Equipment manufactured by General Engineering and Manufacturing Co. of New Orleans, U.S.A.; "Prestcold" Commercial Refrigerators and Condensing Units manufactured by Pressed Steel Co. Ltd., of England; also Ice Machinery, etc. Telegrams: "PROMPT" Bombay, Phone No. 27021, 23.

C. SETHIA & CO.—59, Forbes Street, Bombay 1. Phone: 251695. Grams: 'SUKHSAGAR.'

Duncan Stratton & Co. Ltd.—5, Bank Street, Fort.

Economy Refn. & Engineering Co., Limited.—P. B. No. 449, Kirti Building, Forbes Street, Bombay 1. Phone: 253342. Grams.: 'ICEMACHINE'. Agents in India for VILTER Refregeration & Air-Conditioning Machinery.

Electronics Limited.—71, Queen's Road, Bombay 2.

English Electric Co. Ltd.—Vulcan Insurance Building, Churchgate Reclamation, Bombay 1.

Fleming John & Co., Private Ltd.—P. B. No. 76, Bombay 1. Phone: 261153.

Freeall.—Tribhuvan Road, Bombay 4.

Gannon Dunkerley & Co., Ltd.—Chartered Bank Building, Mahatma Gandhi Road, Fort.

Garlick & Company (Private) Limited.—Haines Road, Jacob Circle, Bombay 11.

General Electric Co. of India (Private) Ltd.—Magnet House, Dougall Road, Ballard Estate, Bombay 1.

General Radio Appliances Ltd.—Opera House, Bombay 4.

GORAKHRAM GOKALCHAND ENGINEERING (G.G.E.).—Chalsey Chambers, Zaveri Bazar, Bombay 2. Grams: 'HAPPY.' Phone: 22740. (Air-Conditioning & Refrigeration Engineers). Dealers in Window, Packaged and other Commercial Air-Conditioners, Refrigerators, Automobile Air-Conditioners, Water Coolers and other type of Refrigeration Equipments. Refrigeration, Air-Conditioning and Cold Storage Specialists, Sales and Services.

Gramophone Company Ltd.—Universal Insurance Building, Sir P. M. Road, Bombay 1.

Grovers (Private) Limited.—Opp. Gawalior Palace, Dr. Annie Besant Road, Worli, Bombay 18.

Heatly and Gresham Ltd.—9, Forbes Street, Fort.
I.C.I. (India) Private Ltd.—P. B. No. 310, Bombay 1.

INDUSTRIAL AIR CONTROL (INDIA) PRIVATE LTD.—Karimjee House, 2nd Floor, 39, Sir Phirozshah Mehta Road, Fort, Bombay. Phone No. 266474. Grams: "COOLAIR." Specialists in all Air-Handling Equipments, Textile Dust and Fume Removal and Oil Spraying.

Industrial & Engg. Services, Sunderbaug Estate, Agra Road, Kurla, Bombay 37.

International General Elec. Co. (India) Private Limited.—Thackersey House, Graham Road, Ballard Estate, Bombay 1.

Larsen & Toubro Limited.—I.C. House, Dougall Road, Ballard Estate, Bombay 1.

Mazagon Dock Limited.—4, Ballard Road, Ballard Estate, Bombay 1
McKennies Ltd.—Sewri.

NATIONAL AIRCO PRIVATE LTD.—Below Mahalaxmi Bridge, Bombay 7. Phone: 78026. Grams: 'AIR COREF.' Sales & Service of Air-Conditioners & Water Coolers. Showroom: 43, Police Court Lane, Hornby Road, Bombay. Phone: 263706.

NATIONAL INDIA DEVELOPMENT CO. LTD.—Forjet Street, Bombay 36. Phone: 42469. Grams: 'VASUDEVACO.' Manufacturers of 'GLACIER' Water Coolers, Bottle Coolers, Deep Freezers & Refrigerators. Sole Selling Agents for 'ATLAS,' domestic Refrigerators for India.

Pandya & Company.—Jan Mansion, Sir P. M. Road, Fort, Bombay
Parekh & Modak.—M. Wadia Building, M. Gandhi Road, Bombay 1
Philips (India) Private Ltd.—221, D. Naoroji Road, Bombay 1.
Photophone Equipments (Private) Ltd.—9, Marine Lines, Bombay 1
Premier Automobiles Ltd.—Construction House, Ballard Estate Bombay 1.
Protos Engineering Co. Ltd.—173, Jamshedji Tata Road, Churchgate, Bombay.

RADIOCRAFTERS, THE.—Air Conditioning & Refrigeration Engineers, Laud Mansion, opp. Charni Road Station, 21-C-D, Queen's Road. Phone: 23008.

Refrigeration & Appliances Co. (Private) Ltd.—Pravin Court, 95, Queen's Road, Bombay 1.
S. S. Engineering Co.—Dhan-nur Bldg. Sir. P. M. Road, Bombay 1
Spencer & Co. Ltd.—Spencer's Building, Forjett Street, Bombay 36

STAR FREEZ INDUSTRIES.—95, Marine Drive, Parijat, Behind Marine Lines Station, Bombay 2. Phone: 241332. Refrigerators, Air-Conditioners & manufacturers of water coolers, Ice-cream machines, cold storage rooms etc.

V. KRISHNA & CO.—Evans Fraser Bldg., 40, Police Court Lane, Fort, Bombay 1. Phone: 261469.

VOLTAS LIMITED.—Ballard Estate, Bombay 1.
Vulcan Trading Co, Private Limited.—Indian Mercantile Chambers, Nicol Road, Ballard Estate, Bombay 1.

AIRCRAFT, AIRCRAFT PARTS & ACCESSORIES

Indamer Company Ltd.—Hanger 1, Near Aerodrome Office, Juhu, Bombay 23.

National Helicopters Private Ltd.—Cambata Building, 42, Queen's Road, Bombay 1.

TECALEMIT (INDIA) LTD.—Managing Agents: Heatly & Gresham Ltd., 9, Forbes Street, Fort, Bombay. Phones: 255756 & 255757. Grams: "TECALEMIT," Lubrication, Refuelling, Metering Equipment and Air Compressors.

ALUMINIUM WARES

PITAMBERDAS LALLUBHAI & CO.—98, Kansara Chawl, Kalbadevi Road, Bombay 2. Phone: Office 20916; Resi. 75261; Grams: 'KATORIWALA.' Manufacturers of all Non-Ferrous metalwares.

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Amritlal Girdharlal & Co.—71, Kansara Chawl, Bombay 2.
Crown Aluminium Works.—26, Parel Tank Road, Bombay 1

DECCAN ALUMINIUM STORES.—86, 1st Bhoiwada, Bombay 2. Phone: 30042. Grams: "DECCALUMIN." Exporters and manufacturers of Non-Ferrous Export items and Industrial Equipments.

Dun Aluminium Factory.—225-229, Tardeo Road, Bombay.
Indian Aluminium Ltd.—Lotus House, Marine Lines, Bombay -
Indian Standard Metal Co., Ltd.—Chinchpokli Cross Ln. Bombay 27.
Kothar Basmal Works.—888, Arthur Road, North Lamington Road.

LALLUBHAI AMICHAND PRIVATE LTD.—Proprietors: "Dun Aluminium Factory," 225-227, Tardeo Road, Bombay 7. Mfgrs. of all Non-Ferrous Metal Wares and Articles. Phone Nos. 41618 & 73289. Grams: "CYCLEBRAND."

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Sanghvi & Sons.—80, Kansara Chawl, Kalbadevi Road, Bombay 2.

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ITALAB PRIVATE LTD.—Assayers, Samplers, Surveyors, Geologists, Consultants and Public Analysts. Head Office: 15, Cawasji Patel Street, Bombay 1. Phones: 25-3882 83. "ITALABO." Chain of Laboratories at: Calcutta, Madras, Nagpur, Visakhapatnam, Ahmedabad, Kandla and Goa.

J. PARIKH & CO.—191, Samuel Street, Bombay 9. Phone: 76374. Specialists in Analysis of Vegetable Oils, Oil Seeds, Oil Cakes and Fatty Foods.

THERAPEUTICS CHEMICAL RESEARCH CORPORATION.—Analysers and Samplers, 95, Moreland Road, Bycalla, Bombay 8. Phone: 74631. Grams: "THERASERCH." Chain of Laboratories. Research, Biochemical, Bacteriological, Pharmacological, Analytical and Standardisation—Foods, Drugs & Chemicals etc. Oils, Ores & Minerals etc. Branches: Calcutta, Nagpur, Madras, Kakinada, Masulipatnam, Visakhapatnam, Bhavnagar, Kandla & Redi Port.

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Ahmed Gaya & Co., Ltd.—People's Building, Sir Phirozshah Mehta Road.

Architectural Studio.—Prospect Chambers Annexe, Hornby Road, Fort.

Bhedwar & Bhedwar.—Cook's Building, Hornby Road, Fort.

Bilaney, M. M., B.Sc. (Engr.) (Lond.).—Medows House, 89, Medows Street, Fort.

CHINOY, BUCHIA & DIVECHA.—Chartered Architects, etc., 11, Bruce Street, Fort, Bombay.

Dalal & Mehta.—41, Medows Street, Fort.

Darukhanawalla, J. M., B.Sc. (Edin.).—Prospect Chambers, 317-21, Hornby Road, Fort.

Desai and Kirtikar.—Laxmi Bldg., Sir Phirozshah Mehta Road, Fort, Bombay. Tel. No. 30188.

Dhondy, K. A., & Co.—Yusuf Building, 49, Churchgate Street, Fort.

Dhunjishaw Bhedwar & Co.—Behramji Mansion, Sir Phirozshah Mehta Road, Fort.

Ditchburn & Mistri & Bhedwar.—49-51, Jehangir Wadia Building, Mahatma Gandhi Road, Fort.

DOCTOR, B. E., F.I.I.A., F.R.I.B.A., M.R.S.H.—Chartered Architect, "Dhanmur," Sir Phirozshah Mehta Road, Fort, Bombay 1 and "BEN NEVIS," Warden Road, Bombay 26.

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Estates Valuation & Engineering Co.—20, Old Custom House Road, Fort.

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Gregson, Batley & King.—Chartered Bank Building, Mahatma Gandhi Road, Fort.

Havaldar, K. G., & Co.—Kamer Building, 106, Cowasji Patel Street, Fort.

Hormasji Ardeshir, F.I.I.A., M.I.E. (Ind.), L.C.E.—22-D, Parsi Bazar Street, Fort.

Iyengar & Co.—Co-operative Insurance Building, Sir Phirozshah Mehta Road, Fort

Jamnadas & Bhide.—Architects, Engineers & Surveyors, 134, Medows Street, Fort.

Kapadia & Barla.—Ballard House, Jam-e-Jamshed Office, Mangalore Street, Fort.

Karandikar & Co.—Cama Building, 24-28, Dalal Street, Fort.

Karim Noorani & Co.—Mustafa Bldg., Sir Phirozshah Mehta Road, Fort.

Kora & Bhatt.—22, Apollo Street, Fort.

Master, Sathe & Bhuta —34-38, Hummum Street.

Merchant V. H. & Co. —54 3rd Bhoiwada, Bhuleshwar, Bombay 2.

Merwanjee Bana & Co.—Cama House, No. 24, Dalal Street, Fort.

Metcalfe & Hodgkinson.—Mackinnon Mackenzie's Building, Ballard Road.

MHATRE, PATIL & CO., B.—Bombay Mutual Building, Corner of Dr. Dadabhoy Naoroji Road and Sir Phirozshah Mehta Road, Fort. Phone: 263570.

Modi & Co., V. M.—Jan Mansion, Sir Phirozshah Mehta Road, Fort, Bombay.

Motilal & Co.—2-4, Apollo Street, Fort.

Mulvaney & Co., John L.—Bombay Mutual Building, Hornby Road, Fort.

Nemchand C. Kuvadia, B.E., A.M.I.E.—People's Building, Top Floor, Sir Phirozshah Mehta Road, Fort, Bombay.

Nadkarni & Co.—Ash Lane, Fort, Bombay 1. Architects, Engineers and Surveyors. Phone: 22764.

Pandit Bros.—Shivlal Motilal Mansion, Hamam Street, Fort.

Parsikar & Dallas.—Chartered Architects, Medows House, Medows Street, Fort.

Pastakia & Billimoria.—42, Lakshmi Building, Sir Phirozshah Mehta Road, Fort.

Patki & Dadarkar.—Chartered Architects, 19, Sir Phirozshah Mehta Road, Fort.

POONAGER, BILIMORIA & CO.—Architects, Civil Engineers, Surveyors, Appraisers and Adjusters for Insurance Companies, Rating Surveyors & Valuers. Cama Building, 24-26, Dalal Street, Fort. Phone No. 263625.

Rustom H. Pastakia, F.R.I.B.A.—42, Laxmi Building, Sir Phirozshah Mehta Road, Fort.

Sane & Paymaster.—Prospect Chambers Annexe, Hornby Road, Fort. Phone: 31967.

Shapoorjee N. Chandabhoy & Co.—Advani Chambers, Sir Phirozshah Mehta Road, Fort.

Simon & Co.—Commissariat Building, 231, Hornby Road, Fort.

Sykes, Patkar & Divecha.—24-26, Dalal Street, Fort.

Taraporvala & Co.—7-10, Elphinstone Circle, Fort.

Thacker & Co., C. R.—Advani Chambers, Sir Phirozshah Mehta Road, Fort.

ARMS AND AMMUNITION

Abdoolally Noorbhoy.—248-252, Abdul Rehman Street.

Bombay Armoury.—329-31, Abdul Rehman Street, Bombay 3.

Hassanand Hemandas & Co.—Sitaram Building, 27, Hornby Road.

Imperial Chemical Industries (India), Private Ltd.—Ballard Estate, Bombay.

INDIA ARMS (PRIVATE) LIMITED.—331, Abdul Rehman Street, Bombay 3. Phone: 32119. Grams: "FIREARMS."

MAHOMEDALLY NOORBHOY, (Estd. 1888).—246, Abdul Rehman Street, Bombay 3. Phone: 22696. Grams: "SHOOTER."

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Saleh, M., & Co.—337, Abdul Rehman Street.
Tahir Arms Stores.—338, Abdul Rehman Street, Bombay 3.

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Anil Trading Co.—32, Princess Street, Bombay 2.
Aromatic Products & Chemicals Ltd.—Prospect Chambers Annexe, D. Naoroji Rd., Fort.
B. C. Patel & Co.—Devkaran Building, Princess Street, Bombay 2.

DAVAR, M. C., & CO.—143, Princess Street, Bombay 2. Aromatic Chemicals, Essential Oils and Perfumery materials. Agents for:—Esrolko Ltd., (Flora) Switzerland.
D. D. Shah & Co.—Anees Chamber Annexe, Carnac Road, Bombay 1.

GENERAL IMPORT CO. (INDIA).—Keshav Baugh Building, 102, Princess Street, Bombay 2. Phone: 38497. Grams: 'SODALEMON.' Aromatic Chemicals, Essential Oils, Aerated water requisites, Essences.
Kapadia & Co.—19, Sir Phirozshah Mehta Road, Fort, Bombay.
Manek Chemical Company.—Bhadaran Nagar, Ghodbunder Road, Malad, Bombay. Cable Address: "AROMAMALAD." Importers and Stockists of Essential Oils and Aromatic Chemicals.
Pravin Brothers & Co.—37, Bora Bazar Street, Bombay 1.

RADHAKISHAN RAJARAM & CO.—143, Princess Street, Bombay 2. Phone: 30094. Grams: 'NERODOUR.'
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S. H. KELKAR & CO. PRIVATE LTD.—36, Mangaldas Road, Bombay 2. Phone: 29130. Grams: "SACHEWORKS," Dadar, Bombay. Manufacturers of Essential oils, Aromatic Chemicals and "COBRA" brand perfumes.

SIKRI BROTHERS.—79-E, Princess Street, Bombay No. 2. Phone No. 33494. Grams: "OILMAN."

ARTIFICIAL FLOWERS MANUFACTURERS

TECKCHAND & SONS.—(Beutocrafts) 113, Dhanji Street, Near Zaveri Bazar, Bombay 3. Phone: C o 29249. Manufacturers of Beuto Nylon—Velvet—Plastic Art Flowers, Venies & Eartops.

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Arvinda Bros.—165, Vithalbhai Patel Road, Bombay 4.
Beardsell, W. A., & Co. Private Ltd.—15-16, Sir Phirozshah Mehta Road, Fort.
C. P. Doshi & Co.—Bombay Mutual Building, Hornby Road, Fort.
Girdharlal, Bhavani Prasad.—Jai Hind Building No. 1, Bhuleshwar, Bombay 2.
Hazarat & Co.—Warden House, Sir Phirozshah Mehta Road, Fort.
Hoosein, M. A., & Bros.—Lakshmi Building, Sir Phirozshah Mehta Road, Fort.
Kapurchand Private Limited.—Roxy Chambers, New Queen's Road, Bombay 4. Phone: 27196. Grams: "KAPURFILMS." Kapuryarn Distributors and Exhibitors of Indian Motion Pictures. Dealers in Art Silk Yarns.
Ramkisandas Sagarmal.—Kalyan Bhuvan, 354, Kalbadevi Road.
Ratilal Dayabhai Shah.—Tambakanta, Pydhownie.
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ASBESTOS PRODUCTS

"Abco"—30, Sarang Street, Bombay 3. Phone: 39032.

ABDEALLY, B. M., & Co.—127, Sarang Street, Bombay 3. Phone: 29990. Grams: 'ALERTDEAL'.

AMIRUDDIN SHALEBHOY TYEBJEE & SONS.—Shale Building, 2nd Floor, Bank Street, Fort, Bombay 1.
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Bharat Engineering Stores.—113, Nagdevi Street, Bombay 3.
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CHUNILAL KHANNA & CO.—Saraswati Niwas, Thakurdwar Road, Bombay 2. Phone: 23513. Grams: 'BABALALU'.

DATSON RAVIRAJ & CO.—43, Tamarind Lane, Fort. Phone: 254433. Grams: "DATNARE."
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New Hind Engineering Co.—63, Nagdevi Cross Lane, Bombay 3.
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R. MOHANLAL & CO.—38, Bibijan Street, Bombay 3. Phone. 30929. Grams: 'HANDTAPS.' Speciality: All kinds of Asbestos Packings, Jointings, Leather & Rubber Beltings and allied accessories.
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Desai & Co.—70, Medows Street, Fort.
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Gagrat & Co.—Alli Chambers, Medows Street, Fort.

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Hasan Baxi & Co.—Laigir Chambers, Tamarind Lane, Fort.
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Lala & Co.—Ismail Building, Hornby Road, Fort.
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Madhavji & Co.—Examiner Press Building, 35, Dalal Street, Fort.
Mahimtura & Co.—66, Tamarind Lane, Fort.
Mahomed Ali & Co.—15, Military Square Lane, Fort.
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Pathare & Liladhar.—38, Tamarind Lane, Fort,
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Ranchhoddas & Co.—Examiner Press Building, Medows Street, Fort.
R. H. Dadyburjor.—Rustom Building, 29, Churchgate Street, Fort.
Rege, D. N., & Co —Yusuf Building, Mahatma Gandhi Road, Fort.
Remer Dadachanji Sethna & Co.—1st Floor, Raja Bahadur Motilal Bansilal Mansion, 14K, Hamam Street, Fort. Solicitors and Notaries Public.
Rustomji & Ginwalla.—Old French Bank, Mahatma Gandhi Road, Fort.
Sabnis, Goregaoker & Rele.—11, Bruce Street, Fort.
Samant & Co.—381, Hornby Road, Fort.
Shah & Chinubhai.—Ebrahim Building, 96, Medows Street, Bell Lane, Fort.
Shah & Mehta.—7, 2nd Carpenter Street, Bombay 4.
Shah & Co.—Yusuf Building, Mahatma Gandhi Road, Fort.
Shastri & Co.—77, Medows Street, Fort.
Shroff & Co.—376, Hornby Road, Fort.
Smetham, Byrne & Lambert.—Jehangir Wadia Building, 51, Mahatma Gandhi Road, Fort.
Solomon & Co.—Spinner Building, Tamarind Lane, Fort.
Sukthanker & Gupte.—Yusuf Building, 35-43, Mahatma Gandhi Road, Fort.
Surajmal & Co.—Mahendra Mansions, Mahatma Gandhi Road, Fort.
Surveyor & Co.—Central Bank Building, Mahatma Gandhi Road, Fort.
Talcr & Co.—Solicitors, Examiner Press Building, 2nd Floor, 35, Dalal Street, Fort.
Thakordas, Daru, Hemany & Co.—Alli Chambers, Tamarind Lane, Fort.
Thatte & Co.—Examiner Press Building, 35, Medows Street, Fort.
Tyabji, Dayabhai & Co.—Lentin Chambers, Dalal Street, Fort.
Vachha & Co.—Yusuf Building, Mahatma Gandhi Road, Fort.
Vakil, B. H., & Co.—Karim Chambers, Hamam Street, Fort.
Vakil, Dadabhoy & Bharucha.—Cama Building, 24-26, Dalal Street, Fort.
Vrajlal & Co.—41, Medows Street, Fort.
Wadia, Ghandy & Co.—123, Mahatma Gandhi Road, Fort.
Wallace, J. P., & Co.—Shale Building, 28-32, Bank Street, Fort.
Win & Co.—Bansilal Mansions, 41A, Bruce Street, Fort.
Zaiwalla & Co.—Readymoney Mansion, 43, Churchgate Street, Fort.

AUCTIONEERS

Bennett & Co.—120, Apollo Street, Fort.
Crawford & Co.—122, Apollo Street, Fort.
Eastern Auction & Co.—Babulal Mansion, Chowpatty Sea Face, Bombay 7.
GANDHI & CO.—72, Medows Street, Fort.
GILBERT-LODGE & CO.—Elphinstone Building, Veer Nariman Street, Fort. Phones: 251819 & 252607.
Menesse & Co.—Great Western Building, 3, Apollo Street.
Mistry & Co.—75, Apollo Street, Fort.
Mody, J. S., & Co.—Raja Bahadur Shivlal Motilal Mansion, 20, Hamam Street, Fort.
Sorabjee Cowasjee & Co.—123, Medows Street, Fort.

AUTOMATIC CONTROLS & RECORDING INSTRUMENTS

Batliboi & Co.—Engineers & Machinery Importers. Head Office: Forbes Street, Fort, Bombay. Phone No. 255451-55. Grams: "BATLIBOI". Branches: Madras, Calcutta, Delhi, Ahmedabad, Kanpur, Coimbatore, and Vijayvada. Associates: Bangalore and Secunderabad.

AUTOMOBILE ENGINEERS

Autocars Ltd.—43, New Queen's Road, Bombay 4.
Automobile & Agricultural Industries Corporation.—497/3, Banji Nivas, Sardar V. Patel Road, Bombay 4.
AUTOMOTIVE HARDWARE CORPORATION.—93, Narayan Dhuru Street, Bombay 3. Phone: 27507. Grams: 'NUTS-AUTO.' Hightensile, boltnuts, SAE & BSF self tapping screws, hardware & tools.
Automotive Mfgrs. Ltd.—108, Bazar Ward, Kurla, Bombay 37.
BOMBAY CYCLE & MOTOR AGENCY LTD.—Service Stations, Tardeo Road, Tardeo, Bombay 7. Phones: 73411-2 and J. Tata Road, Churchgate, Bombay 1. Phone: 37174 S. Authorised Repairers of Dodge Cars & Trucks, Chrysler and Fiat cars.
Bombay Garage Ltd.—Meher Building, Chowpatty, Bombay 7
Car Mart Ltd.—Pratt's Building, Hughes Road.
French Motor Car Co. Ltd.—9-11, Hughes Road, Bombay.
International Motor Co.—Sandhurst Bridge.
Karfule Ltd.—25, Sprott Road, Ballard Estate, Bombay
Lucas Indian Service Ltd.—15, New Queen's Road, Bombay 14.
Metro Motors.—The Motor House, Hughes Road, Bombay.
MOTOR HOUSE LTD.—Estd. 1927, KAISER-FRAZER: REO & BRADFORD: AUTOMOBILE DIVISION—Admn. Offices, Show-Rooms & Service Station: "House of Mehta," Hughes Road, Bombay 7. P.B. No. 6546, Bombay 26. Cables: "MOTORHOUSE," Bombay. Telephone Nos. 77435, 77436; Branches: Bombay (Fort), Nagpur, Poona, Hubli, Ahmedabad, New Delhi, Jaipur, Chandigarh, Simla, Patiala, Ludhiana, Jullundur, Amritsar, Bhopal, Gwalior, Indore. Pioneers of Automobile Assembly in India: Assemblers of Kaiser-Frazer Motor cars, Reo and Bradford Commercial Vehicles; Mfrs. of custom automobile bodies; Mfg. Plant and warehouses: 18, Rifle Range, Ghatkopar, Bombay 39. Phone: 67441.
National Garage Private Ltd., The—Warden Road, Bombay 26
PREMIER AUTO ELECTRIC PRIVATE LTD.—69, Tardeo, Bombay 7. Phone: 70101. Grams: "PREAULEC." Specialists for repairs to everything Electrical on your Car. Central Service Station and Distributors in India for Auto-Lite, Marelli, GE and Prakash automobile products. Branches at Calcutta and Madras.
Premier Automobiles Ltd.—H.O. Construction House, Ballard Estate. Factory:—Agra Road, Bombay 37.
Royal Auto Works.—Tanker Villa Estate, 200, Gowalia Tank Road, Bombay 26.
Sam Ruston & Company.—31-33, Mangalore Street, Ballard Estate.
Sir Kasturchand Private Ltd.—Kodak House, Hornby Road, Fort, Bombay
Shanghi Motors (Bombay) Ltd.—9, Mathews Road, Bombay 4.
United Motors (India) Ltd.—Hughes Road, Bombay.

AUTOMOBILE PARTS AND ACCESSORIES

Allied Automobiles.—Laxmi Building, Sandhurst Road, Bombay 4.

Allied Exporters.—Kumud House, 267, Dr. Dadabhoy Naoroji Road, Fort, Bombay.

AMERICAN AUTOMOBILE CO.—Purshottam Bldg., Opera House, Bombay 4. Phone : 30106. Grams : 'AUTORIGHT.'

AMERICAN AUTO PARTS CO.—Sandhurst Road T.T., Lamington Road (South), Bombay 4. Phone : 41323. Grams : "AUTOGOODS." Spot Lamps, Fancy Mirrors, Sun-Visors and other useful Extras.

Asiatic Automobiles.—1, New Bhatwadi Street, Sandhurst Road, Bombay 4.

Associated Auto Parts Ltd.—445, Lamington Road, Bombay 4.

ATLAS TRADING CO.—Nair Bldg., 431, Lamington Road, Bombay 4. Grams : "DEALWELL." Automobile Specialists & Importers. Proprietor : Gopallal C. Kothari, B.A., B.Sc., Ex Gen. Manager, Chimanlal Desai & Co.

Auto Agency.—Congress House, Vithalbhai Patel Road, Bombay 4.

Auto Equipment Ltd.—68-C, Bansilal Motilal Building, Opera House Tram Terminus, Bombay 4.

AUTOMOTIVE CORPORATION (INDIA).—431, Lamington Road, Bombay 4. Grams : 'RITESET.'

AUTOMOBILE INDUSTRIAL CORPORATION.—Modi Chambers, French Bridge, Bombay 4. Grams : "EXOIL."

AUTO SALES COMPANY.—Purshottam Bldg., Opera House, Bombay 4. Phone : 27735. Grams : 'AUTOSALES.'

Babs Engineers.—Babs Corner, 24, Gunbow Street, Fort, Bombay 1.

BALDEV, K. R. & CO.—Nair Bldg., 431, Lamington Road, Bombay 4. Phone : 70292. Grams : 'BALSTORES.'

BOMBAY CYCLE & MOTOR AGENCY LTD.—834, Sandhurst Bridge, Bombay 7. Dealers for Motor Parts and Accessories for Dodge Cars and Trucks and Chrysler Cars. Dealers for Fiat Car Parts and Accessories.

Bombay Garage Private Ltd.—Meher Bldg., Chowpatty, Bombay 7.

Bombay Motor House.—479, Banji Nivas, Sandhurst Road, Bombay 4. Phone : 71937. Grams : "Autoprince".

Bombay Motor Trading Co.—Cutch Castle, near Opera House, Bombay 4.

CENTRAL AUTOMOBILES PRIVATE LTD.—Laxmi Bhuvan, Sandhurst Road, Bombay 4. Phone : 72866. Grams : "CENTALAUTO." Direct Importers of Automobile Accessories.

Central India Trading Company.—Ramchandra Mansion, Bhatwadi Street, Sandhurst Road, Bombay 4.

CHAMPION AUTO PARTS CO.—Avantikabai Gokale Road, Bombay 4. Phone : 30622. Grams : "CHAMPAUTO."

Chandulal Mehta & Co. Private Ltd.—New Queen's Road, Bombay 4. Phone : 22191. Grams : "KOMOILS".

CHEAP MOTOR STORES.—Stockists of Genuine 'Ford' Parts and other Automobile Accessories, Opera House Tram Terminus, Bombay 4. Phone : 30675. Grams : 'CHEAPMOTOR'.

Chimanlal Desai & Co.—Gool Mansion, Homji Street, Fort.

CITY MOTOR COMPANY, THE.—Modi Chambers, French Bridge, Bombay 4. Grams : "KADAMCHALO."

Commercial Auto Store.—Mani Bhuvan, French Bridge, Bombay 7.

Continental Automobiles Ltd.—Luxmi Bhuvan, 466, Sandhurst Road, Bombay 4. Phone : 72866. Grams : "CONAUTO."

Conwest Ltd.—Opera House, Bombay 4.

C. RAMON & CO.—181, Princess Street, Bombay 2. Phone : 28339. Grams : "INDENTMAN." Importers of disposal motor parts, dealers in Dodge, Ford and Chevrolet Parts & Accessories.

Dadajee Dhackjee & Co. Private Ltd. (Motor Dept.)—Shree Pant Bhuvan, Sandhurst Bridge, Bombay.

D. Walker & Sons.—Prospect House, New Bhatwadi, Sandhurst Road, Bombay 4.

Eastern Motor Corporation.—Indra Nivas, Bhatwadi Road, Bombay 4.

EVERGREEN TRADERS, THE.—2-B, Bibijan Street, Bombay 3. Grams : "GREENTRADE." Phone : 27856. Importers of Everything in automobiles & garage equipment.

Fleming John & Co., Private Ltd.—P. B. No. 76, Bombay 1. Phone : 261153.

Foreign Products Distributing Co.—491, Sandhurst Road, Bombay 4.

Hind Equipment Corporation Private Ltd.—24/B, Hamam Street, Fort, Bombay.

H. S. Chaddha & Sons.—483, Sandhurst Road, Bombay 4.

Himco (India) Private Ltd.—Kuria Road, Andheri, Bombay 41.

INDIA ELECTRIC WORKS LTD.—6, Sir Phirozshah Mehta Road, Fort, Bombay. Phone : 34236. Grams : "MENUFACTER." Selling Agents for "PRADIP" Auto Lamps.

International Motor Co.—Sandhurst Bridge.

J. C. VORA & CO.—Modi Chambers, French Bridge, Bombay 4. Phone : 72575. Grams : 'GODIAALL'. Specialists : Au Bolts & Nuts.

Jay Kay Automobiles.—19, Mohanlal Mehta Market, Grant Road, Bombay.

J. V. Mehta & Co.—Automobile and Radio Specialists, Opera House Tram Terminus, Lamington Road, Bombay 4.

Kandawalla & Co.—13, Hughes Road, Bombay 7.

K. L. ANAND & SONS.—484, S. Valabhbhai Patel Road, Bombay 4. Phone : 70083. Grams : "AUTOANAND". Specialists fo Austin and Hillman, Hindustan and other car parts an latest car gadgets and novelties.

Katara Motor Co.—13-14, Modi Chambers, French Bridge, Bombay 4

KISMET AUTO STORES.—35-37, Laxmi Bldg., Kennedy Bridge Bombay 4.

Kothari Brothers & Co.—Prospect House, Sandhurst Road, New Bhatwadi, Bombay 4.

MAHARASHTRA AUTOMOBILES.—Desai Building, Mugbhr Lane, Bombay 4.

MEHTA MOTOR STORES.—497, Sardar Valabhbhai Pate Road, Bhanji Nivas, Bombay 4. Phone : 42456. Grams : "META MOTORS." Everything in Automobiles.

MODERN MOTORS.—1, Mody Chambers, Kennedy Bridge Bombay 4. Grams : "ENGPARTS." Specialists in "Englis car parts."

MOTOR HOUSE LTD.—Estd. 1927. Kaiser-Frazer, Reo & Bradford Parts Division : Admn. Offices, Show-Rooms & Service Station : "House of Mehta," Hughes Road, Bombay 7 P.B. No. 6546, Bombay 26. Cables : "MOTORHOUSE," Bombay. Tel. Nos. 77435, 77436. Branches : Bomba (Fort), Nagpur, Poona, Hubli, Ahmedabad, New Delhi Jaipur, Chandigarh, Simla, Patiala, Ludhiana, Jullundur Amritsar, Bhopal, Gwalior, Indore. Sole Importers & Exclu sive Distributors for India of genuine Kaiser-Frazer, Reo & Bradford Parts & Accessories ; Bombay Sales Depot "Krishna Bhuvan," 442-43, Sandhurst Road, Bombay 4.

MOTOR INDUSTRIES CO., LTD.—Manufacturers of Fue Injection Equipment and Spark Plugs and Stockists of Auto mobile Parts and Accessories, 41, Queen's Road, Bombay 2 Phone : 39065. Grams : "ELEMENT." Bombay Manager Mr. P. C. Sekharan. Head Office : Post Box No. 93, Bangalore.

National Automobile Co., Ltd.—Opera House Tram Terminus, Bombay 4.

NEW EASTERN TRADERS (INDIA) PRIVATE LTD.—16, Avantikabai Gokhale Street, Bombay 4. Phone : 22374 Grams : "ROADLINES."

NEW HAVEN STEEL BALL CORPORATION PRIVATE LTD Manjee Building, 17-B, Horniman Circle, Bombay 1. Phone : 258346. Grams : "GULDASTA." Manufacturers of automobile parts, bicycle parts, sockets, head cap screws, bolts, nuts, steel balls, etc.

Nishat Trading Co.—461, Sandhurst Road, Bombay 4.

Osler, F. & C., Ltd.—New Queen's Road, Bombay 4.

PALS IMPEX CORPORATION.—431, Lamington Road, Bombay 4. Grams : "PALSEXPORT." Importers & Exporters o Auto parts & accessories.

Paramount Automobiles Ltd.—14, New Bhatwadi Lane, Sandhurst Road, Bombay 4.

Paramount (India) Ltd.—Kermani Building, Sir Phirozshah Mehta Road, Fort.

PIONEER TRADERS & BALL BEARING CO.—154, Kadakia Mansion, Narayan Dhurs Street, Bombay 3.

PIYUSH AUTOMOBILES.—Cutch Castle, 819, Sandhurst Road, Bombay 4. Phone : 71876. Grams : "PIYUSHAUTO." Direct importers of International Truck parts & Norton Motor Cycles.

POPULAR AUTOMOBILES.—Modi Chambers, French Bridge, Bombay 4. Phone : 42642. Grams : "KERALOBILE." Direct Importers of Automobile Spares & Accessories.

PREMIER AUTO ELECTRIC PRIVATE LTD.—69, Tardeo Road, Bombay 1. Phone : 70161. Grams : "PREAULEC." Central Service Station and Distributors in India for AUTO-LITE and Marelli Electrical Service Parts, GE Sealed Beams and Prakash Spark Plugs and Batteries. Branches at : Calcutta and Madras.

Premier Automobiles Ltd.—Agra Road, Kurla, Bombay 37.

Provincial Motor Car Co., Ltd.—Opp. Opera House, New Queen's Road, Bombay 4.

Rane Limited.—New Queen's Road, Bombay.

Regal Motors.—Old Victoria Mills Compound, Gamdevi, Bombay 7.

Reliance Automobiles.—Mani Mansion, 475, Sandhurst Road, Bombay 4.

SABHARWAL BROTHERS.—484, Sandhurst Road, Bombay 4. Grams: "JEEPKING." Head Office: 992, Hamilton Road, Delhi 6. Branch: 21, Princep Street, Calcutta 13. Specialists in Jeep Parts. Stockist for car parts & accessories.

Sethi Trading Co.—New Bhatwadi, Sandhurst Road, Bombay 4.
Shah & Sunder.—7/10, Horniman Circle, Botawala Building, Bombay 1.

SHETTY AUTOMOBILES.—Opera House Tram Terminus, Bombay 4. Direct Importers and Stockists of Motor Parts, Accessories, etc. Phone: 27412. Grams: "BIPISHETTY."

SKF Ball Bearing Co. Private Ltd.—Mustafa Building, 19, Sir Phiroz-shah Mehta Road, Fort, P.O. Box No. 71, Bombay.

We Stock Imported

PERKINS DIESEL

ENGINES & SPARES

STANDARD GARAGE

BOMBAY-4

Cables: "ACCESORIES". Phone: 40073

S. S. Prabhu.—Ghamat Terrace, opp. Dadar W. Rly. Station, Bombay 14.

SUPREME AUTOMOBILES.—Modi Chambers, French Bridge, Bombay 4. Grams: "LOCKHEED."

Tata Locomotive & Engineering Co. Ltd.—Bombay House, 24, Bruce Street, Fort, Bombay.

TECALEMIT (INDIA) LTD.—Managing Agents: Heatly & Gresham Ltd., 9, Forbes Street, Fort, Bombay. Phones: 255756 255787. Grams: "TECALEMIT." Grease Nipples and Guns, Filters, Elements, Metal Flexibles, etc.

United Industries of India.—82, Opera House Tram Terminus, Bombay 4.

UNITED OVERSEAS SERVICE PRIVATE LIMITED.—Mody Chambers, Sandhurst Bridge, Bombay 4. Grams: "ASSOCIES". Phone: 70913. Distributors of "Mico-Licence-Bosch" Spark Plugs, Perkins Parts, Berg & Beck Clutch Parts, Kralinator Oil Filters, etc. Also Parts for popular cars and trucks.

Universal Automobiles.—461, Sandhurst Road, Bombay 4.
Universal Service Corporation Ltd.—457-9, Sandhurst Road, Bombay 4.

UNIQUE AUTO STORES.—Mani Bhuwan, French Bridge, Bombay 7. Grams: 'AUTOUNIQ.'

AUTOMOBILE SPRING LEAVES, 'U' BOLTS & CENTRE BOLTS MFRS.

UNITED SPRING MANUFACTURING CO.—82, Opera House Tram Terminus, Bombay 4. Phone (Office): 27419. Grams: "MECSPARES." Factory at: 234, Ripon Road, Bombay 8. Phone: 76468.

BAKELITE

Central Bottle Trading Co.—Padamsi Annexe, Chakla Street, Bombay 3.
C. P. Doshi & Co.—Bombay Mutual Building, Horaby Road, Fort.
Embl Desai & Co.—Dadyseth House, Cawasji Patel Street, Fort, Post Box No. 1116, Bombay 1.
Hardcastle, Waud & Co., Ltd.—Alice Buildings, Horaby Road, Fort.
Rubako Industries.—Behramji Mansion, Sir Phiroshah Mehta Road, Fort.

VIJAY BAKELITE TRADING CO.—70/72, Chakla Street, Bombay 3. Grams: 'BESTCAP'. Manufacturers and distributors of all kinds of Bakelite Caps, Glass Bottles, Rubber Caps, Corks, Washers and all kinds of Rubber Stoppers.

BAKELITE MACHINERY MANUFACTURERS

MUNSHI & CO. PRIVATE LTD.—181-83, Bapu Khote Street, Pydhonie, Bombay 3. Phone: 73639. Grams: 'SPECIALDIE'.

BAKERS AND CONFECTIONERS

American Express Bakery.—A. E. B. House, Clare Road, Byculla.
Britannia Biscuit Co., Ltd.—Reay Road Bridge, East.
Clare Road Bakery.—"Win-Villa," 9, Clare Road, Byculla.
Hiscocks, E., & Co.—"Win-Villa," 9, Clare Road, Byculla.

HUNS DEWAN & CO.—P.B. No. 4518, 158, Upper Duncan Road Byculla, Bombay 8. Phone No. 74139. Grams: "BISCUITS." High Class Biscuits Manufacturers.

Kyani & Co.—Jer Mahal Estate, Dhobi Talao.
Mahajan Bros.—Anand Nivas, Girgaum Road.
Marcos & Co.—18, Medows Street, Fort.
Mongini, Limited.—45-47, Churchgate Street, Fort.
Pahelavi Bakery.—101, Umerkhady.
Palmer, A., & Co.—C-123, Cumballa Hill.

PARLE PRODUCTS MFG. CO. (PRIVATE) LTD.—Thackersey House, Graham Road, Ballard Estate, Bombay. Phone: 263906. Grams: 'VIHARI.' Factory: Ville Parle, Bombay 24. Phone: 86403.

Pearse & Co.—Opp. Imperial Bank, Apollo Street, Fort.
Raj, H., & Company.—93, Princess Street, Bombay 2.
Renown Biscuit Co.—Contractor Building, Connaught Road, Byculla.
Shaikh & Co.—94, Ali Umar Street.
Standard Bakery.—62, Nizam Street, Bhendi Bazar, Bombay 3.
Star Bakery.—180, Naigaum Cross Road, Dadar.

VICTORIA BAKERY.—155, Modi Street, Fort, Bombay 1. Bread, Biscuits and Cakes manufacturers.

BALL AND ROLLER BEARINGS

"Abco."—30, Sarang Street, Bombay 3. Phone: 39032.

ANIL BEARING STORES.—163, Narayan Dhuru Street, Bombay 3. Tel. Address: "CHEAPSTORE." Authorized Stockist: SKF Bearings, Ball Bearings, Taper Roller Bearings, Steel Balls.

ASSOCIATED BEARING CORPORATION.—163, Narayan Dhuru Street, Bombay 3. Grams: "VIAMEDIA." Direct Importers & Stockists of N.B.C., SKF & F.A.G. Ball & Roller and Taper Roller Bearings.

Associated Export-Import Corporation.—381, Dr. N. D. Road, Bombay 1.

Ball Bearings & Machinery Corporation.—172-74, Nagdevi Street, Bombay 3.

Batliboi & Co.—Engineers & Machinery Importers. Head Office: Forbes Street, Fort, Bombay. Phone No. 255451-55. Grams: "BATLIBOICO". Branches: Madras, Calcutta, Delhi, Ahmedabad, Kanpur, Coimbatore and Vijayvada. Associates: Bangalore and Secunderabad.

B. CHOWDHURY.—Indian Globe Chambers, Fort Street, Bombay 1. Phone: 26-3479. Grams: "BISUKHI." Sole Agents for Kugelfischer Georg Schafer & Co., West Germany.

BHARAT TRADING CO.—71, Nagdevi Cross Lane, Bombay 3. Grams: "FANBEARING." Phone: 29250.

BOMBAY BALL BEARING SUPPLYING CO., 361, Samuel Street, Bombay 3. Phone: 20051. Grams: "GOLABADAM."

DHIRAJLAL & CO.—15, New Queen's Road, Bombay 4. Phone No. 27012. Grams: "RICEMILL." Importers and Distributors of Ball and Roller bearings, Stockholders of F.A.G. and SKF bearings and Distributors of British TIMKEN bearings.

DHIRAJLAL MORARJI.—37-A, Sarang Street (Khoka Bazar), Bombay 3. Phone: 29231. Grams: "SELFMADE." Direct Importers & Stockists of STEYR, RIV, and Russian Ball & Roller Bearings.

Diwan Bros.—51, Nagdevi Street, Bombay 3.

Great Western Engineering Work.—"Sea View," 1st Pasta Lane, Colaba, Bombay 5.
Greentoe Corporation (India).—24-26, Dalal Street, Fort, Bombay.
Heatly and Gresham Ltd.—9, Forbes Street, Fort.

INDO-AUTO TRADERS.—524, Sandhurst Road, Bombay 4. Phone: 76145. Grams: "TAKEITEASY." Ball, Roller & Tapered roller bearings for all types of Cars, Trucks & Tractors.

JAWARMAL GULABCHAND.—Meher House, 15, Cowasji Patel Street, Fort, Bombay 1. Phones: 253024, 252360 and 253734. P.O. Box No. 1883. Grams: "MANEKGANGA." Ball bearing and Machinery Merchants and Mfgrs. of J. G. Baby Oil Expellers.

JAYANT BROTHERS.—203-206, Jhaveri Bazar, Bombay 2. Grams: "JAYANTBROS." Importers & Stockists of "STEYR", U.S.S.R., F.A.G. and other well known brands of Ball, Roller & Thrust Bearings.

Jayant Engineering & Mill Stores, 39, Nagdevi Cross Lane, Bombay 3.

Jhala, R. T., & Co.—9, Forbes Street, Fort, Bombay 1.

J. KHUSHALDAS & CO.—77-79, Nagdevi Street, P.O. Box No. 3235, Bombay 3. Phone : 38812. Grams : "JEKHUSHAL".

KAMLASHANKAR P. JOSHI & CO.—72 80, Nagdevi Cross Lane, Bombay 3. Phone : 22437. Grams : "KEPIJOSHI." Branch : Opp. Shivaji Statue, Shivajinagar, Poona 5. Manufacturers of ball, roller, tapered roller bearings, steel balls and needle rollers.

MACHINE TOOLS & IMPLEMENTS.—93-95, Narayan Dhuru Street, Bombay 3. Phones : Office : 22868, Residence : 24-2425. Grams : "MACHTOOLS."

MASRANI MILL GIN STORES.—46, Nagdevi Cross Lane, Bombay 3. Phone : 20646. Grams : "BEARINGS." Direct importers and stockists of Ball, Roller, Thrust and Pedestal Bearings.

Mehta, J. V., & Co.—Opera House Tram Terminus, Bombay 4.

Motor Trade Supply Co.—Parikh Mansion, Sandhurst Road, Bombay 4.

NATIONAL BEARING CO., LTD.—26, Calicut Street, Fort, Bombay 1. Head Office and Works : Jaipur (Rajasthan). Calcutta Office : Indian Exchange Building, Royal Exchange Place Extension. Manufacturers of Ball and Roller Bearings, Railway Axle Boxes and Steel Balls in India under Licence from Messrs. Hoffmann Manufacturing Co., Ltd., U.K. and Sole Distributors in India for Hoffmann Ball and Roller Bearings.

NEW HAVEN STEEL BALL CORPORATION PRIVATE LTD.—Nanjee Building, 17-B, Horniman Circle, Bombay 1. Phone : 255346. Grams : "GULDASTA." Manufacturers of automobile parts, bicycle parts, sockets, head cap screws, bolts, nuts, steel balls, etc.

New Hind Engineering Co.—63, Nagdevi Cross Lane, Bombay 2

PIONEER TRADERS & BALL BEARING CO.—154, Kadakia Mansion, 3rd Floor, Narayan Dhuru Street, Bombay 3. Grams : "MACHINESAW." Stockists of SKF, RIV, FAG, R & M, STEYR Ball and Roller Bearings.

PURUSHOTTAM SOMABHAI & CO.—44, Nagdevi Cross Lane, Bombay 3. Sales Depot : Lucky Mansion, 71-D, Mahomedaly Road, Bombay 3. Phone : 22252. Grams : "FORESIGHT." Importers & Stockists of 'STEYR' Brand world renowned ball & roller bearings and other quality brands also imported & stocked.

RAJKUMAR & CO.—157 159D, Narayan Dhuru Street, Bombay 3. Importers & Stockists of all kinds of Ball, Roller, Taper Roller and Thrust Bearings.

RAMANLAL H. SHAH & CO.—75, Abdul Rehman Street, Bombay 3. Phone : 39330. Grams : "SINGLEGIN."

RAMESH TRADING CORPORATION.—17, Nagdevi Street, Bombay 3. Phone : 39489. Grams : "RAMESHCO." Importers & Stockists of Ball bearings & Roller bearings. Suppliers of mill gin stores, hardware and tools and rubber beltings.

Rasiklal Shah & Co.—93, Narayan Dhuru Street, Bombay 3.

Roberts McLean & Co., Private Ltd.—Ilaco House, Sir Phirozshah Mehta Road, P. O. Box 452, Fort

SHAH BROTHERS.—Sandhurst Bridge, 524, Sandhurst Road, Bombay 4. Grams : "TAPEROLLER." Timken Tapered Roller Bearings.

Shah Engineering Stores.—[illegible], Nagdevi Cross Lane, Bombay 3.

SHETH STORES TRADING CO.—238, Masjid Bunder Road, Bombay 3. Grams : "TROLLEY." Authorised stockists of NBC, HOFFMAN, RIV, R & M Ball and Roller bearings. H. O. : Deepak Chambers, Station Road, Ahmedabad.

R. Mohanlal & Co.—38, Bibijan Street, Bombay 3.

Skf Ball Bearing Co. Private Ltd.—Mustafa Building, 19, Sir Phirozshah Mehta Road, Fort, P.O. Box No. 71, Bombay

Spence Ltd.—Gowalia Tank Road, Bombay 26.

Thakorlal & Co.—47, Nagdevi Cross Lane, Bombay 3.

Universal Services Corporation Ltd.—467/9, Sandhurst Road, Bombay 4.

Upper India Trading Co., Ltd.—Ravel Building, Lamington Road, Bombay 4.

BARRELS & CASKS (WOODEN)

COOPER & SONS, DHANJIBHAI NAOROJI.—76 80, Kika Street (Gulalwadi), Bombay 4. Phone : 41489. Manufacturers of Wooden Casks, Barrels, Vats, Tubs, Flower Tubs, Oblong Tubs, Ice Cream Tubs of any size & shape. Regular suppliers to Chemical & Textile mills.

BATTERIES

AMZEL PRIVATE LTD.—Love Lane, Byculla, Bombay 27 Manufacturers : Zelite Storage Batteries and Plates. (Sale and Service : Nusser House, New Queen's Road, Bombay 4)

Balmer Lawrie & Co. Ltd.—5, Graham Road, Ballard Estate, Fort

BATTERY SERVICE (PRIVATE) LTD.—Solar House, 1-1A New Queen's Road, Bombay (India). Phone : 36466. Cable Address : "FASTSPEED."

Bombay Garage Ltd.—Meher Building, Chowpatty, Bombay 7.

Bolner Battery Mfg. Co. Private Ltd.—Shri Niwas Building, Sandhurst Road, Bombay.

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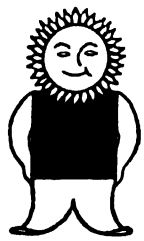
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Simpson, D. R., & Co.—Gamdevi Road, Grant Road, Bombay 7.

Swastik Rolling Shutters & Engineering Works.—Parel Station Road, Bombay 12. Phone: 62041. Grams: "SWASTIKROL".

Tejoo Kaya & Co.—Tejoo Kaya Park, Vincent Road, Matunga, Bombay 19.

Timber Wood Syndicate.—Ghodbunder Road, Andheri, Bombay. Phone: 86673.

United Construction Corporation.—Shrinivas House, 3rd Floor, Waudby Road, Fort.

Victoria Sanitary Stores.—3rd Bhowada, 54 Bhuleshwar, Bombay 2.

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Stanley Works.—The 44, Lakshmi Bldg., Sir Pherozshah Mehta Road, Bombay 1.

Swastik Rolling Shutters & Engineering Works.—Parel Station Road, Bombay 12.

THAKURDWAR BRASS WORKS.—Surya Mahal, Thakurdwar, Bombay 4. Phone: 22813. Grams: 'DOORLATCH.' Manufacturers of Brass, Bronze & Copper-oxd. fittings for Buildings. Furniture, Show-rooms, etc. Specialists in Bank Railings, Counters & Sliding & Folding door fittings.

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Arco Steels.—Prospect Chambers Annexe, Hornby Road, Fort.

Chandulal Narandas.—96, Kika Street, Bombay 4.

COLE, R. A., PRIVATE LTD.—22, Apollo Street, Bombay 1. (Post Bag 10076). Phones: 251517 8. Grams: "DERAC". Manufacturers of Thermocole Building Boards and Acoustical Tiles.

Heatly and Gresham Ltd.—9, Forbes Street, Fort, Bombay.

I.C.I. (India) Private Ltd.—P. B. No. 310, Bombay 1.

Kanakia Corporation.—163, Nagdevi Cross Lane, Bombay 3.
Mahomed Jammahomed.—68, Pydhoni Road, Khadak, Bombay 9. Phone : 70663 Scaffolding Materials as Bamboos, Ballies, Folding Ladders, Wooden Planks, etc. can be had on hire and sale.

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Phoenix Plywood Depot.—Prospect Chambers Annexe, Hornby Road, Fort.

P. Ratilal & Co.—43, Dhanji Street, Bombay 3.

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Begraj Gupta.—207, Kalbadevi Road, Bombay 2.
Hemchand Mohanlal & Co.—Deoki Bhuwan, Dhanji Street, Bombay 3.
Khimji Poonja & Co.—Wadia Building, 17/19, Dalal Street, Fort.
Merwanjee Bomanjee Dalal.—45-47, Apollo Street, Fort, Bombay.
Motilal Vithhukhandas.—155, Shaikh Memon Street Bombay 2.
Pyarelal Gupta & Co.—207, Kalbadevi Road, Bombay 2.
Ramsarup Gupta & Co.—705, Cotton Exchange, Kalbadevi Road, Bombay 2.

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BOMBAY WIRE & METAL PRODUCTS.—272 2, Masjid Bunder Road, P.O. Box No. 3201, Bombay 3. Manufacturers of D.C.C. copper wire and dealers in winding wires & insulating materials.

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Henley's Telegraph Works, Co., Ltd.—Henley House, Ballard Estate, Bombay.

Indian Cable Co., Ltd.—Esplanade House, Waudby Road, Bombay 1.

Johnson & Phillips Ltd.—Kaiser-i-Hind Building, Currimbhoy Road, Ballard Estate, Bombay. Phone : 25457. Grams : "JOHNPHIL".

JYOTI WIRE INDUSTRIES.—164, Kika Street, Bombay 4. Phone : 70602. Grams : "OVERHEAD." Manufacturers of Hard Drawn Bare copper conductors, D.C.C. Wires, soft binding wires and copper wire for electrical cables manufacture, copper strips, copper rods in all sizes. Factory at : 42 50, Ali Oomer Street, Bombay 3.

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Bombay Calendar Co.—44, Cawasji Patel Street, Fort.

BRITISH INDIA PRESS.—(Estd. 1887), Props. : Leaders' Press Private Ltd., 108, Love Lane, Mazagon, Bombay 10. Phone : 75334-35. Grams : 'PRINTBIND.' Letter-press, Litho-offset, Printers, Specialists in Books, Diaries, Calendars, Cartons, Labels, etc.

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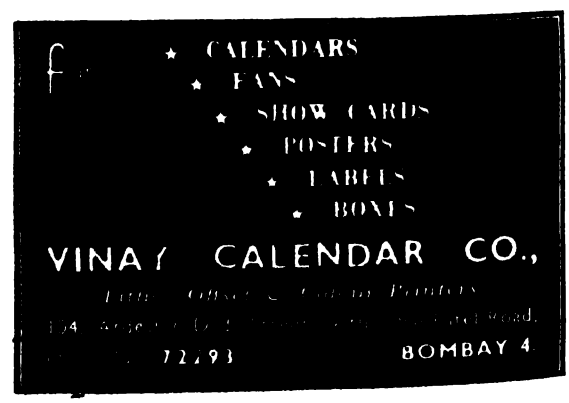
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EAST ASIATIC CO. (INDIA) PRIVATE LTD. THE.—Wavell House, Graham Road, Ballard Estate, Bombay. Phone: 26-2711 (8 lines). Offices at Madras, Calcutta, New Delhi.

Gopaljee & Co.—218, Samuel Street, Vadgadi, Bombay 3.

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Walter & Co., Dr. D.—Opp. Rangari Chawl, Bhawani Shanker Road, Bombay 28.

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Akbarally Ebrahimji.—38 c, Cowasji Patel Street, Fort, Bombay.

Fruit Farm Products.—Byramji Mansions, Sir Phirozshah Mehta Road, Fort.

Mahomed Husain & Bros.—106, Kansara Chawl, Kalbadevi, Bombay 2.

Poonjajee, J. M. Jehangir.—Byramji Mansion, Sir Phirozshah Mehta Road, Fort, Bombay.

Salemahomed Padamsee & Co.—141, Chakla Street, Bombay 3.

Smith Stanistreet & Co., Ltd.—Stan House, Barrack Road, Fort, Bombay 1.

Vaziralli, Ltd.—Prospect Chambers, Hornby Road, Fort.

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Mahomedally Mahomedally & Co.—102-104, Bhusari Mohalla, Bombay 3.

Sugar Carbonic Gas Co., Ltd.—Connaught Road, Mazagaon.

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EASTERN CARD CLOTHING CO. PRIVATE LTD. THE.—Importers of Card Clothing for Textile Mills. Works & Office: Farmington Road North, Lal Chimney, Bombay 11. Phone: 53053. Grams. "WIREFILLET." Sole Agents for Prayon de Nouw, Ltd., Ghent-Belgium.

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Hasaram, K., & Co.—New Silk Bazar, Kalbadevi, Bombay 2.

Hotchand Motumal.—331, Hornby Road, Fort.

INDIAN ART MUSEUM PRIVATE LTD.—Carnac Bridge, Bombay 3. Phone: 20726. Grams: "INDARTMUSE."

Indian Durries Emporium.—64, Mahomedali Road, Bombay 3.

Kabul and Kashmir Store.—15, Lansdowne Road, Apollo Bunder, Fort.

Kashmir Govt. Arts Emporium.—Sir P. M. Road, Bombay 1.

M. Dialdas & Sons.—190, Princess Street.

Mirzapur Carpet Industries.—"Nishat," 24, Mangalore Street, Fort, Bombay. Phone: 27349.

Modern Indian Art Crafts.—Samlava Chambers, Sir Phirozshah Mehta Road, Fort.

Noorbhai Jivaji.—Tyebi Manzil, Bhendy Bazar, near Tram Junction

Royal Carpet & Tapestry Emporium.—Dina Buildings, 58, Queen's Road, opp. Marine Lines Station.

Royal Carpets & Cane-Furniture Manufacturing Co.—Mani Bhuwan Hughes Road, Bombay 7.

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Akbarally Ebrahimji.—38 c, Cowasji Patel Street, Fort, Bombay. Grams: "Tussilbar."

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Latham Abercrombie & Co. Private Ltd.—Forbes Building, Home Street, Fort.

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Mongini Limited.—45-47, Churchgate Street, Fort.
Pioneer Coffee House.—46, Churchgate Street, Fort.
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Jacks, William & Co., Ltd.—Hamilton House, Graham Road, Ballard Estate, Fort.
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Shalebhoy Tyebjee & Sons.—12, Bruce Street, Bombay 1.

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KILBURN & CO. PRIVATE LTD.—Gresham Assurance House, Phirozshah Mehta Road, Fort, Bombay 1. Phone : 251908.
National India Engineering Co. Ltd.—7-10, Elphinstone Circle, Fort.
RAJ-DER-KAR & CO.—Commissariat Building, Dr. Dadabhai Naoroji Road, Fort, Bombay. For Research Industries. Phone : 262304. Grams : "TECHLAB."
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Thos. W. Ward (India) Ltd.—Marshall Building, Ballard Road, Ballard Estate, Fort.

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Amar Dye-Chem Ltd.—11, Sprott Road, Ballard Estate, Bombay 1
Arlabs Private Ltd.—6-2nd Floor, India House, Fort Street, Bombay 1
Bengal Chemical & Pharmaceutical Works Ltd.—502, Cadell Road, Worli.
Bock, F. & Co.—Shale Building, Bank Street, Fort.
Bombay Chemicals Private Ltd.—129, Mahatma Gandhi Road, Bombay-1.
Bombay Drug House Private Ltd.—Tulsipipe Road, Mahim, Bombay 16
Bombay Gas Co.—214, Dadabhoy Naoroji Road, Bombay 1.
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Dumex Private Ltd.—Wavell House, Graham Road, Ballard Estate, Bombay 1.
Eastern Chemical Co. (India), The.—Dougall Road, Ballard Estate, Phone : 32031. Grams : "EASTCHEM."
Exrel Industries, 184-187 Ghodbunder Road, Jogeswari, Bombay
Fairdeal Corporation (Private) Ltd.—'Lakshmi Bldg.', Sir Phirozshah Mehta Road, Post Box No. 1925, Fort, Bombay 1.

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Hindusthan Chemical Works Ltd.—Advani Chambers, Sir Phirozshah Mehta Road, Fort, Bombay. Grams: "DICHROMATE."
Hoechert Fedco Pharma.—Backbay Reclamation, Mafatlal House, Bombay 1.
I C I. (India) Private Ltd.—P.O. Box 310, Bombay 1.
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Pioneer Magnesia Works, Ltd. of Bombay & Kharaghoda—Ltd 115, Mahatma Gandhi Road, 2nd floor (opp. Rajatal Tower), Fort, Bombay.
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Sharada Industries Private Ltd.—137, Sheikh Memon Street, Bombay 2.
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Star Chemicals.—21, Noble Chambers, Parsi Bazar Street, Bombay.
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Tata Chemicals Ltd.—Bombay House, Bruce Street, Fort, Bombay 1.
Tata Oil Mills Co., Ltd.—Bombay House, Bruce Street, Fort, Bombay.
Technington Chemical Factory Private Ltd.—United India Building, Sir Phirozshah Mehta Road, Bombay.
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Western Chemical Industries.—Goregaon (East), Post Malad, Bombay.
Wyeth Chemical Works (Private) Ltd.—Industrial Assurance Bldg., Churchgate, Bombay 1.
Zenith Chemical Works Private Ltd.—French Bridge, Bombay 7.

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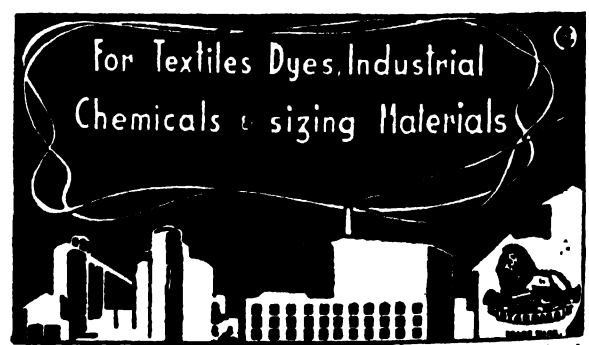
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Khushru & Sons.—Sunnoo Lodge, Khodadad Circle, Dadar.
Kikani Medicine Supply Co.—Kapol Nivas, 414, Sandhurst Road.
Kishorchandra & Co.—Keshaw Baug, 102, Princess Street, Bombay 2.
Komol Pharmacy.—Commissariat Building, Hornby Road.
Krishna Medical Stores.—290, Shaikh Memon Street, Bombay 2.
Kulkarni & Co.—176, Princess Street, Bombay 2.
Kumar & Company.—34, Mangaldas Road, Princess Street, Bombay 2.
Lakdavala Limited.—Homœopaths, Bombay No. 2.
Lavchand Varajdas & Co.—Pratap Mansion, Princess Street, Bombay 2.
Little's Oriental Balm & Pharmaceuticals, Ltd.—Head Office: Western India House, Sir Phirozshah Mehta Road, Bombay.
L. C. Attarwalla & Co.—269, Sheikh Memon Street, Bombay 2.
L. Lachhmandas & Co.—91, Princess Street, Bombay 2.
MAC Laboratories Private Ltd.—Great Social Building, Sir P. M. Road, G.P.O. Box No. 1831, Bombay 1.
Malhav Agency.—Girgaum, Bombay 4.
Madon, M. T., & Co.—"The Corner Shop," 346, Abdul Rehman Street.
Madon Sons & Co.—Madon Mansion, 67, Hughes Road, Bombay 7.
Maganbhai Chimanlal & Co.—Mangaldas Road, Princess Street, P.B. No. 2088, Bombay 2.
Mahendrakumar & Co.—32, Shuruf Mansion, Princess Street, Bombay.
Manaklal & Bros.—61-A, Princess Street, Bombay 2.
Manaklal & Co.—Ramban Patent Depot, Shuruf Mansion, 32, Princess Street, Bombay 2.
Manilal & Bros.—Mulchand Mansions, Princess Street.
Martin & Harris Ltd.—Savoy Chambers, Wallace Street, Fort.
Mavlal Motichand Kanani & Co.—Dawawalla Building, 99, Princess Street, Bombay 2.
Maganbhai Tribhowandas & Co.—Princess Street, Vithaldas Road, Devkaran Mansion, Block 8, P.B. No. 2189, Bombay 2.
Mira Chemical Works.—Chinchpokli Cross Lane, Parel.
M. H. Javeriar & Co.—67, Princess Street, Bombay 2.
Minerva Medical Stores.—11, Mangaldas Road, Princess Street, Bombay 2.
M. M. Bharwada.—Mulchand Mansion, Princess Street, Bombay 2.
M. M. Shah & Co.—Damodar Building, 109, Princess Street, Bombay.
Model Chemists.—Mapia Mahal, Thakurdwar, Bombay 2.
Mohanlal & Co.—61, Princess Street, Bombay 2.
Monji Vishram & Co.—310, Shaikh Memon Street.
Mukundlal & Co.—Anand Bhuvan, Princess Street, Bombay 2.
Narbheram & Sons.—Mangaldas Building No. 1, Princess Street, Bombay 2.
Narotam Girdhar & Co.—Sheikh Memon Street, Bombay 2.
Nath & Co.—Parekh Building, Old Hanuman Lane, Bombay 2.
National Aniline & Chemical Co., U.S.A.—Patel House, Churchgate Street, Fort.
Natvarlal & Co.—Fida Building, Princess Street, Bombay 2.
N. Himatlal & Co.—P. O. Box No. 2004, Princess Street, Bombay 2.
N. Sunderlal & Co.—89, Princess Street, P.B. No. 2276, Bombay 2.
N. Uttamlal & Co.—Bodo Chawl, Princess Street, P.B. No. 2049, Bombay 2.
N. Vasantral & Co.—55, Princess Street, Devkaran Mansion, Bombay.
Odhawjee Lawjee & Co.—Chikhal House, 144-B, Princess Street, Bombay 2.
Orient Homœopathic Pharmacy.—Pannalal Terraces, Lamington Road, Bombay 7.
Oriental Medical & Surgical Stores, Ltd.—Anand Bhuvan, Princess Street, Bombay 2.
Oriental Pharmacy.—Kapoli Nivas, near Imperial Bank, Sandhurst Road.
Pannalal Ramdayal Chindak.—183, Princess Street.
Paradkar, K. A., & Co.—Dindalay Building, Gaiwadi, Girgaum, Bombay 4.
Patani Bros. & Co.—Mangaldas Road, Princess Street.
Patel Ruby & Co.—Cumballa Hill, Bombay 26.
Paddy Brothers.—245, Princess Street, Bombay 2.
Parekh & Co.—Parekh Building, Old Hanuman Lane, Bombay 2.
P. C. Sheth & Co.—Bodo Chawl, New Hanuman Lane, Princess Street, Bombay 2.
P. D. Doshi & Co.—38, Old Hanuman Lane, P.B. No. 2422, Bombay 2.
P. M. Zaveri & Co.—10, Fida Building, Princess Street, Bombay 2.
P. N. Vora & Co.—P.B. No. 2039, Varjivan Mansion, 1st Floor, Princess Street, Bombay 2.
PERRY & CO. (PRIVATE) LTD.—Provisions & General Merchants, Grant Road, Bombay 7. Phones: 74791 & 42494.
Phillimore & Co.—Cumballa Hill, Bombay 6.
Phillips & Co.—Waterloo Mansion, Mayo Road, Fort.
Pioneer Magnesia Works Ltd., The.—Chartered Bank Building, Mahatma Gandhi Road, Fort.
POPULAR PHARMACY (REGD.), THE.—Dhun Building, Lamington Road, Grant Road, Dispensing Chemists. Phone: 71884.
Poona Drug Stores.—324, Mahatma Gandhi Road, Poona 1.
Prabhudas Gulabchand Shah.—Mulchand Mansion, Princess Street, Bombay 2.
P. Ramanlal & Co.—72, Princess Street, Bombay 2.
Premier Chemists.—Shuruff Mansion, Princess Street, near Juma Masjid.
Purshottam Laxmichand.—Balakhidas Building, Mangaldas Road, Bombay 2.
"Queenie."—11-B, Hughes Road, Bombay 7.
Queen's Chemists, The.—Queen's Chambers, Queen's Road (opp. Marine Bridge), Bombay.
Rajnikant Brothers.—P.B. No. 2053, Princess Street, Bombay 2.
Rasiklal & Co. Ltd.—Varjivan Mansion, 60-62, Princess Street, P.B. No. 2228, Bombay 2.
Ratilal Hemraj.—Mulchand Mansion, Princess Street, Bombay 2.
R. K. Mehta & Co.—Champsey Building, Princess Street, Bombay 2.
R. Nandlal & Co., (Pharmaceuticals).—72-A, Champsey Building, Princess Street, Bombay 2.
Rele, K. B., & Sons.—Anand Bhuvan, Vithalbhai Patel Road.
Reshamwala, C. K., & Co.—Shuruff Mansion, Princess Street, Bombay.
Rose Pharmacy.—Anand Bhuvan, Princess Street, Bombay 2.
Roy & Company.—176, Princess Street.
Royal Chemists.—Queen's Chambers, Queen's Road.
Royal Drug & Pharmaceutical & Co.—52-58, Jivraj Shamji Building, New Hanuman Lane, P.B. No. 2395, Bombay 2.
Rustom, K., & Co.—69, Wodehouse Road, Colaba.
Saboowalla Kamruddin Hakimji.—Crawford Market, P.O. Box No. 1146, Bombay.
Scientific Chemists, The.—105, Princess Street, Bombay 2.
Sevantilal Kantilal & Co.—84, Mangaldas Building, Mangaldas Road.
Shah Brothers.—32, Princess Street, "Jintan" Agency, Bombay 2.
Shah & Co.—Anand Bhuvan, Princess Street.
SHANTI TRADING CO.—New Citizen Bank House, Palton Road, Bombay 1. Grams: "BATTENS". Suppliers to Government, Hospitals and Doctors.
Shantilal Ltd.—Princess Street, P.B. No. 2140, Bombay 2.
Sheth, C. J., & Co.—192, Mangaldas Building, Mangaldas Road, Bombay 2.
Simplex Chemical Co.—103-C, Chhaktewadi, Tardeo.
Sinora Chemical Works.—531, Chira Bazar, Girgaum.
SONICO.—171, Dr. Dadabhai Naoroji Road, Fort. Phone: 263976. Grams: "SONIPHOTO."
Sorabji Hormasji & Co.—22, Mangaldas Road, Opp. P.O., Juma Masjid.
Standard Pharmacy.—Anand Bhuvan, Princess Street, Bombay 2.
Stewart's Laboratories.—327, Hornby Road, Fort.
S. Mathuradas & Co.—7, Bodo Chawl, Princess Street, P.B. No. 2113, Bombay 2.
S. Shantilal & Co.—35, Kika Street, Gulalwadi, Bombay 4.
Standard Medical Agencies.—18, Anand Bhuvan, Princess Street, P.B. No. 2426, Bombay 2.
Tarachand & Co.—5, Sleater Road, Grant Road.
Thakkar Bros.—32, Princess Street, Bombay 2.
Thomson & Taylor Ltd.—117-119, Mahatma Gandhi Road, Fort.
T. J. Shah & Brothers.—Mulchand Mansion, Princess Street, P.B. No. 2180, Bombay 2.
Tribhovandas Khimji & Bros.—13, Princess Street.
Umeschandra Jayantilal & Co.—Mahendra Mansion, New Hanuman Lane, Bombay 2.
Union Drugs & Pharmaceutical Co.—Old Hanuman Lane, Jayabai House, Near Angania's Chawl, P.B. No. 2559, Bombay 2.
Vally, J. H.—Mangaldas Road, Princess Street, Bombay 2.
Vanmali Bhika & Co.—Devkaran Mansion, Princess Street, Bombay 2.
Vijay Trading Corporation.—297-B, Old Post Office Lane, Mangaldas Market, Bombay 2.
Vinchhi Bros. & Co.—Old Small Causes Court Building, Princess Street.
Vora, B. P., & Co.—126, Princess Street.
Vora Bros.—218, Princess Street.
Vora, M. J., & Co.—422, Kalbadevi Road, Bombay 2.
V. Rajkotia & Co.—Varjivan Mansion, 52, Princess Street, Bombay 2.

Vyas Brothers Ltd.—Devkaran Mansion, Princess Street, Bombay 2.
Wagh, T. A., & Co.—Kshatriya Dnyati Nivas, New Charni Road, Girgaum.
Wagh & Sons.—Poibawdi, Parel.
Western Trading Corporation.—439, Kalbadevi Road, 1st Floor, Bombay 2.
Wright & Co.—Junction of Frere Road and Mint Road, Fort.
Zill & Co.—Princess Street.

CHEMISTS (MANUFACTURING)

Abbot Laboratories (India) Ltd.—Jehangir Building, Mahatma Gandhi Road, Fort, G.P.O. Box No. 1334, Bombay.
Alembic Chemical Works Co., Ltd., Baroda.—Lakshmi Buildings, Sir Phirozshah Mehta Road, Fort.
B. A. & Brothers.—98, Princess Street, Bombay 2.

BOMBAY TABLET MANUFACTURING CO.—Sales Depot: 178, Old Post Office Lane, Mangaldas Market, Mangaldas Road, Bombay 2. Grams: "SACCHARIN". Factory: Tablet House, Opp. Rly. Station, Goregaon East, Bombay. Manufacturers of Pharmaceutical Products.

BOOTS PURE DRUG CO. (INDIA) PRIVATE LTD.—Registered Head Office: Asian Building, Nicol Road, Ballard Estate, P. O. Box 680, Bombay 1. Phone: 261436. Tel.: "DRUGBOOTS," Bombay. Factory: Sion, Bombay 22. Phone: 62445.

British Drug Houses (India) Ltd.—Imperial Chemical House, Ballard Estate.

CHEMICAL, INDUSTRIAL & PHARMACEUTICAL LABORATORIES, LTD. (CIPLA).—289, Bellasis Road, Byculla. Phones: 75211, 75212 and 75213.

Continental Drug Co. Ltd.—135, Worli Road, Worli. Phone: 45451. Grams: "Condrugco."
Crookes Laboratories Ltd.—Court House, Carnac Road, Bombay 2.
Dongre, K. T., & Co.—384, Lamington Road, Bombay 4.

DR. BHALCHANDRA LABORATORY.—215, Charni Road, Girgaum, Bombay 4. Phone: 27221. Grams: "BHALABS". Manufacturers of High quality Pharmaceuticals and Ethical Specialities.

Fairdeal Corporation Ltd., The.—Lakshmi Building, Sir Pherozshah Mehta Road, Fort, Bombay.
Gajjar's Standard Chemical Works, Ltd., Prof.—New Islam Mills Compound, Currey Road, Bombay 13.
Holmes Laboratory.—Upper Forjett Hill, Bombay 26.
J. & J. De Chane.—Star Mansion, 30, Clare Road, Byculla, Bombay.
Kemp & Co., Ltd.—Elphin House, Cadell Road, Bombay 28.
Kopran Chemical Co.—105, Apollo Street, Fort.

MAY & BAKER (INDIA) PRIVATE LTD.—Karimjee House, Sir Phirozshah Mehta Road, Fort, Bombay. Branches: Calcutta, Gauhati, Madras and New Delhi.

Parke, Davis & Co., Ltd.—Canada Building, Hornby Road, Fort.

PHARMED PRIVATE LTD.—Pharmed House, Fort Street, Fort. Phone: 261141 2. Grams: "PHARMED." Factory: 252 54, Dr. Annie Besant Road, Worli, Bombay 18. Phone: 41445.

Roy & Company.—176, Princess Street, Bombay 2.

SMITH, STANISTREET & CO., LTD.—Stan House, Barrack Road, Fort, Bombay 1. Phone: 242573. Grams: "STANSTREET." Manager: J. A. Coutinho. Regd. Office and Works: 18, Convent Road, Entally, Calcutta 14.

United Pharmaceutical Co.—157-59, Girgaum Road, Bombay 4.
Zanda Pharmaceutical Works, Ltd., The.—Gokhale Road (South).

ZENITH CHEMICAL WORKS PRIVATE LTD.—4, French Bridge, Bombay 7. Phone: 40905 (Estd. 1916).

CHINA CLAY

Apex Traders.—Advani Chambers, Sir Phirozshah Mehta Road, Fort.
Arvinda Trading Co. Private Ltd.—105, Apollo Street, Fort.
Bharat Pulverising Mills.—125, Narayan Dhuru Street, Bombay 3.
Chimanlal Patel & Co.—174, Hornby Road, Fort.
Gujarat Clay Mills.—246, Reay Road, Bombay 10.
Industrial Minerals and Chemical Co.—125, Narayan Dhuru Street, Bombay 3.
Jashwantlal Manekial & Co.—40, Vir Nariman Street, Fort.

JIVRAJ & VRAJLAL.—122, Mogdevi Street, Bombay 3. Phone: 26130. Grams: "SANIPIPES."

Kirtikumar & Co.—80, Bhandari Street, Mandvi, Bombay 3. Phone: 20563. Grams: "LALITKIRTI."
Pannalal Ramdayal Chindak.—153, Princess Street, Bombay 2.
Pravin Brothers & Co.—37, Bora Bazar Street, Bombay 1.

CINEMA CARBONS

HAVELL'S ELECTRICAL (SALES) CORPN.—32, Rampart Row, Fort, Bombay 1. Phone: 252192. Grams: 'HAVELLCROP.' Branches: Calcutta, Madras, Delhi. Importers of Havell's Cinema Carbons and Accessories that are made in Germany.

CINEMA AND MOTION PICTURES

Abhaya Chitra C/o Lewis Irani & Co.—136, Girgaum Road, Near Majestic Cinema, Bombay 4.
Akash Chitra.—Famous Cine Building, Mahalaxmi, Bombay 11.
Alankar Chitra.—19, Prem Court, Sir Jamshedji Tata Road, Churchgate Reclamation, Bombay 1.
All India Pictures.—Ratan Villa, Vincent Square, Dadar, Bombay 14.
Anand Films.—4-B, Naaz Bldg., Lamington Road, Bombay 4.
Anupam Chitra.—Ranjit Studios, Main Road, Dadar, Bombay 14.
Art Films of Asia Ltd.—Olympia House, Warden Road, Bombay 26.
A. R. Films.—3rd Floor, Hasan Mansion, Dhobi Street, Corner of Masjid Bunder Road, Bombay 3.
Ashok Pictures.—Rattan Villa, Vincent Square, Bombay 14.
Azad Chitra.—136, Girgaum Road, Bombay 4.
Bal Vithal Films.—4th Floor, Prabhawadi, Behind Post Office, Mahim, Bombay 16.
Basant Pictures.—(Studio) Kolwada Boria Road, Behind Golf Club, Chembur. Office: 136, Chamarbagh Road, Parel, Bombay 12.
Basu Chitra Mandir Private Ltd.—Shree Sound Studios, Dadar, Bombay 14.
B. B. Cine Corporation, Ltd.—Whiteaway Building, Hornby Road, Fort.
Bhagwan Art Productions.—Care Films, Walkar House, Lamington Road, Bombay 4.
Bimal Roy Productions.—Mohan Studios, Andheri, Bombay.
B. K. Patel & Co.—106, Medows Street, Fort.
Bombay Film Labs. (Private) Ltd.—149, Portuguese Church Street Bombay 28.
Bombay Studios Ltd.—736, Khar Pali Road, Khar, Bombay 21
Bombay Movietone Private Ltd.—2-B, Naaz Bldg., Lamington Road, Bombay 4.
B. R. Films.—4, Chinoy Colony, Juhu Road, Santa Cruz, Bombay 2
Central Cine Corporation.—68, Tardeo Road.
Central Studios.—74-94, Tardeo Road, Bombay 7.
Chandra Films.—4-G, Naaz Bldg., Lamington Road, Bombay 4
Chitra Bharati., C/o. Shrikant Studios.—Chembur, Bombay.
Chowdhry Art Productions.—252, Ripon Road, Byculla, Bombay 8
Columbia Films of India Ltd.—Imperial Chambers, Ballard Estate
Dawlat Corporation Ltd.—Patel Chambers, French Bridge, Bombay No. 7.
De Lux Films.—103, Famous Cine Bldg., Mahalaxmi, Bombay 11
Deepshikha Chitra Niketan.—59, Bhatia Bhavan, Asha Lane Gokhale Road, Dadar, Bombay.
Deep & Pradeep Productions.—250, Famous Cine Building, Mahalaxmi, Bombay 11.
Desai Films.—3-F, Naaz Bldg., Lamington Road, Bombay 4
Dimond Pictures Ltd.—*Distributions Office:* Seksaria Building, Sandhurst Road, Bombay 4.
Dinesh Films.—Prakash Studios, Andheri, Bombay.
Dosi Films Ltd.—Manik Villa, Saraswati Road, Santa Cruz, Bombay 23.
Eagle Lion Distributors (India) Ltd.—"Dhan Nur," Sir Phirozshah Mehta Road, Fort.
Eagle Films.—220, Famous Cine Bldg. Mahalaxmi, Bombay 11
Educational Films of India.—195, Hornby Road, Fort.
Excelsior Film Exchange.—Goverdhan Building, Parekh Street, Bombay 4.
Excelsior Movietone.—Goverdhan Building, Parekh Street, Bombay 4.
Famous Cine Labs. & Studios Ltd.—Haines Road, Mahalaxmi Bombay 11.
Famous Cine Labs. & Modern Studios.—160, Tardeo Road, Bombay 7
Fazli Bros. Ltd.—Rattan Villa, Vincent Square, Dadar, Bombay 14.
Filmco.—5, Habib Park, Clare Road, Byculla, Bombay 8.
Film Arts.—9, Sobhani Road, Bombay 5.

FILM CLUB.—National House, Tulloch Road, Apollo Bunder, Bombay. Tel. Address: "EDUFILMS." Phone: 35159 Distributers of Full-length feature Films and Educational Films and Children's Films in 16 mm.

Filmistan Ltd.—Botawalla Building, 11-13, Elphinstone Circle, Fort.
Goel Cine Corporation.—207, Famous Cine Bldg., Mahalaxmi, Bombay 11.
Golden Movies, C/o Mohan Studios.—Kurla Road, Andheri, Bombay
Global Film Bureau.—245, Famous Cine Bldg., Mahalaxmi, Bombay 11.
Guru Dutt Films Private Ltd.—147, Famous Cine Bldg., Haines Road, Mahalaxmi, Bombay 11.
Harish Productions.—Famous Cine Building, Mahalaxmi, Bombay 11.
Hemen Gupta Productions.—226, Famous Cine Bldg., Mahalaxmi, Bombay 11.
Hemlata Pictures.—Goverdhan Bldg., Parekh Street, Bombay 4.

BUNNAR PUBLICITY.—Advertising Films, Animation Cartoon Films, Documentary and Educational Shorts, Film Strips and Commercial Photography, Jan Mansion, Sir Phirozshah Mehta Road, Bombay 1. Phone: 261513. Grams: "SAAPEN," Bombay.

Ismail Films.—223, Famous Cine Laboratory, Mahalaxmi, Bombay 11.

J. Arthur Rank Film Distributors (India) Ltd.—Dhan-Nur, Sir Phirozshah Mehta Road, Fort, Bombay.

J. S. Pictures.—146, Famous Cine Bldg., Mahalaxmi, Bombay.

Kaizer Films.—109, Famous Cine Bldg., Mahalaxmi, Bombay 11.

Kala Kendra.—Shrikant Studios, Chembur, Bombay.

Kalpana Pictures.—203, Famous Cine Building, Haines Road, Mahalaxmi, Bombay 11.

Kanwar Kala Mandir, C/o T. M. Bihari.—1-A, Naaz Bldg., Lamington Road, Bombay 4.

Kapurchand & Co.—Roxy Chambers, New Queen's Road, Bombay 4.

Kapurchand Private Limited.—Roxy Chambers, New Queen's Road, Bombay 4.

Kashyap Productions.—Aldina Mansions, 21, Carmichael Road, Bombay.

Kuldip Pictures Ltd.—Sarita Villa, Seven Bungalows, Versova Road, Andheri, Bombay.

Kwatra Art Productions.—206, Famous Cine Bldg., Mahalaxmi, Bombay 11.

Light & Shade.—245, Famous Cine Bldg., Mahalaxmi, Bombay 11.

L. M. Movies, Famous Cine Labs. & Studios Ltd.—Mahalaxmi, Bombay 11.

Madhubala (Private) Ltd.—Arabian Villa, Pali Hill, Bandra, Bombay.

Madhukar Pictures.—42, Bholwada Street, Bandra, Bombay.

Mahesh Chitra, C/o. Prakash Studio.—Andheri, Bombay.

Mar & Movies.—549, Carnac Road, Dhobi Talao, Bombay 2.

Meena Pictures.—Swadeshi Mills Estate, Tata Road, Bombay 4.

METRO-GOLDWYN-MAYER INDIA LTD.—Metro House, Mahatma Gandhi Road, Bombay 1.

Mitra Productions.—Goverdhan Bldg. No. 2, Parekh Street, Bombay.

Mohan Pictures.—Mehta Lodge, Kurla Road, Andheri.

Mohan Pictures, C/o. Ramniklal Mohanlal & Company.—199, Khetwadi Main Road, Bombay 4.

Movie Stars, C/o Shree Sound Studios.—Dadar, Bombay 14.

Mukti Films.—3-D, Naaz Bldg., Lamington Road, Bombay 4.

Narang Films.—150, Famous Cine Labs & Studios Ltd., Mahalaxmi, Bombay 11.

Nathan Productions, C/o Raman Studios.—Dadar, Bombay 14.

National Education & Information Films Ltd.—National House, Tulloch Road, Apollo Bunder, Bombay. Grams: "EDU FILMS." Phone: 35159.

Natraj Productions.—Famous Cine Building, Mahalaxmi, Bombay 11.

Navketan—Khira Kutir, Ghodbunder Road, Santa Cruz, Bombay 23.

Navrang Films, C/o. Dossi Films Private Ltd.—Raman Studios, Dadasaheb Phalke Road, Dadar, Bombay 14.

New Indian Films Ranjit Movietone.—119, Main Road, Dadar, Bombay.

New Oriental Pictures.—150, Famous Cine Bldg., Haines Road, Mahalaxmi, Bombay 11.

New Productions.—9, Krishna Ashram, Jogeshwari East, Bombay 42.

Orient Film Corporation.—220, Gulalwadi, Agakhan Building, Bombay 2.

Pali Studio.—Prospects Chambers, Hornby Road, Bombay.

Panchdi Productions.—217, Famous Cine Bldg., Mahalaxmi, Bombay 11.

Panvel Farms (Private) Ltd.—50, Shivaji Park, Dadar, Bombay 28.

Pendharkar Pictures.—217, Famous Cine Bldg., Mahalaxmi, Bombay 11.

Paramount Films of India Ltd.—Hague Building, Ballard Estate, Fort.

Patel, B. K., & Co.—106, Medows Street, Fort.

Peerless Pictures.—116, Charni Road.

P. N. Pictures.—Famous Cine Bldg., Mahalaxmi, Bombay 11.

P. N. Films Private Ltd.—Sagar Mandir, Shivaji Park Beach, Bombay.

Pushpa Pictures.—1-E, Naaz Bldg., Lamington Road, Bombay 4.

Pradeep Productions.—63-B, West Avenue, Santa Cruz, Bombay.

Raman Productions.—Dadasaheb Phalke Road, Dadar, Bombay.

Ravi Kala Chitra.—Anil, Hanuman Road, Vile Parle, Bombay.

Republic Films Corporation.—257, Famous Cine Bldg., Haines Road, Mahalaxmi, Bombay 11.

R. K. O. Radio Pictures, Ltd.—Dhan-Nur, Sir Phirozshah Mehta Road, Fort, Bombay.

Roopkamal Chitra.—201-B, Khetwadi Main Road, Bombay 4.

Roop Kala Pictures.—201-B, Khetwadi Main Road, Bombay 4.

Roopanjali—Central Avenue, Chembur, Bombay.

Roshan Films.—309-E, Famous Cine Bldg., Mahalaxmi, Bombay 11.

Sadiq Productions Ltd.—Shree Sound Studios, Gokuldas Pasta Road, Dadar, Bombay.

Saml Pictures.—2nd Floor, No. 8, Ratnam Baug, Byculla, Bombay 8.

Saraswati Art Films.—Famous Cine Bldg., Mahalaxmi, Bombay 11.

Sardar Pictures.—Jyoti Studios, Kennedy Bridge, Bombay 7.

Sharad Productions.—Nehru Road, Vile Parle, Bombay.

Shaikh Mukhtar Productions.—310, Famous Cine Bldg., Haines Road, Mahalaxmi, Bombay 11.

Shree Shakti Films.—204, Famous Cine Building., Mahalaxmi, Bombay 11.

Shree Sound Studios.—10, Gokuldas Pasta Road, Dadar.

Sippy Films Ltd.—3-G, Naaz Bldg., Lamington Road, Bombay 4.

Solar Films.—Shree Sound Studios, Dadar, Bombay.

Sterling Investment Corpn., Ltd.—169, Kurla Road, Andheri, Bombay.

S. P. Pictures.—205, Famous Cine Bldg., Mahalaxmi, Bombay 11.

Subodh Mukerji Productions.—15, Purshottam Bldg., Tribhuvan Road, Bombay 4.

Sunny Art Productions Ltd.—Famous Cine Laboratories and Studios Ltd., Haines Road, Mahalaxmi, Bombay 11.

Super Film Circuit.—Roxy Theatre, Queen's Road.

Supreme Film Distributors.—85, Main Road, Dadar.

Swastik India Ltd.—Chowpatty Chambers, Sandhurst Road.

Talwar Films.—217, Famous Cine Bldg., Mahalaxmi, Bombay 11.

Twentieth Century-Fox Corporation (India), Ltd.—Metro House, Mahatma Gandhi Road.

UNITED FILM MAKERS.—Himalaya House, Palton Road, Bombay 1. Phone: 261379, Grams: 'FILMEX,' Producers & Distributors of Advertising Films & Documentaries-Member of International Screen Publicity Association, London for India.

Universal Pictures (India) Ltd.—Mustafa Building, Sir Phirozshah Mehta Road.

Vanguard Pictures.—365, Girgaum Road, opp. Thakurdwar P. O., Bombay 2.

Vakil Productions.—3-F, Naaz Bldg., Lamington Road, Bombay 4.

Varma Films.—4-A, Rawalpindiwala Bldg., Tribhuvan Road, Bombay 4.

Variety Productions.—165-C, Vincent Road, Dadar, Bombay 14.

Vidyut Chitramandir.—6, Indira Niwas, Old Nagardas Road, Andheri (East), Bombay.

Vinod Films.—4-G, Naaz Bldg., Lamington Road, Bombay 4.

Wadia Movietone.—136, Chamarbaug Road, Parel, Bombay 12.

CINEMA MACHINERY

Cine Sound Equipments.—470, Sandhurst Road, Bombay 4.

GAUMONT-KALEE PRIVATE LTD.—Forbes Building, Home Street, Fort, Bombay. Phone: 261391 92. Grams: "GAUMKALEE." Dealers in Studio, Sound and Cine Equipments, Electrical & Petromax Strip and Slide Projectors, Meters and Electronic Test Equipments. Branches: Calcutta, Delhi and Madras.

National Education & Information Film, Ltd.—National House, Tulloch Road, Apollo Bunder, Fort.

Photo Cine Sound Private Ltd.—12, Rampart Row Bombay 1.

Photophone Equipments Ltd.—9, Marine Lines, Bombay.

WESTREX CO., INDIA.—Metro House, Mahatma Gandhi Road, Bombay 1. P.O. Box 1232. Tel. Address: "WESTREX." Phones: 242273 & 242274.

XACA (INDIA) PRIVATE LTD.—Gopal Niwas, Lohar Chawl, Bombay 2. Phone: 29907. Grams: "XACA." Sole Distributors for Wotan Products and Cinema Equipment and Photographic Materials.

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Ama Private Ltd.—"Photo Cine Sound," Canada Building, Hornby Road, Fort.

Central Camera Co. Ltd.—195, Dr. Dadabhai Naoroji Road, Fort, Bombay.

Cine Agency (India).—Parekh Building, 18, New Queen's Road, Bombay 4.

Cinema Private Ltd.,—532, Sandhurst Bridge, Bombay 7.

CINEFONES.—Importers, Dealers and Engineers in Cinema Projectors and Accessories, Visual aid Equipments, 16 mm. projectors, Tape Recorders & Electrical goods. Opp. Royal Opera House, 3 New, Queen's Road, Bombay No. 4. Phone: 75411-2. Grams: "FONOCINE." Managing Director: S. B. Agarwal.

Dawlat Corporation Ltd.—Patel Chambers, French Bridge, Bombay 7.

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Universal Traders.—Krishnalaya, Sion Road, Bombay 22.

CONFECTIONERY MACHINERY IMPORTERS

Duncan Stratton & Co., Ltd.—5, Bank Street, Bombay 1.
Rajdeep-Kar & Co.—Commissariat Building, Hornby Road, Fort.

CONSULTING ENGINEERS

Associated Consulting Engineers (India).—Haroon House, 294, Bazargate Street, Fort.
Beacons Limited.—13, People's Building, Sir Phirozshah Mehta Road, Fort.
BILANEY, M. M., M.Sc. (ENGR.) (LOND.), A.M.I.E.—Medows House, 39, Medows Street, Fort.
Engineering Construction Corporation, Ltd.—Sorab Mansion, 35, Murzban Road, Fort.
Engineering Survey Corporation.—Industrial Assurance Building, Churchgate Reclamation.
Gammon India Private Ltd.—Hamilton House, Graham Road, Ballard Estate. Phone: 32834; Gram: "GAMMON".
Larsen & Toubro Ltd.—I. C. House, Dougall Road, Ballard Estate, Fort.
LUSOB TRADING CO.—Bell Building, Sir Phirozshah Mehta Road, Fort. Phone: 252612. Grams: "LUSOBTRACO."
Parekh Brothers Ltd.—65, Mahatma Gandhi Road, Fort.
Royce Ltd.—Dhan-Nur, Sir Phirozshah Mehta Road, Fort.
Salem & Company.—Mafatlal House, Backbay Reclamation, Bombay 1.
Universal Trading & Chemical Works.—Post Box No. 805, Bombay 1. On Government, Army & Navy Lists.
Y. M. Pathare & Co.—Post Box 1428, 41, Medows Street, Bombay 1. Phone: 24415.

COPPER & BRASSWARE MFRS. & DEALERS

Amratlal & Co.—120, Kansara Chawl, Bombay 2.
Amratlal Umedlal & Co.—42, Kansara Chawl, Bombay 2.
Bhikachand Bhabutmal & Co.—217, Gulalwadi, Godiji Chawl, Bombay 2.
Bombay Brass & Metal Works.—28, 2nd Panjarapole Lane, Bombay 4.
Chhaganlal Khemchand & Co.—Chintamani Building, 2nd Bholwada, Bombay 2.
Dahyabhai Mansukhram Vasaikar.—56, Kansara Chawl, Bombay 2.
Dattatraya Narayan Dere.—Mahakali Chawl, Pydhuni, Bombay 3.
Fakirchand Kankuchand.—25-26, Kansara Chawl, Bombay 2.
Faizulabhai & Co — M, 39, Bhajipala Lane, Nagdevi Street, Bombay 3.
Fulchand Kesarimal & Co.—215, Gulalwadi, Godiji Chawl, Bombay 2.
Fulshanker Ganpatram Purohit.—234B, Kika Street, Corner of Kansara Chawl, Bombay 2.
Gopaldas Bhaichand Shah.—32, Kansara Chawl, Bombay 2.
Gujarat Metal Works.—4A, 2nd Bhoiwada, Bombay 2.
Himatlal Bajulal & Co.—10-12, 1st Bholwada, Bombay 2.
Hind Metal Mart.—Behind Mumbadevi Post, Bombay 2.
Jam Metal Mart.—Behind Mumbadevi Post, Bombay 2.
Jerupji Valji.—52, Kansara Chawl, Bombay 2.
Jugaraj Parasmal & Co. (Associated).—160, Jamli Mohalla, Bombay 3.
Kaluram Venichand Poonawala (Associated).—98, Kika Street, Bombay 4.
Kantilal & Brothers.—Shop No. 141, Bhuleshwar Road, Bombay 2.
Lalji Vanmalidas & Co.—18, 1st Bholwada, Bombay 2.
Maganlal Ghelabhai & Co.—40, Kansara Chawl, Bombay 2.
Mansukhlal & Co.—22, 1st Bholwada, Bombay 2.
Mansukhlal Narandas.—118 Kansara Chawl, Bombay 2.
Mohanlal B.—218, Gulalwadi, Corner of 1st Bholwada, Bombay 2.
Mukundlal & Co.—38, Kansara Chawl, Bombay 2.
Mulchand Kachradas.—62, Kansara Chawl, Bombay 2.
Nagindas Manekla! & Co.—4, 1st Bholwada, Bombay 2.
Navnitlal Purushottamdas.—112, Kansara Chawl, Bombay 2.
Nyalchand Monshibhai.—34, 1st Bholwada, Bombay 2.
Pannalal B. Shah.—21, Kansara Chawl, Bombay 2.
Ramanlal Talakchand.—Behind Mumbadevi Post, Bombay 2.
Sanghvi & Sons.—92, Kansara Chawl, Bombay 2.
Sankalchand & Bros.—22, Kansara Chawl, Bombay 2.
Shah Chhogmal Bhutaji & Co.—Chintamani Building, 1st Bholwada, Bombay 2.
Sha Chhotalal Maganlal.—212, Gulalwadi, Ground Floor, Chintamani Derasar, Bombay 2.
Sha Chunilal Hakamchand.—38-40, 1st Bholwada, Bombay 2.
Sha Dalsukhram Bulakhidas.—100, Kansara Chawl, Bombay 2.
Shah Fojmal Kishnaji.—220, Gulalwadi, Corner of 1st Bholwada, Bombay 2.
Sha Gulabchand Asharam & Co.—225, Gulalwadi, Godiji Chawl, Bombay 2.
Sha Gulabchand Punamchand.—7A, 2nd Bholwada, Bombay 2.
Sha Jayantilal Ramanlal & Co.—39, Kansara Chawl, Bombay 2.
Sha Jayantilal Bavalal & Co.—110, Kansara Chawl, Bombay 2.
Sha Jayantilal Chunilal.—80, Kansara Chawl, Bombay 2.
Shah Kaluram Mohanlal.—213, Gulalwadi, Godiji Chawl, Bombay 2.
Sha Jagjivandas Baldeodas.—66, Kansara Chawl, Bombay 2.
Shah Kapurchand Premchand & Co.—221, Gulalwadi, Godiji Chawl, Bombay 2.
Sha Kishnaji Bhagaji & Co.—231, Gulalwadi, Godiji Chawl, Bombay 2.
Sha Kantilal Nanchand & Co.—26, 1st Bholwada, Bombay 2.
Shah Kesarimal Dhanraj & Co.—10/12, 1st Bholwada, Bombay 2.
Shah Keshavji Ladha.—44, Kansara Chawl, Bombay 2.

Shah Magilal Hajarimal & Co.—229, Gulalwadi, Godiji Chawl, Bombay 2.
Sha Mohanlal Lallubhai & Co.—36, Kansara Chawl, Bombay 2.
Shah Manrupji Kenaji & Co.—Nemani Bldg., 1st Bholwada, Bombay 2.
Shah Manilal Chaturdas & Co.—6/8, 1st Bholwada, Bombay 2.
Sha Nanchand Raychand.—202, Gulalwadi, Chintamani Building, Bombay 2.
Sha Punamchand Ramchand & Co.—223, Gulalwadi, Godiji Chawl, Bombay 2.
Shah Ratilal Mohanlal.—40, Kansara Chawl, Bombay 2.
Sha Rikhabchand Juharmal & Co.—121, Gulalwadi, Bombay 2.
Sha Sobhagchand Dipchand.—216, Kika Street, Bombay 4.
Sha Vastimal Bhabhutmal & Co.—227, Gulalwadi, Godiji Chawl, Bombay 2.
Shah Vrajlal & Co.—124/26, Kansara Chawl, Bombay 2.
Shah Vrajlal Chunilal & Co.—134, Kansara Chawl, Bombay 2.
Shivshankar Raghuram Purohit.—34, Kansara Chawl, Bombay 2.
Sureshchandra & Brothers.—84, Kansara Chawl, Bombay 2.
Swastik Metal & Engineering Works.—37, 2nd Bholwada, Bombay 2.
Tarkar, B. A.—50, Kansara Chawl, Bombay 2.
Tulsidas Vitthaldas.—36, 2nd Bholwada, Bombay 2.
Umedlal & Co., A.—Behind Mumbadevi Post, Bombay 2.
Vanechand & Co. S.—54, Kansara Chawl, Bombay 2.
Zinabhai Nathalal & Bros.—114, Kansara Chawl, Bombay 2.

COPPERSMITHS, PLUMBERS, GASFITTERS, ETC.

Abdeally, B. M., & Co.—127, Sarang Street, Bombay No. 3.
Abdulhusein Esoofaly Contractor.—91-93, Bapu Khote Street, Bombay 3.
Adamally Sons, Ltd.—277, Nagdevi Street, Bombay 3.
A. G. Karimji Calcuttawala.—82/84, Gulalwadi, Kika Street, Bombay 4. Phone: 73636.
Alcock, Ashdown & Co., Ltd.—16, Bank Street, Fort.
B. BAMBOAT & CO. PRIVATE LTD.—56, Gowalia Tank Road, Bombay 26. Phone: 41917. Grams: "PILLARTAP".
Bhaichandra & Co.—62, C. P. Tank Road.
Bhathena, B. N., & Co.—100, Nagdevi Street.
Bombay Gas Co., Ltd.—Empire of India Life Building, 214, Hornby Road, Fort.
Burjor Framji & Co.—Marine Mansion, Marine Lines.
Chandulal Narandas.—96, Kika Street, Bombay 4.
Chandulal Vora & Co.—Near Shree Ram Mandir, 61, Kika Street, Gulalwadi.
Cooverjee Hormusji & Sons.—598, Chira Bazar, Girgaum Road.
Esoofally Dawoodbhoy.—18, Doctor Street, Dhanwadi Mohoila.
Esufally Adamji & Co.—134, Nagdevi Street.
Fidaali Rajabali.—165, Hill Road, Bandra.
Fidahusein Hasanali.—46-48, Gulalwadi, Kika Street, Bombay 4.
Gagrat & Co.—160, Nagdevi Street.
Garlick & Co. Private Ltd.—Haines Road, Jacob Circle.
Hindustan Engineering Services.—Vithal Sayana Building No. 1, Lohar Street, Bombay 2.
Jafferjee Hussonally & Sons.—63, Nagdevi Street.
K. Chimanlal & Co.—107-A, Nagdevi Street, Bombay 3.
Masagon Mechanical Marine & Welding Works.—Dockyard Road, Masagon, Bombay 10.
Marker, S. D., & Co. Ltd.—381, Hornby Road, Fort, Bombay.
Mohomedbhoy Esoofally Nulwalla.—78, Bapu Khote Street, near Null Bazar.
Nanalal Pandya & Co.—302, Angrewadi, Kalbadevi Road.
Pawar & Co., B.—Near Madhav Baug, 102, Ardeshir Dady Street.
Press, Cawasji Dinshaw.—Hamal Wadi, Dhobi Talao, Bombay 2.
Richardson & Cruddas.—Byculla Iron Works, Byculla.
Sanitation (Bombay) Ltd.—Navsari Chambers, Outram Road, Fort.
Universal Sanitary Engineering Co.—Kitab Mahal, 190/192, Hornby Road, Fort.
Victoria Sanitary Stores.—54, 3rd Bholwada, Bhuleshwar, Bombay 2.
Vidya Sanitary Works.—16-24, Lohar Street, Bombay 2.
Y. M. Pathare & Co.—Post Box 1428, 41, Medows Street, Bombay 1. Phone: 24415.

COST CONSULTANTS

R. MANABHOY & CO.—Ballard House, 14, Mangalore Street, Fort, Bombay 1. Industrial Management, Cost and Quality Control Consultants, F.C.W.A., F.C.C.S., F.S.A.A., A.S.C.C. (London). Phone: 26-2671; 42392. Grams: "RANACOST." Partner: R. Manabhoy (Mehta).

COTTON CONTROLLERS

Drennan & Co.—Allahabad Bank Building, Apollo Street, Fort. Phones: 21027 and 39778. Grams: "ALABASTER."
Mehta Ramkrishna & Co.—Khandelwal Bhavan, 166, Dr. Dadabhoy Naoroji Road, Fort.
Robertson & Son, Edward T.—Lakshmi Building, Sir Phirozshah Mehta Road, Fort.

COTTON IMPORTERS & EXPORTERS

Arthur Import Export Co.—166, Hornby Road, Fort, Bombay. Phone: 33076. Grams: "FABYARN."
Damji Rattansi & Co.—Podar Chambers, Parsi Bazar Street, Fort.
Devidayal Tulsiram (Cotton Department).—Darukhana, Reay Road, Bombay 10. Phone: 70558-59/73586. Grams: "Devisteel."
Hindustan Import & Export Corpn. Ltd.—Albert Building, Hornby Road, Fort.
Italindia Cotton Co. Ltd.—71-73, Apollo Street, Fort.
Jeramdas Naumal.—371, Hornby Road, Fort, Bombay.
MANILAL PATEL PRIVATE LTD.—38, Cawasji Patel Street, Fort, Bombay. Phone: 251864. Grams: "PATESAN".
Patel Bros.—6, Veer Nariman Road, Fort, Bombay.
Patel Cotton Company Ltd.—6, Vir Nariman Road, Fort.
Premji Haridas & Co.—Bhanushali Chambers, 166/170, Argyle Road, Bombay 9.
Raw Cotton Co. Ltd.—111, Mahatma Gandhi Road, Fort.

COTTON DEALERS

Aboobaker Abdulrehman & Co.—Imperial Building, 360, Junction of Lamington and Vithalbhai Patel Road, Bombay.
Ahmedabad Advance Mills, Ltd., The.—Bombay House, 24, Bruce Street, Fort, Bombay.
Amersey & Sons.—Feltham House, 10, Graham Road, Ballard Estate, Bombay.
Amulakh Amichand & Co.—810, Cotton Exchange Building, Bombay 2.
Anandilal Hemraj & Co.—Marwari Bazar, Bombay No. 2.
Anandilal Podar & Co.—Podar Chambers, Parsi Bazar Street, Bombay No. 1.
Anant Cotton Trading Co.—8-10, Tamarind Lane, Bombay 1.
Anopchand & Co.—C/o Messrs. Jagmohan Manilal Co., 505, Cotton Exchange, Marwari Bazari, Bombay 2.
Apollo Mills Ltd.—Standard Building, 346, Dadabhoy Naoroji Road, Fort, Bombay 1.
Arjan Khimji & Co.—Western India House, Sir Phirozshah Mehta Road, Fort, Bombay 1.
Asian Cotton & Seeds Co.—Warden House, 2nd floor, Sir P. M. Road, Bombay.
Ashar, R. D.—10, Bruce Street, Fort.
Bachhraj & Co., Private Ltd.—Jehangir Wadia Building, 51, Mahatma Gandhi Road, Fort, Bombay.
Bachhraj Factories Private Ltd.—Jehangir Wadia Building, 51, Mahatma Gandhi Road, Fort, Bombay.
Bajaj Brothers, Ltd.—Round Building, Kalbadevi Road.
Bankeylal & Co., R.—2nd Floor, Ranchhoddas Tribhovandas Building, Mumbadevi, Bombay.
Barkat Ram & Co.—5th Floor, Broacha Building, Princess Street, Bombay.
Begraj Gupta & Co.—1st Floor, 207, Kalbadevi Road, Bombay.
Begraj Kishandev.—207, Kalbadevi Road, Bombay 2.
Beharilal Ramcharan Cotton Mills, Ltd.—Empire of India Life Building, Hornby Road, Fort, Bombay.
Bhagwandas Harkchand & Co.—602, Cotton Exchange Building, Marwari Bazar, Bombay No. 2.
Bhagwati Cotton Trading Co.—Raja Bahadur Mansion, 2nd Floor, 20, Hamam Street, Fort, Bombay.
Bhaidas Cursondas & Co.—Sir Vithaldas Chambers, 16, Apollo Street, Fort, Bombay.
BHAIDAS MAWJI & CO. PRIVATE LTD.—Khandelwal Bhavan, Hornby Road, Fort. Cotton Merchants, Exporters & Importers. Phone: 26-8731. Grams: "BAMAW."
Bharat Cotton Brokers.—Sonawala Building, 2nd Floor, 59, Apollo Street, Fort, Bombay.
Bhawanji Lakhmidas & Co.—72/80, Musjid Bunder Road, Bombay No. 3.

Bhogilal Menghraj & Co. Ltd.—Shree Ram Mills Premises, Fergusson Road, Parel, Bombay 13.

Billimoria & Co., H. J.—2nd Floor, Room No. 9, Kansara Chawl, 118, Kalbadevi Road, Bombay.

Birla Brothers Private Ltd.—Industry House, 159, Churchgate Reclamation, Bombay 1.

Bombay Co., Private Ltd., The.—9, Wallace Street, Fort, Bombay.

Bombay Cotton Co., The.—Central Bank Building, Esplanade Road, Bombay.

Bombay Cotton Private Limited.—Neptune Building, 104, Apollo Street, Fort, Bombay 1.

Bombay Dyeing & Mfg. Co., Ltd., The.—Neville House, Graham Road, Ballard Estate, Bombay.

Bombay Uganda Co., Ltd., The.—28, Apollo Street, Fort, Bombay.

Bradbury Mills Ltd.—State Bank Building Annexe, Bank Street, Fort, Bombay 1.

Brady, W. H., & Co., Ltd.—Royal Insurance Building, Churchgate Street, Fort.

Breul & Co.—2nd Floor, West Taj Building, Hornby Road, Fort, Bombay.

Bramhan Maroo & Co.—158/164, Kalbadevi Road, 2nd Floor, Bombay.

Central India Spg. Wvg. & Mfg. Co. Ltd., The—24, Bruce Street, Fort, Bombay.

Century Spg. & Mfg. Co., Ltd., The.—Ground Floor, Queen's Mansions, Prescott Road, Fort, Bombay.

Chaturvedal & Co.—808, Cotton Exchange Building, Marwari Bazar, Bombay.

Chandulal Kasturchand & Co.—Rooms Nos. 506-507, 2nd Floor, Cotton Exchange Building, Kalbadevi Road, Bombay 2.

Chandulal & Sons.—Botawala Building, Elphinstone Circle, Bombay.

Chhotabhoj Jethabhai & Co.—27, Chinch Bunder Road, Bombay No 9.

Chhotram Jesraj Cotton Co.—288, Kalbadevi Road, Bombay.

Chhotalal & Co.—168, Argyle Road, Bhanushali Chambers, Bombay No. 9

Chimanlal & Co.—C/o Messrs. Gordhandas & Co., Marwari Bazar, Bombay No. 2.

Chimanlal Premchand Shah.—Chapsey Building, Princess Street, Bombay 2.

China Cotton Exporters.—10, Bruce Street, 2nd Floor, Fort, Bombay.

Chunilal & Co.—201, Kalbadevi Road, Bombay 2

Churiwala Co.—80B, Mahajan Assn. 2nd Floor, Sheikh Memon Street, Bombay 2.

Chunilal Krishnalal & Co.—608, Cotton Exchange Building, Kalbadevi Road, Bombay 2.

Chunilal Mehta & Co., Private Ltd.—Yusuf Building, 2nd Floor, 4, Mahatma Gandhi Road, Bombay 1.

Chunilal Pranjivandas & Co.—Indian Globe Chambers, Bori Bunder, Fort, Bom 1

Chunilal Tribhovandas Patel—Uma House, 2nd Fofal Wadi, Bhuleshwar, Bombay.

Colaba Land & Mill Co., Ltd., The—Victoria Buildings, Colaba, Bombay

Coorla Spg. & Wvg. Co. Ltd.—Readymoney Mansion, Churchgate Street, Fort, Bombay 1.

Cotton Agents, Private Ltd., The—Industry House, 159, Churchgate Reclamation, Bombay 1.

Cotton & Cloth Ltd.—27, Bastion Road, Fort.

Crown Spg. & Mfg. Co., Ltd., The.—Sir Vithaldas Chambers, 16, Apollo Street, Fort, Bombay.

Dalal Brothers—C/o Messrs. Motilal K. Dalal & Co., Share Bazar, Fort, Bombay 2

Daga Khimji & Co.—C/o Messrs. Tulsiram Gurdasram, 312, Kalbadevi Road, Bombay 2.

Damji Rattansi & Co.—Poddar Chambers, Parsi Bazar Street, Fort.

Daraibsha P. Nanavati & Son.—C/o The East India Cotton Association Ltd. Cotton Green Building, Sewri, Bombay 15.

Dawn Mills Co. Ltd.—State Bank Building Annexe, Bank Street, Fort, Bombay 1.

Debipersad & Company.—45/47, Apollo Street, Fort, Bombay.

Devidayal Tulsiram (Cotton Department).—Darukhana, Reay Road, Bombay 10. Phone: 70558-59/73586. Grams: Devisteel.

Devji Bhavanji & Co.—Manu Mansion, 16, Cushion House Road, Fort.

Devsee Khetsee & Co.—Ravji Ghalabhai Wadi, Opp. Derasar, Ghatkopar.

Dhanrajmal Gobindram.—8-10, Tamarind Lane, Fort, Bombay 1.

Dremen & Co.—Neville House, Ballard Estate, Bombay.

Durlabhji Umedchand & Co.—177-79, Kalbadevi Road, 3rd Floor, Lavji House, Bombay No. 2.

Dwarkadas & Co. Private Ltd.—2nd Floor, Rajmahal, Opp. Bhuleshwar Fire Brigade, Bombay.

Eastern Cotton Co.—Yusuf Building, Mahatma Gandhi Road, Fort, Bombay.

Edward Textiles Ltd.—15, Dougall Road, Ballard Estate, P.O. Box No. 781, Bombay.

Egyptian Cotton Agency.—10, Khatau Mansion, Cooperage, Bombay 1.

Elphinstone Spg. & Wvg. Mills Co. Ltd.—Kamapi Chambers, 32, Nicol Road, Ballard Estate, Bombay 1.

Eximport Trading Co.—Queen's Mansion, Bastion Road, Fort, Bombay 1.

Finlay Mills, Ltd., The.—Chartered Bank Building, Fort, Bombay.

Futehally N. & Co.—Heneshaw Building, Bank Street, Fort, Bombay 1.

Gadodia & Son Private Ltd.—239, Kalbadevi Road.

Gill & Co. (Private) Ltd.—Indu House, Dougall Road, Ballard Estate, Bombay 1.

Girdharlal & Co.—C/o Messrs. Liladhar Karasondas & Co., 403, Cotton Exchange, Marwari Bazar, Bombay 2.

Girish & Co.—C/o Messrs. Gordhandas & Co., Manekchand Kapurchand Building, Marwari Bazar, Bombay.

Goculbhai Dolatram & Co.—522, Cotton Exchange Building, 5th Floor, Kalbadevi Road, Bombay 2.

Goculdas Dossa & Co.—2nd Floor, East and West Building, 55, Apollo Street, Bombay

Goel Bros., & Co., Ltd.—Navsari Chambers, Fort.

Gokak Mills, Ltd., The.—C/o Messrs. F. F. Campbell & Co., Ltd., Forbes Building, Home Street, Fort, Bombay.

Gopaldas & Co.—C/o Messrs. Narandas Dwarkadas & Co., 411, Cotton Exchange Building, 4th Floor, Kalbadevi Road, Bombay 2.

Gordhandas & Co.—Manekchand Kapurchand Building, Marwari Bazar, Bombay.

Habib & Sons.—111, Esplanade Road Bombay 1.

Hansraj Harji & Sons.—118, Kansara Chawl, Kalbadevi Road, Bombay.

Hasmukhlal & Co.—101, Kalbadevi Road Bombay 2

Hind Mills Ltd.—Indu House, Dougall Road, Ballard Estate, Bombay 1.

Hindoostan Spg. & Wvg. Mills Co., Ltd., The—Sir Vithaldas Chambers, 16, Apollo Street Fort Bombay

Hirji Bharmal—27, Chinch Bunder Road, Bombay 9.

Hirji Nensey & Co.—7-11, Elphinstone Circle, Fort, Bombay

Husein Mussa Virjee & Co.—Sheriff Hassam Building, Khoja Mohalla, Bombay 9.

Indermani Pyardal Gupta & Co.—207 Kalbadevi Road, Bombay.

India Corporation Ltd.—Indian Globe Chambers, Fort Street, Fort, Bombay.

India Cotton Supplies Private Ltd.—Pupro House Hornby Road, Bombay 1

India United Mills Ltd.—Indu House, Dougall Road, Ballard Estate, Bombay 1.

INTERNATIONAL COTTON CORPORATION, PRIVATE LTD.—Indian Globe Chambers, Fort Street, Bori Bunder. Post Box 1574. Grams: "INTERCOTCO," Phones: 262966 and 262594. Cotton Merchants, Importers and Exporters.

Indian Manufacturing Co. Ltd., The—Sir Vithaldas Chambers, 16, Apollo Street, Fort, Bombay

Issardas R. V., 31, Queen's Road, Bombay 4.

Italindia Cotton Co. Ltd.—Indian Globe Chambers, Bori Bunder, Bombay 1.

Jagjivandas Kasturchand & Co., 515 Cotton Exchange, Kalbadevi Road, Bombay No. 2

Jagjiwan A. Co., C. V. C/o Mr. Chanpaklal Vadilal, Jagmohan Mansion, Bhatt Wadi Sandhurst Road, Bombay No. 4

Jagjiwandas Dosabhai & Co., C. V. C/o Messrs. Narsondas Manordass, 135, Sheikh Memon Street, Bombay 2

Jagmohan Mangal Co.—Room No. 505, Cotton Exchange, Marwari Bazar, Bombay 2

Jairam & Company, C/o Oriya Building, 2nd Floor, Masjid Bunder Road, Bombay 3

Jam Mfg. Co. Ltd., The—Lalbaug, Parel, Bombay

Jam Shri Ranjitsinghji Spg. & Wvg. Mills Co., Ltd., The—11, Bank Street, 3rd Floor, Fort, Bombay.

James Finlay & Co., Ltd.—Chartered Bank Buildings, Esplanade Road, Fort, Bombay.

Jamnadas Lakhmidas & Co.—C/o Messrs. Liladhar Karsandas & Co., Agakhan Building, Dalal Street, Fort, Bombay

Jamnadas Parbhudas & Co.—"Prabhu Bhuvan," Girgaon Back Road, Bombay.

Jamnadas Ruttonsey & Co.—Bell & Co's Building, Sir Phirozshah Mehta Road, Fort, Bombay.

Jamshed N. Ratnagar & Son.—C/o Messrs. Breul & Co., Taj Building Hornby Road, Fort, Bombay.

Jayantilal Thakordas & Co.—Arvind House, New Charni Road, Bombay 4.
Jivandas Ladha & Co.—Nanjee Building, 3rd Floor, 17B, Elphinstone Circle, Fort, Bombay 1.
Jivandas Ladha & Co.—17B, Elphinstone Circle, Nanjee Bldg., 3rd Floor, Fort, Bombay.
Jivraj Motiram & Co.—62, Marwari Bazar, Bombay 2.
Kalidas & Co.—195, Samuel Street, Bombay 9.
Kalyanji & Co.—523, Cotton Exchange Building, Kalbadevi Road, Bombay 2.
Kamala Mills, Ltd.—Kilachand Devchand Bldg., 45-47, Apollo Street, Bombay.
Karsandas Jivandas.—31, Forbes Street, Fort, Bombay 1.
Kekushroo & Co.—York Building, Hornby Road, Fort, Bombay.
Khandesh Spg. & Wvg. Mills Co., Ltd., The.—Cambata Building, 42, Queen's Road, Fort, Bombay.
Khatau Makanji Spg. & Wvg. Co., Ltd., The.—Laxmi Building, 42, Ballard Pier, Fort, Bombay.
Khetsey & Co. Private—C/o. Shroff Cooper & Co. Bombay Stock Exchange Building, 3rd Floor.
Khimji Chheda & Co.—C/o The Berar Mfg. Co. Ltd., Rajabahadur Mansion, 24B, Hamam Street, Fort, Bombay 1.
Khimji Damji & Co.—4th Floor, Mulji Laxmidas Building, 3, Mint Road, Fort, Bombay.
Khimji Poonja & Co.—1st Floor, Wadia Building, 19/21, Dalal Street, Fort, Bombay 1.
Khimji Visram & Co.—192, Kitab Mahal, 2nd Floor, Hornby Road, 2nd Floor, Fort, Bombay 1.
Khushiram Beharilal & Co.—390, Sheikh Memon Street, Bombay 2.
Kilachand Devichand & Co., Private Ltd.—45-47, Apollo Street, Fort, Bombay.
Kishan Prasad & Co., Ltd.—3rd Floor, Jiji House, 15, Ravelin Street, Fort, Bombay No. 1.
Kishinchand Chellaram.—Gazdar House, Dhobi Talao, Bombay 2.
Kishor Natverlal & Co.—70, Forbes Street, Fort, Bombay 1.
Kisonlal Marfatia & Co.—38, Cawasji Patel Street, Fort, Bombay.
Kohinoor Mills Co., Ltd. The.—Home Street, Fort, Bombay.
Kotak & Co.—Menkwa Building, Outram Road, Fort, Bombay 1.
Kooverjee V. Currumsey & Co.—Lentin Chambers, Dalal Street, Fort, Bombay.
Kotak & Company (Calcutta).—Navsari Building, Hornby Road, Bombay.
Kotecha & Co.—Commissariat Bldg., 231, Hornby Road, Fort, Bombay.
Kothari Trading Co.—428, Kalbadevi Road, 2nd Floor, Bombay.
Lakhmichand & Co.—Neptune Building, 166, Hornby Road, Bori Bunder, Bombay.
Lakhamsey Manek & Co.—R.N. 28, Patwa Chawl, Zaveri Bazar.
Lalchand Nagardas & Co.—606, Cotton Exchange Building, Kalbadevi Road, Bombay.
Lalji Deokaran & Co.—Deokaran Niwas, Tulsidas Surji's House, 283, Samuel Street, Vadgadi, Bombay No. 3.
Lalji Naranji & Co.—Ewart House, Tamarind Lane, Fort, Bombay.
Lalji Ramji & Co.—17, Chinch Bunder Road, Bombay No. 9.
Lalji Thakersey & Co.—Mulraj Khatau House, 12, Chinch Bunder Road, Mandvi, Bombay No. 9.
Lallubhai Nagardas & Sons.—Old Stock Exchange Building, Dalal Street, Fort, Bombay, 1.
Laxmi Cotton Traders.—10, Bruce Street, 2nd Floor, Fort, Bombay 1.
Laxmidas Madhavji & Co.—Ratnagiri House, Dadyseth 2nd Cross Lane, Chowpatty, Bombay.
Laxmilal Sakhlecha & Co.—Bharucha Building, 460, Kalbadevi Road, Bombay 2.
Liladhar Karsondas & Co.—Aga Khan Building, Dalal Street, Bombay.
Lohia Sultania Company.—Anand House, 158/64, Kalbadevi Road, Bombay 2.
Loknath Tibrewala & Co.—11, Krishna Bhuvan, Bhuleshwar, Bombay 2.
Lukhmidass & Co.—24, Elphinstone Circle, Fort, Bombay.
Madhavdas Amersey & Co.—Feltham House, 10, Graham Road, Ballard Estate, Bombay.
Madhavlal, S., & Co.—Noble Chambers, Parsi Bazar Street, Fort.
Mafatlal Gagalbhai & Co. Private Ltd.—Mafatlal House, Back Bay Reclamation.
Maganlal & Co.—C/o Messrs. Narandas Dwarkadas & Co., 411, Cotton Exchange Bldg., Kalbadevi Road, Bombay.
Mahendra Muraj & Co.—31, Forbes Street, Bombay 1.
Mahipatrai Jadavji & Co.—Chinai Building, Masjid Bunder Road, Bombay No. 3.
Manalal Bhagirathdas & Sons.—C/o Messrs. Laxminarayan Manmukhrai & Co., Govind Chawk, Mooljl Jetha Market, Bombay No. 2.
Manilal Patel & Co.—Kamer Building, Cowasji Patel Street, Fort, Bombay 1.
Manharlal, K., & Co.—19, Chinch Bunder.
Mehta & Co.—Yusuf Building, 2nd Floor, 43, Mahatma Gandhi Road, Bombay No. 1.
Mehta & Co., H. M.—Mehta House, Apollo Street, Fort, Bombay.
Mohanlal Lallubhai & Co.—C/o Mr. Hirachand Dayal, Vithal Sadan, 3rd Floor, Room No. 80/90, 342, Kalbadevi Road, Bombay 2.
Mohanlal Motilal.—Yusuf Building, Mahatma Gandhi Road, Fort, Bombay 1.
Mooljee Jaitha & Co.—185, Princess Street.
Motabhoy Gulabdas & Co.—Bharat House, 104, Apollo Street, Fort, Bombay 1.
Moolchand Vissonji & Co.—C/o Messrs. Liladhar Karsondas & Co. 9, Dalal Street, Agakhan Bldg., Fort, Bombay.
Murlidhar & Co.—4th Floor, Madan Mansion, 57-59, Sheikh Memon Street, Marwari Bazar, Bombay No. 2.
Nanji & Co., C.—406, Cotton Exchange Building, Kalbadevi Road, Bombay 2.
Nansey & Co., T. H.—7-11, Elphinstone Circle, Fort, Bombay.
Narandas Dwarkadas & Co.—Cotton Exchange Building, Room No 411, Kalbadevi Road, Bombay.
Narandas Rajaram & Co., Ltd.—Navsari Chambers, Outram Road, Fort.
Narayandas Pokarmal Co.—Bullion Exchange Building, Bombay No. 2.
Narbheram Naranjee & Sons.—709, Cotton Exchange Building, 7th Floor, Kalbadevi Road, Bombay.
Narendrakumar R. Kanji & Co.—116, Keshavji Naik Road, 2nd Floor, Bombay 9.
Narsee Nagsee & Co.—French Bank Building, 62, Homji Street, Fort, Bombay 1.
Nathalal Bechardas & Co.—809, Cotton Exchange Building, Marwari Bazar, Bombay No. 2.
Nathmal Somani & Co.—158/64, Anand House, 4th Floor, Kalbadevi Road, Bombay 2.
Natverlal Chandulal & Co.—Navsari Chambers, Outram Road, Fort, Bombay.
Navnitlal Chunilal Shah.—37, Marwari Bazar, Bombay.
Navpush & Co.—37, Marwari Bazar, Bombay 2.
Nevatia Brothers.—C/o Messrs. Hardayal Nevatia, 3rd Floor, Marwari Chamber Building, 226, Kalbadevi Road, Bombay.
New City of Bombay Mfg. Co. Ltd.—Brady House, Veer Nariman Road, Fort, Bombay 1.
New Great Eastern Spg. & Wvg. Co. Ltd.—Brady House, Veer Nariman Road, Fort, Bombay 1.
Odhavjee Shivjee & Co.—Room No. S-48, Cotton Green Bldg., Sewri, Bombay No. 15.
Onkarmal Meghraj & Co.—Bullion Association Bldg., 3rd Floor, Sheikh Memon Street, Bombay 2.
Parakh & Co. (India) Private Ltd., C.—28, Apollo Street, Fort, Bombay.
Parmanand Manekial & Co.—Maskati Mahal, Lohar Chawl.
Parsram Parumal & Co.—104-114, Frere Road, 7, Sugar Market, Bombay No. 9.
Patel Brothers.—Elphinstone Building, 10, Churchgate Street, Fort, Bombay.
Patel Cotton Co. (Private) Ltd.—Elphinstone Building, Veer Nariman Road, Fort, Bombay 1.
Patel Cotton Co., Ltd., The.—New Cotton Depot, Sewree.
Pavri, J. K.—10, Karim Chambers, Hamam Street, Fort.
Phoenix Mills Ltd.—State Bank Building Annexe, Bank Street, Fort, Bombay 1.
Podar Brothers.—384M, Kalbadevi Road, Bombay 2.
Podar Mills Ltd., The.—Podar Chambers, Parsee Bazar Street, Fort, Bombay.
Podar Trading Co., Private Ltd., The.—Podar Chambers, Parsee Bazar Street, Fort, Bombay.
Poddar & Co., A. M.—32, Rampart Row, Fort.
Pranjiwandas Dwarkadas & Co.—C/o Messrs. Hariprasad Amritlal's Jetha, Iron Jetha, Carnac Bunder, Bombay No. 3.
Premchand Trading Ltd.—7, Dhanji Street, Bombay 3.
Premji Haridas & Co.—Bhanushali Chambers, 168, Argyle Road, Bombay 9.
Punjab Cloth Mills Ltd.—Bullion Exchange Building, Zaveri Bazar, Bombay 2.
Purshotam Govindji & Sons.—612, Cotton Exchange, Marwari Bazar, Bombay 2.
Pyaralal Gupta & Co.—207, Kalbadevi Road, Bombay 2.
Radhakishan Anandeshwar.—2nd Floor, Bullion Assn. Building, Bombay 2.
Raghavji Kanji & Co.—116, New Chinch Bunder Road, Bombay.
Rajnikant & Co., C.—C/o Messrs. Chaitanyalal & Co., 808, Cotton Exchange Building, Kalbadevi Road, Bombay 2.

Rallis India Limited.—21, Ravelin Street, Fort, Bombay.

Ramkisandas Sagarmal.—Kalyan Bhuvan, 354, Kalbadevi.

Ramakishan Totla & Co.—Girdhar Jiva Building, 2nd Floor, Bhuleshwar, Bombay 2.

Ramanlal & Sons.—Babulal Mansion, Chowpatty Sea Face, Bombay 7.

Ramirldas Nandlall.—Wakefield House, 3rd Floor, Sprott Road, Ballard Estate.

Ramchandra Satyanarain.—43, Ram Wadi, 3rd Floor, Bombay 2.

Ramchandra Hanuman & Co.—144-46, Kalbadevi Road, 3rd Floor, Bombay No. 2.

Ramdas Dossa & Co.—Cotton Exchange Building, Kalbadevi Road, Bombay No. 2.

Ramdas Khimji Brothers.—Warden House, 2nd Floor, Sir Pherozshah Mehta Road, Fort, Bombay.

Ramdas Tulsidas & Co.—36, Marwari Bazar, Bombay.

Ramdayal Somani & Co.—158-164, Kalbadevi Road, Opp. Cotton Exchange Building, Bombay.

Ramkumar & Co.—C/o Messrs. Basesarlal Bubbna, 259, Kalbadevi.

Ramnarain Son, Private Ltd.—Imperial Bank Bldg., Bank St., Fort, Bombay 1.

Ramrikhdas Perasram Puria & Co.—Rajmahal, Bhuleshwar, Bombay.

Ramsarup Gupta & Co.—705, Cotton Exchange, Kalbadevi Road, Bombay 2.

Ranchhoddas Khimji & Co.—288, Narshi Natha Street, Bombay 9.

Ranchhoddas Purshotam & Co.—406, Cotton Exchange, Marwari Bazar, Bombay 2.

Roshlal Chandrakant & Co.—2nd Floor, Rustom Building, Veer Nariman Road, Bombay 1.

Ratansey K. Khona.—Noble Chambers, 116, Parsi Bazar Street, Fort, Bombay.

Ratilal & Co.—1-3, Bhuleshwar Corner, Bombay.

Raw Cotton Co. Ltd.—111, Mahatma Gandhi Road, Fort.

Robertson & Son, Edward T.—Lakshmi Building, Sir Phirozshah Mehta Road, Fort, P. B. No. 806, Bombay.

Rodocanachi & Co.—Jiji House, 17, Ravelin Street, Fort.

R. Popatlal & Co.—17, Tara Mansion, opp. Rly. Station, Bombay 19.

Ratilal K. Patel—Sangli Building, Bazar Gate Street, Fort, Bombay 1.

Rustomji Framji & Co.—C/o Messrs. Chatarbhuj Piramal, 60, Marwari Bazar, Bombay.

Sant Ram & Sons Ltd.—77, Medows Street, Fort.

Satyanarayan Sekhsaria & Co.—19, Bhuleshwar, Bombay 2.

Savaklas Madhavadas.—Prospect Chambers Annexe, Dadabhoy Naoroji Road, Fort, Bombay 1.

Sekseria Cotton Mills, Ltd.—139, Medows Street, Fort, Bombay.

Sethia B. K. (India) Private Ltd.—Himalaya House, Palton Road, Bombay 1.

Shah Sarabhai Hatising.—Maskati Mahal, Lohar Chawl, Bombay 2.

Shobhachand Jethabhai & Co.—C/o Messrs. Chandulal Kasturchand Shah 506, Cotton Exchange, Marwari Bazar, Bombay No. 2.

Shahapur Spg. & Wvg. Co., Ltd., The.—Standard Bldg., 346, Hornby Road, Fort, Bombay.

Shree Niwas Cotton Mills, Ltd., The.—DeLisle Road, Parel, Bombay No. 13.

Shree Madhav Mills Ltd.—Foras Road, Bombay 8.

Shree Ram Mills Ltd.—Fergusson Road, Parel, Bombay 13.

Shree Sitaram Mills, Limited.—15A, Elphinstone Circle, Fort, Bombay.

Shroff Cooper & Co.—67, Stock Exchange Building, Apollo Street, Fort, Bombay 1.

Sree Krishna Trading Co., Ltd.—11, Alli Chambers, Medows Street, Fort.

Swadeshi Mills Co. Ltd.—Bombay House, Bruce Street, Fort, Bombay 1.

Swadeshi Cotton Mills Co. Ltd.—357, Kalbadevi Road, Bombay 2.

Swan Mills, Ltd., The.—Chartered Bank Building, Esplanade Road, Fort, Bombay.

Tata Mills, Ltd., The.—Bombay House, 24, Bruce Street, Fort, Bombay.

Thakersey Chunilal Parikh & Co.—C/o Messrs. Amulakh Amichand, R. No. 810-811 CTNEXGE.

Tiwari & Co.—15, Bullion Exchange, Bombay No. 2.

Trambaklal Uttarwar & Co.—Bansilal Abirchand Building, 1st Floor, 18, Marwari Bazar, Bombay 2.

Universal Cotton Trading Co., The.—Bombay Mutual Building, Hornby Road, Fort, Bombay.

Vakharia Bros.—R. No. 410, CTNEXGE.

Valji Ludha & Co.—Valji Vurdhaman's House, Opp. Police Chowki, 288, Dongri Street, Mandvi, Bombay.

Vallabhdas Dayal & Sons.—E. D. Sassoon Building, Ballard Estate, Fort, Bombay.

Vasonjee Morarjee.—Ewart House, Bruce Street, Fort, Bombay 1.

Vasanji Mavji & Co.—27, Chinch Bunder, Bombay, 9.

Vassanji Sons & Co. Private Ltd.—9, Wallace Street, Fort, Bombay.

Vasantlal & Co., C.—Commissariat Bldg., 5th Floor, 231, D. Naoroji Road, Bombay No. 1.

Vassonji Khimji & Co.—C/o Chandulal Keshavlal Shah, 88, Masjid Road, Bombay No. 9.

Vinaya Trading Co. Ltd.—State Bank Building Annexe, Bank Street, Fort, Bombay 1.

Viram Ladha & Co.—288, Narsee Natha Street, Bombay 9.

Virji Ladha & Co.—57-59, Chinch Bunder Road, Mandvi, Bombay.

Vishindas Pribhdas & Co.—57-59, Madan Mansion, Marwari Bazar, 5th Floor, Bombay.

Volkart Brothers.—Volkart Building, Graham Road, Ballard Estate, Bombay 1.

Vrajlal Purshotam & Brothers.—Yusuf Bldg., 4th Floor, Mahatma Gandhi Road, Fort, Bombay 1.

Vulabhdas Narandas & Co.—C/o Messrs. Govindji Bhanji, 1st Floor, Shanti Bhuvan, Old Hanuman Lane, Bombay.

Western India Spg. & Mfg. Co., Ltd., The.—Sir Vithaldas Chambers, 16, Apollo Street, Fort, Bombay.

COTTON MILLS

Apollo Mills, Ltd.—Agents, Rajputana Textiles (Agencies) Ltd., DeLisle Road, Chinchpokli. Spindles: 56,468 and Looms 898.

Beharilal Ramcharan Cotton Mills Ltd. (formerly Meyer Mills Ltd.).—Managed by Board of Directors, Empire House, Dr. Dadabhoy Naoroji Road, Bombay. Mills at Fergusson Road, Lower Parel. Spindles: 50,596 and Looms 1,021.

Bombay Dyeing & Manufacturing Co., Ltd. (Spring Mills).—Agents, Nowrosji Wadia & Sons Private Ltd., Neville House, Graham Road, Ballard Estate, Bombay. Mills at Naigaum Road, Dadar. Spindles: 137,060 and Looms 2,015.

Bombay Dyeing & Manufacturing Co., Ltd. (Textile Mills).—Agents, Nowrosji Wadia & Sons Private Ltd., Neville House, Graham Road, Ballard Estate, Bombay. Mills at Elphinstone Road, Parel. Spindles: 86,400 and Looms 1,631.

Bradbury Mills, Ltd.—Agents, Ramnarain Sons, Ltd., State Bank Bldg., Bank Street, Fort. Mills at Ripon Road, Jacob Circle. Spindles: 44,784 and Looms 860.

Century Spinning & Manufacturing Co., Ltd. (Century Mill and Zenith Mill). Agents, Birla Bros. Private Ltd., Industry House, 159, Churchgate Reclamation. Mills at Globe Mill Passage, Worli. Spindles: 126,752 and Looms 2,696.

Colaba Textile Private Ltd. (Formerly Colaba Land & Mill Co., Ltd.)—Mg. Director, Mr. V. J. Pilani. Office on Mill premises. Mills at Victoria Bunder, Colaba. Spindles: 39,408 and Looms 698.

Colaba Land & Mill Co., Ltd. (Jehangir Wadia Mill).—Mg. Director, Mr. V. J. Pilani. Office on Mill premises. Mills at Victoria Bunder, Colaba. Spindles: 11,376.

Cooria Spinning & Weaving Co., Ltd.—Secretaries, Treasurers & Agents, Messrs. Cowasjee Jehangir & Co., Private Ltd., 23, Ready-money Mansion, Vir Nariman Road. Mills at Cooria. Spindles: 30,948 and Looms 680.

Crown Spinning & Manufacturing Co., Ltd. (formerly Dhun Mills).—Secretaries, Treasurers & Agents, Purshotam Vithaldas & Co., Sir Vithaldas Chambers, Apollo Street, Fort. Mills at New Parbhadevi Road, Parel. Spindles: 56,500 and Looms 1,106.

Dawn Mills Co., Ltd.—Agents, Ramnarain Sons Ltd., State Bank Bldg., Bank Street, Fort. Mills at Fergusson Road, Lower Parel. Spindles: 41,328.

Dhanraj Mills, Ltd. (formerly Assur Virji Mills, Ltd.).—Agents, Ramgopal Ganpatrai & Sons, Private Ltd. Office on Mill premises. Mills at Sun Mill Road, Lower Parel. Spindles: 37,052 and Looms 786.

Digvijaya Spinning & Weaving Co., Ltd. (formerly Dinshaw Petit Mills).—Agents, Jethabhai Khatau & Co. (Agencies) Ltd. Office on Mill premises. Mills at Lalbaug, Parel. Spindles: 44,980 and Looms 1,173.

Edward Textiles, Ltd.—Agents, Puranmal Bubna Sons. Indu House, Dougall Road, Ballard Estate, Fort. Mills at Fergusson Road, Lower Parel. Spindles: 42,668 and Looms 988.

Elphinstone Spinning & Weaving Mills Co., Ltd.—Managed by Board of Directors, Kamani Chambers, 32, Nicol Road, Ballard Estate, Bombay. Mills at Elphinstone Road, Parel. Spindles: 45,996 and Looms 886.

Finlay Mills, Ltd.—Agents, James Finlay & Co., Ltd., Chartered Bank Buildings, Fort. Mills at Government Gate Road, Parel. Spindles: 52,528 and Looms 784.

Gold Mohur Mills, Ltd.—Agents, James Finlay & Co., Ltd., Chartered Bank Building, Fort. Mills at Main Road, Dadar. Spindles: 45,768 and Looms 1,018.

Hind Mills Ltd. (formerly David Mills Co., Ltd.) (Mills Nos. 1 and 2).—Agents, Hind Agents Ltd., 15, Indu House, Dougall Road, Ballard Estate, Fort. Mills at Carroll Road, Parel. Spindles: 71,500 and Looms 1,364.

Hindoostan Spinning & Weaving Mills Co., Ltd.—Agents, Thackersey Mooljee & Co., Sir Vithaldas Chambers, Apollo Street, Fort. Mills at Ripon Road, Jacob Circle. Spindles: 43,080 and Looms 1,120.

Indian Manufacturing Co., Ltd.—Agents, Damodar Thackersey Mulji & Co., Sir Vithaldas Chambers, Apollo Street, Fort. Mills at Lamington Road, North, Jacob Circle. Spindles: 56,784 and Looms 1,152.

India United Mills, Ltd., Mill No. 1 (formerly Jacob Mill).—Agents, Agarwal & Co., Dougall Road, Ballard Estate, Fort. Mills at Suparibaug Road, Parel. Spindles: 95,160 and Looms 2,228.

India United Mills Ltd., Mill No. 2 (formerly Alexandra Mill).—Agents, Agarwal & Co., Dougall Road, Ballard Estate, Fort. Mills at Ghorupdeo Road, Chinchpoogly. Spindles: 35,880 and Looms 742.

India United Mills Ltd., Mill No. 3 (formerly E. D. Mill).—Agents, Agarwal & Co., Dougall Road, Ballard Estate, Fort. Mills at Ghorupdeo Road, Chinchpoogly. Spindles: 84,660 and Looms 752.

India United Mills, Ltd., Mill No. 4 (formerly Rachel Mill) (formerly Hongkong Mills).—Agents, Agarwal & Co., Dougall Road, Ballard Estate, Fort. Mills at Chinchpoogly Road, Kalachowki. Looms 1,872.

India United Mills, Ltd., Mill No. 5 (formerly Manchester Mill).—Agents, Agarwal & Co., Dougall Road, Ballard Estate, Fort. Mills at Chinchpoogly Cross Lane, Kalachowki. Spindles: 28,450 and Looms 684.

Jam Mfg. Co., Ltd., Mill No. 1.—Secretaries, Treasurers and Agents, Tricumdas Vandravan & Co. Office on Mill premises. Mills at Lalbaug, Parel. Spindles: 35,940 and Looms 1,060.

Jam Mfg. Co., Ltd., Mill No. 2 (formerly Birla Mills, Ltd. No. 2).—Secretaries, Treasurers & Agents, Tricumdas Vandravan & Co., Lal Baug, Parel. Mills at Tokersey Jivraj Road, Sewree. Spindles: (burnt by fire) and Looms 97 (Not Working).

Jubilee Mills, Ltd.—Secretaries, Treasurers and Agents, Chamanlal Mehta & Co. Private Ltd., Bharat House, Apollo Street, Fort. Mills at Tokersey Jivraj Road, Sewree. Spindles: 34,584 and Looms 748.

Kamala Mills, Ltd. (formerly Ebrahimbhoy Pabaney Mills).—M. L. Tapuriah, Esq., Director. Office: Kilachand Devchand Building, Apollo Street, Fort. Mills at Tulsi Pipe Road, off DeLisle Road. Spindles: 56 976 and Looms 1,055.

Khatau Makanji Spinning & Weaving Co., Ltd.—Agents, Khatau Makanji & Co., Ltd., Laxmi Buildings, 6, Ballard Pier, Fort. Mills at Haines Road, Byculla. Spindles: 99,844 and Looms 1,487.

Kohinoor Mills Co., Ltd., Mill Nos. 1, 2 & 3.—Agents, Killick Industries, Ltd., Killick Building, Home Street, Fort. Two Mills at Naigaum Cross Road, Dadar, and third at Lady Jamshedji Road, Dadar. Spindles: 120,604 and Looms 1,566.

SIZING MATERIALS

SPECIALITY

GUMS • TAMARIND • TAPIOCA

IMPORTERS & MANUFACTURERS

LALITKUMAR & CO.

86, Kazi Sayed Street, Bombay 3.

Phone: Office: 34753. Factory: 60380. Grams: "LOVJIT"

Factory:

PANCHSHILA Pulverising Mills, Sewree Cross Road, Wadala, Bombay 31.

Modern Mills, Ltd., Mill No. 1 (formerly Mysore Spinning & Manufacturing Co., Ltd. No. 2).—Agents, N. Sirur & Co., Ltd., Temple Bar Building, 70, Forbes Street, Fort. Mills at Elphinstone Road, Parel. Spindles: 26,464.

Modern Mills, Ltd., Mill No. 2 (formerly Bomanji Petit Mills).—Agents, N. Sirur & Co., Ltd., Temple Bar Building, 70, Forbes Street. Mills at Mahalaxmi. Spindles: 22,536 and Looms 644.

Moon Mills, Ltd.—Managed by Board of Directors, General Assurance Building, Hornby Road, Fort. Mills at Tokersey Jivraj Road, Sewree. Spindles: (burnt by fire). Looms: 875.

Morarjee Goculdas Spinning & Weaving Co., Ltd.—Agents, Messrs. Piramal & Sons. Office on Mill premises. Mills at Suparibaug Road, Parel. Spindles: 71,604 and Looms 1,652.

New City of Bombay Manufacturing Co., Ltd.—Agents, W. H. Brady & Co., Ltd., Brady House, 12-14, Vir Nariman Road, Fort. Mills at 63, Chinchpokly Road. Spindles: 45,944 and Looms 432.

New Great Eastern Spinning & Weaving Co., Ltd.—Agents, W. H. Brady & Co., Ltd., Brady House, 12-14, Vir Nariman Road. Mills at Victoria Gardens Road, Chinchpokly. Spindles: 49,012 and Looms 1,018.

New Kaiser-I-Hind Spinning & Weaving Co., Ltd.—Lala Kailashpat Singhania, Managing Director, J. K. Building, Dougall Road, Ballard Estate, Bombay. Mills at Gorupdeo Road, Chinchpokly. Spindles: 54,052 and Looms 1,267.

New Prahlad Mills (formerly Planet Mills).—Proprietors, Amrit Banaspati Co., Ltd., East and West Building, Apollo Street, Fort. Mills at Ferguson Road, Lower Parel. Spindles: 42,756 and Looms 1,001.

Phoenix Mills, Ltd. (formerly Britannia Mills.)—Agents, Ramnarain Sons, Ltd., State Bank Building, Bank Street, Fort. Mills at Tulsi Pipe Road, Lower Parel. Spindles: 69,208 and Looms 1,190.

Podar Mills, Ltd. (formerly Toyo Podar Cotton Mills, Ltd.)—Agents, Podar Sons Ltd., Podar Chambers, Parsee Bazar Street. Mills at DeLisle Road. Spindles: 32,600 and Looms 930.

Prakash Cotton Mills Private Ltd. (formerly Seksaria Cotton Mill No. 2).—Managed by Board of Directors, Seksaria Chambers, 139, Medows Street, Fort. Mills at Ferguson Road, Lower Parel. Spindles: 28,960 and Looms 586.

RAGHUVANSHI MILLS, LTD.—11-12, Haines Road, Mahalaxmi, Bombay 13. Mg. Agents, Ravindra Maganlal & Co. Private Ltd. Office on Mill premises. Mills at Haines Road, Mahalaxmi, Bombay 13. Phone: 76291/2/3. Grams: "Raghubir". Spindles: 33000. Looms: 220. Manufacturers of Cotton Yarn & Cloth.

Ruby Mills, Ltd. (formerly Sorab Mills).—Agents, Chunilal Jeewandas & Co. Office: 49-55, Apollo Street, Fort. Mills at Woollen Mill Gully, Lady Jamshedji Road, Dadar. Spindles: 20,376 and Looms 430.

Sassoon Spinning & Weaving Co., Ltd.—Agents, M. G. Investment Corporation Ltd., Mafatlal House, Back Bay Reclamation, Bombay 1. Sassoon Mills, at Mount Estate, Mazagon. Spindles: 60,784 and Looms 1,254. 2. New Union Mills, Lower Parel. Spindles: 34,100 and Looms 873.

Seksaria Cotton Mills, Ltd., Mill Nos. 1 & 1A (formerly Currimbhoy and Mohamedbhoy Mills).—Managed by Board of Directors, 139, Medows Street, Fort. Mills at DeLisle Road. Spindles: 72,736 and Looms 1,158.

Shree Madhav Mills Ltd. (formerly Madhavji Dharamsi Mfg. Co. Ltd.)—Agents, Puranmal Radhakishan & Co., Office on Mill premises. Mills at Foras Road. Spindles: 39,264 and Looms [illegible].

Shree Madhusudan Mills.—Proprietors, Messrs. Hall & Anderson Ltd., Shreenivas House, Waudby Road, Fort, Bombay. Mills at Globe Mills Passage, DeLisle Road, Bombay 13. Spindles: 66,816 and Looms 1,640.

Shree Nivas Cotton Mills, Ltd. (formerly Fazulbhoy Mills, Ltd.)—Agents, The Marwar Textiles (Agency), Ltd. Shreenivas House, Waudby Road, Fort, Bombay. Mills at DeLisle Road. Spindles: 77,160 and Looms 1,640.

Shree Ram Mills, Ltd. (formerly Crescent Mills, Ltd.).—Agents, Bhoglal Menghraj & Co., Ltd. Office on Mill premises. Mills at Ferguson Road, Lower Parel. Spindles: 73,260 and Looms [illegible].

Shree Sitaram Mills Ltd. (formerly Sir Shapurji Broacha Mills Ltd.)—Managed by Board of Directors. 15A, Elphinstone Circle, Fort. Mills at DeLisle Road. Spindles: 67,880 and Looms 1,012.

Sayaji Mills Ltd.—Props., Kathwada, Ahmedabad. Sayaji Mills No. 2 (formerly Hirjee Mills, Ltd.).—Mills at Ferguson Road, Lower Parel. Spindles: 47,844 and Looms 886.

SIDHPUR MILLS CO. LTD.—52/54, Nakhoda Street, Pydhonie, Bombay 3. Mg. Agents: Maganlal Parbhudas & Co. Mills at Sidhpur (N.G.), Bombay. Office: 52/54, Nakhoda Street, Pydhonie, Bombay 3. Phone: 29760. Grams: "RAVISUR". Spindles: 29,000, Looms: 400. Manufacturers of Cotton & Staple Yarn and Cotton Piecegoods.

Simplex Mills Company, Ltd.—Agents, Forbes, Forbes Campbell & Co., Ltd., Forbes Building, Home Street, Fort. Mills at Clerk Road, Jacob Circle, Byculla. Spindles: 34,840 and Looms 1,274.

Standard Mills Co., Ltd.—Agents, Mafatlal Gagalbhai & Sons, Mafatlal House, Back Bay Reclamation, Bombay. 1. Standard Mills at Parbhadevi Road, Lower Parel. Spindles: 54,796 and Looms 1,633 2. New China Mills at Sewree. Spindles: 42,792 and Looms 776.

Svadeshi Mills Co., Ltd.—Agents, Tata Industries, Ltd., Bombay House, 24, Bruce Street, Fort. Mills at Kurla. Spindles: 72,236 and Looms 2,000.

Swan Mills, Ltd.—Agents, James Finlay & Co., Ltd., Chartered Bank Building, Hornby Road, Fort. Mills at New Sewree Road. Spindles: 40,328 and Looms 549.

Swastik Textile Mills Ltd.—Managing Agents: Messrs. P. Kashinath & Co., Dubash Market, Sheikh Memon Street, Bombay. Mills at Ferguson Road, Lower Parel. Looms 240.

Tata Mills, Ltd.—Agents, Tata Industries, Ltd., Bombay House, 24, Bruce Street, Fort. Mills at Dadar Road. Spindles: 69,040 and Looms 1,800.

Victoria Mills Ltd. (formerly Satya Mill, Ltd.).—Agents, Mangaldas Mehta & Co., Private Ltd., Bharat House, Apollo Street, Fort. Mills at DeLisle Road, Parel. Spindles: 50,056 and Looms 958.

Western India Spinning & Manufacturing Co., Ltd.—Agents, Thackersey Moolji Sons & Co., Sir Vithaldas Chambers, Apollo Street, Fort. Mills at Kalachowki Road, Chinchpokly. Spindles: 51,136 and Looms 1,212.

COTTON PIECEGOODS EXPORTERS

Ahmed Ebrahim Bros.—88, Chuckla Street, Bombay 3.

Ahmed Exporters.—Kumud House, 267, Dr. Dadabhoy Naoroji Road, Fort, Bombay.

Arthur Import Export Co.—166, Hornby Road, Fort, Bombay. Phone: 33076. Grams: "FABYARN."

Arvinda Trading Co. Private Ltd. - 105, Apollo, Street, Fort.

Askay & Co. Ltd.—Great Social Building, Sir Phirozshah Mehta Road, Fort, Bombay.

Bajaj Brothers Ltd.—Round Building, Kalbadevi Road, Bombay 2.

Beardsell, W. A., & Co., Ltd.—15-16, Sir Phirozshah Mehta Road, Fort.

Bajraj Gupta & Co.—Niru Villa, 387, Linking Road, Khar.

Bhagwandas Chatrabhuj & Co.—20, Hamam Street, Fort.

B. Narandas & Co. Court House, Carnac Road, Bombay 2.

Bulchand, Co., L.—Moos Building, 510, Kalbadevi Road.

CAWASJI MANCHERJI KAPADIA & SONS.—241-43, Shaikh Memon Street, Post Kalbadevi.

Chimanlal Patel & Co.—174, Hornby Road, Fort.

Chinoobhai & Bros., Ltd.—Churchgate House, Churchgate Street, Fort.

Devidas Mulji Kapadia.—Yusuf Building, Hornby Road, Fort.

Dilaj & Co.—20, Hamam Street, Fort.

Dinanath Sons.—466. Kalbadevi Road, Bombay 2.

D Ram & Co.—Krishna Nivas, New Silk Bazar, P.O Box 2376, Bombay 2.

Gore & Co.—Great Social Building, Sir Phirozshah Mehta Road, Fort.

Govias (India) Ltd.—Bombay Mutual Building, Hornby Road, Fort.

Haji Ahmed Husan & Co.—Topiwala Mansion, Mohamedally Road, Bombay 3.

Harilal Manilal & Co.—346, Kalbadevi Road, Bombay 2.

Hassaram, K. & Co.—New Silk Bazar, Kalbadevi Road.

Hazarat & Co.—Warden House. Sir Phirozshah Mehta Road, Fort.

Himatlal Manilal & Sons.—346, Kalbadevi Road, Bombay 2.

HIND TRADING CO.—226, Kalbadevi Road, Bombay 2. Phone: 29820. Grams: "HISCO". Exporters of Cotton piece goods, Yarn, Oils, Oilseeds, Oilcakes, Pulses, Grains, etc. Importers of Hardware, motor parts & Accessories, Cycles & Parts, Art Silk Yarns, etc.

Hindustan Export & Import Corpn. Ltd.—Albert Building, Hornby Road, Fort.

Hoosein, M. A., & Bros.—Lakshmi Building, Sir Phirozshah Mehta Road, Fort.

India Textile Agencies.—Noble Chambers, Parsi Bazar Street, Fort.

INDIAN ART MUSEUM PRIVATE LTD.—Carnac Bridge, Bombay 3. Phone: 30726. Grams: "INDARTMUSE."

Italindia Cotton Co., Ltd. (Estd. 1922).—Indian Globe Chambers, Fort Street, Fort, Bombay.

Jamnadas Nanjee Mangroiwalla.—63-65, Bazaar Gate Street, Fort.

Jassawala & Co.—R. M., 106, Apollo House, Apollo Street, Fort.

JAYANT TRADING CO.—Sir Vithaldas Chambers, Apollo Street, Fort. Exporters & Importers and Cotton Merchants. Phone: 253016. Grams: "BEACHWAY."

Jesangial V. Shah.—Dwarkesh Gully, 1st Floor Mulji Jetha Market, Bombay 2.

KANTILAL SANGHVI & CO.—Mherwan Building, Sir Phirozshah Mehta Road, Fort. Phone Nos. 253041. Residence: 28185. Grams: "EXPIM."

Kapadia & Co.—19, Sir Phirozshah Mehta Road, Fort, Bombay.

Kapadia Trading Co.—Botawalla Building, New Silk Bazar, Kalbadevi Road.

KESHAVLAL TALAKCHAND (PRIVATE) LTD.—India House, Opp. G.P.O., Fort, Bombay 1. Phone: 261982. Grams: "CHANDRODAY." Branches at Ahmedabad, Sholapur, Coimbatore, Madras and Salem. Agencies at London, Manchester, and Addis Ababa.

Kimatrai & Co., G.—New Silk Bazar, Bomanji Master Road, Bombay 2.

Kishinchand Chellaram.—Guzder House, Dhobi Talao.

Kotak & Co.—Navsari Building, Dr. Dadabhoy Naoroji Road, Fort, Bombay.

Kotecha & Co.—Commissariat Building, 231, Hornby Road, Fort.

K. Metharam.—491-3, Kalbadevi Road.

Krishna Corporation (Bombay) Ltd.—Nanjee Building, 17-B, Elphinstone Circle, Fort.

Mansukhlal Kantilal & Co.—Mulji Jetha Building, 185, Princess Street, Bombay 2.

Mata Lachhmi Company.—Hussani Chambers, Nanabhai Lane, Fort.

MOTIWALLA & SONS PRIVATE LTD.—91, Mohamedali Road, Rangoonwalla Building, Bombay 3. Exporters of Cotton Piecegoods and Yarn of all kinds of textile goods.

Mulraj G. Dungarsey & Co., Ltd.—21, Forbes Street, Fort, Bombay 1.

NAKIMPEX TRADERS.—24, Veer Nariman Road, Bombay 1. Phones: 251681, 252906. Grams: "NAKIMPEX".

Estd. 1940 Phone: 28575

B. NARAINDAS Grams. LILALHAR

Court House, Carnac Road, Bombay 2

EXPORTERS & IMPORTERS

Leading House,—
Specializing in Textile Exports

Associate Concerns at:
SINGAPORE • BANGKOK • HONGKONG
OSAKA (JAPAN) • DJAKARTA

Narandas Rajaram & Co., Ltd.—Navsari Chambers, Outram Road, Fort.

N. M. BROTHERS & CO.—Shreeji Bhuvan, Lohar Chawl, Post Box No. 2163, Bombay.

Patell, P. R., & Co., Ltd.—Mherwan Building, Sir Phirozshah Mehta Road, Fort.

Podar Trading Co., Ltd.—Podar Chambers, Parsi Bazar Street, Fort.

Poonjiajee J. M. Jehanjir, J. P.,—Byramji Mansion. Sir Phirozshah Mehta Road, Fort, Bombay.

Premji Haridas & Co.—Bhanushali Chambers, Argyle Road, Bombay 9.

RAJMAL PAHARCHAND.—81, Dadajee Dhackjee Bldg., Worli, Bombay 18. Phone: 75282. Grams: "RANIVOILE". Exporters & Importers of all Varieties of Cotton & Rayon Textiles and Yarns.

Ramdas Khimji Bros.—Warden House, Sir Phirozshah Mehta Road, Fort.

Ramjee Samjee Virani (India) Ltd.—185, Bazargate Street, Fort.

Ramchand Ambiram.—Above Govind Chowk, M. J. Market, Bombay 2.

Rowe & Rowe.—381, Hornby Road, Fort.

Seabee Export Import Co.—9, Waudby Road, Fort. Phone: 34678.

Shree Krishna Trading Co., Ltd.—11, Alli Chambers, Medows Street, Fort.

Steel Brothers & Co., Ltd.—Allahabad Bank Building, Apollo Street, Fort.

SUDAN TRADING CO.—Dhan-Nur, Sir Phiroshah Mehta Road, Bombay 1. Phones: Office: 262788; Res.: 62069. Grams: "VANSOBHA."
Tarachand Pararam.—Court House, Carnac Road, Bombay 2.
Tavaria Brothers.—Dhan-Nur, Sir Phiroshah Mehta Road, Fort.
Todi & Co.—41, Hamam Street, Fort, Bombay.
Trading Co., L. B.—Navsari Chambers, opp. Lloyds Bank, Fort.

TRANS-UNION COMMERCIAL CORPORATION PRIVATE LTD.—Prospect Chambers Annexe, 319, Dr. Dadabhai Naoroji Road, Fort, Bombay. Grams: "TRANSMETER." Phone: 251610.

Trinity Industrial Corporation.—Khandelwal Bhavan, 166, Dr. Dadabhai Naoroji Road, Fort, Bombay 1.
Tulsidas V. Patel.—Morarji Goculdas Market, Kalbadevi Road, Bombay 2.
T. Vrajlal & Co.— 405, Kalbadevi Road, Bombay 2.
Utoomal & Assudamal Co.—Bombay Mutual Annexe, Gunbow Street, Fort.
Valibhai Kumruddin.—101, Abdul Rehman Street, Bombay 3.
Vaswani (India) Ltd.—496, Kalbadevi Road, Bombay 2.
Velji Kalidas & Sons.—90-92, Khand Bazar, Mandvi, Bombay 3.
Windmere (India) Ltd.—Sir Vithaldas Chambers, 16, Apollo Street, Bombay.
Yacoob Ahmed Brothers. (ESTD. 1895).—Topiwalla Mansion, Mohamedali Road.

COTTON PIECEGOODS IMPORTERS

Allied Exporters.—Kumud House, 267, Dr. Dadabhoy Naoroji Road, Fort, Bombay.
Arthur Import Export Co.—166, Hornby Road, Fort, Bombay. Phone: 33076. Grams: "FABYARN."
Kapadia & Co.—19, Sir Phiroshah Mehta Road, Bombay 1.
Mahendraial, B.—Muljee Jetha Market, Dwarkeah Gully, Bombay 2. Cotton, Woollen and Art Silk and Piece-goods, Merchants and Importers.
Windmere (India) Ltd.—Sir Vithaldas Chambers, 16, Apollo Street, Bombay.

COTTON AND YARN MERCHANTS

Amersey & Sons.—Feltham House, Ballard Estate.
Askay & Co. Ltd.—Great Social Building, Sir Phiroshah Mehta Road, Fort, Bombay.
Associated Services, Ltd.—Alli Chambers, Medows Street, Fort.
Bhaidas Cursondas & Co.—Sir Vithaldas Chambers, 16, Apollo Street, Fort.
Bhaidas Mawji & Co., Ltd.—Neptune Building, 166, Hornby Road, Fort.
Bombay Co., Ltd.—9, Wallace Street, Fort.
Bombay Import & Export Agency.—Cama House, opp. Lloyds Bank, Hornby Road, Fort.
Breul & Co.—Taj Building, Hornby Road, Fort.
Champaklal R. Sheth.—Khetwadi 9th Lane, Bombay 4.
Chimanlal Mohanlal & Co.—Hanuman Building, Tamba Kanta, Pydhownie.
Chinubhai Madhowlal & Co.—Noble Chambers, Parsi Bazar Street, Fort.
Drennan & Co.—Neville House, Currimbhoy Road, Ballard Estate.
Finlay, James, & Co., Ltd.—Mahatma Gandhi Road, Fort.
Gill & Co.—E. D. Sassoon Building, Dougall Road, Ballard Estate.
Goculdass Dossa & Co.—55, Apollo Street, Fort.
Greaves Cotton Co., Ltd.—1, Forbes Street, Fort.
Haji Jiva Haji Khamisa & Co.—119-139, Tamba Kanta, Mumbadevi Road.
Hansraj Harji & Sons.—118, Kansara Chawl.
Hirji Nensey & Co.—Horniman Circle, Fort.
Jassawalla, R. M., & Co.—105, Apollo Street, Fort.
Jaybharat Yarn Trading Co.—77, Tamba Kanta, Bombay 3.
Kanji Shivji & Co.—Cotton Exchange, Sewree.
Khimji Visram & Sons.—Kitab Mahal, Hornby Road, Fort.
Kilachand Devchand & Co., Ltd.—45/47, Apollo Street, Fort.
Kishinchand Chellaram.—Gasdar House, Dhobi Talao.
Kooverjee V. Curumsey & Co.—Lentin Chambers, Dalal Street, Fort.

KOTAK & CO.—Navsari Building, Dr. Dadabhoy Naoroji Road, Fort, Bombay. Grams: "KOTAKANDCO." Phone Nos. 262331-262332-262333.

Lalji Ramji & Co.—17, Chinch Bunder, Mandvi.
Louis Dreyfus & Co.—Nicol Road, Ballard Estate.
Madhavdas Amersey & Co.—Oriental Building, Mahatma Gandhi Road.
Motabhoy Gulabdas & Co.—Mubarak Manzil, 104, Apollo Street, Fort.
Naaji V. Dossa & Co.—Jan Mansion, Sir Phiroshah Mehta Road.
Patel Brothers.—Elphinstone Building, 10, Churchgate Street, Fort.
Patel Cotton Co., Ltd., The.—New Cotton Depot, Sewree.
Patuck Sons & Co.—Ismail Building, Hornby Road, Fort.
Pavri Sons & Co.—96-97, Bazargate Street, Fort.
Raghavji Kanji & Co.—116, New Chinch Bunder Road.
Ralli Brothers, Ltd.—21, Ravelin Street, Fort.
Ramkisandas Sagarmal.—Kalyan Bhuvan, 354, Kalbadevi Road
Ratilal Dayabhai Shah.—Tambakanta, Pydhownie, Bombay 3.
Raw Cotton Co., Ltd.—111, Mahatma Gandhi Road, Fort, Bombay.
Robertson & Son, Edward T.—Lakshmi Building, Sir Phiroshah Mehta Road, Fort.
Sankalchand G. Shah & Co.—Hanuman Building, Tamba Kanta.
Sapt Textile Products (India) Ltd.—J. K. Building, Dougall Road, Ballard Estate.
Sarabhai & Sons.—Prospect Chambers, Hornby Road, Fort.
Sarupchand Prithiraj & Co.—401, Cotton Exchange Building, Kalbadevi Road.
Sassoon, David & Co., Ltd.—Maneckji Wadia Building, 125, Mahatma Gandhi Road, Fort
Sassoon, E. D., & Co., Ltd.—E. D. Sassoon Building, Dougall Road, Ballard Estate.
Sewaram Girdharilal.—354, Kalbadevi Road.
Shewakram & Sons, K.—Next to Kalbadevi Post Office, P. O. Box 2344, Bombay.
Spinner, E., & Co.—8, Tamarind Lane, Fort.
Suleman & Co., Ltd.—27, Koisa Moholla.
Todi & Co.—41, Hamam Street, Fort.
Vadilal Dolatram & Sons.—14, Hanuman Building, Tamba Kanta, Pydhownie.
Virji Ladha & Co.—19, Chinch Bunder.

COTTON WASTE

Adamji Lookmanji & Co.—Rahimtoola House, Homji Street, Fort.
Arvinda Trading Co. Private Ltd.—105, Apollo Street, Fort.
Bajaj Brothers Ltd.—Round Building, Kalbadevi Road, Bombay 2.
Brady, W. H. & Co., Ltd.—Churchgate Street, Fort.
Chunilal & Co.—100, Old Hanuman Lane, Bombay 2. Grams: "COTONWASTE."
Hardacre & Co., J.—Himalaya House, Paltan Road, Bombay 1.

JAFFERBHAI KANJI (PRIVATE) LTD.—Opp. Reay Road Station, Reay Road, Bombay 10. Phone: 41910. Grams: "DERELALLI." Cotton Waste, Hessian & Hoops Merchants.

Jashwantlal Manaklal & Co.—40, Churchgate Street, Fort.
Jehangir J. M. Poonjiajee.—Sir Phiroshah Mehta Road, Fort.
Kotak & Co., Navsari Building, Dr. Dadabhoy Naoroji Road, Fort, Bombay.
Kotecha & Co.—Commissariat Building, 231, Hornby Road, Fort.
Premji Haridas & Co.—Bhanushali Chambers, Argyle Road, Bombay 9.

SAPT TEXTILE PRODUCTS (INDIA) PRIVATE LTD.—Sapt Building, Graham Road, Ballard Estate.

Velji Kalidas & Sons.—90-92, Khand Bazar, Mandvi, Bombay 3.
Voltas Ltd.—19, Graham Road, Ballard Estate, Bombay.
Windmere (India) Ltd.—Sir Vithaldas Chambers, 16, Apollo Street, Bombay.

CROCKERY

Alladin Dhanji.—Vithal Sayana Building, Lohar Chawl.
Bawa Crockeries Ltd.—89, Mohamedali Road, Bombay.
Bombay Potteries & Tile Ltd.—Pipe Road, Kurla, Bombay.
Currimbhoy, L., & Co.—156, Chakla Street, Bombay 3.
Dossa, S. K. & Co.—186, Sheriff Devji Street (Chakla), Bombay 3. Phone: 39248.

HAMIR JAMAL & COMPANY.—Laleingh Building, Lohar Chawl, Bombay 3. Phone No. 24763. Grams: "CRITERION".

Kanthawala, N., & Co.—77, Medows Street, Fort.
Matani Bros.—84, Mahomedally Road, Bombay 3.
Moosa Omer & Co.—Junction of Mahomedally Road & Carnac Road
Saify Glass Palace.—Ebrahim Building, Mohamedally Road.
Salemahomed Padamsee & Co.—401, Sheriff Devji Street, Bombay 3.
Shivji, K. S., & Co.—144/146, Chakla Street, Bombay 3.
United Glass Works.—111, Bhandari Chakla Street, Bombay 3.

CRUCIBLES MANUFACTURERS

Choksi Brothers.—815, Sandhurst Road, Bombay 4.

INDIAN CRUCIBLE CO., THE—Manufacturers of highly Refractory Crucibles. Head Office: A/9/252, Sardar Vallabhbhai Patel Road, Bombay 4. Phone: 71538. Grams: "RUTTEROOF." Factory at 4, Ghodbunder Road, Malad. Phone: 84128.

K. B. GHANDHI & CO.—277, Sardar Valabhbhai Patel Road, Bombay 4. Phone: 76663. Sole Agents in India for: Famous 'GLORIA' Brand German made Crucibles used in Pit & Tilting Furnaces. Largest Stockists of the Morgan's & Carborundum Crucibles, Foundry Plumbago, Polishing goods and all kinds of Heavy Chemicals, etc.

NADIRSHAW BURJORJI & SONS.—47, Abdul Rehman Street, Bombay 3. Phone: 28930.

P. Ratilal & Co.—43, Dhanji Street, Bombay 3.

THE LAXMI TRADING CO.—274, Sardar Valabhbhai Patel Road, Bombay 4.

CURIO DEALERS

CARPETS PALACE.—Opp. Tajmahal Hotel, Mereweather Road, Bombay 1. Exporters, Brass, Ivory & Wood Carvings, Carpets & Rugs and all other Indian Handicrafts.

Chinese Museum.—Radio House, Apollo Pier Road, Fort.

"DECORA" RAVAL TILES & MARBLE PRIVATE LTD.—Edena, 97-A, Queen's Road. Phone: 242310.

Eclipse Jewellery & Curio.—Next to Regal Cinema, Museum.
Grand Bazar.—25, Colaba Causeway, Bombay 1.
Hotchand Motumal.—331, Hornby Road, Fort.

INDIAN ART MUSEUM PRIVATE LTD.—Carnac Bridge, Bombay 3. Phone: 26726. Grams: "INDARTMUSE."

Indian Arts Emporium.—Bombay Mutual Annexe, 2-C, Cawasji Patel Street, P.O. Box No. 1710, Fort, Bombay.

Kashmir Govt. Arts Emporium.—Sir P. M. Road, Bombay 1.
Maganlal N. Maniar.—63, 3rd Bholwada, Bombay 2.
M. Dialdas & Sons.—190, Princess Street.
Pararam, U. N.—Standard Building, 386, Hornby Road, Fort.
Sharda Stores.—104-106, Swadeshi Market, Kalbadevi Road.

CUTLERY MERCHANTS

Abdulkayum Esufally & Bros.—193, Abdul Rehman Street.
Alladin Dhanji.—Vithal Sayana Building, Lohar Chawl.
Bawa Crockeries, Ltd.—89, Mohamedali Road, Bombay 3.
Dossa, S. E., & Co.—186, Sheriff Devji Street (Chakla), Bombay 3. Phone: 39248.

EBRAHIM ALLIBHOY & SONS (Estd. 1934).—Importers and Exporters, 260-64, Abdul Rehman Street, Bombay 3. Phone: 38863.

Esmail, M.—Esmail Building, Sutar Chawl, Bombay 2.
Esmail Tarmohamed & Bros.—222, Cutlery Bazar.
Esoofally Rahimbhoy.—205, Cutlery Bazar, Bombay 3.
Grand Bazar.—25, Colaba Causeway, Bombay 1.
Haji Ahmed Mohamed & Co.—219, Cutlery Bazar.
Hamir Jamal & Co.—Showroom: 14/16, Lohar Chawl, Bombay 2.
Jafferjee Kamrudin.—91-93, Bhusari Mohalla, Bombay 3.
Jhaveri Bros. & Co.—345-49, Abdul Rehman Street.
Lathia Abercrombie & Co. Private Ltd.—Forbes Building, Home Street, Fort.
Mahomedally Esoofbhoy Kaderbhoy Motiwalla.—88, Sarang Street, Bhusari Mohalla, Bombay 3.
Mansetа, N., & Bros.—165, Lohar Chawl, Fort.
Mansukhlal Kantilal & Co.—185, Mulji Jetha Building, Princess Street.
Matani Bros.—84, Mohamedali Road, Bombay 3.
Mohamedally Abdullaly.—75-77, Bhusari Mohalla, Bombay 3.
Moosa Essa & Co.—Corner, Kalbadevi Road, 6, Maniar Building, Pydhownie Tram Junction, Bombay 3.
New India General Stores.—33, Medows Street, Fort, Bombay.
Salemahomed Padamsee & Co.—141, Chakla Street, Bombay 3.
Sanghani & Co.—178-80, Abdul Rehman Street.
S. G. Rothari & Co.—88-90, Abdul Rehman Street, Bombay 3.
Shaikh & Co.—94, Ali Umar Street, Bombay 3.
Shivji, K. S., & Co.—144-46, Sheriff Devji Street, Bombay 3.

CYCLES AND CYCLE ACCESSORIES DEALERS & IMPORTERS

A. M. Daisy & Co.—Princess Street, Bombay 2.
Advance Trading Corporation.—Hathi Building, Bhangwadi, Kalbadevi Road, Bombay 2.
Agarwal Traders.—Vasantwadi, Bombay 2.
Allied Exporters.—Kumud House, 267, Dr. Dadabhoy Naoroji Road, Fort, Bombay.
Allied Industries Producers.—Orient Hotel Building, opp. Crawford Market, Fort.
Ashok Overseas Trading Co. Ltd.—548, Kalbadevi Road, Bombay 2.
Bharat Commercial Co. of Lahore.—103/4, Medows Street, Bombay 1.
Bharat Cycle Co.—Bharucha Bldg., Princess Street, Bombay 2.
Bharat Cycle Importing Co.—Kalbadevi Road, Bombay 2.
Bharat Motor Co.—298, Vithalbhai Patel Road, Bombay.
Bombay & Calcutta Cycle Co.—413-G, Vasantwadi, Kalbadevi Road, Bombay 2.
Bombay Cycle & Motor Co.—451, Kalbadevi Road, Bombay 2.
Bombay Cycle Trading Co.—385, Kalbadevi Road, Bombay 2.
Bombay Electric & Cycle Co.—Bombay 2.
Bombay Traders.—423, Kalbadevi Road, Bombay 2.

B. PAREKH & CO.—H.O.: 383, Kalbadevi Road, Bombay. Phone: 34583. Branch: 8A, Peerbhoy Building, Princess Street, Bombay. Phone: 20608. Direct Importers and Wholesale Dealers in Cycles, Cycle Accessories and Surgical goods. Sole Distributors in India for:—Continental Gummi Werke, Hanover, and Nova Pressometers and stethoscopes, Germany. Grams: "GUMMIWORKS."

Capital Cycle & Motor Co.—445-51, Kalbadevi Road, Bombay 2.
C. Raman & Co.—181, Princess Street, Bombay 2.
Chandrodaya Electric Co.—Bhangwadi, Kalbadevi Road, Bombay 2
Chimanlal Desai & Co.—Gool Mansion, Homji Street, Bombay 1.
Cycle Trading Co.—425, Kalbadevi Road, Bombay 2.
Delhi Cycle Trading Co.—Bharoocha Building, Kalbadevi Road, Bombay 2.
Dupattwala Bros.—Bhangwadi, Kalbadevi Road, Bombay 2.
Foreign Products Distributing Co.—491, Sandhurst Road, Bombay.
Girilal & Co.—480, Kalbadevi Road, Dahanukar Bldg., Bombay 2.
Gujrat Cycle & Motor Co.—Bhangwadi, Kalbadevi Road, Bombay 2.

GUPTA CYCLE COMPANY.—172, Bharucha Building, Princess Street, Bombay 2. Phone: 27788. Grams: "GUPTACYCLE."

Harjiwan Bechar & Co.—3rd Lane, Mangaldas Market, Bombay.
Harmachinder Singh & Bros.—Kharek Bazar, Bombay.

HIND CYCLES LTD.—(Managing Agents: Messrs. Birla Bros. Private Ltd.), 250, Worli, Bombay 18. Phones: 42091-42092. Grams: "CYCLEHIND." Manufacturers of Bicycles & Spare Parts.

Hind Rubber & Cycle Co.—Kalbadevi Road, Bombay 2.
Imperial Cycle & Motor Co.—Kalbadevi Road, Bombay 2.
Indo Cycle Co.—Opp. Bhangwadi, 445, Kalbadevi Road, Bombay 2.
Industrial Distributors.—10, Hanuman Bldg., Tambakanta, Bombay.

JANKIDAS & CO.—192, Princess Street, Bombay 2. Phone: 34436. Grams: "WHEELBIKE." New Delhi Office: 23/F, Connaught Place, New Delhi. Phone: 42104; The Mall, Simla. Phone: 2385.

Kantilal & Company.—170, Princess Street, Bharucha Building, Bombay No. 2.

KATHIAWAR CYCLE & MOTOR CO.—525-27, Kalbadevi Road, Bombay 2.

Kathiawar Cycle & Motor Co.—527, Kalbadevi Road, Bombay 2.

K. B. MODI & CO.—8, Ebrahim Mansion, 366 68, Kalbadevi Road, Bombay 2. Phone: 39038. Grams: "CYCLEBELL". Importers of cycles, motor cycles & Accessories. H. O. Ahmedabad.

Kumar Cycle Works.—Bombay 2.

KUSUMGAR & COMPANY PRIVATE LTD., V. B.—Kalbadevi Road, P.O. Box No. 2071, Bombay 2. Direct Importers of all types of Cycles and Cycle Accessories. Phone: 22304. Grams: "PICKERFIRM."

Kusumgar (Overseas) Private Ltd.—503, Kalbadevi Road, Bombay 2.
Mahendrakumar Ltd.—157/61, Princess Street, Bombay 2.
Metro Cycle Co.—421, Kalbadevi Road, Bombay 2.
Modern Cycle Stores.—435, Kalbadevi Road, Bombay 2.
Mohan & Bros., G.—Hassan Chambers, Parsee Bazar Street, Fort, Bombay.
Mohanlal Motilal—Yusuf Building, Hornby Road, Bombay 1.
Narendraroy & Company.—453, Kalbadevi Road, Bombay 2.
National Cycle Agency.—213, Anant Building, Princess Street, Bombay 2.
National Electric Corporation.—Kerawala Bldg, Lohar Chawl, Bombay 2.
National Manufacturing Co.—105, Bazargate Street, Fort.
National Traders.—345, Kalbadevi Road, Bombay 2.

NEW HAVEN STEEL BALL CORPORATION PRIVATE LTD.—Manjee Building, 17-B, Horniman Circle, Bombay 1. Phone: 266346. Grams: "GULDASTA". Manufacturers of Automobile Parts, Bicycle Parts, Sockets, Headcap Screws, Bolts, Nuts, Steel Balls, etc.

New Popular Cycle Mart.—367, Kalbadevi Road, Bombay 2. Phone: 23697. Grams: "NEWCYCLE". Direct Importers of Cycles & Accessories.

Nishat Trading Co.—461, Sandhurst Road, Bombay.
Notandas & Sons.—62, First Marine Street, Bombay.
Oriental Import Export Co.—441, Kalbadevi Road, Bombay 2.
Popular Cycle Co.—415, Kalbadevi Road, Bombay 2.
Prem Brothers.—Kitab Mahal, 192, Hornby Road, Fort, Bombay.

Preetam Cycle Importing Co.—82/84, Bazargate Street, Bombay 1.
Premier Cycle Co.—399, Kalbadevi Road, Bombay 2.
Primera Corporation.—207, Sir Vithaldas Street, Fort.
P. R. Patel & Co. Ltd.—Merwan Building, Sir P. M. Road, Bombay 1.
Punjab Motor Co.—342-48, Vithalbhai Patel Road, Bombay.
Ranjan Cycle Importing Co —445, Kalbadevi Road, Bombay 2.
Rapid Cycle & Motor Co., Ltd.—Kalbadevi Road, Bombay 2.
Royal Cycle & Motor Co.—Whiteaway Laidlaw Bldg., Hornby Road, Bombay 1.

R. LAXMIDAS & CO.—80-D, Mohamedally Road, Bombay 3. Agents for PREMIER cycle tyres & tubes ; TELECORD Electric Cables. Dealers in Canvas, Textiles, Hosepipes—suction & delivery—tubings and all types of rubber moulded goods.

Saurashtra Cycle Co.—Bombay 2.
Shah Cycle Importing Co.—Vasantwadi, Kalbadevi Road, Bombay 2.

SHAH INDUSTRIES.—8, Ebrahim Mansion, 366/68, Kalbadevi Road, Bombay 2. Phone : 39038. Grams : "CYCLEBELL." Manufacturers of 'DIMOND' brand Cycles Spokes, Nipples & Washers.

Shah Trading Agencies.—19, Hamam Street, Fort.
Shah Trading Co. Ltd.—157-61, Princess Street, Bombay 2.
Shamlal Ramnath.—8, Punjab Great Hotel, Bombay.
Sorabji D. Daruwalla.—Round Building, Kalbadevi Road. Phone : 30348.
Standard Cycle Co.—429, Kalbadevi Road, Bombay 2.
Super Cycle Importing Co.—432-34, Kalbadevi Road, Bombay 2.
S. S. Corporation.—Kerawala Bldg., Lohar Chawl, Bombay 2.
Swastik Cycle Mart.—Ground Floor, Chhotalal Bhuvan, Kalbadevi Road, Bombay 2.
Union Cycle Co.—Kalbadevi Road, Bombay 2.
United Cycle Co.—Bhangwadi, Kalbadevi Road, Bombay 2.
Upper India Cycle & Motor Co.—New Hanuman Lane, Bombay 2.
Vadilal R. Shah.—Lalji Mansing Bldg., Lohar Chawl, Bombay 2.
Ved Prakash & Co.—3, Bell Lane, Fort, Bombay.
Victory Cycle Trading Co. Ltd.—503, Kalbadevi Road, Bombay 2.
V. S. Brothers & Co. Ltd.—Bhangwadi, Kalbadevi Road, Bombay 2.
Vohra & Pahwa, Bazargate Street, Bombay 1.

CYCLES & MOTOR CYCLES

GLOBE STORES CO.—Sitaram Building, Dadabhoy Naoroji Road, Bombay 1 (Near Crawford Market). Phone : 262502. Grams : "GLOSTOCO." Sole Agents for "MAICO" German Motor Cycles.

DAIRY COMPANIES

Baker's Dairy Farm.—Ruikesh Bhuvan, Gell Street, Jacob Circle.
Beales Dairy.—York House, opp. Tramway Depot, Colaba Causeway.
Bullion Hotel & Bullion Dairy Farm.—176, Sheikh Memon Street.
Bullion Sweet Mart & Bullion Dairy Farm.—Jaskeria Building, Masjid Bunder Road.
Champion Dairy Co. (Estd. 1903).—New Petit Mansion, Sleater Road, Grant Road, Bombay 7.
Clifton Dairy.—288, Frere Road, Fort, Bombay 1.
Diarvi Trading Co.—64, Old Custom House Road, Fort.
Empress of India Dairy Co.—180, Lamington Road.
Hiscocks, E., & Co.—" Win-Villa," 9, Clare Road, Byculla.
Indian Express Dairy.—49, Kapur Mansion, Hughes Road.
Infants & Public Milk Supply Co.—11, Calicut Street, Ballard Pier.
Palmer, A., & Co.—C-123, Cumballa Hill.
Parsiana Dairy Co.—1, Tamarind Lane, Fort.
Rezashah Dairy Farm, The.—Dubash Building, Sleater Road, Grant Road.
Royal Hygiene Dairy Farm.—Gool Mansion, Wadia Street, Tardeo.
Sarosh Dairy Farm.—Chandavarkar Road, Borivli.
Shapur Dairy Farm.—Mount Road, Opp. P.O., Mazagaon.
Victor Supply Co.—Taher Mansion, Nepean Sea Road.
Wiltshire Dairy Farm.—" Win-Villa," 23, Clare Road, Byculla.

DAIRY MACHINERY

Batliboi & Co.—Engineers & Machinery Importers. Head Office : Forbes Street, Fort, Bombay. Phone No. 455451-55. Grams : "BATLIBOICO". Branches : Madras, Calcutta, Delhi, Ahmedabad, Kanpur, Coimbatore and Vijayvada. Associates : Bangalore and Secunderabad.

DAIRY EQUIPMENT CO.—304, Dadabhai Naoroji Road, Fort, Bombay 1. Phone : 26-4066. Grams : "DOSEBOM". Agents for "WESTFALIA SEPARATOR. A.G., West Germany. Manufacturers of Creamers Separators & Butter Churns.

Raj-Der-Kar & Co.—Commissariat Building, Hornby Road, Fort. Phone : 27304.

DAMP COURSING

GLADSTONE LYALL & CO., LTD.—Bharat Nagar, 342, Grant Road, Bombay 7. Phone : 79039. Grams : "GLADSWYLL." Bombay Manager : A. V. Ryan. Head Office : 4, Fairlie Place, Calcutta.

DARNERS

DARNER HOUSE.—77, Kapol Niwas, New Charni Road, opp. Girgaum Court, near Cama Baug, Bombay 4. Specialists in Invisible Darning of Valuable Garments. Silk, Woollen, Carpets Washers.

DEAF APPLIANCES

General Radio & Appliances Ltd.—Opera House, Bombay.

WESTREX CO., INDIA.—Metro House, Mahatma Gandhi Road, Bombay 1. P.O. Box 1232. Tel. Address : "WESTREX." Phone Nos. 242273 & 242274.

DEBT COLLECTORS

INDO-FOREIGN TRADE SERVICE.—805, Kalbadevi Road, opp. Edward Cinema, Bombay 2. Phone : 22848.

DECORATORS

Amzel Private Ltd.—Lotus House, Marine Lines, Bombay 1.

A. NOORMAHOMED & SONS.—(Estd. 1885), 109-A 111B, Mohamedally Road, Bombay 3. Phone : 38324. Cabinet Makers, Furnishers, Interior Decorators.

BHAWSAR HOME FURNISHERS & DECORATORS.—66, Karwar Street, Mint Road, Fort, near G.P.O. Factory : Famous Cine Building, Haines Road, Mahaluxmi, Bombay 11. Phone : 263771.

Cooper & Co.—53, Abdul Rehman Street.

DAVAR, N., & CO.—Calcutta National Bank Building, Sir Phirozshah Mehta Road, Fort, Bombay. Phone : 26-1880. Interior Decorators and Painting Contractors. Showroom : Hampton Court, Wodehouse Road, Colaba, Bombay 5.

Dewjee Canjee & Co.—156, Sheriff Dewjee Street and Mohamedali Road.

HOOSAIN NENSEY NATHOO & CO.—(Estd. 1879), 187, Nensey House, Chakla Street, Bombay 3. Phone : 29273. Grams : "FURNISHERS".

Jayanand Khira & Co., Ltd.—Kothare Building, Sandhurst Bridge.
Kalabhai Karson & Sons.—256, Sandhurst Road.
Kamdar Ltd.—Industrial Building, Opp. Churchgate Station, Fort.
Kapadia Brothers.—81, Abdul Rehman Street, Bombay 3. Phone : 29108. Grams : "DECORATORS". Paint Merchants & Painting Contractors. Chief Stockists of Noble Paints.

KHANNA & COMPANY, S.—Mustafa Building, Sir Phirozshah Mehta Road, Fort, Bombay. Grams : "CRETECO," Bombay. Phone : 251162. Specialist in Coloured Cement Rendering, Artificial Malad Stone facing, Terrazzo Flooring & Victorite plastering.

MACFARLANE & CO., LTD.—34, Lamington Road (North), Bombay 8.

MANCHERSHA, S. & CO.—Certified Painting & Decorating Contractors of Messrs. Jenson & Nicholson (India) Ltd., Navsari Chambers, Outram Road, Fort, Bombay 1. Phone : 26-2373.

MARKER, S. D., & CO. PRIVATE LTD.—(Estd. 1901), 381, Dr. Dadabhoy Naoroji Road, Fort, Bombay. Phone : 253236. Grams : "MARKERCOY". Interior Decorators & Painting Contractors.

McKenzies, Ltd.—Interior Decorators, Sewri.

MHATRE PATIL & CO., S.—Bombay Mutual Building, Corner of Dr. Dadabhoy Naoroji Road and Sir Phirozshah Mehta Road, Fort. Phone : 263610.

Mistry Ebrahim Suleman & Co.—116, Esmail Curtay Road, Bombay 3.

Modern Furniture Works.—141, 3rd Cross Road, Shivaji Park Road, Bombay 28.

More & Co., S.—34/36, Hamam Street, Fort, Bombay 1. Phone : 252019. Gram : "PACKWELL." Decorators, Painting Contractors and Sign Painters, Specialists in Shop Fronts and Commercial and Dispensing Displays.

New Era Paint Works.—Opp. Byculla Station, Byculla.

Pavri & Sons, F. H.—126, Pavri House, Gunbow Street, Fort.

Premier Furnishing & Decorating Ltd.—7, Brabourne Stadium, Churchgate Street Extension, Fort.

Raja Furniture Mart.—Foolchand Nivas, Chowpatty Sea Face, Bombay 7.

Roberts, John & Co., Ltd.—Jorawar Bhuvan, 93/B, Queen's Road.

Simplex Art Floorings Ltd.—"La-Citadelle," 32, Queen's Road.

WAKEFIELD PAINTS PRIVATE LIMITED.—"Dhan-Nur," 15/16, Sir Phirozshah Mehta Road, Fort, Bombay 1 (India). Grams: "WAKEPAINT". Phone: 264061.

DENTAL GOODS

BHARAT DENTAL SUPPLY CO.—Standard Building, 346, Dr. Dadabhai Naoroji Road, Fort, Bombay 1. Phone: 252715. Direct Importers of Dental equipment, Artificial Teeth, Plaster of Paris, etc.

Dental Corporation of India.—121, Esplanade Road, Fort.

I.C.I. (India) Private Ltd.—P. B. No. 310, Bombay 1.

INTERNATIONAL DENTAL CO. (Formerly Ahura Traders).—Davar House, 199, Hornby Road, Bombay 1. Direct Importers of Dental Goods, Artificial Teeth, Plaster of Paris, etc. Phone: 262829. Grams: "ACRYLIC."

J. L. Morrison Son & Jones (India) Ltd.—Contractor Bldg., Nicol Road, Ballard Estate, Bombay 1.

Mazda Dental Depot.—Navsari Chambers, Outram Road, opp. Lloyds Bank, Fort.

NATIONAL STEEL EQUIPMENT CO.—Naigaum Road (near Spring Mills), Dadar, Bombay 14. Phone: 61755. Grams: "BEDLOCKER." Makers of Hydraulic Dental Chairs.

Patel & Sons, Dr. K.—249, Hornby Road, Fort.

Prasad Shankerlal & Co.—Esplanade High School Building, 1st Floor, 250, Hornby Road, Fort, Bombay 1.

DIAMOND, PRECIOUS STONE AND PEARL MERCHANTS

ABDUL KAYUM EBRAHIM (Estd. 1902).—64, Mohamedally Road, Bombay 3. Phone: 76962 (Res.). Manufacturing Jewellers, Jewellery, Diamonds and Precious Stones.

Anandlal Becharlal & Co.—177-119, Sheik Memon Street.

Becharidas Harichand & Co.—Poonamchand House, Kharakuva, Marwari Bazar.

Bhagwandas Lalchand.—134-136, Zaveri Bazar, Bombay 2.

Bhojwani Brothers.—24 Munira Lodge, Colaba Causeway, Bombay 1.

Chhaganlal Manchand & Co.—Queen's Road, Bombay 4.

Chimanlal Popatlal Minawalla.—Dhanji Street, Bombay 3.

CHUNILAL & CO.—17-19, Dhanji Street, Bombay 3. Phone: 29991.

CULTURE PEARLS DEALING CO.—Madrasi Building, 2nd Floor, 148, Mumbadevi Road, Bombay 2. Wholesale and Retail dealers in (Real) Culture Pearls and other Jewels.

DAHYALAL MAKANJI ZAVERI.—98, Zaveri Bazar, Bombay 2.

Dalichharam Nanchand & Co.—7, Dhanji Street.

Dhanamal Isardas.—Mulji Sicca Building, China Baug, Vithalbhai Patel Road.

Fulchand Kasturchand.—163-165, Sheikh Memon Street.

Gazdar Ltd. (Jewellers).—Taj Mahal Hotel, Colaba.

Godedji Dosji & Co.—10, Dhanji Street.

Harilal Lalji & Co.—149, Sheikh Memon Street, Bombay 2.

Hemchand Mohanlal & Co.—Devki Bhuvan, Dhanji Street, Bombay 3.

Jhaveri Bros. & Co.—Medows Street, Fort.

Keshavlal Dalpatbhai Zaveri.—Mumbadevi, Zaveri Bazar, Bombay 2.

K. Wadia & Co.—324, Grant Road, Bombay 7.

Lallubhai Gulabchand Jhaveri.—149, Shroff Bazar.

MAGANBHAI & LALLUBHAI.—184-186, Sheikh Memon Street, Bombay 2. Jewellers, Direct Importers and Exporters of Real and Cultured Pearls, Platinum, Precious Stones, Watches, Synthetic, Rough and Cut. Phone Nos. 23186 and 22217 (Res.). Grams: "MOTIBUTTON."

Mohamedali Zainal Alireza.—"D" Sitaram Building, Hornby Road.

Motilal Davabhai & Sons.—208, Walkeshwar Road.

Nathalas Virchand Jhaveri.—44-46, Dhanji Street, Bombay 3.

Narotamdas Bhau (Estd. 1864).—Lamington Road, Bombay.

New Pearls Trading Agency.—Patel Building, 76-A, Sheikh Memon Street, Zaveri Bazar.

Pearls, Gems & General Agency Ltd.—General Assurance Building, Hornby Road, Fort.

PEARLS PALACE.—2nd Floor, 38, Mahatma Gandhi Road, Opp. Mercantile Bank Building, Flora Fountain, Bombay 1. Articles on display, Ornaments of Pearls, loose Pearls and Precious and Semi-precious Stones, Silverware and Presentation Articles.

Punamchand Ghasilal.—126-128, Javeri Bazar.

Pursram, R. V.—Manufacturing Jewellers, Diamond and Pearl Merchants, 62, Medows Street, Fort. Phone: 24645. Grams: "FAIRVALUE."

Ramesh Jewellers.—Jai Hind Building No. 3-A, Bhuleshwar, Bombay 2.

RAMNIKLAL C. KOTHARI & CO.—16, Apollo Street, Bombay 1. Phone: 251632. Grams: "ASTROGEMS." Platinum, Palladium, Diamonds, Precious Stones and other Precious Metals.

Roopchand Punjab Jewellers.—French Bridge, opp. Opera House, Bombay 4.

Ruby & Co.—Cutch Castle, opp. Opera House.

Surajmal Lallubhai & Co.—359, Kalbadevi Road.

TRIBHOVANDAS BHIMJI ZAVERI (ESTD. 1851).—241-43, Sheikh Memon Street, Bombay 2. Phone: 23741. Grams: "BARGOLD." Leading House for Gold Ornaments, Diamonds and Silver Presentation Novelties.

DIESEL ENGINES MANUFACTURERS, IMPORTERS & DEALERS

(*See page No. 627*)

DIESEL ENGINES & SPARES

Agra Engineering Co.—84, Apollo Street, Bombay.

AUTOMACHINES (INDIA) PRIVATE LTD.—111-A, Mahatma Gandhi Road, P.O. Box No. 1853, Fort, Bombay 1. Phone: 25-4623. Grams: "WETOIL". Spare Parts for All Makes of Diesel Engines. Sole Selling Agents in India for:— DISA Fuel Injection Equipments and "LA-PRENCA" Pistons and Spare Parts for all makes of Diesel Engines.

Bales Engineers.—Bales Corner, 24, Gunbow Street, Fort, Bombay.

HINDUSTAN ENGINEERING CO.—(Machinery Dept.), 25, Ropewalk Street, Rampart Row, Fort, Bombay 1. Phone: 253583. Grams: 'VIDOOALL'.

K. SUCHDE BROTHERS.—82, Apollo Street, Fort, Bombay 1. Phone: 252712. Grams: "SUCHBROS". Spares for all well known Industrial Engines, Sales & Service for Fuel Injection Equipments, "BRYCE", "BOSCH", "CAV" & "FIL" "WELLWORTHY" Pistons, Rings & Liners for Industrial Engines & Tractors. Madras Branch: Industrial Engineers, 325, Thambuchetty Street. Phone: 4783.

DISC SPRINGS

B. CHOWDHURY.—Indian Globe Chambers, Fort Street, Bombay 1. Phone: 26-3479. Grams: "BISUKHI." Sole Agents for: Adolf Schnorr, West Germany.

DISINFECTANTS AND INSECTICIDES MFRS.

Amritlal & Co. Private Ltd.—Sprott Road, Ballard Estate, Fort.

Balmer Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate, Fort.

Bharat Pulverising Mills Private Ltd.—38A, Sayani Road, Parel, Bombay 28.

Bombay Chemicals Private Ltd.—Mancherji Wadia Bldg., 120, Mahatma Gandhi Road, Fort, Bombay. Phone: 251970. Grams: "PYRETHRUM."

Burmah-Shell Oil, Storage & Distributing Co. of India Ltd.—Ballard Estate, Bombay 1.

Chimanlal Patel & Co.—174, Hornby Road, Fort.

Chlorogen Co.—Princess Street, Bombay 2.

Din Products Ltd.—9-A, Ash Lane, Off Medows Street, Fort, Bombay 1.

HARBO TRADING SYNDICATE.—Prospect Chambers Annexe, Dr. Dadabhoy Naoroji Road, Fort. Phone: 252719. Grams: "HARBOSYN." Experts in extermination of White Ants.

Hardcastle, Waud & Co. Private Ltd.—Alice Building, Hornby Road, Fort.

Holmes Laboratory.—Upper Forjett Hill, Bombay 26.

I.C.I. (India) Private Ltd.—P. Box No. 310, Bombay 1.

Industrial Minerals & Chemical Co.—125, Narayan Dhuru Street, Bombay 3.

Jones, J. D., & Co. (Bombay) Ltd.—Rustom Bldg., Vir Nariman Road, Bombay 1.

Latham Abercrombie & Co. Private Ltd.—Forbes Building, Home Street, Fort.

Sardesai Brothers Private Ltd.—14, Murzban Road, Fort, Bombay.

Spencer & Co., Ltd.—Bombay 26.

Standard Chemical & Pharmaceutical Co.—Atlas Mills, Reay Road, Bombay 10.

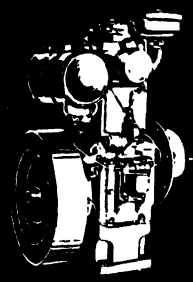
Standard-Vacuum Oil Co.—17, Jamshedji Tata Road, Bombay 1.

TATA-FISON PRIVATE LTD.—Bombay House, 24, Bruce Street, Fort, Bombay 1. Grams: 'TATFISON', Bombay. Phones: 259141/251509. Manufacturing, Marketing and Selling insecticides, fungicides, rodenticides, acaricides.

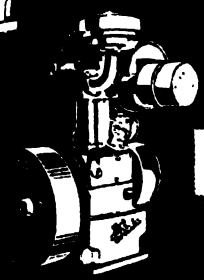
VERMIT CO. (INDIA).—107, Wodehouse Road, Bombay 5. Phone No. 38723. Grams: "KILLPEST." Manufacturers and Importers of Insecticides, Disinfectants, Detergents and Polishes.

ZENITH VARNISH WORKS (ESTD. 1927).—11, Dhobi Street (Near Zakaria Masjid), Bombay 3. Phone: 30029.

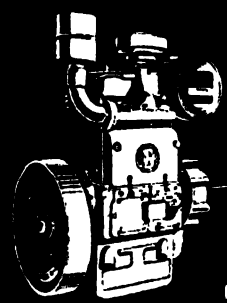
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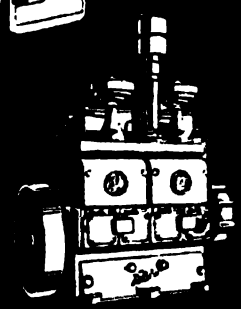
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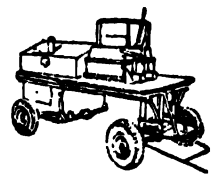
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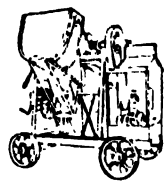


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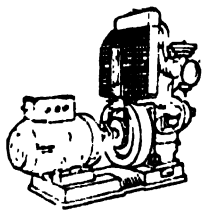


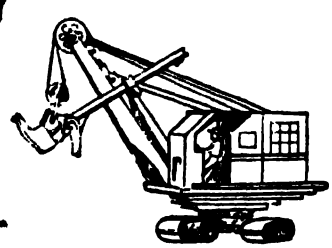
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DIESEL ENGINES

KIRLOSKAR OIL ENGINES LIMITED, KIRKEE, POONA 3, INDIA.

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TOM & SAY

DIESEL ENGINES MANUFACTURERS, IMPORTERS & DEALERS

Batliboi & Co.—Engineers & Machinery Importers. Head Office: Forbes Street, Fort, Bombay. Phone No. 455451-55. Grams: "BATLIBOICO". Branches: Madras, Calcutta, Delhi, Ahmedabad, Kanpur, Coimbatore and Vijayvada. Associates: Bangalore and Secunderabad.

BHARAT ELECTRIC AND ENGINEERING CORPORATION.—Free Press Building, Ground Floor, 21, Dalal Street, Fort, Bombay. Phone: 268374. Grams: "GODGRACE."

Blackwood Hodge India Private Ltd.—Lotus House, Marine Lines, Bombay.

BOMBAY MERCANTILE CORPORATION.—211-217, Nagdevi Street, Bombay 3. Phones: 22782 & 28775. Grams: "CORPBOMBER". Sole Agents for 'PAKCO' Diesel Engines.

British Engineering Co.—103, Apollo Street, Fort.

CHOONILAL MOHANLAL & CO.—Shop No. 54, Kika Street, (Gulalwadi) Bombay 4. Stockists of Flexible Metallic Tubes used for Perkins 6, Diesel Engines and Oil Refineries. Phone: 72064. Grams: "RODS".

Cooper Engineering Ltd.—Construction House, Ballard Estate, Bombay 1.

DIESEL (INDIA).—105, Apollo Street, Fort, Bombay. Phone: 251192. Grams: "AUTOMIZER." Authorised dealers for India of Ford Diesel Engines. Branches at: Ahmedabad, Coimbatore, Guntur, Bangalore, Mangalore & Madras.

Drewet Chowna & Co.—Lentin Chambers, Medows Street, Fort.

EAST ASIATIC CO. (INDIA) PRIVATE LTD., THE.—Shreeniwas House, Waudby Road, Bombay. Phone 26-2711 (8 lines). Offices at: Madras, Calcutta, New Delhi, Bangalore and Secunderabad.

Eastern Machinery and Trading Co.—Imperial Chambers, Wilson Road, Ballard Estate, Fort.

ESSENTIAL ENGINEERING CO.—11, Botawala Building, Elphinstone Circle, Fort, Phone: 252601. Grams: "ESSENCE." Importers, Exporters, Commission Agents and Manufacturers' Representatives.

Graves Cotton & Co., Ltd.—Forbes Street, Bombay 1.

For Reliable Supply of:

All American, English, Continental & Japanese Engine Spares: **Fuel Injection Equipment in Bosch Type, Bryce Type and Special Types.**

Sole Distributors: **Hercules Engines & Parts.**

Contact:

HONESTY TRADING CORPORATION

1st Floor, Beaumon Chambers, Bombay 1.

Phone. **Message 253534** • Grams: **"HOTRACO"**

Indian Commercial Co., Ltd.—45-47, Apollo Street, Fort, Bombay.

Investa Machine Tools and Engineering Co., Ltd.—Ewart House, Bruce Street, Bombay 1.

Jhala, R. T., & Co.—9, Forbes Street, Fort, Bombay.

Khimandas Jagumal & Sons (Estd. 1910), Sind.—12, Hornby View Building, Gunbow Street, Fort.

Killick, Nixon & Co. Private Ltd.—Killick House, Home Street, Bombay 1.

Mahindra & Mahindra Ltd.—Gateway Building, Apollo Street, Fort.

MANOHAR BROTHERS.—4, Commerce House, Medows Street, Fort, Bombay. Phone: 234496. Grams: "LOCOMOTIVE". Branch: 37, Ezrabala Chetty Street, Madras. Phone: 4274.

Marshall Sons & Co. (India) Ltd.—Marshall Bldg., Ballard Road, Bombay 1.

Nobo Engineers.—P. O. Box 270, Bombay 1 (India). Cable: "NOFCO." Phone: 262453.

Paramount Industrial Stores.—15, Ropewalk Street, Bombay 1.

Power Machines Corporation.—21, Forbes Street, Fort, Bombay 1.

Proton Engineering Co., Ltd.—178, Jamshedji Tata Road, Churchgate, Bombay.

William Jacks & Co. Ltd.—Hamilton House, Ballard Estate, Bombay 1.

DOMESTIC APPLIANCES

MOTOR HOUSE LTD.—Estd. 1927. Crosley-Easy: Domestic Appliance Division. Admn. Offices, Show-Rooms & Service Station: 'House of Mehta', Hughes Road, Bombay 7, P.B. No. 6546, Bombay 26. Cables: 'MOTORHOUSE', Bombay. Tel. Nos.: 77435 & 77436. Branches: Bombay (Fort), Nagpur, Poona, Hubli, Ahmedabad, New Delhi, Jaipur, Chandigarh, Simla, Patiala, Ludhiana, Jullundur, Amritsar, Bhopal, Gwalior, Indore. Sole Importers & Exclusive Distributors of Easy Washers and Dryers. Crosley Shelvador Refrigerators and Murphy-Richards Table Model Refrigerators & other Electrical Appliances.

DRAWING OFFICE & SURVEY REQUISITES

ALLIED DRAWING STORES.—29, Hornby Road, Bombay 1. Telegrams: "ARTCORNER." Phone: 261403.

Bombay Miscellanies.—Vithal Sayana Building, Lohar Chawl, Bombay 2. Phone: 34662. Grams: "FEPRU".

Gillanders Arbuthnot & Co., Ltd.—16, Queen's Road Estate, Bombay.

Norton Gregory Ltd. (London).—Office of the Representative in India and Pakistan. Commerce House, Currimbhoy Road, Ballard Estate, Bombay.

PIONEER EQUIPMENT CO. PRIVATE LTD.—139, Medows Street, P.O. Box No. 1909, Fort, Bombay 1. Grams: "PIOMETAL". Phone: 25-1882. Agents in India for Messrs. Cooke, Troughton & Sims Ltd., U.K.

RAJ-DER-KAR & CO.—Commissariat Building, Dr. Dadabhai Naoroji Road, Fort, Bombay. For Research Industries. Phone: 262304. Grams: "TECHLAB".

DRAWING MATERIAL DEALERS

ALLIED DRAWING STORES.—29, Hornby Road, Bombay 1. Telegrams: "ARTCORNER." Phone: 261403.

Armstrong Smith Private Ltd.—Gresham Assurance House, Sir Phirozshah Mehta Road, Fort.

Asha Drawing & Stationery Stores.—Sitaram Bldg., Dr. D. Naoroji Road, Bombay 1.

Bombay Miscellanies.—Vithal Sayana Building, Lohar Chawl, Bombay 2. Phone: 34662. Grams: "FEPRU".

KILBURN & CO., PRIVATE LTD.—Gresham Assurance House, Phirozshah Mehta Road, Fort, Bombay 1. Phone: 251908. Grams: "TASCONIUM."

Lawrence & Mayo (India) Ltd.—274, Hornby Road, Fort.

S. RAMACHANDRA & CO.—Dealers in Artists and Students Art Materials. Office: Prospect Chambers Annexe, Dr. Dadabhai Naoroji Road, Fort, Bombay. Phone: 251867. Shop: C 5, Sitaram Building, 1st Floor (Opp. J. J. School of Arts, Dr. Dadabhai Naoroji Road), Bombay 1.

Usha Trading Co.—Naigam Cross Road, Bombay 14.

DRILLS, TAPS & DIES

N. MOHANLAL & CO.—124, Nagdevi Street, Bombay 3. Phone: 27545. Grams: "JEPIBELT." Stockists of Drills Manufactured by "Indian Tools".

DRUMS & CONTAINERS MFRS.

Hasambhoy Jetha.—Quality Drums Manufacturers, Parel Road, Bombay 27.

STANDARD DRUM & BUCKET FACTORY.—232, Bellasis Road, Bombay 8. Phone: 12490. Grams: "STANDRUM". Manufacturers of Drums, Containers and Kegs for Dyes, Chemicals, Paints, Oils etc.

TAYABI BUCKET FACTORY.—Prop., Tayabali Sultanji & Co. Manufacturers of Buckets, Drums, Containers and other household articles. Showroom: 174 176, Jamjikar Street, Bombay 3. Phone: 29648. Grams: "LAMETTA" Factory: Ripon Road Cross Lane, Bombay 8. Phone: 42206.

DUPLICATING MACHINES

BHARAT ELECTRIC & ENGINEERING CORPORATION.—Free Press Building, Ground Floor, 21, Dalal Street, Fort. Phone: 268374. Grams: "GODGRACE."

Blackwoods India Ltd.—Kasturi Building, Jamshedji Tata Road, Churchgate, Bombay 1. Post Box 1912.

Gestetner Duplicators Ltd.—Construction House, Ballard Estate, Bombay.

LATHAM ABERCROMBIE & CO., PRIVATE LTD.—Forbes Building, Home Street, Fort, Bombay.

DURRIES (SATRANJI)

E. PEERBHOY & SONS.—Prop., Indian Durries Emporium, 64, Mohamedali Road, Shahra Castle, Bombay 3. Phone: 23906. Grams: "INDIAWEAVE".

DYEING, PRINTING & BLEACHING COMPANIES

Hairchand Textile Mills, Ltd.—Agra Road, Vikroli (Central Rly.).

Prakash Dyeing, Bleaching & Printing Mills.—Mogal Lane, Matunga (Western Rly.), Bombay 16.

Shri Laxmi Cloth Trading Co.—135, Zaveri Bazar, Bombay 2.

Usha Dyeing & Printing Works.—Sir Shapurji Bharucha's Bungalow, Khetwadi 12th Lane, Bombay No. 4.

Vasudev Dyeing Works.—316, Dr. Cowasji Hormusji Street, opp. Sonapur Church, New Marine Lines Railway Station, Bombay 2.

Vijay Printing Works.—Andheri Road, Kurla, Bombay.

DYESTUFFS

AMAR DYE-CHEM LTD.—(Manufacturers of Coaltar Dyes), "RANGUDYAN", Sitaladevi Temple Road, Post Box No. 6471, Mahim, Bombay 16. Now producing Amarthols, Fast Bases, Spectrolenses, Optical Brighteners.

Ameer Trading Corporation, Ltd. - Contractor Building, Nicol Road, Ballard Estate, Bombay. Phone : 31911. Grams : "AMTRACOR."

AMERICAN COLOUR & CHEMICALS CO.—79, D'Souza Street, Vadgadi, Bombay 3. Phone : 31189. Grams : "RASHMI."

AMRITLAL & CO. PRIVATE LTD.—11, Sprott Road, Ballard Estate, Fort, Bombay. P.O. Box 256. Phone : 262291. Grams : "RASIK." Sole Agents in India, Pakistan, Burma & Ceylon for L. B. Holliday & Co., Ltd., England, Manufacturers of Aniline Dyes, and Rohm and Haas Co., Philadelphia, U.S.A., Manufacturers of Textile & Leather Chemicals and Agricultural Insecticides and Fungicides.

Anglo-American Dyestuffs Corporation Ltd.—Prospect Chambers, Hornby Road, Fort. Phone : 33993.

Aniline Dyes & Chemical Co. (Estd. 1922).—3, Gilder Lane, Lamington Road, Bombay 8.

Arlabs Private Ltd.—India House, P.O. Box No. 1442, Bombay 1.

Arvinda Bros.—165, Vithalbhai Patel Road, Bombay 4.

Arvinda Trading Co. Private Ltd.- 105, Apollo Street, Fort.

Asiatic Dyestuffs Agency.—306, Samuel Street, Vadgadi, Bombay 3.

AZOFEN PRIVATE LIMITED.—61, Apollo Street, Fort, Bombay. Phone : 254054. Manufacturers of 'SARCOSINE' and 'LUMISOLS'. (Optical Whitening Agents).

Bhatia Trading Co.—1, Shree Ram Market, Vadgadi, Bombay 3.

Bhavanidas Gangadas & Co.—233/35, Samuel Street, Vadgadi, Bombay.

Bock, F., & Co.—Shale Building, Bank Street, Fort.

C. AGRAWAL & CO., PRIVATE LTD.—43-44, Rakshmi Building, Sir Phirozshah Mehta Road, Bombay 1. Phone : 261344. Grams : 'AGRAWALCO'. Importers & Stockists of Dyestuffs & Chemicals.

Capital Colour & Chemical Co.—77-78, Mirchi Street, Vadgadi, Bombay No. 3.

Chavannes & Co., Ltd.—Mercantile Chambers, Graham Road, Ballard Estate.

Chem Col Co.—345, Samuel Street, Vadgadi.

Chemols Supply Co.—6th Floor, People's Building, Sir Phirozshah Mehta Road, Fort.

CHEMIDYE TRADING CO., LTD.—Kamer Building, Cawasji Patel Street, Fort, Bombay 1. Phone : 251034.

CIBA DYES PRIVATE LTD.—Royal Insurance Bldg., Jamshedji Tata Road, Churchgate Reclamation, Bombay 1. Tel. Address : "CIBA." Phones : 37184-87. Post Box 419.

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Dadajee Dhackjee & Co. Private Ltd.,—274, Samuel Street, Vadgadi, Bombay 3.

Das & Company.—Das Chambers, Dalal Street, Fort.

DHARAMCHAND & COMPANY.—Agents for Steel Products Ltd., Dyestuffs and Chemicals, 347-349, Samuel Street, Bombay 3. Phone : 29397. Res. : 62129. Grams : "LAMP-POST".

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E. FIDAALLI & CO., ALLANA BANDA.—279, Samuel Street Bombay 3.

FEDCO PRIVATE LTD.—Mafatlal House, Backbay Reclamation, Bombay 1. Phone : 36864/5. Grams : "RAPRICOL"

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Firoz Trading Co., Ltd.—Kamar Building, Cawasji Patel Street, Fort

French Dyes & Chemicals (India).—"Adelphi", 3, G. Road, Bombay.

GALLIARA PRIVATE LTD.—42, Hamam Street, Fort, Bombay 1. Phone : 254520.

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Indian Dyestuff Industries Ltd.—29, Veer Nariman Road, Bombay Phone : 255376-77-78 (3 lines). Grams : "JADGRIN". Manufacturers of VAT DYESTUFFS.

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Javerchand Khimji Rangwala.—288, Vadgadi, Bombay 3.

JAYANTILAL M. MEHTA.—320, Samuel Street, Vadgadi, Bombay 3. Phone : C o 22355. Grams : " SUNDARATA." Manufacturers of ' JAMSOL ' Developing Salts, Rapid Fast " RENUGENE " Dyes, etc.

KANTILAL SANGHVI & CO.—Mherwan Building, Sir Phiroshah Mehta Road, Fort. Phones : 253041 ; Residence : 28185. Grams : " EXPIM."

KAPURCHAND & CO.—Roxy Chambers, New Queen's Road, Bombay 4. Phone : 27196. Grams : " KAPURFILMS." Dealers in Coal Tar Dyes and Art Silk Yarns.

KHATAU VALABHDAS & CO.—Indian Globe Chambers, Fort Street, Bombay 1. Phone : 26-1658. Grams : " SCARLET," Bombay.

Kothari Industries.—193-195, Hornby Road, Bombay 1.
Kothari S., & Co., Ltd.—125, Mahatma Gandhi Road, Fort. Phone : 3972

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Kumar Colour Trading Co.—70, D'Souza Street, Bombay 3.

MADHAVDAS MANILAL & CO.—Colours and Chemicals Merchants, 10, Sussex Road, near Victoria Gardens, Bombay 27. Phone No. 40433. Branches at : 249, Vadgadi, Bombay 3. Phone No. 22793 ; Astodia Road, Ahmedabad. Phone No. 51271 ; Itwari Bazar, Nagpur ; Harisingh Katra, Amritsar. Agents at Indore, Madras, Calcutta, Warangal, Beawar, Bangalore, Surat, etc.

Manubhai Shah & Co.—297, Samuel Street, Vadgadi, Bombay 3.
Mistry & Co.—3, Gilder Lane, off Lamington Road, Bombay 8.
M. H. Mehta & Sons, Ltd.—Fort Chambers, Hamam Street, Fort.
Nanavati & Co., Ltd.—16, Apollo Street, Fort.

NARANDAS PRAMANANDDAS.—Mithawala Building, 272, Vadgadi (Samuel Street), Bombay 3. P.O. Box No. 1739, Bombay 1. Grams : "SHERGOLA." Phone : 38881. Head Office : 37, Armenian Street, Calcutta. Grams : "KUNDLAKER." Phone : 333499. Importers and Dealers in Dyestuffs and Chemicals.

Narayandas Jagjiwan & Co.—60, Garibdas Street, Vadgadi, Bombay 3.

NATIONAL DYES.—Manufacturers of Dyes & Auxiliaries such as, National Congo Red, Developing Salts, Solublised Azoic, etc. Girton House, Lamington Cross Road, Bombay 7. Phone : 76999. Grams : " RAPIDFAST ".

N. P. Patravali & Co.—Fort Chambers, Hamam Street, Fort.
Odhavji Devidas & Co.—357-A, Vakil Building, Samuel Street, Bombay 3.

PARAMOUNT DYES & CHEMICALS PRIVATE LTD.—Elphinstone Building, Vir Nariman Street, Fort. Bombay. Phone : 252535.

P.D. Vora.—314, Samuel Street, Vadgadi, Bombay 3.
Pragjee Brothers.—Dholy Building, Vadgadi.
Pravin Colour Co.—340-42, Samuel Street, Vadgadi, Bombay 3.
Pravin Brothers & Co.—37, Bora Bazar Street, Bombay 1.

RAMDAS & CO.—327, Samuel Street, Vadgadi, Bombay 3. Phone : 34959. Grams : " DAILYRANG ".

Rangoonwalla, H. N.—Rangoonwalla Building, 91, Mahomedally Road.

Sandoz Products Ltd.—3, Wittet Road, Ballard Estate, Fort, Bombay.

Sardesai & Company.—14, Murzban Road, Fort, Bombay. Phone : 263683.

Sepulchre Brothers (India) Ltd.—Taj Building, 210, Hornby Road.

Shah & Co.—105, New Citizen Bank House, Parsi Road, Bombay 1.

SHIVJEE LILADHER.—334, Samuel Street, Vadgadi, Bombay 3. Grams : " POSITIVE ", Bombay. Phones : 29080 ; Res. : 74231.

Shoorji Vallabhdass Colour Co.—280, Samuel Street, Vadgadi.
Shree Prabhadevi Dyes & Chemicals Co. Ltd.—287-289, Samuel Street, Vadgadi, Bombay 3.
Sind Highclass Colour Mart.—12, Shree Ram Market, Vadgadi, Bombay 3.

STERLING DYES PRIVATE LTD.—Manufacturers of Textile Dyes & Chemicals, 231, Samuel Street, Vadgadi, Bombay 3. Phone : 20462. Grams : " LAXNAGAR ". Works : Agra Road, Bhandup, Bombay 40.

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H.O. Phone : 22203. Grams : "BAGICHA"
Delhi Phone : 25364. *Branches at :* Bombay, Delhi & Indore
Tilak Bazar, Delhi 6 ; Hathipala Road, Indore

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Super Dyes & Chemical Co.—281-A, Samuel Street, Vadgadi, Bombay 3.

Tejaji Parasram Kharawala.—285, Samuel Street, Vadgadi, Bombay 3.

Textdyes Corporation.—Manekji Wadia Building, 127, Mahatma Gandhi Road, Fort, Bombay.

Textile Dye-Chem Corporation.—Vincent Court, 3rd Floor, Vincent Road, Bombay 14.

VALIA BROTHERS.—Garibdas Street, Vadgadi, Bombay 3. Phones : 38112, 61281. Grams : "BROSVALIA". Dealers in all kinds of Textile Dyes & Chemicals for Dyeing & Printing.

Vasav & Co.—288, Samuel Street, Bombay 3.

Vinod Colour & Chemical Co.—11, Chakla Cross Lane.

Winsol Chemical Industries.—Tulsi Pipe Road, Dadar, Bombay 28.

ZENITH COLOUR TRADING CO.—317, Vadgadi, Bombay 3. Phone : 34773. Grams : "ZENCOLOUR". Dealers & Repackers in all kinds of Dyestuffs.

EARTH MOVING & MATERIAL HANDLING EQUIPMENT

Balmer Lawrie & Co. Ltd.—5, Graham Road, Ballard Estate, Bombay.

Blackwood Hodge India Private Ltd.—Lotus House, Marine Lines, Bombay 1.

Gaytee & Co.—Janmabhumi Chambers, Fort Street, Bombay 1.

Greaves Cotton & Co. Ltd.—Forbes Street, Bombay 1.

Gujarat Trading Syndicate.—India House (Opp. G.P.O.), Fort Street, Fort, Bombay 1. Phone : 261248. Grams : "GUTRASY."

Kilburn & Co. Private Ltd.—Gresham Assurance House, Sir Phirozshah Mehta Road, Fort, Bombay 1.

Killick, Nixon & Co. Private Ltd.—Home Street, Bombay 1.

Marshall Sons & Co. Ltd.—Marshall Bldg., Ballard Rd., Bombay 1.

Shah & Sunder.—7/10, Horniman Circle, Botawala Building, Bombay 7.

UNITED PROVINCES COMMERCIAL CORPORATION, THE.—16, Bombay Mutual Building, 3rd Floor, Fort, Bombay 1. Telephone No. 261195. Tel. Address : "ADHERENCE." Distributors of Fordson Major Tractors, Agricultural, Road Making, Earth Moving and Haulage Equipment and Manufacturers of Malcolm-Moore Road Rollers. Head Office : 6, Ganesh Chandra Avenue, Calcutta 13. Telephone No. 232161. Tel. Address : "ADHERENCE."

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ELECTRIC GENERATORS (DEALERS)

Champion Engineering Co.—Alice Building, Hornby Road, Fort.

East Asiatic Co. (India) Private Ltd.—Shreenivas House, Waudby Road, Bombay. Phone : 26-2711. Offices at Madras, Calcutta, New Delhi.

Kilburn & Co. Private Ltd.—Gresham Assurance House, Sir Phirozshah Mehta Road, Fort, Bombay 1.

Minerva Machinery Corporation.—Advani Chambers, Sir Phirozshah Mehta Road, Fort. Grams : "Mimacorp".

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ALPHA ELECTRIC & ENGINEERING CO.—30, Calicut Street, Ballard Estate, Bombay. Phone : 26-3881. Licensed Electrical Contractors.

Balmer Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate, Fort.

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DIAMOND ELECTRIC CO.—18, Hamam Street, Fort. Phone : 25-1628. Grams : "LIGHTNING."

ECONOMIC ELECTRIC CO. PRIVATE LTD., THE.—Kareem Manzil, Jail Road, Dongri, Bombay 9. Phone : 71137.

ELECTRIC CORPORATION OF INDIA.—19/21, Hamam Street, Fort, Bombay 1. Phone : 254398.

F. & C. Osler (India) Ltd.—New Queen's Road, Bombay.

F. R. Patel & Co.—Holland House, next to Hotel Majestic, Colaba Causeway, Bombay 1. Water Heater Repairers and Specialists in Reconditioning Everything Electrical, Auto Electricians.

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Harda Electric Supply Co. Ltd.—17-19, Bastion Road, Fort, Bombay.

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MORRIES ELECTRICAL WORKS.—Khan Manzil, 28, Calicut Street, Frere Road, Bombay.

National Electric Company.—11, Elphinstone Circle, Fort, Bombay 1. Phone : 28762. Grams : "ELECTRICAL."

RAJA ELECTRIC WORKS, THE.—Commerce House, 2nd Floor, 140, Medows Street, Fort, Bombay 1. Air-conditioning Plant & Factory Wiring Specialists.

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Saraiya & Co.—17-B, Devkaran Nanjee Building, Elphinstone Circle, Fort, Bombay.

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SHELL ELECTRIC WORKS.—11-13, Horniman Circle, Bombay 1. Phone : 25-5315 (Office), 37233 (Res.). Grams : "SHELL-WORKS".

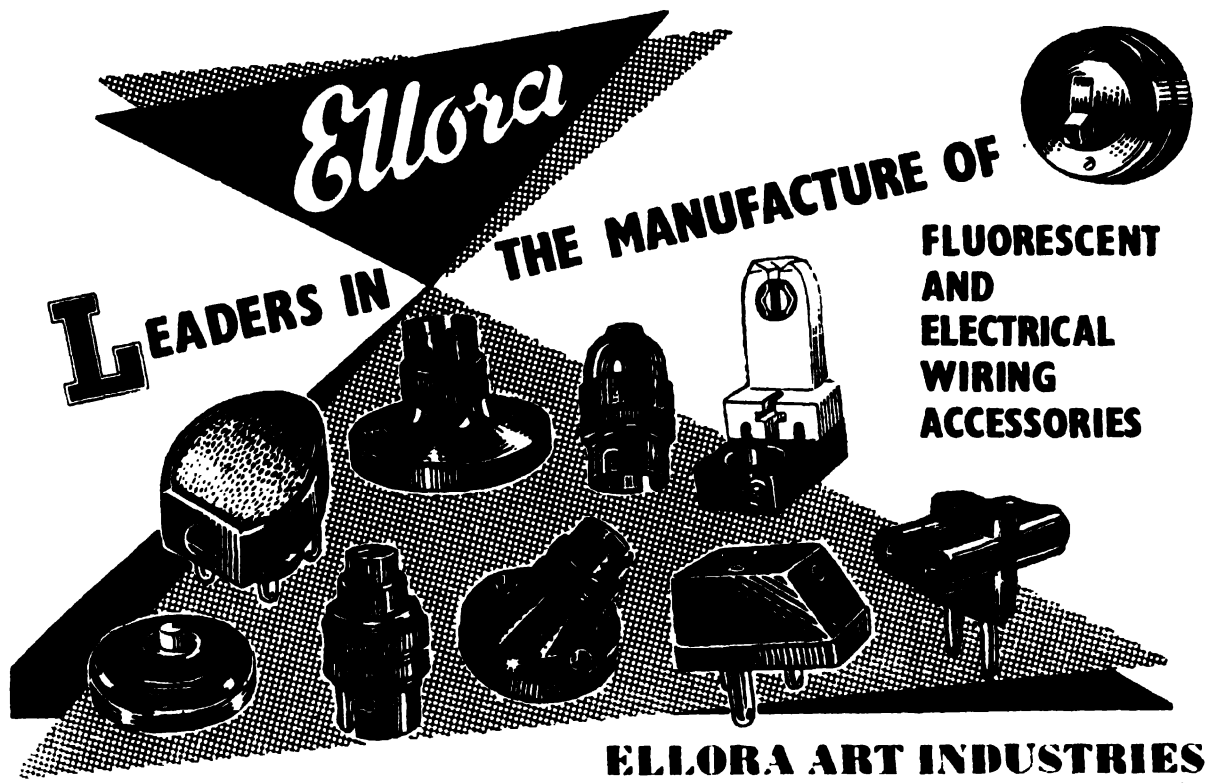
Trinity Electric Syndicate.—Princess Street, Bombay 2.

Vikram Electric Co.—Advani Chambers, Sir Phirozshah Mehta Road, Fort.

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Alladin Virjee Nathani.—Darukhana, Mazagaon, Bombay 10.

Arvind Trading Co. Private Ltd.—105, Apollo Street, Fort.

ASEA ELECTRIC INDIA, PRIVATE LIMITED.—Yaffi Building, Goa Street, Bombay 1.

Ashok Engineering Co.—24, Noble Chambers, Parsi Bazar Street, Fort. Tel. No. 31445. Grams : "Revolution."

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Babcock & Wilcox, Ltd.—16, Queen's Road Estate, Bombay 1.

Balmer Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate, Fort.

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Brady, W. H., & Co., Ltd.—Royal Insurance Building, Vir Nariman Street, Fort.

British Electric Insulating Co.—86, Forbes Street, Fort.

British Engineering Co.—106, Apollo Street, Fort.

British Insulated Callender's Cable Ltd.—Esplanade House, Waudby Road, Fort.

Candy Filters (India), Ltd.—Forbes Building, Home Street, Fort.

Cassinath M. Bomonjee Eduljee.—17/19, Bastion Road, Fort.

Chicago Telephone & Radio Co., Ltd.—127, Mahatma Gandhi Road, Fort

Chotani Electric & Engineering Co., Ltd.—57, Apollo Street, Fort, Bombay.

Crompton Parkinson (Works), Ltd.—Haines Road, Worli, Bombay 18

Damania Electrical & Engineering Works.—Joosub Peermohomed Building, 171, Lohar Street.

Dastur & Sons.—64, Forbes Street, Fort.

DATTA INDUSTRIES.—Sitaram Building, Dadabhoy Naoroji Road, Bombay 1. Phone : 263003. Manufacturers of "D1" Electrical Products such as Metal Clad House Service Cut-outs, Metal Cased W.T. Switches, Plugs and Sockets, Overhead line Materials and General Metal ware.

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DIAMOND RUBBER WORKS (PRIVATE) LTD.—276, Nagdevi Street, Bombay 3. Phone : 20719. Grams : "COMRADE", Manufacturers of Electrical Wires & Cables, Rubber Hose Pipes, Suction delivery, Armoured Suction and delivery, Heel & Soles Rubber Tubings.

Diarvi Trading Co.—64, Old Custom House Road, Fort.

Dinshaw, M. H., & Co.—Apollo Street, Fort, P.O. Box No. 448, Bombay. Phone : 25-1458 Grams : "AHOORAT."

Dodsal Limited.—Mafatlal House, Backbay Reclamation, Bombay 1.

Eastern Electric & Engineering Co.—Established 1909. 127, Mahatma Gandhi Road, Fort. Post Box 459, Bombay.

Eastern Radio & Refrigeration Co.—8, Beaumon Chambers, Medows Street, Fort, Bombay.

Economic Electric Co., Ltd., The.—Jail Road (East), Dongri, Bombay 9.

Electric and General Traders Ltd.—Bombay Mutual Annexe, Gunbow Street, Fort.

Electro Mechanics, Ltd.—Mehta House, Apollo Street, Fort.

Electrical Engineers & Contractors.—Phone : 27034-5-6. Grams : "OSLERCO".

Ellora Art Industries.—Shreeji Bhuvan, Lohar Chawl, Bombay 2. Phone : 34270. Grams : "ELLORART".

English Electric Co., Ltd., The.—249, Dr. Dadabhoy Naoroji Road, Fort, Bombay.
F. & C. Osler (India) Ltd.—New Queen's Road, Bombay.

FLASH INDUSTRIES.—Potia Estate, 292-B, Belasis Road, Bombay 8. Grams: "FLASHWORKS". Manufacturers of 'FLASH' Brand Chokes for Fluorescent Tubes and Moon & Free Lamps.

Gandhi Electric Industries Private Ltd.—Swadeshi Mills Estate, New Queen's Road, Bombay 4.
General Electric Co. of India, Ltd., The.—"Magnet House," Dougall Road, Ballard Estate.

GENERAL ELECTRICAL INDUSTRIES.—113,B, New Parbadevi Road, Bombay 28. Phone: 62926. Grams: "LIGHTUDYOG". Manufacturers of bakelite 'GEI' brand Electrical Accessories.

G. K. Trading Co.—Nawab Bldg., Dr. D. Naoroji Road, Bombay 1.
Great Eastern Trading Co., The.—107, Cawasji Patel Street, Fort.
Greaves, Cotton & Co., Ltd.—1, Forbes Street.
Greaves Cotton & Crompton Parkinson Private Ltd.—1, Forbes Street, Fort.
H. Moolchand & Co.—Parsee Bazar Street, Bombay 1.
Harda Electric Supply Co., Ltd.—17/19, Bastion Road, Fort.

HASAMBHOY JETHA.—Largest Stockists of AC DC Motors, Generators, Engines, Welding Transformers, Sirens, Geared Motors, Reduction Gears, etc. Opp. Byculla Goods Depot, Bombay 27. Phone: 73591-92. Grams: "IRONCASKS".

HAZARI ELECTRIC INDUSTRIES.—Shop No. 24, 4th Pir Khan Street, opp. J. J. Hospital, Gate No. 12, Bombay 8. Phone: C o 75352.

Henley's Telegraph Works Co., Ltd.—Henley House, Ballard Estate.
Herman & Mohatta, B. R., Ltd.—People's Building, Sir Phirozshah Mehta Road, Fort.
Himco (India) Private Ltd.—Kurla Road, Andheri, Bombay 41.
Hind Electric & Engineering Corporation.—183, Princess Street, Bombay 2.
Huge Engineering Co.—Imperial Chambers, Wilson Road, Ballard Estate.

INDIA ELECTRIC WORKS, LTD.—6, Sir Phirozshah Mehta Road, Fort. Phone: 252505. Grams: "MANUFACTER." Manufacturers of I.E.W. Low Consumption Fans, Telephones, Telegraph and Railway Signalling Instruments, Train Lighting Equipment, Pole Fittings, Electrical Accessories, Domestic Appliances, Fractional H. P. Motor and Starters, etc. Repairers of Measuring Instruments, Mechanical and Electrical Engineers and approved Contractors to Railways and I. S. D. Head Office & Factory: Diamond Harbour Road, Behala, Calcutta 34. Instrument Factory: 25, South Road, Entally, Calcutta. Other Branches: Bombay, Calcutta, Delhi, Kanpur, Madras and Patna. Selling Agents for "PRADIP" Lamps. Managing Director: Shri B. K. Rohatgi. Manager: Shri Hariah Chandra.

INDIA METAL TRADERS.—Daya Mandir, 4th Floor, 123 125, Mumbadevi Road, Bombay 3. Manufacturers of Copper Conductors Solid Round and Stranded, Copper Bus Bars Rectangular and Sections. Phone: 73525.

INDIAN INDUSTRIAL ENGINEERS.—43, Tamarind Lane, Fort. Phone: 255514. Grams: "NEWLIGHT."

Indian Wild-Barfield Co., Private Ltd.—Annie Besant Road, Worli, Bombay 18.

INDUSTRIAL & AGRICULTURAL ENGINEERING CO. (BOMBAY) PRIVATE LTD.—43, Forbes Street, Fort.

Industrial Electrical Engineering Co.—Raja Bahadur Mansions, 10, Hamam Street, Fort.
International Electric Corporation.—49, Forbes Street, Fort.
International Electric Trading Co.—Devkaran Bldg., Princess Street, Bombay 2.

INTERNATIONAL GENERAL ELECTRIC CO. (INDIA) PRIVATE LTD.—Thackersey House, Graham Road, Ballard Estate.

Jacks, William & Co., Ltd.—Hamilton House, Graham Road, Ballard Estate, Fort.
Jagmohandas, H., & Co.—Ashok Building, 16, Princess Street.
Jayems Engineering Co.—Warden House, Sir Phirozshah Mehta Road, Fort.

JOHNSON & PHILLIPS LTD.—Kaiser-I-Hind Building, Currimbhoy Road, Ballard Estate, Bombay. Phone: 26-2467. Grams: "JOHNPHIL."

JOST'S ENGINEERING CO., LTD.—Great Social Building, Sir Phirozshah Mehta Road, Fort, Bombay 1.

JOSTLE TRADING CORPORATION PRIVATE LTD.—Maskati Mahal, Lohar Chawl, Bombay 2. Phone: 29823. Grams: "CORPJOSTLE." Direct importers & Stockists of Electrical goods, Cables, Accessories, Switchgears, Conduit Pipes and Fittings, Fluorescent Tubes and Fixtures, Industrial Reflectors and Over-head line materials, and Licensed Contractors & on the approved list of Railways, D.G.S. & D., Municipalities, P.W.D. etc. Agents for 'MAVRUP' Wires.

Kanji Govind Kerson.—Murbad Road, Kalyan, Bombay.

KAYCEE INDUSTRIES LTD.—Kamani Chambers, Nicol Road, Ballard Estate, Bombay 1. Phone: 262757. Grams: "KAYCE". Representatives for "WESTINGHOUSE" Metal Rectifiers; "CHARMILLES" Water Turbines; "BRENTFORD" Voltage Regulators; E.T. Switchgear, Wires & Cables; MOSS & GAMBLE BROTHERS" High Speed Steel and Alloy Steel; "SANTON" Rotary Switches; "MARELLIE" Exhaust Fans etc. etc.

KERSONS MANUFACTURING CO. OF INDIA PRIVATE LTD., THE.—Gopal Nivas, Lohar Chawl, Bombay 2. Phone: 20479. Grams: "SNIPE."

KESBO (PRIVATE) LTD. (Formerly known as The Karachi Electric Stores (Bombay) Ltd.).—Office: Bombay Mutual Terrace, 534, Sandhurst Bridge, Bombay 7. Grams: "RECTIFIERS." Phone: Office: 71643.

KIRONKUMAR ELECTRICAL TRADING CORPORATION.—66, Mangaldas Road, Bombay 2. Post Bag No. 2760. Grams: "KIRKUTCO." Direct Importers of Electrical Appliances, Wires and Fluorescent Tubes and M.E.M. Switches and Starters. Phone: C/o 38136.

KUMAR ELECTRIC EQUIPMENT CO.—82, Lohar Chawl, Bombay 2. Phone: 38614.

London, Eastern & American Trading Co.—22, Hamam Street, Fort.
Mahindra & Mahindra Ltd.—Gateway Building, Apollo Bunder, Fort.
Malik Electric Works.—Low Level, Victoria Road, Mazagaon.
Maneckji, G. B., & Co. Ltd.—Mehta House, Apollo Street, Fort.
Manu Electric & Engineering Works.—Kanji Goculdas Building, 190 Lohar Chawl.
Mather & Platt, Ltd.—Hamilton House, 8, Graham Road, Ballard Estate.
Mech Electric Industries Private Ltd.—12, Rampart Row, Bombay 1.
Mehta & Co., Private Ltd., K. L.—35, Bhangwadi, Kalbadevi Road, Bombay 2.

METROGOLD ELECTRIC STORES.—60, Lohar Chawl, Bombay 2. Phone: 39675, Grams: "FLEXIBLE." Importers and Stockists of Industrial and Home appliances such as, Pedestals, Ceiling and Table fans, Fancy lighting fittings, switchgear, air-circulators, exhaust fans, conduits, wires and cables, electric heating and cooking appliances, hair dryers, electric dry shavers, etc. Manufacturers of GETCO super table lamps, wall brackets and electrical bakelite accessories. Agents for MEYER electric baking and roasting ovens and EGO-SUPER hotplates (Germany). Specialists in service after sale.

MIDWAY SERVICE CORPORATION (INDIA).—Shree Krishna Niwas, Abdul Rehman Street, Bombay 3. Phone: 34557. Grams: "GUNTINE". Licensed Electric Contractors. Sole Distributors of "Simplex" Geysers & Water Heaters.

Minerva Trading Agency, The.—58, Forbes Street, Fort.
Modern Electric Co.—40, Cawasji Patel Street, opp. Hongkong Bank, Fort, Bombay 1.

MODERN ELECTRIC CORPORATION.—Byramji Mansion, Sir Phirozshah Mehta Road, Fort, Bombay. Phone: 262120 Maintenance Contractors and Repairers of Rectifiers, Radios, Tape Recorders, Transformers, Motors, Amplifiers, etc

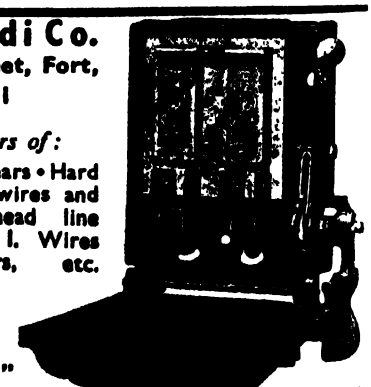
Modern Engineering Co.—107, Apollo Street, Fort.

Modi & Modi Co.
16, Hamam Street, Fort, Bombay 1

Direct Importers of:

"MEM" Switch gears • Hard drawn copper wires and strips • Overhead line Materials • G. I. Wires Circuit breakers, etc.

Phone: 252619
Grams: "REFLECTORS"



National Conduits Ltd.—Dahisar (East), P.O. Borivli, Bombay.
NATIONAL ELECTRIC COMPANY.—101, Himalaya House, Palton Road, Bombay 1. Grams: "BILLION". Manufacturers of P.V.C. Wires, Cables, Tubings & Sleevings.
National Electrical Industries Ltd.—Laibaug Industrial Estate, Laibaug, Bombay 12.

NATIONAL SWITCHGEAR CO.—Room No. 19, Shriji Bhuvan, Lohar Chawl, Bombay 2. Grams: "NASWITCHCO". Manufacturers of Electric Motor Starters upto 20 H.P. Motors.

Noble Electric Works.—Rustom Building, 27, Vir Nariman Street, Fort.

OCEAN ELECTRIC CO.

Dahanukar Bldg., 490, Kalbadevi Road,

Bombay 2.

Manufacturers of

"OCEAN" MAKE ELECTRICAL WIRING ACCESSORIES.

Phone: 76940 Grams: OCEANTIKU

OSHAM INDUSTRIES.—302, Kalbadevi Road, Bombay 2. Grams: "DELIWICH". Manufacturers of Electrical Accessories.

Oscar, F. & C., Ltd.—Swadeshi Mills Compound, New Queen's Road, Bombay 4.

PARAMOUNT COMMERCIAL CORPORATION PRIVATE LTD.—Prospect Chambers Annexe, 17 21, Horaby Road, Bombay 1. Phone: 251830. Grams: "COCOASS." Manufacturers of "PARAMOUNT" Conduit Pipes & Fittings used for Electrical Wirings. Importers of MEM Switchgears, Wires and all kinds of electrical goods.

Paramount Engineering Co.—Fort Chambers, Hamam Street, Fort.

Paramount (India), Ltd.—Kermani Building, Sir Phirozshah Mehta Road, Fort.

Parry & Co., Ltd.—Warden House, Sir Phirozshah Mehta Road, Fort.

Patel Electric Co., Ltd.—Vithal Sayana Building No. 2, Lohar Chawl Bombay 2.

Photophone Equipments Ltd.—Fazalbhoy House, 8-9, Marine Lines.

PIONEER ELECTRICAL LABORATORIES.—Factory: Jacob Circle, Bombay 11. Office at 2, Court House, Dhobi Talao, Bombay 2. Phone: 30634. Grams: "NEWAIDS". Manufacturers of Electrical Appliances, Fluorescent Chokes & Patties.

Premier Electric Co., Ltd.—Mehta House, Apollo Street, Fort.

PREMIER RUBBER & CABLE INDUSTRIES.—Jamal Building, 211, Nagdevi Street, Bombay 3. Phone: 36582. Grams: "RUBERGOODS". Manufacturers of Rubber Insulated Cables V.I.R.—C.T.S. and Weather Proof, etc.

Prem Engineering Co. Ltd.—173, Jamshedji Tata Road, Churchgate, Bombay.

RAVIN TRADING COMPANY.—41, Mehatta Market, Palton Road, P.O. Box No. 1969, Bombay 1. Grams: 'REWITCH'. Dealers in everything Electrical, Overhead Line Materials, Copper Conductors, MEM Switchgear, HT & LT Insulators, Wires & Cables etc.

RATANSI MORARJI PRIVATE LTD.—Prospect Chambers, 317-21, Dr. Dadabhai Naoroji Road, Fort, Bombay 1. Phone: 33265. Grams: "SHRIJAMINI." Machinery, Material Handling Equipment, Water Purification and Treatment Plants, and Chemicals.

Reliance Engineering Co., Private Ltd —Amar Bldg., Sir P. M. Road, Fort, Bombay.

Richardson & Cruddas.—Byculla Iron Works, Byculla.

Rochat, H. L., & Co.—Navsari Building, Bastion Road, Fort.

Royal Electric Co.—Muljee Jetha Building, 193, Princess Street, Bombay 2

SANKEY ELECTRICAL STAMPINGS PRIVATE LTD.—Factories: Shalimar, Calcutta and Bhandup, Greater Bombay. Regd. Office: Mookerjee House, 17, Brabourne Road, Calcutta. Manufacturers of Stampings for Electrical Trade. Managing Director: K. C. Maitra. Phones: Managing Director: 67268. Residence: 42296. Office: 67934-5. Grams: "LOWLOSS BOMBAY." Bombay Commercial Office: Agra Road, Bhandup. Accounts Office: Wakefield House, Sprott Road, Bombay 1. Telephone: 261753-9. P.O. Box No. 121-B, Bombay 1.

Shah H. F., & Co.—Ahmed Building, Golpitha, Bombay 4.

SHANTILAL & CO., PRIVATE LTD.—186-187, Abdul Rehman Street Bombay 3. Phone: 35074. Grams: "GENIUS". COOLITE Fluorescent Fixtures.

Sharif Electrical Works.—Sharif House, 74, Custom House Road, Fort.

Sharda Electric & Radio Co. Private Ltd.—Lohar Chawl, Bombay 2. Phone: 20478. Grams: "TEAKCASING."

Shell Electric Works.—Botawala Building, 11-13, Elphinstone Circle, Fort.

SHREE NURSINGSAHAY MUDUNGOPAL ELECTRIC CO. PRIVATE LIMITED.—45 47, Lohar Chawl, Bombay 2. Phone: 22036. Gram: "PUSHTIMARG." Head Office: Calcutta. Branches: Delhi, Kanpur and Madras. Dealing in—Wires, Lamps, Fans, Conduit Pipes and Accessories (Selling Agents for Kaycee Lamps, True Point Bakelite Accessories, Cinni Fans).

Siemens Edison Swan Ltd.—United India Bank Bldg., Sir Pherozshah Mehta Road, Bombay 1.

SIEMENS ENGINEERING & MANUFACTURING CO. OF INDIA PRIVATE LTD.—Importers and manufacturers of all types of Electrical Equipment, Steam & Hydro-power plants, Electrical precision machinery, instruments, cables, Telephone and Telecommunication Equipment, Electricity meters, Water Meters and other Electrical Appliances. Head Office: 81 83, Veer Nariman Road, Bombay 1. Phone: 35007-8-9. Grams: "SIMENDEL." Branches: Calcutta, Delhi.

SOUTHERN ELECTRIC CORPORATION.—123, Himalaya House, Palton Road, Bombay 1. Phone: 261841. Grams: "SWITCHFUSE".

S. & S. INDUSTRIES.—10, Sitafalwadi, Mount Road, Mazagaon, Bombay 10. Manufacturers of Bus-Bar Trunking, L.T. Cable Boxes, Fluorescent Fixtures, Sheet Metal Jobs & Panel Boards.

Stone, J. & Co. (India), Ltd —Imperial Chemical House. Wittet Road, Ballard Estate.

Stork Electric Co.—6, Proctor Street, Grant Road, Bombay 7.

Supreme Electric Works.—110-112, Vithalwadi, Bombay 2.

Surya Prakash Engineering Co.—21, Forbes Street, Fort.

Tata Hydro-Electric Agencies Ltd.—Bombay House, 24, Bruce Street.

Thaker Electric Stores.—37, Vithalwadi, Kalbadevi.

T. M. Tyabji & Bros.—32-38, Hamam House, Hamam Street, Fort.

Trinity Electric Syndicate —Princess Street, Bombay 2.

Turner, Hoare & Co., Ltd.—Gateway Building, Apollo Bunder.

United Eastern Agencies, Ltd.—144-146, Mahatma Gandhi Road, Fort.

UNITED INDIA ENGINEERING CO.—76 78, Old Custom House Road, Fort, Bombay 1. Phone No. 25-1492. Grams: "UNICONARAM." Engineers and Machinery Dealers. Sales & Showroom: Commerce House, Medows Street, Fort, Bombay 1.

UNITED INDUSTRIAL EQUIPMENT CO.—21, Western India House, Sir Phirozshah Mehta Road, Bombay 1. Phone: 25-3563. Grams: "VOLTAMPS" Electrical Engineers & Machinery Dealers.

VOLTAS LIMITED.—Ballard Estate, Bombay 1.

Western Agencies Co —421, Lamington Road, Bombay 4.

Western Engineering Co.—Western India Building, Sir Phirozshah Mehta Road, Fort.

Western India Electric Co., Ltd.—Tambuwala's Building, 96, Upper Duncan Road, Byculla.

Western India Engineering Corp., Ltd.—Cama Chambers, 23, Medows Street, Fort.

Western Traders (India), Ltd.—Post Box No. 9, Bombay.

WESTINGHOUSE TRADING CO. (ASIA) LTD.—"The International," 16, Queen's Road, Bombay 1. Phone: 24-1094.

ELECTRIC FURNACES

Automachines (India) Private Ltd.—111-A, Mahatma Gandhi Road, Bombay 1.

Gordhandas Desai Private Ltd —Kermani Bldg., Sir P. M. Road, Bombay 1.

Himco (India) Private Ltd.—Kurla Road, Andheri, Bombay 41.

Kilburn & Co. Private Ltd.—Gresham Assurance House, Sir Phirozshah Mehta Road, Fort, Bombay.

Pioneer Equipment Co., Private Ltd.—139, Medows Street, Bombay 1.

Shah Engineering Stores.—88-92, Nagdevi Cross Lane, Bombay 3.

Thermo-Electric Equipment Co.—59, Commercial Chambers, Musjid Bunder Road, Bombay 3, Factory: Tripunitura, Kerala State.

Thos. W. Ward (India) Ltd.—Marshall Building, Ballard Road, Ballard Estate, Fort.

ELECTRIC GOODS
(IMPORTERS, STOCKISTS & DEALERS)

Advani & Company.—7, Shahvirl Bldg., 37-41, Picket Road, Lohar Chawl, Bombay 2.

ANUPAM ELECTRIC COMPANY.—Rajabahadur Bldg., 3rd Floor, 24-B, Hamam Street, Fort, Bombay 1. Stockists of C.M.A., I.C.C. and NICCO Cables. Dennis Switches.

Arvinda Trading Co. Private Ltd.—105, Apollo Street, Fort.

ASIATIC ELECTRIC TRADING CO.—46 48, Lohar Chawl, Bombay 2. Phone : 29886. Grams : "ASIALIGHT."

Balmer Lawrie & Co., Ltd.—8, Graham Road, Ballard Estate, Fort.

B. B. Electric & Auto Stores.—98, Princess Street, Bombay 2.

BOMBAY INSULATED CABLES & WIRES CO.—10, Himalaya House, Gr. Floor, 79, Palton Road, Bombay 1. Phone : 261383. Armature Winding Wires and other Accessories for Winding purposes. V.I.R., C.T.S., Wires of Callender's, Paramite & Henley's etc. and jointing materials for underground Cable, its Accessories and underground Cables.

Boulton Trading Corporation—112, Medows Street, Bombay 1.

CHAMPAKLAL & COMPANY.—Shreeji Bhuvan, Lohar Chawl, Bombay 2. Phone : 38836. Grams : "ELECGOODS". Importers, Wholesale distributors and Government Contractors of Electric Wiring Materials, Winding Wires, Insulating Materials, Switchgear, etc.

Chandra Trading Co., P.—2, Bhajekar Street, Khetwadi Main Road, Bombay 4.

Chicago Telephone & Radio Co., Ltd.—127, Mahatma Gandhi Road, Fort.

Choksi Electric Co.—148, Princess Street, Bombay 3.

Chunilal Desai & Co.—Gool Mansion, Homji Street, Fort.

Chunilal Raichand.—Lalsingh Bldg., Lohar Chawl, Bombay 2.

C. K. Shah & Co.—35, Vithaldas Road, Lohar Chawl, Bombay 2.

DASWANI BROS.—53, Queen's Road, opp. Marine Lines Station, Bombay 2. Phone : 34617. Gram : 'CIRCLINE'. Agents 'GNE' Electric Brass holders, Bakelite Switches, Plastic Wires & Cables, Fluorescent Tube holders & Accessories.

Diarvi Trading Co.—64, Old Custom House Road, Fort.

Doctor Shah & Co.—Swadeshi Mills Estate, Bombay 4.

Economic Electric Co., Ltd.—Jail Road (East), Dongri, Bombay 9.

Electricals (India) Ltd.—24 B, Hamam Street, Fort, Bombay.

Emiiria (India) Ltd.—Sai Bhuvan, Princess Street, Bombay 2.

G. K. Trading Co.—Nawab Bldg., Dr. D. Naoroji Road, Bombay 1.

Phone : 253877 Grams : "MULTIPLUG"

G. K. TRADING CO.

Office : 327, Hornby Road, Bombay 1

Showroom : 61, Mangaldas Road, Bombay 2

Direct Importers & Agents for :

ELECTRICAL APPLIANCES, ACCESSORIES & LAMPS

Ask for :

"ROWENTA" & "JEKA" German Made Appliances, Special Lamps, P. P. B. Electrical Accessories, and NUTONE Plastic Shades.

GOKALCHAND DAMANI.—22, Kitchen Garden Lane, Lohar Chawl, Bombay 2. Phone : 29715. Grams : 'SARVADHAR". Importers, Stockists & Wholesale dealers in Everything Electrical.

Great Eastern Trading Co.—107, Cawasji Patel Street, Fort, Bombay 1.

Harda Electric Supply Co., Ltd.—17-19, Bastion Road, Fort.

Hasambhoy Jetha.—Opp. Byculla Goods Depot, Parel Road, Bombay 27.

H. T. Shah & Co.—Ahmed Building, Golpitha, Bombay 4.

HIMATLAL & CO.—19, Hamam Street, Fort, Bombay. Grams : 'HOMELIGHT'. Importers of Electrical goods, Machinery, Cycles & Cycle parts.

Hindustan Electric & Radio Corporation.—Khambata Lane, Bombay 4.

INDIA ELECTRO TRADERS.—157, Princess Street, Bhabha Bldg., Bombay 2. Phone : 22326. Grams : "INDELECTRO."

Indo-European Trading Agencies.—4th Floor, Byramji Mansion, Sir Phirozshah Mehta Road, Fort, Bombay.

INTERNATIONAL ELECTRIC TRADING CO.—Direct Importers and Stockists of Wiring Accessories, M.E.M. I.C. Switches, Fuse units and Meter Control gears, Conduit pipes and Conduit accessories, Fans, Meters, Wires and Cables, Fluorescent tubes and its accessories and Electric lamps, etc., Devkaran Mansion, Block No. 2, 1st Floor, 63, Princess Street, Bombay 2. Grams : "INTERLITE." Phone : 20613.

Jacks, William & Co., Ltd.—Hamilton House, Graham Road, Ballard Estate, Fort.

JAIN, P. D. & BROTHERS.—111, Lohar Street, Bombay 2. Phone : 38718. Gram : "MARTCASING". Manufacturers of Electrical Wooden Materials & Dealers in everything Electrical. Specialists in overhead line materials.

Jostle Trading Corporation Ltd.—Maskati Mahal, Lohar Chawl, Bombay 2.

Phone : 262729 Grams : "KARELECT"

KARACHI ELECTRIC (CABLE) CO.

Himalaya House, 79, Palton Road, Bombay 1

Direct Importers of

ELECTRICAL GOODS

Ask for (PROMPT SHIPMENT)

M. E. M. STARTERS & SWITCHES

Branches :

7A, Florence Mansion 15, Free School St. Calcutta 16	Bissomal Colony Behind State Bank of India Chandni Chowk, Delhi 6	11, Philips St G. T. Madras

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Kilburn & Co., Private Ltd.—Gresham Assurance House, Sir Phirozshah Mehta Road, Fort, Bombay.

Manseta, N., & Bros.—165, Lohar Chawl, Fort.

METROGOLD ELECTRIC STORES.—60, Lohar Chawl, Bombay 2. Phone : 39675. Grams : "FLEXIBLE." Importers and Stockists of Industrial and Home appliances such as Pedestals, Ceiling and Table fans, Fancy lighting fittings, switchgear, air-circulators, exhaust fans, conduits, wires and cables, electric heating and cooking appliances, hair dryers, electric dry shavers, etc. Manufacturers of GETCO super table lamps, wall brackets and electrical bakelite accessories. Agents for MEYER electric baking and roasting ovens and EGO-SUPER hotplates (Germany). Specialists in service after sale.

Minerva Machinery Corporation.—22, Apollo Street, Fort.

MODI ELECTRIC SYNDICATE.—Picket Road, Lohar Chawl, Bombay 2. Grams : 'BIJLISHOP.' Phone : C/o 29819.

Modi & Modi Co.—16, Hamam Street, Fort.

M. C. MODY & BROS.

DIRECT IMPORTERS &
DISTRIBUTORS OF ELECTRICAL GOODS

125A, Lohar Chawl, P.O. Box No. 2158, Bombay 2

M.E.M. Switch, Fuse & Motor Control Gear, Conduit Pipes & Fittings, Wires & Cables, Lamps, etc., etc.

Phones : 34326 & 30982 - Grams : "WALLPLUGS"

ORIENT GENERAL AGENCIES.—Hamam House, Hamam Street, Bombay 1. Phone C/o 251892. Grams : "SUNMERCOOL". Distributors for 'ORIENT FANS' for the State of Bombay.

Oriental Traders Corporation.—Makharia House (opp. Parekh Hospital), 327, Sandhurst Road, Bombay 4.

Paramount (India) Ltd.—Kermani Building, Sir Phirozshah Mehta Road, Fort, Bombay 1.

Pavri, J. K.—Karim Chambers, Hamam Street, Fort.

PRAKASH TRADERS.—Sai Bhuvan, 143, Lohar Chawl, Bombay 2. Grams: "FUSEHOLDER". Direct importers & Exporters of Electrical Goods & Accessories.

Raichand & Sons.—5, Picket Cross Road.

RAJNI ELECTRIC CORPORATION.—272, Masjid Bunder Road, P.O. Box No. 3083. Bombay 3. Manufacturers of H.D.B. Copper conductors (Solid & Standard) and strips.

RAVAL & CO.—Shreeji Bhuvan, Lohar Chawl. Post Box No. 2279, Bombay 2. Phone: 23720. Grams: 'GODSPEED'. Branch Office: 1896, Gandhi Road. Ahmedabad. Phone: 4882. Dealers in Everything Electrical, Specialised in Wire & Cables.

Refrigerator & Appliances Co. Ltd.—Victory Court, 84, Queen's Road, Bombay 1.

SHAH TRADING CO.—Lawyers Chambers, Picket Cross Road, Lohar Chawl, Bombay 2. Phone: 29534.

Sharda Electric & Radio Co. Ltd.—Lohar Chawl, Bombay 2. Phone: 20478. Grams: "TEAKCASING".

Shivlal Shah & Co.—Mahakali Chawl, Pydhownie, Bombay 3.

SHREE MAHAVIR ELECTRIC TRADING CO.—182, Zaveri Bazar, Bombay 2. Grams: "DIPOTSAVI." Telephone No. 30722. Direct Importers of Electric Accessories & Wires, Lamps, Fluorescent Tube Lights.

Simplex Electric Trading Corporation.—Great Eastern House, 249, Frere Road, Fort.

S. K. & CO.—Gopal Nivas, 133, Princess Street, Bombay 2. Dealers in everything Electrical and Fluorescent Lamps.

Solar Electric Trading Co.—11, People's Bldg., Sir Phirozshah Mehta Road, Fort.

Spence Ltd.—Gowalia Tank Road, Bombay 26.

SPENCER ELECTRIC CO.—413-G, Vasant Wadi, Kalbadevi Road, Bombay 2.

Stork Electric Co.—6, Proctor Street, Grant Road, Bombay 7.

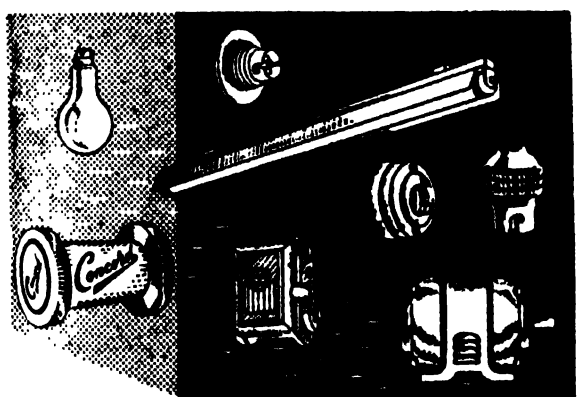
Sunil Electric Co.—Kanji Goculdas Building, 158, Lohar Chawl.

T. M. Tyabji & Bros.—32-38, Hamam House, Hamam Street, Fort.

Venus Electric Co.—Keravala Building, Mangaldas Road, Bombay 2.

V. S. ROY & CO., ESTD. 1919.—185, Lohar Chawl, Bombay 2. Phone: 30644. Grams: 'GATESTAND'. Importers & Suppliers of Electrical goods.

Westrex Co., India.—Metro House, Mahatma Gandhi Road, Bombay 1.



ELECTRICAL GOODS & APPARATUS IMPORTERS

ALPHA ELECTRIC AND ENGINEERING CO.—30, Calicut Street, Ballard Estate, Bombay. Phone: 26-3881. Importers of all types of Electrical Machinery and Equipments.

ASIATIC ELECTRIC TRADING CO.—46 48, Lohar Chawl, Bombay 2. Phone: 29686. Grams: "ASIALIGHT."

Economic Electric Co. Ltd.—Jail Road (East), Dongri, Bombay 9.

J. V. Mehta & Co.—Opera House Tram Terminus, Lamington Road, Bombay 4.

Kilburn & Co. Private Ltd.—Gresham Assurance House, Sir Phirozshah Mehta Road, Bombay.

Scientific Instrument Co., Ltd.—Navsari Building, 240, Dr. Dadabhai Naoroji Road (Hornby Road), Fort.

ELECTRICAL GOODS AND APPLIANCES

Ahmed & Co.—Lohar Street, Bombay 2.

Ahmed A. Fazalbhoy.—30, Queen's Road, Bombay 1.

Ahoora Trading Co.—22D, Parsi Bazar Street, Fort.

ALLIANCE ELECTRIC MART.—67, Lohar Chawl, Bombay 2. Phone: 39229. Grams: 'ALLIANCE'.

Allied Exporters.—Kumud House, 267, Dr. Dadabhoy Naoroji Road, Fort, Bombay.

All India Trading Corporation.—25, Bank Street, Fort. Grams: "Autoglass." Agents for Paisa Fund Opal Globes.

AMERICAN ELECTRIC & ENGINEERING CO.—11 12, "Himalaya House," Corner of Hornby and Palton Roads, Bombay 1. Phone: 263575. Grams: "AMERICTRIC."

Arvinda Trading Co. Private Ltd.—105, Apollo Street, Fort.

ASIATIC ELECTRIC TRADING CO.—"The House of Electrical Varieties", 46-48, Lohar Chawl, Bombay. Phone: 29686. Grams: "ASIALIGHT." Direct Importers and Stockists of all Electrical and Radio Goods. Sole Distributors for German "LIBELLE" 8" Multi purpose Fan which fits in anywhere you want it like a "bulb" AND "JUNO" German Cooking Ranges, and "EGO" German Electric Heating Elements. Main Stockists of "Mareilli" "KDK" Table Fans — AND INDUSTRIAL Exhaust Fans AND AIR CIRCULTATORS & Pedestal Fans. Suppliers of everything in Electrical line for Industry & Domestic Use Manufacturers of "AE" Brand Electrical Goods & Domestic Appliances.

Auto & Electric Stores.—Bhangwadi, Kalbadevi Road, Bombay 2.

Balmer Lawrie & Co., Ltd.—Graham Road, Ballard Estate, Bombay 1.

B. B. Electric & Auto Stores.—98, Princess Street, Bombay 2.

Bharat Electric Supply Traders.—542, Sandhurst Bridge, Chowpaty, Bombay 7.

Bhargava & Co., K. L.—94, Medows Street, Fort.

Bijlee Products (India) Ltd 36, Lamington Road, Byculla, Bombay 8.

BIPINKUMAR ELECTRIC CORPORATION.—14, Tavawala Building, Lohar Chawl, Bombay 2. Dealers: M.E.M. Copperwires, Fans, Meters, Accessories & Everything Electrical. Grams: "BIPINDEV." Phone: 30684. Sole Agents for "TROPEX CABLES," VIR CTS and weather proofs.

Bombay Building Materials Trading Company.—73, Medows Street, Fort.

Calcutta Electrical Mfg. Co. Ltd., The.—Advani Chambers, Sir Phirozshah Mehta Road, Fort, Bombay 1.

Candy Filters (India), Ltd.—Forbes Building, Home Street, Fort.

Casainath M. Romonjee Eduljee.—17/19, Bastion Road, Fort.

Chandrodaya Electric Co.—Bhangwadi, Kalbadevi Road, Bombay 2.

Chimanlal Desai & Co.—Gool Mansion, Homji Street, Fort.

Chotani Electric & Engineering Co. Ltd.—57, Apollo Street, Fort Bombay

Cinefones.—Opp. Opera House, 3, New Queen's Road, Bombay 4.

Cinesales.—Tutorial School Building, Kennedy Bridge, Bombay 7.

City Radio Co.—Malabar Mansion, Colaba Causeway, Fort

D. BHAGWAN & COMPANY.—36, Nawab Building, 327, Hornby Road, Fort, Bombay 1. Phone: 255560. Grams: "DEEBEECOM." Importers and Dealers in Electrical Lamps, Fans, Switchgear, Cooking Appliances, Fluorescent Fittings, Wiring Accessories, House Service Meters etc.

Damania Electrical Engineering Works.—171, Lohar Chawl, Bombay 2.

Deepak Electric Corporation.—44, Bhangwadi, Kalbadevi.

Devidayal Stainless Steel Industries Private Ltd. - Darukhana, Reay Road, Bombay 10. Phones: 70558-59 73586. Grams: "DEVISTEEL."

DIAMOND ELECTRIC CO.—18, Hamam Street, Fort. Phone: 25-1628. Grams: "LIGHTNING."

Eastern Electric & Radio Corpn.—Lohar Chawl, Bombay 2.

Eastern Trading Co.—Vithal Sayana Building, Lohar Chawl, Bombay 2.

Economic Electric Co., Ltd.—Jail Road (East), Dongri, Bombay 9.

Electric & General Trades, Ltd.—Bombay Mutual Annexe, Gunbow Street, Fort.

ELECTRICALS (INDIA) PRIVATE LIMITED.—24-B, Hamam Street, Fort, Bombay, P.O. Box No. 1458. Grams: 'BIJLIHIND'. Phone: 252009. Importers and Dealers in all Electrical Goods, Overhead line materials and Motor Winding materials. Agents for L. P. S. Electrical Co., Ltd., England. Lindner & Co., Germany and Midland Electric Manufacturing Co., England.

Essential Engineering Co.—11, Botawala Building, Elphinstone Circle, Fort.

G. K. Trading Co.—Nawab Bldg., Dr. D. Naoroji Road, Bombay 1.

Gandhi Electric Industries Private Ltd.—Swadeshi Mills Estate, New Queen's Road, Bombay 4.

Gangaram Sharma & Co.—Kanchan Bhawan, 15, Dadiseth Agiari Lane, Bombay 2.

Gannon, Dunkerley & Co., Ltd.—Chartered Bank Building, Mahatma Gandhi Road, Fort.

Gaytee & Co.—Janmabhomi Chambers, Fort Street, Bombay 1.

General Electric Co. (India) Ltd.—Magnet House, Dougall Road, Ballard Estate.

General Radio & Appliances Ltd.—Opera House, Bombay 4.

GLOBE ELECTRIC & TRADING CO.—14 16, Devkaran Mansion, Vithaldas Road, Lohar Chawl, Bombay 2. Phone: 39675. Grams: 'FLEXIBLE'.

Greaves Cotton & Crompton Parkinson Private Ltd.—Forbes Street, Bombay 1.

Harda Electric Supply Co.—17/19, Bastion Road, Fort.

Herman & Mohatta, B. R., Ltd.—People's Building, Sir Phirozshah Mehta Road, Fort.

Himco (India) Private Ltd.—Kurla Road, Andheri, Bombay 41.

Hindustan Electric & Radio Corporation.—Khambata Lane, Bombay 4.

Huge Engineering Co.—Imperial Chambers, Wilson Road, Ballard Estate, Fort.

India Electro Traders.—157, Princess Street, Bombay 2.

Indian Electric Stores.—123, Lohar Chawl, Bombay 2.

Industrial Machinery & Tools Corporation.—Indira Nivas, 1st Floor, New Bhatwadi Street, Bombay 4.

Jashwantlal Maneklalji & Co.—40, Churchgate Street, Fort.

Jayems Engineering Co.—Warden House, Sir Phirozshah Mehta Road, Fort.

Jhaveri Bros. & Co. Private Ltd.—(Established 1914). Novelties and Gift Specialists. Electrical Appliances—Electrical Clocks, etc. Sole Agents in India for "Sole" Electric Shavers Made in Japan. Three showrooms in Bombay City. (1) 345, Abdul Rehman Street (Near Crawford Market) (2) Metro Cinema Building, Dhobi Talao. (3) Medows Street (Near Flora Fountain). Grams: "GIFTS". Phone: 22096.

J. Mody & Co.—97, Nagdevi St., Bombay 3

Johnson & Phillips Ltd.—Currimbhoy Road, Ballard Estate, Bombay 1.

Jostle Trading Corporation.—Maskati Mahal, Lohar Chawl, Bombay 2.

KESBO (PRIVATE) LTD., (Formerly known as the Karachi Electric Stores (Bombay) Ltd.).—Office: Bombay Mutual Terrace, 534, Sandhurst Bridge, Bombay 7. Grams: "RECTIFIERS." Phone—Office: 71643.

Killick Nixon & Co. Private Ltd.—Home Street, Bombay 1.

KIRTIKUMAR ELECTRIC CORPORATION.—12. Tavawala Bldg., Lohar Chawl. Bombay 2. P.O. Box 2060, Electric & General Merchants. Office Phone: 29894. Residence Phone: 42689. Grams: "KIRTICORP."

Markel & Co.—Makharia House, 327, Sandhurst Road, Bombay 4.

M. C. Mody & Bros.—Maskati Mahal, 125-A, Lohar Chawl, Bombay 2.

Mehta, J. V., & Co.—Opera House, Tram Terminus, Bombay 4.

METROGOLD ELECTRIC STORES.—60, Lohar Chawl, Bombay 2. Phone: 39675. Grams: "FLEXIBLE" Importers and Stockist of Industrial and Home appliances such as, Pedestals, Ceiling, and Table fans, Fancy lighting fittings, switchgear, air-circulators, exhaust fans, conduits, wires and cables, electric heating and cooking appliances, hair dryers, electric dry shavers, etc. Manufacturers of GETCO super table lamps, wall brackets and electrical bakelite accessories. Agents for MEYER electric baking and roasting ovens and EGO-SUPER hotplates (Germany). Specialists in service after sale.

Midway Service Corporation (India).—Shree Krishna Nivas, Abdul Rehman Street, Bombay 3.

Modern Electric Co.—46, Cawasji Patel Street, opp. Hongkong Bank, Fort, Bombay 1.

Modern Electrical Trade Syndicate.—Wasiamul Building, 182, Musjid Bunder Road, Bombay 3.

Modern Radio & Electric House.—331, Hornby Road, Fort.

Motiram & Co.—79, Himalaya House, Paltan Road, Bombay 1.

Motwane (Private) Ltd., Incorporating CHICAGO TELEPHONE & RADIO CO. PRIVATE LTD.—(Estd. 1909), Electrical, Mechanical and Electronic Engineers and Contractors. For everything in Electrical electronic, mechanical and tele-communication equipments, sound systems and industrial plants. 127, Mahatma Gandhi Road, Post Box No. 1312, Fort, Bombay 1. Phone: 252337 (3 lines). Branches at 25, Chowringhee, Calcutta; 48, Hazratganj, Lucknow; 68, Queensway, New Delhi; 196, Mount Road, Madras; 93-94, Sri Narasimharaja Road, Bangalore 2; 422, Lamington Road, Bombay 4. Tel. Address: "CHIPHONE" all offices.

Narendra Electric Stores.—158, Lohar Chawl, Bombay 2.

National Ekco Radio & Engineering Co. Ltd.—Ewart House, Bruce Street, Fort, Bombay 1.

National Supply & Distributing Agency.—250, Kalbadevi Road, Bombay 2.

New India Trading Corporation.—Vithal Sayana Building No. 2, Lohar Chawl, Bombay 2.

Oriental Trading Corporation.—Makharia House, 327, Sandhurst Road, Bombay 4.

Patel Electric Co., Ltd.—Vithal Sayana Building No. 2, Lohar Chawl, Bombay 2.

Patel, U. D., & Co.—Bank Street Building, Fort.

Pavri, J. K.—10, Karim Chambers, Hamam Street, Fort.

Pavri Sons & Co.—93-97, Bazar Gate Street, Fort.

Pestonji & Co.—570, Sultan Manzil, Chira Bazar, Bombay 2.

Photophone Equipments, Ltd.—Fazalbhoy House, 9, Marine Lines, Bombay.

Pioneer Electricals (India) Ltd.—16, Hamam Street, Fort. Phone: 28050. Grams: "VIRCABLES."

POPULAR ELECTRIC & GENERAL STORES.—414, Harbarwalla Building, Corner Golpitha, Bombay 4. Phone: 74959.

Precious Electric Co.—Yusuf Building, Churchgate Street, Fort.

Premier Electric Co., Ltd., The.—Mehta House, Apollo Street, Fort

Protos Engineering Co., Ltd.—173, Jamshedji Tata Road, Churchgate, Bombay.

R. S. Traders.—16, People's Building, Sir Pherozshah Mehta Road Fort.

Raichand & Sons.—5, Picket Cross Road, Bombay 2.

RAMNARAYAN TRADING CORPORATION.—8, Himalaya House, Paltan Road, Bombay 1. Phone: 263816. Cables "MORPHY."

Rasiklal, K., & Co.—Mehta Building, Medows Street, Fort.

Refrigeration & Appliances Co. Private Ltd.—Pravin Court, Queen's Road, Bombay.

Rhythm House Ltd.—40, Rampart Row, Fort.

Royal Electric Co., The.—Muljee Jetha Building, 139, Princess Street, Bombay 2.

Sawhney & Co.—Shahpur House, Cowasji Patel Street, Fort, P.O. Box 148-A, Bombay.

Scientific Instrument Co., Ltd.—Navsari Building, 240, Hornby Road, Fort.

Sealite Electric Co.—Manhar Building, 173, Lohar Chawl, Bombay 2.

Sentinel Electric Co.—Advani Chambers, Sir Phirozshah Mehta Road, Fort.

Shah Trading Agencies.—19, Hamam Street, Fort.

Shah Trading Co.—Lawyers' Chambers, Picket Road, Lohar Chawl

SHANTILAL & BROTHERS.—Shreeji Bhuvan, 50 52 54, Lohar Chawl, Bombay 2. Phone: 22395. Grams: "TABLESTAND."

Shantilal & Co. Private Ltd.—195-197, Abdul Rehman Street, Bombay 3.

SHARDA ELECTRIC & RADIO CO. PRIVATE LTD.—Lohar Chawl, Bombay No. 2. Phone: 20478. Grams: "TEAKCASING."

Standard Trading Co.—Vittal Sayana Building No. 2, 43-45, Lohar Street, Bombay 2.

TECHNICAL TOOLS.—68/A, Dockyard Road, Mazagaon, Bombay 10. Knife Switches, Switch Boards, and high Voltage floodlights, etc.

TERRA TRADING CORPORATION.—Gopal Nivas, Lohar Chawl, Bombay 2. Phone: 20479. Grams: "TERRA."

Thanawalla & Co.—192, Hornby Road, Fort. Phone: 25118

Trinity Electric Syndicate.—Princess Street, Bombay 2.

Turf Electric Co.—24-26, Dalal Street, Fort.

Unique Trading Corporation.—Mustafa Building, Sir Phirozshah Mehta Road, Fort.

UNIVERSAL ELECTRIC CO., THE.—73-75, Lohar Chawl, Bombay 2. Stockists: G. E. C. Products, "Osram" Lamps Phone: 23744. Grams: "CABTYRE."

Venus Electric Co.—Keravala Building, Mangaldas Road, Bombay 2

Voltas Ltd.—Ballard Estate, Bombay 1.

WALTHOM TRADING CORP. PRIVATE LTD.—12, Nanabhai Lane, Fort, Bombay. Phone: 261662. Grams: "ISHYOKIMI".

Western Agencies' Co.—421, Lamington Road, Bombay 4.

Westrex Co. India.—Metro House, Mahatma Gandhi Road, Bombay 1

Western India Engineering Corporation, Ltd.—Cama Chambers, 29, Medows Street, Fort.

WILLIAM JACKS & CO., LTD.—Hamilton House, Graham Road, Ballard Estate, Bombay. Sole Distributors for Bombay State, for Calcutta Fan Works Ltd., Calcutta. Ceiling, Table and Exhaust Fans, Circulators etc.

Zenith Electric Stores.—51, Ahmed Building, Lohar Chawl, Bombay No. 2. Phone: 28128. Grams: "ALLANABANDA."

ELECTRICAL INSTRUMENTS & METERS

Eastern Electric & Engineering Co.—127, Mahatma Gandhi Road, Bombay 1.

HAVELL'S ELECTRICAL (SALES) CORPN.—32, Rampart Row, Fort, Bombay 1. Phone: 252192. Grams: 'HAVELL-CROP' Branches: Calcutta, Madras, Delhi. Importers of Havell's Cinema Carbons and Accessories that are made in Germany.

INDIAN INDUSTRIAL ENGINEERS.—43, Tamarind Lane, Fort. Phone: 255514. Grams: "NEWLIGHT."

RADIO LAMP WORKS LTD.—45-47, Veer Nariman Road, Bombay 1. Phone: 25-3641. Grams: 'SOFTLITE'. Branches at Calcutta, Delhi, Kanpur, Indore, Madras, Gauhati & Wardha.

ELECTRICAL ILLUMINATION (TEMPORARY)

Modern Electric Co.—46, Cawasji Patel Street, opp. Hongkong Bank, Fort, Bombay 1.

National Electric Company.—11, Elphinstone Circle, Fort, Bombay.

ELECTRIC MOTOR STARTERS

FINLAY JAMES & CO., LTD.—Chartered Bank Bldg., Mahatma Gandhi Road, Fort, Bombay. Agents for: India Electric Works Ltd., Diamond Harbour Road, Calcutta 34.

ELECTRICAL TOOLS

[illegible] Corporation—Gopal Niwas, P.O. Box No. 2734, Bombay 2. [illegible] 20891. Electrical & Hand Operated Drilling, Sharpening, Cutting, Shearing, Polishing, Engraving machines, Flexible [illegible] grinders and other Universal purposes machines, Accessories [illegible] appliances.

[illegible] Motilal & Co.—70, Nagdevi Cross Lane, Bombay 3.

ELECTRIC MOTORS & DISTRIBUTION TRANSFORMERS MFRS.

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[illegible] Engineering Co.—84, Apollo Street, Bombay 1.

Associated Trading Co. Private Ltd.—105, Apollo Street, Fort.

Associated Machine & Tool Co.—130, Medows Street, Fort, Bombay.

AUTO & ELECTRICAL ENGINEERING WORKS.—Shapurji Broacha Baug, V.P. Road, Bombay 4. Armature Winding Contractors. Prop. Damodar Bhawoo Vartak.

Auto & Electric Stores.—Bhangwadi, Kalbadevi Road, Bombay 2.

Automachines (India) Private Ltd.—111-A, Mahatma Gandhi Road, Bombay 1.

Batliboi & Co.—Engineers & Machinery Importers. Head Office: [illegible] Street, Fort, Bombay. Phone No. 255451-55. Grams: "BATLIBOICO". Branches: Madras, Calcutta, Delhi, Ahmedabad, Kanpur, Coimbatore and Vijayvada. Associates: Bangalore and Secunderabad.

Bruce Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate, Fort.

Bhutt Bros.—169, Nagdevi Cross Lane, Bombay 3.

BOMBAY ENGINEERING SYNDICATE.—17, Forbes Street, Bombay 1. Phone C/o 252900. Stockists of 'FENNER' V Belts, 'RUSTON' Pumping Sets, 'CROMPTON—BTH' Electric Motors & Electrical goods.

British Engineering Co.—105, Apollo Street, Fort.

Cassianath M. Bomanjee Ezekiel.—17/19, Bastion Road, Fort.

C. SETHIA & CO.—89, Forbes Street, Bombay 1. Phone: 251695. Grams: "SUKHRAGAR".

EAST ASIATIC CO. (INDIA) PRIVATE LTD. THE.—Shreenivas House, Waudby Road, Bombay. Phone: 26-2711 (6 lines). Offices at Madras, Calcutta, New Delhi, Bangalore and Secunderabad.

Eastern Electric & Refrigeration Co.—14, Hamam Street, Fort.

Eastern Trading & Engineering Co.—Alice Building, 4th Floor, 339, Hornby Road, Fort.

Economic Electric Co., Ltd.—Jail Road (East), Dongri, Bombay 9.

English Electric Co., Ltd.—249, Dr. Dadabhoy Naoroji Road, Fort, Bombay.

ESSENTIAL ENGINEERING CO.—11, Botawala Building, Elphinstone Circle, Fort. Phone: 252601. Grams: 'ESSENCE'. Importers, Exporters, Commission Agents and Manufacturers' Representatives.

Field Engineering Co., Private Ltd.—65, Apollo Street, Fort, Bombay.

FINLAY JAMES & CO., LTD.—Chartered Bank Bldg., Mahatma Gandhi Road, Fort, Bombay. Agents for: India Electric Works Ltd., Diamond Harbour Road, Calcutta 34.

Gandhi Electric Industries Private Ltd.—Swadeshi Mills Estate, New Queen's Road, Bombay 4.

General Radio & Appliances Private Ltd.—(Formerly Fazalbhoy Ltd.).—Opera House, Bombay 4.

Harda Electric Supply Co., Ltd.—17/19, Bastion Road, Fort.

HINDUSTAN ELECTRIC CO., LTD.—Thackersey House, Graham Road, Ballard Estate, Bombay 1. Manufacturers of ACSR Conductors and Cables, Transformers, Electric Motors, Switchgear, etc. Engineers, Contractors and Suppliers of Plant, Machinery and Equipment. Branches Representatives all over India. Works: Howrah and Faridabad. Tel. Address: "UDYOG." Phone Nos.: 26-1121, 26-1122, 26-1123.

HINDUSTAN ENGINEERING CO.—(Machinery Dept.). 25, Ropewalk Street, Fort, Bombay 1. Telephone: 253583. Grams: "VIDOOALL".

Ina Machinery Corporation.—65, Mahatma Gandhi Road.

Industrial & Agricultural Equipment Co.—29, Hamam Street, Fort, Bombay 1.

Jacks, William, & Co., Ltd.—Hamilton House, Graham Road, Ballard Estate, Fort.

Janak Engineers.—4th Floor, Lentin Chambers, Dalal Street, Fort.

Jayems Engineering Co.—Warden House, Sir Phiroz shah Mehta Road, Fort.

JYOTI LIMITED.—Bombay Office: Lotus House, Marine Lines, Bombay. Phone: 242635. Grams: 'JYOTI PUMPS'. Head Office: Baroda 3. Phone: 2287. Grams: 'JYOTI PUMPS.'

Karachi Electric Stores (Bombay) Ltd.—537, Sandhurst Bridge, Bombay 7.

Kilburn & Co. Private Ltd. Gresham Assurance House, Sir Phirozshah Mehta Road, Fort, Bombay.

Mahindra & Mahindra Ltd. Gateway Building, Apollo Bunder, Fort.

Manohar Bros.—Hussaini Chambers, Nanabhai Lane, Churchgate Street, Fort.

Marshall Sons & Co. (India) Ltd.—Marshall Building, Ballard Estate, Fort.

Modi & Modi Co.—16, Hamam Street, Fort, Bombay.

National Electrical Industries, Ltd.—Lalbaug Industrial Estate, Lalbaug, Bombay 12.

NEW INDIA ELECTRIC CORPORATION.—37 F, Parel Road Cross Lane, Chinchpokli, Bombay 12. Manufacturers of Electric Motors.

Paramount Industrial Stores.—15, Ropewalk Street, Fort, Bombay.

Parsram & Co.—65, Podar Chambers, Parsi Bazar Street, Fort.

P. Rai & Co.—105, Apollo Street, Fort.

Patel Electric Co., Ltd.—Vithal Sayana Building No. 2, Lohar Chawl, Bombay 2.

Popular Electric & General Stores.—414, Harharwalla Building, Corner Golpitha, Bombay 4.

Power Machines Corporation.—51, Forbes Street, Fort, Bombay 1. Grams: "POWERMACO."

Protos Engineering Co. Ltd.—173, Jamshedji Tata Road, Churchgate, Bombay.

Radiant Engineering Co.—79, Medows Street, Bombay 1.

Royal Machinery & Trading Co.—6, Bell Lane, Fort, Bombay 1.

R. S. Traders.—16, People's Building, Sir Pherozshah Mehta Road, Fort.

Spence Ltd.—Gowalia Tank Road, Bombay 26.

TALWARKER BROTHERS PRIVATE LTD. W. R.—Lentin Chambers, Dalal Street, Fort, Bombay. Phone: 30367. Grams: "PUMPENAMEL".

UNITED INDIA ENGINEERING CO.—76/78, Old Custom House Road, Fort, Bombay 1. Phone: 251492. Grams: "UNICOMARAM." Engineers and Machinery Dealers. Sales & Showroom: Commerce House, Medows Street, Fort, Bombay 1.

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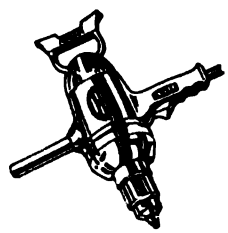
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ELECTRODES

DATSON RAVIRAJ & CO.—43, Tamarind Lane, Fort. Phone: 254433. Grams : "DATNARE."

Guest, Keen, Williams, Ltd.—Wakefield House, Ballard Estate, Bombay 1.

Vishwa Bharati Trading Co.—14, Kumpta Street, Ballard Estate, Bombay 1.

Voltas Ltd.—Ballard Estate, Bombay 1.

ELECTROPLATERS, ELECTROTYPERS & GILDERS

Acme Manufacturing Co., Ltd.—Construction House, Wittet Road, Ballard Estate.

ARTYTOYS.—Sir Ratan Tata Welfare Centre, Sir Ratan Tata Road, Tardeo, Bombay 7. For Silver, Nickel and Copper plating at competitive rates.

CHROMEWELL ELECTROPLATERS.—Copper, Nickel, Chrome, Silver & Cadmium Plating, Oxidising & Silver Nickel Cadmium & Copper Barrel Plating, Eastern Woollen Mills Premises, Bhawani Shankar Road, Dadar, Bombay Phone : 60803.

Javeri Bros. & Co.—Medows Street, Fort.

KOHINOOR ELECTRO GILDERS.—Khotwadi 10th Lane, Bombay 4. Phone : 71786 ; Electroplaters, Barrel-Platers, Electro-Tinners & Galvanisers ; Specialists in Chrome, Silver, Nickle, Bronze, Brass, Tin Cadmium. Oxidising and Galvanising.

Lund & Blockley.—Sassoon Institute, 150-154, Mahatma Gandhi Road, Fort.

NEW SUN ELECTRO GILDER & METAL MANUFACTURING CO.—280, Belasis Road, opp. Alexandra Cinema, Bombay 8. Phone : 74222. Art Electro-platers, Barrel Plating & Finishing a Speciality. Chrome, Nickel, Silver, Copper & Bronze Oxidising, Black Nickel, Galvanising & Tinning.

R. Liladhar & Brothers.—Shinde Wadi, 220-D, Vincent Road, Dadar, Central Railway, Bombay 14.

SAIFEE ELECTROPLATING WORKS.—Electroplaters in Chromium, Nickel, Galvanise and Silver. Also Bronzing and Oxidisers in any Colour, 139, Bhendi Bazar, Bombay 3. Phone No. 70837.

Scientific & Industrial Supplies Corporation.—Princess Street, Bombay 2.

ELECTROPLATING MATERIALS

Associated Machine & Tool Co.—130, Medows Street, Fort.

Batliboi & Co.—Engineers & Machinery Importers. Head Office : Forbes Street, Fort, Bombay. Phone No. 255451-55. Grams : "BATLIBOICO". Branches : Madras, Calcutta, Delhi Ahmedabad, Kanpur, Coimbatore and Vijayvada. Associates Bangalore and Secunderabad.

Choksi Brothers.—Kanji Mansion, 315, Sandhurst Road, Bombay 4.

Hardcastle Waud & Co. Private Ltd.—Alice Building, Hornby Road, Bombay 1.

K. B. Gandhi & Co.—277, Sandhurst Road, Bombay 4.

KAYCEE INDUSTRIES LTD.—Kamani Chambers, Nicol Road, Ballard Estate, Bombay 1. Phone : 262757. Grams : "KAYCE", Licensees in India for the manufacture of Westinghouse Metal Rectifier Equipment for Electroplating-Anodizing & Electrolytic Process.

MITRA & CO., S.—Agents and Chief Distributors for W. Canning & Co., Ltd., Birmingham, England. Manufacturers of Electroplating and Polishing Equipments and materials. Bachubai Building, 187, Dr. Dadabhoy Naoroji Road, Fort, Bombay 1. Phone : 263087. Grams : "MLUDESHI." Branches at Calcutta and Madras.

Shah Trading Corporation.—Opp. Crawford Market, Oomrigar Building, P. B. No. 2299, Bombay 3.

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S. G. TRIVEDI.—90, Nagdevi Street, Bombay 3. Phone : 39041. Grams : "BASICSTEEL". Sole Selling Agents for 'RHINOCEROS' brand EMERY FILLETS, for card grinding.

EMPTY OIL DRUMS AND BARRELS MERCHANTS

Adamji Lookmanji & Co.—Rahimtoola House, Homji Street, Fort

A. S. Yousuf Dhorajiwala.—Mazagaon Road, Bombay 10.

Balmer Lawrie & Co. Ltd.—5, Graham Road, Ballard Estate, Fort

Esoofally Dawoodbhai.—18, Doctor Street, Bombay 3.

Hoosainl Co.—Mount Road, near Hasnabad, Horse Stable Compound, Mazagaon, Bombay 10.

Motibhoy Rajan & Co.—Tram Terminus, Mazagaon, Bombay 10.

R. M. Rajan & Co.—Tram Terminus, Mazagaon.

ENAMEL SIGNBOARDS

LANS METAL & ENAMEL WORKS PRIVATE LTD.—Kasturchand Mills Compound, Tulsi Pipe Road, Dadar, Bombay 28. Phone : 60837. Grams : "LANSENAMEL".

PIONEER ENAMELLING WORKS.—24, Laxmi Building, Sir Phirozshah Mehta Road, Fort, Post Box 1130, Bombay 1. Phone : 26-3464. Grams : "NAVJOT."

TALWARKER BROTHERS PRIVATE LTD., W. R.—Lentin Chambers, Dalal Street, Fort, Bombay. Phone : 30367. Grams : "PUMPENAMEL".

Vasir Enamel Works Ltd.—81, Tank Bunder Estate, Bombay.

ENAMELWARE

Balmer Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate, Fort

Bawa Crockeries Ltd.—89, Mohamedali Road, Bombay 3.

Currimbhoy, I., & Co.—156, Chuckla Street, Bombay 3.

Dossa, S. R., & Co.—186, Sheriff Devji Street (Chakla), Bombay 3 Phone : 39248.

Hindustan Export & Import Corporation Ltd.—Albert Building, Hornby Road, Fort.

Khetau Chhotrabhaj.—40-41, Swadeshi Market, Kalbadevi Road.

LANS METAL & ENAMEL WORKS PRIVATE LTD.—Kasturchand Mills Compound, Tulsi Pipe Road, Dadar, Bombay 28. Phone : 60837. Grams : "LANSENAMEL".

PIONEER ENAMELLING WORKS.—24, Laxmi Building, Sir Phirozshah Mehta Road, Post Box 1130, Fort, Bombay 1. Phone : 26-3464. Grams : "NAVJOT."

Vasir Enamel Works Ltd.—81, Tank Bunder Estate, Bombay.

ENAMELWARE MANUFACTURERS

LANS METAL & ENAMEL WORKS PRIVATE LTD.—Kastur Chand Mills Compound, Tulsi Pipe Road, Dadar, Bombay 28. Phone : 60637. Grams : "LANSENAMEL".

ENGINEERING STORES (IMPORTERS & DEALERS)

"Abco."—30, Sarang Street, Bombay 3. Phone : 30032.

ABDEALLY, B. M., & CO.—127, Sarang Street, Bombay 3. Phone : 29090. Grams : 'ALERTDEAL'.

Abdulkhader Shamsuddin & Co.—48, Khoka Bazar, Bombay 3.
Abdullabhai Fatzullabhai, Ltd.— Khoka Bazar, Bombay 3.
Adamally Gulamhusein.—191, Khoka Bazar, Sarang Street, Bombay 3.

ADAMALLY SONS LTD.—277, Nagdevi Street, Bombay 3. Grams : 'ADAMSONS'. Phone : 23519.

Agarwal Commercial Corporation.—35, Bibijan Street, Bombay 3.
Ahmedally Jiwabhai & Co.—86-88, Lohar Street, Bombay 2.
Adamally Sons Ltd.—277, Nagdevi Street, Bombay 3.

AMIRUDDIN SHALEBHOY TYEBJEE & SONS.—Shale Building, 2nd Floor, Bank Street, Fort, Bombay 1.

Apollo Engineering Co.—84, Apollo Street, Fort.
Ardeshir D. Wadia & Sons.—93, Apollo Street, Fort.
Ashok Engineering Co.—24, Noble Chambers, Parsee Bazar Street, Fort. Tel. No. 31445. Gram : "REVOLUTION".
Associated Machine & Tool Co.—130, Medows Street, Fort.
Automachine (India) Private Ltd —111-A Mahatma Gandhi Road, Bombay 1.

BABULAL & BROS.—26, Nagdevi Cross Lane, Bombay 3. Phone : 30930. Grams : "FIREFLY".

Bathiben & Co.—Engineers & Machinery Importers. Head Office : Forbes Street, Fort, Bombay. Phone No. 25451-55 Grams : "BATLIBOICO". Branches : Madras, Calcutta, Delhi, Ahmedabad, Kanpur, Coimbatore and Vijayvada. Associates : Bangalore and Secunderabad.
Balmer Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate, Fort.
Bharat Electric & Engineering Corporation.—28, Apollo Street, Fort.

BHARAT ENGINEERING STORES.—113, Nagdevi Street, Bombay 3. Grams : "UNIONTOOLS".

Bombay Tools Supplying Agency —50, Nagdevi Cross Lane, Bombay 3.
Brady, W. H., & Co. Ltd.—Royal Insurance Building, Churchgate Street, Fort.
Chhaganlal & Co.—61, Narayan Dhuru Street, Bombay.
Central Tool & Equipment Co —32, Sarang Street, Bombay 3.
Chatha, B. M., & Co. Ltd.—Jan Mansion, Sir Phirozshah Mehta Road, Fort, P. O. Box No. 671, Bombay.
Choksi, H., & Co.—106, Medows Street, Fort.
Doulatram Ratanji & Co.—208, Nagdevi Street, Bombay 3.
Dosa Brothers —80-90, Omrigar Bldg., Lohar Chawl, Bombay 2.
Dosa Tube & Hardware Mart —41, Nagdevi Cross Lane, Bombay 3.
Dyestuffs Engineering Corporation, Darukhana, Reay Road, Bombay 10. Phones : 70558-59, 73586. Grams : "DEVISTEEL."
Dhirajlal Morarji, 37-A, Sarang Street, Bombay 3.

DINSHAW, M. E., & CO.—106, Apollo Street, Fort, P.O. Box 448, Bombay. Grams : "AMOORAT." Phone : 251488.

Essential Engineering Co.—11, Botawala Building, Elphinstone Circle, Fort.
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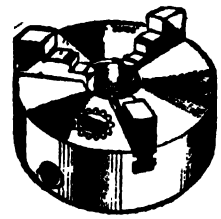
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Mehta Hardware Mart.—81-83, Nagdevi Street, Bombay 3.

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P. Ratilal & Co.—48, Dhanji Street, Bombay 3.
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Techno Industrial Co.—107, Sir Vithaldas Chambers, 16, Apollo Street, Fort, Post Box No. 811, Bombay.
T. M. Tyabji & Brothers.—Hamam House, Hamam Street, Fort.
Trinity Electric Syndicate.—Princess Street, Bombay 2.
T. Salehbhoy & Co.—54, Sarang Street, Bombay 3.
Vadilal & Co., C.—40, Nagdevi Cross Lane, Bombay 3.
Viswabharati Trading Co.—14, Kumpta Street, Ballard Estate, Bombay 1.
Vora, J. C., & Co.—107, C. P. Tank, Bombay 4.
William Jacks & Co., Ltd.—Hamilton House, Ballard Estate, Bombay.

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Chotani Electric Engineering Co. Ltd.—57, Apollo Street, Fort.
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Kapadia & Co.—19, Phirozshah Mehta Road, Fort, Bombay 1.

K. Metharam.—491-3, Kalbadevi Road.

Kirtikumar & Co.—80, Bhandari Street, Mandvi, Bombay 3.

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Parekh Bros., Ltd.—65, Mahatma Gandhi Road, Fort.

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Indian Expanded Metals Ltd.—2nd Floor, Prospect Chambers, Hornby Road, Fort, Bombay.

Jacks, William & Co., Ltd.—Hamilton House, Graham Road, Ballard Estate, Fort.

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Dhani Ram & Sons.—236, Masjid Bunder Road, Bombay 3.

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Jashwantlal Manecklal & Co.—40, Churchgate Street, Fort

Marine Sports.—101, 1st Marine Street, Dhobi Talao, Bombay 2

Palekar & Co.—Seed Merchants, Sitaram Building, Bombay 1

Reliance Trading Co.—Vithal Sayana Building, Lohar Chawl, Bombay 2.

GAUGES & INSTRUMENTS

ABDEALLY, B. M., & CO.—127, Sarang Street, Bombay 3. Phone : 299990. Grams : 'ALERTDEAL.'

Evergreen Corporation.—Peerbhoy Building No. 1, Lohar Chawl, Bombay 2.

Fleming John & Co., Private Ltd.—P. B. No. 76, Bombay 1. Phone : 261153.

GAYTEE & COMPANY.—Janmabhoomi Chambers, Fort Street, Fort, Bombay. Grams : "IMPENG." Phone : 29319

Gordhandas Desai Private Ltd.—Kermani Bldg., Sir P. M. Road, Bombay 1.

Greaves Cotton & Co., Ltd.—1, Forbes Street, Bombay 1.

GEARS MFRS. & GEAR CUTTING SPECIALISTS

HUNS ENGINEERING WORKS.—11, Cawasji Patel Street, Bombay 1. Phone : 255223. Grams : "HUNSGEAR".

GEOGRAPHICAL CHARTS, WALL MAPS, GLOBES, ETC.

Jethand Talakshi & Sons.—Empire Building, Hornby Road, Fort, Bombay 1.

Omlez (India).—114, Mody Street, Bombay.

GERMAN SILVER UTENSILS MFRS.

LALLUBHAI AMICHAND PRIVATE LTD.—Proprietors : Dun Aluminium Factory, 225-227, Tardeo Road, Bombay 7. Manufacturers of all Non-Ferrous Metalwares and Articles. Phones : 41618 & 73220. Grams : "CYCLEBRAND."

GLASS

ABDOOLALLY NOORBHOY.—122-124, Abdul Rehman Street, Bombay 3. All kinds of Glass & Plywood Merchants. Government & Railway Contractors. Phone : 23156. Grams : "PATTYMART." Works : 248-A, Duncan Road, Bombay 8. Phone : 41980.

ALIBHOY KADIBHOY KACHWALA (Estd. 1922).—84, Abdul Rehman Street, Bombay 3. Direct Importers and Stockists of all kinds of Glass, Mirrors, Glass Tiles, Plywood, Hardboards, Chair Seats, Glass Block and Glass Cutters, etc.

Bawa Glass Co.—Ratan Building, Nagdevi Street, Bombay 3.

BHAROOMAL & CO.—70, Abdul Rehman Street, Bombay 3. Phone : 20586. Grams : "WHITEGLASS". H.O. : Seoka Bazar, Agra. Dealers in Glass, Plywood & Hardboard and Glass Cutters. Agents for "NORDEX" Tempered Hard Boards.

Keshowdas Hassanand Karachiwala.—256, Masjid Bunder Road, opp. State Bank, Bombay 3.

M. A. KACHWALLA & SONS.—97-99, Dhanji Street, Bombay 3. Phone : 34395. Grams : "DIADEM". Direct Importers & Stockists of Glass, Plates, Vibrolite Sheets, Window Mirrors figured, Triplex (Safety) and all Sorts of Glasses & Hardboards.

MAHOMEDALLY VALIJI ARSIWALLA.—76, Abdul Rehman Street, Bombay 3. Phone : 38400. Direct Importers and Dealers in all kinds of Glasses, Plywood and Picture Mouldings ; Government & Railway Contractors. Godowns at : 2 4, Temkar Street, New Nagpada, Bombay 8 and at 145, Jamli Mohalla, Bapukhote Street, Bombay 3.

NATIONAL GLASS HOUSE.—Show Room : 72, Abdul Rehman Street, opp. State Bank, Bombay 3. Head Office : 108, Undria Street, Choki Mohalla, Near J. J. Hospital, Bombay 8. Phone : 70428. Direct Importers of Glass Sheets, Dealers in Glass, Plywood, Hardboard, Chair seats and Diamond & Glass Cutters. Govt. & Railway Contractors & unbreakable safety motor glass.

Premier Glass Traders.—Importers of all kinds of Glass, Frames, Plywood, Mounts, Glazier's Diamonds, etc. 74-78, Dhanji Street, Bombay 3. Grams "REASON." Phone : 28845.

SAMIR GLASS TRADERS.—21-23, Dhanji Street, Parsi Gully, Bombay 3. Grams : "SAMIRGLASS". Wholesale & Retail dealers in all kinds of Glasses, Glass Cutters & Hardboards.

TEK TRADING CORPORATION.—139, Abdul Rehman Street, Bombay 3. Dealers in all kinds of Glasses, Plywood, Hardboard & Masonite. Government & Railway Contractors.

GLASS FACTORIES

AJIT GLASS WORKS PRIVATE LTD.—Office : 99, Haji Ahmed Devji Bldg., 2nd Floor, Mohamedally Road, Bombay 3. Phone : 29788. Grams : "AJITWORKS". Factory : Ghodbunder Road, P.O. Jogeshwari, Bombay 42. Phone : 86584. Manufacturers of Pressed ware, Glass Tumblers, Glass Jars, Bottles of all kinds suitable for Pharmaceutical Trade, Cosmetic, Ink, Milk, Squashes and Aerated Water Trade, etc.

ALI INDIA GLASS WORKS PRIVATE LTD.—Manufacturers of all kinds of Bottles and Glasswares. 111, Bhandari Street, Bombay 3. Phone : 30062. Factory : Andheri Road, Kurla, Phone : 67122. Grams : "WHEELBRAND".

PEARL GLASS MANUFACTURING CO.—Patel Estate, Goregaon (East), Bombay. Phone : 84363. Office at : 44, Cawasji Patel Street, Post Box No. 1627, Fort, Bombay 1. Phone : 253082 & 253772. Grams : "ASHWINCO." Manufacturers of all kinds of Glassware and Bottles ; Process Works : 51, Bhandari Street, near Round Temple, Bombay 4. Depot : 108, Ardeshir Dady Street, near C.P. Tank, Bombay 4. Workshop : 8A, Dhobi Wadi, Seth M. N. Charities Compound, Thakurdwar Road, Bombay 2. Phone : 29827.

VAZIR GLASS WORKS PRIVATE LTD.—Prospect Chambers, Dr. Dadabhai Naoroji Road, Fort, Bombay. Phone : 254650. Grams : "SEVNETSIX". Manufacturers of quality Glass Bottles & Glasswares. Aerated Water Bottles a Speciality.

VELU & CO. (PVT) LTD., P.K.—P.O. Box No. 514, 111, Mahatma Gandhi Road, Bombay 1. Phone : 25-3141. Grams : "LACQUER."

GLASS MFRS. AND INDENT OPERATORS

Bombay Glass Works Ltd.—Manmala Tank Road, Bombay 16.

Chunilal Khanna & Co.—Saraswati Nivas, Thakurdwar Road, Bombay 2.

International Chemical Co.—Tulsi Pipe Road, Matunga, Bombay 16.

Oriental Import & Export Agency.—52, Shri Krishna Nivas, New Silk Bazar, Kalbadevi Road, Bombay 2.

Salemahomed Padamsee & Co.—141, Chuckla Street, Bombay 3.

Swadeshi Glass Works Depot.—25, Bank Street, Fort. Grams : "AUTOGLASS."

The Mahalakshmi Glass Works (Private) Ltd.—Haines Road, Bombay 11.

GLASSWARE MFRS. & MERCHANTS

Alladin Dhanji.—Vithal Sayana Building, Lohar Chawl.

All-India Trading Corporation.—25, Bank Street, Fort. Grams : "Autoglass". Agents for Paisa Fund Glass Products.

Balmer Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate, Fort.

Bawa Crockeries Ltd.—89, Mohamedali Road, Bombay 3.

Central Bottle Trading Co.—Padamsi Annexe, Chuckla Street, Bombay 3.

Chunilal Desai & Co.—Gool Mansion, Homji Street, Fort.

Currimbhoy, L., & Co.—156, Chuckla Street, Bombay 3.

DOSSA, S. R., & CO.—186, Sheriff Devji Street (Chakla), Bombay 3. Phones : 39248. (Office). 77042 (Residence).

EMBI DESAI & CO.—Office : Dadyseth House, Cawasji Patel Street, Fort, Post Box No. 1116, Bombay 1. Phones : 253082 and 253772. Dept. : 108, Ardeshir Dady Street, near C.P. Tank, Bombay 4. Process Works : 51, Bhandari Street, near Round Temple, Bombay 4. Factory : Patel Estate, Goregaon (East), Bombay. Workshop : 8A, Dhobi Wadi, Seth M. N. Charities Compound, Thakurdwar Road, Bombay 2. Phone : 29827. Ahmedabad Office : Jayabhuvan, Inside Balahanuman, Ahmedabad. Grams : "ASHWINCO." Phone : 28182.

Getz Bros. & Co.—Western India House, Sir Phirozshah Mehta Road, Fort.

HAMIR JAMAL & COMPANY.—Lalsingh Building, Lohar Chawl, Bombay 2. Phone : 34763. Grams : "CRITERION."

I.C.I. (India) Private Ltd.—P. B. No. 310, Bombay 1.

M. Dialdas & Sons.—190, Princess Street.

Moosa Omer & Co.—Junction of Mahomedally & Carnac Roads.

Saify Glass Palace.—Ebrahim Building, Mohamedali Road, Bombay 2.

Salemahomed Padamsee & Co.—141, Chakla Street, P. O. Box 3131, Bombay 3.

Saubhagya Kankan Store.—27/A, Swadeshi Market, Kalbadevi Road.

Scientific Instrument Co., Ltd.—Navsari Building, 240, Hornby Road, Fort.

Shivji, K. S., & Co.—144-46, Chakla Street, Bombay 3.

TALWARKER BROTHERS PRIVATE LTD., W. R.—Lentin Chambers, Dalal Street, Fort, Bombay. Phone : 30367. Grams : "PUMPENAMEL."

Universal Glass & Industrial Corporation.—327, Hornby Road, Fort.

Vazir Glass Works, Ltd.—Prospect Chambers, Hornby Road, Fort.

VELU & CO., (PVT.) LTD., P. K.—P. O. Box No. 514, 111, Mahatma Gandhi Road, Bombay 1. Phone : 25-3141. Grams : "LACQUER."

Vitrum Ltd.—Hamant Bhuwan, Nepean Sea Road, Bombay 6.

GLOVES & GOGGLES FOR INDUSTRIAL WORKERS

VISHWA BHARATI TRADING CO.—14, Kumpta Street, Ballard Estate, Post Box No. 1052, Bombay 1. Phone : 264558. Grams : "VIBHACO", Manufacturers of Industrial Safety Equipments, such as Goggles, Gloves, Dust Masks, Gas Protection Respirators, Aprons, etc.

GLYCERINE

GODREJ SOAPS PRIVATE LTD.—P.O. Jacob Circle, Bombay 11.

I.C.I. (India) Private Ltd.—P. B. No. 310, Bombay 1.

KANTILAL SANGHVI & CO.—Mherwan Building, Sir Phiroozshah Mehta Road, Fort. Phones: 34261 & 32188. Grams: "EXPIM."

Swastik Oil Mills Ltd.—Saltpan Road, Wadala, Bombay 31.

Tata Oil Mills Co., Ltd.—Bombay House, Bruce Street, Fort, Bombay.

GOLD AND SILVERSMITHS

(See **Jewellers, Gold and Silversmiths, etc.***)*

GOLDSMITH AND JEWELLERS TOOLS

SHAH TRADING CORPORATION.—Gamrigar Building, 1st Floor, opp. Crawford Market, Bombay 3. Goldsmith Tools and Hardware Merchants.

GOODS CARRIERS

AMRITSAR TRANSPORT CO., PRIVATE LTD., THE.—Nafees Chambers, Carnac Road, Bombay 1. Grams: "ROADWAYS".

BOMBAY HYDERABAD & AURANGABAD JALNA MOTOR SERVICE.—113, Bhandari Street, Bombay 3. Phone C/e 22027. Regular Goods Transport Service runs to Andhra Pradesh, Madhya Pradesh & All Khandesh.

JAI-LAXMI TRANSPORT CO.—3, New Citizen Bank House, Carnac Road, Bombay 1. Phone: 263810. Daily Service to Ahmedabad, Baroda, Gujarat & Shaurashtra. Branches at: Relief Road, Murgawada Naka, Ahmedabad. 201, Nagarwada Raupura, Gheekanta Road, Baroda.

KIRAN TRANSPORT CO.

136/38, D'Souza Street, Bombay 3.

MOTOR AGENTS & GOODS CARRIERS

Branches at

Bangalore - Amrsoti - Nagpur - Akola

Agents at Ahmedabad & Baroda

Shree Laxmi Transport Co., Ashok Nivas, Relief Road, Ahmedabad. Phone : 4060

Jubilee Baug, Gandhi Nagar, Baroda.

Also Agents throughout
The Prominent Cities of SOUTH INDIA

KULKARNI BROTHERS.—3, New Citizen Bank House, Carnac Road, Bombay 1. Phone: 263810. Service runs from Bombay to Poona, Wai, Panchgani, and all places in Khandesh and Vidarbha.

GRAIN AND SEED MERCHANTS

Bhanushali Brothers Ltd.—Bhanushali Chambers, 168, Argyle Road, Bombay 9.
Birla Bros., Ltd.—State Bank Annexe, Bank Street, Fort.
Damji Mavji & Co.—177, Khoja Gulli, Mandvi, Bombay 9.
Dewji Dhanji & Co.—Kilachand Mansion, 284, Kalbadevi Road.
Dhanpatmal Javaladas.—Court House, Carnac Road, Dhobi Talao.
Grain Merchants' Association.—Masjid Bunder, Mandvi.
Gulam Rasul Allahbux.—1-B, Bachooali House, Nowroji Hill Road No. 1, Bombay.
Haji Sater Haji Peermahomed.—91, Rangoonwalla Building, Mahomedali Road, Bombay 3.
Hariram Gopalji & Co.—110, Chinch Bunder.
Hashambhoy Aloo Mahomed & Son.—Dostmahomed Building, Nishanpada Road, Khadak, Bombay 9.
Husein Musa Virjee & Co.—Sheriff Hasam Building, Khoja Mohalla.
Joshi Jivandas Gangaram & Co.—282, Narsi Natha Street, Bombay 9.
Keshalal Talakchand.—India House, opp. G.P.O., Fort, Bombay. Phone: 32263. Grams: "CHANDRODAY."
Khimji Poonja & Co.—Wadia Building, 17/19, Dalal Street, Fort.
Kilachand Devchand & Co., Ltd.—45-47, Apollo Street, Fort.
Manekji Nensey & Co.—172/86, Argyle Road, Bombay 9.
Meghji Hirji & Co.—81, Chinch Bunder Road.
Nappoo Nensee & Co.—83, Clive Street, Bombay 9.
Naranjas Rajaram & Co.—Navsari Chambers, Outram Road.
Osmedchand Kashiram & Co.—Mudi Bazar, Mandvi, Bombay 3.
Padamshi Pancharia & Co.—Laxmidas Narsi Building, 182-184, Walkeshwar Road.
Pavri Sons & Co.—95/97, Bazargate Street, Fort.
Premchand Trading Ltd.—7, Dhanji Street, Bombay 3.
Premji Bhanji & Co.—Ardeshir Mansion, Bhat Bazar, Bombay 9.
Premji Haridas & Co.—Bhanushali Building, 168, Argyle Road, Bombay 9.
Ralli Bros., Ltd.—81, Ravelin Street, Fort.
Sarvajanik Grain Stores.—190, Doctor Street, Null Bazar.
Shah Ravji Jivraj.—282, Narshi Natha Street, Bombay 9.
Shamji Velji & Co.—Anand Bhuvan, Narshi Natha Street, Bhat Bazar.
Shivjee Rhara & Co.—107, New Chinch Bunder Road.
Vasantlal Vadilal & Co.—215-17, Samuel Street, Vadgadi.
Vasiralli Ltd.—Prospect Chambers, Hornby Road, Fort.
Velji Kalidas & Sons.—177, Samuel Street, Mandvi.
Yuvak Stores, Shri.—899A, New Hanuman Lane, Kalbadevi Road.

GRAMOPHONE DEALERS AND MANUFACTURERS

Anandji Kalyanji Vora.—Hathi Building, 448, Kalbadevi Road.
Bombay Phono and General Agency.—520-22, Kalbadevi Road.
Britannia Talking Machine Co.—407, Kalbadevi Road, Bombay 2.
Columbia Gramophone Company Ltd.—Universal Building, Sir Phiroozshah Mehta Road, Fort, P. O. Box 1169, Bombay.
Ghaisas, G. J., & Co.—Ramchandra Building, Tram Terminus, Girgaum.
Gramophone Co., Ltd.—Universal Fire & General Insurance Co.'s Building, Sir Phiroozshah Mehta Road, Fort.
Jawahar & Company.—133, Princess Street, Bombay 2.
Masters Trading Co.—Advani Chambers, Sir Phiroozshah Mehta Road, Fort.
Metro Musics.—545, Kalbadevi Tram Junction, Dhobi Talao.
National Gramophone Record Manufacturing Co., Ltd.—110, Medows Street, Fort.
Oriental Watch & Gramophone Co., The.—Opp. Western Rly. Station, Dadar, Bombay 14.
Rhythm House, The.—Opp. Army & Navy Stores, Fort.
Rose, S., & Co.—28, Rampart Row, Fort.

GREETING CARDS

Arco Agencies.—Bam House, Gunbow Street, Fort, Bombay. Phone 26-1208.

VALABDAS TIRATHDAS.—Shanker Lane, Kandivli, Bombay. Grams: "GREETINGS" Kandivli, Bombay. Importers & Manufacturers of Pictures & Greeting Cards.

GRINDING & PULVERISING (POWDERING)

Arvinda Trading Co. Private Ltd.—105, Apollo Street, Fort.
Batliboi & Co.—Engineers & Machinery Importers. Head Office: Forbes Street, Fort, Bombay. Phone Nos. 255451 5? Grams: "BATLIBOICO". Branches: Madras, Calcutta, Delhi, Ahmedabad, Kanpur, Coimbatore and Vijayvada. Associate: Bangalore and Secunderabad.
Bharat Pulverising Mills.—Narayan Dhuru Street, Bombay 3.
Gujarat Clay Mills.—246, Reay Road, Bombay 10.
Jayesus Engineering Co.—Warden House, Sir Phiroozshah Mehta Road, Fort.
PANCHSHILA PULVERISING MILLS.—Old Laxmi Silk Mills Compound, Sewree Cross Road, Wadala, Bombay 31. Phone: Factory 88280. Office: 34753.
Roberts, McLean & Co., Private Ltd.—Ilaco House, Sir Phiroozshah Mehta Road, Fort.
Standard Pulverising Co.—Atlas Mills Compound, Reay Road, Bombay 10.

GUMMED TAPES

STAR FREEZ INDUSTRIES.—66, Marine Drive, Parijat, behind Marine Lines Station, Bombay 2. Phone: 241332.

GUMS WHOLESALERS

Balumal Santosram.—204, Samuel Street, Vadgadi, Bombay 3.
Champaklal Morarji & Co.—198, Samuel Street, Vadgadi, Bombay.
Chandulal & Co., Lakhwala.—213, Samuel Street, Vadgadi.
Damji Mavji & Co.—177, Khoja Gulli, Mandvi, Bombay 9.
DEVIDAS, N. & CO.—44, Dariyasthan Street, Bombay 3. Phone: 30494. Grams: "KINGUM." Dealers in all sorts of Gums, Sulfices, Cassia, Cloves and Spices.
Dhirren & Co.—Lakhani Building, 84, Cawasji Patel Street, Fort.

Gopaljee & Co.—218, Samuel Street, Vadgadi.
Halhambhoy Aloo Mahomed & Son.—Dostmahomed Building, Nishanpada Road, Khadak, Bombay 9.
I.C.I. (India) Private Ltd.—P. B. No. 310, Bombay 1.
Javeri Traders.—P.O. Box No. 1077, Lakhani Building, 34, Cawasji Patel Street, Fort, Bombay 1.
Joshi Jivandas Gangaram & Co.—282, Narshi Natha Street, Bombay 9.
Kirtikumar Chandulal & Co.—218, Samuel Street, Vadgadi, Bombay.
Lalit Kumar & Co.—86, Kazi Sayed Street, Bombay 3.
Laljee Godhoo & Co.—218, Samuel Street, Vadgadi.

MEHTA SHAH & CO.—242, Samuel Street, Bombay 3. Phone: 39884. Grams: "MENTAGUM".

Narandas Keswrdas & Sons.—222/24, Vadgadi.
Premji Haridas & Co.—Bhanushali Chambers, Argyle Road, Bombay 9.
Ram Agency.—200, Kazi Sayed Street, Bombay 9.
Sising Materials Co., Ltd.—Jeroo Building, 137, Mahatma Gandhi Road, Fort.
Stewart's Laboratories.—327, Hornby Road, Fort.

SUDAN TRADING CO.—Dhan-Nur, Phirozshah Mehta Road, Bombay 1. Phone: Office: 262788. Resi.: 62089. Grams: "VANSOBHA".

VALABHDAS TEJPAL.—218, Vadgadi, Bombay 3. Phone: 23478. Grams: "BATTLEMENT."

Varjiwandas Hirjee & Co.—240, Samuel Street, Vadgadi.
Vasantlal Vadilal & Co.—215/17, Samuel Street, Vadgadi, Bombay 3.
Vijaysinh Virchand.—248, Samuel Street, Vadgadi, Bombay 3.

GUN POWDER MFRS.

WADHI, K. L., & CO.—People's Building, Sir Phirozshah Mehta Road, Bombay 1. Phone: 261583. Grams: "WADHICO." Licensed Manufacturers of Explosives, Gunpowder, Safety Fuses, Gelatine Detonators, etc.

HARD BOARD

ANIL HARDBOARDS LTD.—Manufacturers of soft, hard and tempered board and by-products. Lakshmi Building, Sir Phirozshah Mehta Road, Fort, Bombay 1. Phone: 263868 9. Grams: "ANILHARDBO" Bombay. Manufacturers of Hard and Soft Boards.

BHAROOMAL & CO.—70, Abdul Rehman Street, Bombay 3. Phone: 20586. Grams: "WHITEGLASS". H.O.: Sooka Bazar, Agra. Dealers in Glass, Plywood & Hardboard and Glass Cutters. Agents for "NORDEX". Tempered Hard Board.

EAST ASIATIC CO. (INDIA) PRIVATE LTD., THE.—Wavell House, Graham Road, Ballard Estate, Bombay. Phone: 26-2711. (8 lines). Offices at Madras, Calcutta, New Delhi.
James Finlay & Co., Ltd.—P. Box No. 73, Bombay 1.

NASH & CO.—103, Abdul Rehman Street, Bombay 3. Govt. & Rly. Contractors and also Dealers in Expanded Metal, Galvanized Brass, Copper Wire-nettings, Plain Zinc Sheets, Perforated Brass, Copper Zinc Sheets, Welded Mesh Green Wire-nettings, Asbestos Cement Sheets, Plain Corrugated Veneer Plywood, Masonite, Pressewood, Plywood, Woven Wire Fence and Wire-netting, Decorative Plywood for furniture as a Teak, Mahogany, Walnut in all sizes and thickness. Phone: 34969.

National Glass House.—Show Room: 72, Abdul Rehman Street, Opp. State Bank, Bombay 3. Head Office: 108, Cudria Street, Choki Mohalla, Bombay 8.
Sarup Glass Traders.—21-23, Dhanji Street, Parel Gully, Bombay 3.
Tek Trading Corporation.—139, Abdul Rehman Street, Bombay 3.

HARDWARE DEALERS AND IRONMONGERS

Abbas & Brothers.—51, Bhajipala Street, Bombay 3.
Abbas, A., & Brothers.—127, Nagdevi Street, Bombay 8.
Abbasbhoy Akbarally & Co.—Kika Street, 58, Gulaiwadi.
Abbasbhoy Kaderbhoy & Co.—97, Bhajipala Lane, Bombay 3.
"Al[illegible]"—30, Sarang Street, Bombay 3. Phone: 39032.

ABDEALLY, B. M., & CO.—127, Sarang Street, Bombay 3. Phone: 29090. Grams: "ALERTDEAL".

Abdeehussein Escofally Contractor.—91/93, Bapu Khote Street, Bombay 3.
Abdeo Hoosein Jiwajee & Co.—241, Nagdevi Street, Bombay 3.
Abdulhussain Kamruddin.—182, Jaajikar Street, Khokha Bazar, Bombay 3.
Abdulla A. Baker & Co.—99, Bhajipala Street, Bombay 3.
Abdulrahimbhai Faizullabhai Ltd.—Khokha Bazar, Bombay 3.
Acme Manufacturing Co., Ltd.—Construction House, Wittet Road, Ballard Estate.
Adamally Gulamhusein.—Sarang Street, 191, Khokha Bazar, Bombay 3.

ADAMALLY SONS LTD.—277, Nagdevi Street, Bombay 3. Grams: "ADAMSONS." Phone: 23519.

Adamji Lookmanji (Iron & Steel) Ltd.—Rahimtoola House, Homji Street, Fort.

AGARWAL COMMERCIAL CORPORATION.—35, Bibijan Street, Barbhai Mohalla, Bombay 3. Phone: 30041 Ext. 11. Grams: "HACKSAW".

Ahmedally Jivabhai & Co.—86-88, Lohar Chawl.
Akbarally, F. H., & Co.—58, Bhajipala Lane, Bombay 3.
Akbarally Mohamedally & Co.—316, Abdul Rehman Street, Bombay 3.
Alcock Ashdown & Co., Ltd.—Defence Works, Mazagaon.
Alladin Virjee Vathani.—Darukhana, Mazagaon Street, Bombay 10.
Allied Engineering & Trading Co.—Asian Building, Nicol Road, Ballard Estate.
Allied Trading Co.—39, Nagdevi Street.
Arco Steels.—Prospect Chambers Annexe, Hornby Road, Fort.
Arvinda Trading Co. Private Ltd.—105, Apollo Street, Fort.
Asian Engineers.—Nagdevi Cross Lane, Bombay 3.
Associated Machine & Tool Co.—130, Medows Street, Fort.
B. C. Hardware Mart.—38, Bibijan Street, Nagdevi, Bombay 3.
Babulal & Bros.—26, Nagdevi Cross Lane, Bombay 3.
Baker, A. M., & Co.—218, Nagdevi Street.
Bakhshiram & Co.—Ahmed Building, 129, Modi Street, Fort.
Balasinor Trading & Industrial Corporation.—Umrigar Building, 82, Lohar Chawl.
Balmer, Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate.
Bashimal Kanaiyalal.—124, Narayan Dhuru Street, Bombay 3.
Batliboi, C. J., & Co.—319, Hornby Road, Fort.
Batliboi & Co.—Engineers & Machinery Importers. Head Office: Forbes Street, Fort, Bombay. Phone No. 25451-55. Grams: "BATLIBOICO". Branches: Madras, Calcutta, Delhi, Ahmedabad, Kanpur, Coimbatore and Vijayvada. Associates: Bangalore and Secunderabad.
Beardsell, W. A., & Co., Ltd.—15-16, Sir Phirozshah Mehta Road, Fort.
Bharat Engineering Stores—113, Nagdevi Street, Bombay 3
Bhasin Brothers.—Court House, 1st floor, Dhobi Talao, Bombay 2.
Bhukhanvala & Sons.—Medows House, Medows Street, Fort.
Bhuti Bros.—163, Nagdevi Cross Lane, Bombay 3.
B. Kantilal & Co.—272, Masjid Bunder Road, opp. State Bank, Bombay 3.
Bombay-Burma Hardware Store.—128, Nagdevi Street, Bombay 3.

BOMBAY HARDWARE TRADERS.—79, Narayan Dhuru Street, Bunder Road, Bombay 3. Importers & Stockists of Hardware, Mill gin Stores, Pipe & Fittings & Tools.

Bombay Metal Products Co.—86, Kandewadi, Bombay 4.

BOMBAY TUBE & HARDWARE MART PRIVATE LTD.—284, Nagdevi Street, Bombay 3. Phone: 23604.

Brady, W. H., & Co., Ltd.—Royal Insce. Building, Veer Nariman Street, Fort.
Brothers, J. D.—29-33, Lohar Street, Fort.
Budhabhoy Noorbhoy & Co.—199, Abdul Rehman Street.
Builders & Engineers Co.—Amaralville, 3, Lady Jamshedji Road, Bombay 16.
Calcutta Iron & Steel Co., Ltd.—68 D Mohamedalli Road, Bombay 3.

C. AMICHAND & CO.—46A, Abdul Rehman Street, Bombay 3. Dealers in Hardware and Non-Ferrous Metals. Grams: "SHIPCOCK."

C. Bole & Co.—61, Narayan Dhuru Street, Bombay 3.
Central Machine Tools Agency.—43, Nagdevi Cross Lane, Bombay 3.
Chadha, B. M., & Co., Ltd.—Jan Mansion, Sir Phirozshah Mehta Road, Fort, P. O. Box 671, Bombay.
Chamdawalla Traders.—321, Vithalbhai Patel Road, Bombay 4.
Chandulal & Co.—Kathawalla, 313, Samuel Street, Bombay 9.
Chandulal Jethalal & Co.—2, Mirchi Gali, Katha Bazar.
Chandulal Narandas.—96, Kika Street, Bombay 4.
Chasman & Co.—Bell Building, Sir Phirozshah Mehta Road, Fort.
Chhabildas & Co.—78-A, Abdul Rehman Street.
Chhaganlal & Co.—Carnac Bunder, Bombay No. 9. Phone. 20751. Grams: "CONTRACTS."
Chimanlal Desai & Co.—Gool Mansion, Homji Street, Fort.

CHIMANLAL VRAJLAL & CO.—Iron, Steel and Hardware Merchants, Latif House, Iron Market, Bombay 9. Phone: 30963.

Chokshi Brothers.—315, Sandhurst Road, Bombay 4.
Chokshi, H., & Co.—106, Medows Street, Fort.

CHUNILAL KHANNA & CO.—Saraswati Niwas, Thakurdwar Road, Bombay 2. Phone: 23513. Grams: "BABALALU".

Commercial Traders.—23-25, Old Hanuman Lane, Bombay 2
C. P. Doshi & Co.—Bombay Mutual Building, Hornby Road, Fort.

CURRIM, E. A., PRIVATE LTD.—Hardware Merchants & Ironmongers, 97, Apollo Street, Fort, Bombay 1. Phone: 253216. Grams: "CAIM."

Curtis, J. & Co., Ltd.—36-40, Mahalaxmi Bridge Arcade, Bombay 11.
Dawoodbhai, M., & Bros.—Hararwalla Building, Lohar Chawl.
Desai, M. S., & Co.—77, Nagdevi Cross Lane, Bombay 3.

DESAI TUBE & HARDWARE MART.—41, Nagdevi Cross Lane, Bombay 3. Phone : 20606. Grams : "HASTY". Importers of pipe fittings, Engineering Stores & Tools, Mill gin Stores & Packings & Jointings.

Deviprasad Khandelwal & Co., Ltd.—Iron Jatha, Carnac Bunder.
Dewanchand Budhumall.—53/55, Bibijan Street, Bombay 3.

DEWANCHAND NIKKAMALL & CO.—126, Narayan Dhuru Street, Bombay 3. Phone : 20102. Phone : "DHAMI-CHAIN".

Dhirajlal Morarji—37-A, Sarang Street, Bombay 3.
Dohadwalla, R. H., & Co.—145, Nagdevi Street.
Drewet Chowna & Co.—Lentin Chambers, Medows Street, Fort.
Dubash Freres & Co.—Victoria Building, Parsi Bazar Street, Fort.
Duncan Stratton & Co. Ltd.—5, Bank Street, Fort.
Eastern Tube & Hardware Mart.—123, Narayan Dhuru Street, Bombay 3.

ESOOFALLY AHMADALLY.—Null Bazar, Mutton Street, Bombay 3. Phone: 71400. Grams: "HANDBLOWERS." Hardware Tools and Machinery Merchants and Direct Importers.

Esufally Adamji & Co.—134, Nagdevi Street.
Esufally Kamrudin.—34, Khokha Bazar, Bombay 3.
Express Commercial Corporation.—Nagdevi Cross Lane, Bombay 3.
Fairdeal Hardware Stores.—206-A, Abdul Rehman Street, Bombay 3.

FIDAALY GULAMALI.—163, Janjikar Street, Bombay 3. Phone : 39733.

Fleming, John & Co., Ltd.—Sukhadwala Building, 21, Bastion Road.

Gannon, Dunkerley & Co., Ltd.—Chartered Bank Building, Mahatma Gandhi Road, Fort.

Garlick & Co.—Haines Road, Jacob Circle.
G. C. Vora & Co.—107, C. P. Tank Road, Bombay 4.

General Trading Corporation.—36-B, Tamarind House, Tamarind Lane, Fort.
General Tubes Ltd.—142-144, Nagdevi Street, Bombay 3.

Globe Stores Co., The.—Sitaram Building, near Crawford Market, Hornby Road.
Gowardhanlal Sethi & Sons.—159, Narayan Dhuru Street, Bombay 3

Great Eastern Trading Co., The.—107, Cawasji Patel Street, Fort.
Greaves, Cotton & Co., Ltd.—1, Forbes Street.
Greentose Corporation (India).—Cama Buildings, 24-26, Dalal Street, Fort.
Gulamhusain Sulemanji & Co.—Manu Bhuvan, 24, Kika Street, Gulalwadi.

Haiderbhoy Esmailji & Co.—168, Nagdevi Street, Bombay 3.
Harchandrai Sons.—229, Musjid Bunder Road, Bombay 3.

Hardware & Sundries Importing Agency.—Hanshaw Building, 19, Bank Street, Fort.
Harlimal Kidarnath & Co.—87, Nagdevi Cross Lane, Bombay 3.

HARJIMAL NAND LAL.—75, Nagdevi Cross Lane, Bombay 3. Phones : 34811 & 241454 (Res.). Grams : "HARJINAND".

Hatimbhoy, A., & Co.—Argyle Road, Bombay 9.
Hatimbhoy Goolamhussein & Bros.—193, Nagdevi Street.

HEMANT TOOLS TRADING CO.—33, Bibijan Street, (Barbhai Mohalla), Bombay 3. Grams : "LACING." Phone C,o 22273.

Heptoola Noorudin & Co.—152-54, Nagdevi Street, Bombay 3.

Herman & Mohatta, B. P., Ltd.—People's Building, Sir Phirozshah Mehta Road, Fort.
Hiralal Gokaldas Dalal & Co.—45, Nagdevi Cross Lane, Bombay 3.

Hoosein & Bros., M. A.—Lakshmi Building, Sir Phirozshah Mehta Road, Fort.

Husein Musaa Virjee & Co.—Sheriff Hasam Building, Khoja Mohalla, Bombay 9.

Indo Bombay Trading Co.—34, Nagdevi Street, Bombay 3.
Industrial Syndicate.—Lentin Chambers, Dalal Street, Fort.

INTERNATIONAL TOOLS & HARDWARE STORES.—84, Kika Street, Bombay 4. Phone : 73636. Grams : "SANITARY."

Iron & Hardware (India) Co.—98, Nagdevi Cross Lane, Bombay 3.

Jacks & Co., Ltd., William.—Hamilton House, Graham Road, Ballard Estate.

JAIRAMDAS & SONS.—163, Narayan Dhuru Street, Bombay 3. Grams : "JAIRAMDAS." Phone : 29020.

James Tools & Hardware Co.—109-11, Nagdevi Street, Bombay 3.

Jashwantlal Manekial & Co.—40, Vir Nariman Street, Fort.
Jayant Metal Manufacturing Co.—152, Lohar Street, Bombay.
Jayantilal & Brothers.—38, Bibijan Street, Nagdevi, Bombay 3.

JIVRAJ & VRAJLAL.—122, Nagdevi Street, Bombay 3. Phone No. 30136. Grams : "SANIPIPES."

Kamlashankar, P. Joshi.—72-80, Nagdevi Cross Lane, Bombay 3.
Kanakia Corporation.—163, Nagdevi Cross Lane, Bombay 3.

KANTILAL BHOGILAL & CO.—(Estd. 1933) Engineering Stores, Tools & Hardware Merchants. 68, Nagdevi Cross Lane, Bombay 3. Phone : 30837 (Office) and 28947 (Residence). Grams : "PIPE TOOLS".

Kantilal Sanghvi & Co.—Mherwan Building, Sir Phirozshah Mehta Road.
Keshavlal Narsidas Jaliwalla.—157, Abdul Rehman Street, Bombay 3.
Khambatty, H. A., & Co., Ltd.—45-47, Lohar Street, Bombay 2.
K. Kirtanlal & Co.—114-16, Zaveri Bazar, Bombay 2.
Kishor Trading Co.—145, Narayan Dhuru Street, Bombay 3.
Kurwa & Kajiji.—142-44, Abdul Rehman Street.
Lookmanji Moosaji, Diamond Building, Lohar Chawl, Bombay 2.

MACHINE TOOLS & IMPLEMENTS.—93-95, Narayan Dhuru Street, Bombay 3. Phones : Office : 22863, Residence : 242425. Grams : "MACHTOOLS."

Mahomedally Valibhoy.—83, Abdul Rehman Street, Bombay 3.
Maneckchand Jivraj & Co.—Darukhana, Mazagaon, Bombay 10.
Mangaldas & Sons.—Lentin Chambers, Dalal Street, Fort, Bombay
Manseta, N., & Bros.—165, Lohar Chawl, Fort.
Marine & Mills Agencies.—197, Nagdevi Street, Bombay 3.
Mashruwalla, C. M., & Co.—172/74, Nagdevi Street, Bombay 3

MEHTA & COMPANY.—Latif House, Argyle Road, Iron Market, Bombay 9. Phone : 30963. Grams : "NICERODS." Importers of Iron, Steel, Hardware and Metals.

Mehta & Co., S.—Ances Chambers Annexe, Carnac Road, Bombay 1.
Mehta Hardware Mart.—81-83, Nagdevi Street, Bombay 3.
Mehta, H. P., & Co.—112, Nagdevi Street, Bombay 3.
Mehta Textile & Hardware Stores.—158/160, Narayan Dhuru Street Bombay 3.
Modern Machine Tools Co.—88, Nagdevi Cross Lane.
Modern Mill Stores.—97, Nagdevi Street, Bombay 3.
Modi Trading Co.—163, Nagdevi Cross Lane, Bombay 3.
Moloobhoy, Ahmed S., & Sons.—281, Nagdevi Street.
Nanalal Ambalal & Co.—69, Nagdevi Street.
Naterwalla & Co., S. R.—Bombay Mutual Annexe, Gunbow Street, Fort.

NEW INDIA HARDWARE MART.—152, Narayan Dhuru Street, Bombay 3. Grams : "FREETRADE." Phone : 38665.

Ochhavlal, R., & Co.—86, Nagdevi Street, Bombay 3.
Odhavji, B., & Co.—Carnac Bunder, Argyle Road, Bombay 9.
Orient Paint & Hardware Mart.—67, Habib Building, C. P. Tank Road, Bombay 4.

PARAMOUNT HARDWARE MART.—Carnac Bunder, Bombay 9. Phone : 22932. Grams : "PARAMART". Authorised Stockists of Tata Agrico Tools.

Paramount Tools Company.—3, Narayan Dhuru Cross Lane, Bombay 3.
Parekh & Parbhoo Ltd.—Khetwadi Back Road, Bombay 4.
Parekh, P. S., & Co.—108, Nagdevi Street.
Patel, U. D., & Co.—11, Bank Street Building, Fort.
Patell, P. R., & Co., Ltd.—Mherwan Building, Sir Phirozshah Mehta Road, Fort.
Pavri, J. K.—10, Karim Chambers, Hamam Street, Fort.
Porbunderwalla, A. K., & Bros.—Ruby Mansion, 92, Parsi Bazar Street, Fort.

P. Ratilal & Co.—43, Dhanji Street, Bombay 3.
Ramchand Mathradas Aggarwal.—106-108, Dhanji Street, Bombay 3
Rasiklal, K., & Co.—Mehta Building, Medows Street, Fort.
Rasiklal Shah & Co.—93, Narayan Dhuru Street, Bombay 3.
R. C. Traders.—Lentin Chambers, Dalal Street, Fort.
Real Paint & Hardware Mart.—105, C. P. Tank Road, Bombay 4

RELIANCE TRADING CO.—Vithal Sayana Building No. 1, Lohar Street, Bombay 2. Phone : 38751. Grams : "STORE-TRADE".

RELIANCE IRON & HARDWARE CO.—11, Narayan Dhuru Cross Lane, Bombay 3. Grams : "SUMADHUR".

Repute Engineering Co.—165, Narayan Dhuru Street, Bombay 3
Richardson & Cruddas Ltd.,—Byculla Iron Works, Byculla.
Rowe & Rowe.—381, Hornby Road, Fort.

R. Vadilal Desai & Co.—15-27, Ratan Building, Bibijan Street, Nagdevi, Bombay 3.

Sakria & Sons.—82, Nagdevi Cross Lane, Bombay 3.
Sanghani & Co.—178-180, Abdul Rehman Street.
Sant Ram Biasdev Co.—6, Narayan Dhuru Cross Lane, Bombay 3
Shah Chhaganlal Ladhubhai.—56, Mudi Bazar (Mandvi), Bombay 2. Phone : 34522.
Shah Engineering Stores.—88-92, Nagdevi Cross Lane, Bombay 3
Shah Machine Tools Co.—75, Abdul Rehman Street, Bombay 3.
Shah Trading Corporation.—Opp. Crawford Market, Oomr Building, P. B. No. 2200, Bombay 2.
Sharsfally & Sons.—73/75, Bhaijpala Lane, Bombay 3.
Shivdayal Bilbhaderdas.—96, Narayan Dhuru Street, Bombay 3
Shree Krishna Trading Co., Ltd.—Alli Chambers, Medows Street, Fort.
Siriram & Co.—97, Narayan Dhuru Street, Bombay 3.
Sivramkrishnan, M.—Hazi Manzil, 82-86, Abdul Rehman Street, Bombay 3.

Soho House.—Vithal Sayana Building, Lohar Street, Bombay 2.
Solem Hardware Mart.—155, Nagdevi Street.
Somnath, C., & Co.—Dr. D'Silva Road, Dadar (Western Railway), Bombay.
Standard Metal Works Ltd.—17, Falkland Road, Low Level, Tardeo.
Standard Trading Co.—Vithal Sayana Building No. 2, Lohar Street, Bombay 2.
Standard Tube Co., Ltd., The.—128, Nagdevi Street, Bombay 8.
Stanley Works, The.—43-44, Lakshmi Building, Sir Phirozshah Mehta Road, Fort.
Steelyard Limited.—Rahimtoola House, Homji Street, Fort.
Sunderlal & Sons.—Pranjivan Building, Narayan Dhuru Cross Lane, Bombay 3.
Talib & Co.—Talib House, 104, Nagdevi Street, Bombay 8.
T. Allimahomed & Co.—144-46, Sarang Street, Bombay 3.
Tarachand Gupta & Bros.—Narayan Dhuru Street, Bombay 3.
Textile Stores & Hardware Mart.—32, Bibijan Lane, Nagdevi Street.

TEXTOOL TUBE CO.—P.B. No. 3271, 9, Abdul Rehman Street, Bombay 3. Grams: "TEXTOOL".

Thakorlal & Co.—47, Nagdevi Cross Lane, Bombay 3.

T. M. TYABJI & BROTHERS.—Hamam House, 32-38, Hamam Street, Fort. Hardware, Engineering, Aeronautical & Electrical Specialists. Grams: "TRUEWAY." Phone: 254285.

Tirathram Kashmirilal.—89, Nagdevi Cross Lane, Bombay 3.
Trinity Industrial Corporation.—Khandelwal Bhawan, 166, Dr. Dadabhai Naoroji Road, Bombay 1.
Trivedi & Co.—Navsari Chambers, Hornby Road, Fort.
Turner, Hoare & Co., Ltd.—Gateway Building, Apollo Bunder.
Tyebally Dawoodjee (Estd. 1865).—84, Bhajipala Lane, Bombay 3.

TYEBALLY & CO., E.—13, Khokha Bazar, Bombay 3. Grams: "CHEAPSHOP". Direct Importers, General Hardware & Tool Merchants, Order Suppliers.

U. D. Patel & Company.—11, Bank Street, Fort, Bombay.
United Mill Stores (India).—61, Nagdevi Street, Bombay 3.
United Tube & Hardware Co.—146, Nagdevi Street, Bombay 8.

UNIVERSAL TRADING CO.—General Hardware Merchants and Order Suppliers, Stockists of Rubber Goods, Asbestos Goods, Jointing Sheets, Shovels, Ebonite and Fibre Sheets and Rods, Engineering Tools, Twist Drills, Hammers, Spanners, Grinding Wheels, etc. Mohamedi House, 79, Mohamedalli Road, Bombay 3. Grams: "IRONMART."

Vasi Shums & Co.—Vasi Building, 165-167, Nagdevi Street.
Vinod Mehta & Co.—22B, Noble Chambers, Parsi Bazar Street, Fort.
Viswabharati Trading Co.—Kumpta Street, Ballard Estate, Bombay 1.
Vithaldas, G., & Co.—60, Nagdevi Cross Lane, Bombay 8.
Vora, J. C., & Co.—107, C. P. Tank, Bombay 4.

WESTERN INDIA HARDWARE MART.—16, Narayan Dhuru Cross Lane, Bombay 3. Grams: "VISCOSITY." Phone: 28730.

Zaveri, C. A., & Co.—44, Abdul Rehman Street.

HARDWARE IMPORTERS

ABDEALLY, B. M., & CO.—127, Sarang Street, Bombay 3. Phone: 29990. Grams: "ALERTDEAL."

Dinkar Trading Co.—95/97, Bhandari Street, Bombay 3.

EAST ASIATIC CO. (INDIA) PRIVATE LTD., THE.—Wavell House, Graham Road, Ballard Estate, Bombay. Phone: 26-2711 (8 lines). Offices at Madras, Calcutta, New Delhi.

Evergreen Corporation.—Peerbhoy Building No. 1, Lohar Chawl, Bombay 2.
Gaytee & Company.—Janmabhoomi Chambers, Fort Street, Fort, Bombay. Grams: "IMPENG." Phone: 32449.

HARJIMAL KIDARNATH & CO. (Estd. 1811)—87, Nagdevi Cross Lane, Bombay 3. Phone: 30041 (Extn. 24). Grams: "CHAIN".

International Tools & Hardware Stores.—84, Kika Street, Bombay 4. Phone: 73636; Grams: "SANITARY."

JAIRAMDAS & SONS.—163, Narain Dhuru Street, Bombay 3. Grams: "JAIRAMDAS." Phone: 29080.

James Tools & Hardware Co.—109-111, Nagdevi Street, Bombay 8.

KANTILAL BHOGILAL & CO. (Estd. 1933).—Engineering Stores, Tools & Hardware Merchants, 68, Nagdevi Cross Lane, Bombay 3. Phones: 30637 (Office) and 28947 (Residence). Grams: "PIPETOOLS".

KANTILAL SANGHVI & CO.—Mherwan Building, Sir Phirozshah Mehta Road, Fort. Phone No.: 34281. Grams: "EXPIM."

Mangaldas & Sons.—Lentin Chambers, Dalal Street, Fort, Bombay.

NAGDEVI TOOL-STEEL MART.—186-88, Nagdevi Street, Bombay 3. Phone: 29060. Grams: "TENDERERS."

NATVERLAL & BROS.—Hardware Merchants and Direct Importers. 180, Nagdevi Street, Bombay 3. Phone: 27910. Grams: "NATVERBROS."

NEW HIND ENGINEERING CO.—63, Nagdevi Cross Lane, Bombay 3.

New India Hardware Mart.—152, Narayan Dhuru Street, Bombay 3.
Shah Trading Corporation.—Oomrigar Building, opp. Crawford Market, Bombay 3.
Shalebhoy Tyebjee & Sons.—12, Bruce Street, Bombay 1.

THAKORLAL & CO.—47, Nagdevi Cross Lane, Bombay 3. Phone: 20498. Grams: "PIPEWARE."

TIRATHDAS KOTUMAL.—107, Narayan Dhuru Street, Bombay 3. Grams: "HARDTOOL".

United Mill Stores (India).—P. B. No. 3256, 93, Narayan Dhuru Street, Bombay 3.

HATS AND CAPS MFRS. AND DEALERS

Calcutta Sola Hat Agency.—Dwarkadas Building, Mangaldas Road, Bombay 2.
Delhi Hat Works.—206-208, Carnac Road, Bombay 2.
Kashmir Govt. Arts Emporium.—Sir P. M. Road, Bombay 1.

LUIZ.—Opp. G. T. Hospital, 280, Carnac Road, Bombay 2. Hatters, Uniform Cap & Badge Makers. Contractors to T.S. "Dufferin", The Indian Navy and Railways.

Nanjis.—206-208, Carnac Road, Bombay 2.
Noormahomed Manji Topiwalla.—255, Ibrahim Rahimtoola Road. Dealers in Furs, Caps and Materials.
Popular Sola Hat Works.—Barna Building, opp. Crawford Market. Grams: "POPULARHAT." Phone: 30215.

HEAT TREATMENT AND METAL PROCESSING PRODUCTS

Balmer Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate, Fort.
Datson Raviraj & Co.—43, Tamarind Lane, Fort.

HARDCASTLE, WAUD & CO., PRIVATE LTD.—Alice Buildings, Dr. Dadabhai Naoroji Road, Fort.

Imperial Chemical Industries (India) Ltd.—Imperial Chemical House, Ballard Estate.
Pioneer Equipment Co. Private Ltd.—139 Medows Street, P.O. Box No. 1809, Fort.
Thos. W. Ward (India) Ltd.—Marshall Building, Ballard Road, Ballard Estate, Fort.

HIDES AND SKINS

EDGAR HANDLEY AND CO. PRIVATE LTD.—135, Medows Street, Fort. Phones: 253548 and 252934. Grams: "TROJAN."

Govias, Basil M. P.—P. O. Box 263-A, Bombay Mutual Building, Hornby Road, Fort.
Hashambhoy Aloo Mahomed & Son.—Dostmahomed Building, Nishanpada Road, Khadak, Bombay 9.
Mahomedali Esmail.—Stock Exchange Bldg., Apollo Street, Fort.
Western Mercantile Co.—38, Western India House, Sir Phiromshah Mehta Road, Fort.

HOISTING MACHINERY (LIFTS & HOISTS)

ABDEALLY, B. M., & CO.—127, Sarang Street, Bombay 3. Phone: 29990. Grams: "ALERTDEAL."

AMIRUDDIN SHALEBHOY TYEBJEE & SONS.—Shale Building, 2nd Floor, Bank Street, Fort, Bombay 1.

ELECTRIC CONSTRUCTION & EQUIPMENT CO., LTD.—16-A, Hansraj Lane, Byculla Bridge, Post Bag No. 6965, Bombay 27. Phone: 75524. Grams: "COECELL." Sole Agents in India for Schindler & Co., Ltd., Lucerne, Ebikon, Switzerland.

Fleming John & Co., Private Ltd.—P. B. No. 76, Bombay 1. Phone: 261153.
Gujarat Trading Syndicate.—India House, Fort, Bombay 1. Grams: "GUTRASY."

HOSES (RUBBER & CANVAS)

AMIRUDDIN SHALEBHOY TYEBJEE & SONS.—Shale Building, 2nd Floor, Bank Street, Fort, Bombay 1.

AMRATLAL CHHAGANLAL & CO.—143, Nagdevi Street, Bombay 3. Phone: 29068. Dealing in Suction, Delivery & Fire Hoses, Surgical, Rubber & Plastic Tubings & Sheetings.

Calcutta Iron & Steel Co. Ltd.—68/D, Mohamedalli Road, Bombay 3.

Evergreen Corporation.—Peerbhoy Building No. 1, Lohar Chawl, Bombay 2.
Fleming John & Co., Private Ltd.—P. B. No. 76, Bombay 1. Phone: 261153.

JIVRAJ & VRAJLAL.—122, Nagdevi Street, Bombay 3. Phone: 30138. Grams: "SANIPIPES."

Richardson & Cruddas Ltd.—Byculla Iron Works, Bombay.

ROYAL HARDWARE MART.—106, Nagdevi Street, Bombay 3. Phone: 38621. Grams: "MANILAROPE." Distributors for "VENUS" Brand Hoses, suction, delivery, garden, Pneumatic, acid and oil resisting "NEOPRENE" Hoses and also Dunlop Hoses.

Shalebhoy Tyebjee & Sons.—12, Bruce Street, Bombay 1.

HOSIERY MANUFACTURERS AND DEALERS

Ahmed Ebrahim Bros.—882, Chuckla Street, Bombay 3.
Bhagvandas Chatrabhuj & Co.—20, Hamam Street, Fort.
Bombay Hosiery House.—9-12, Lahri House, 14, Bhajipala Street, Off Chakla Street, Bombay 3. Grams: "SAFETRADE."

BORIVLI HOSIERY MILLS (Estd. 1920).—Office: 63, Champa Gully, Mulji Jetha Market, Bombay 2. Phone No. 20414. Mills at Borivli, Western Rly. Phone No. 84035.

Cawnpore Mills Depot.—Churchgate House, Churchgate Street, Fort.
Chhaganlal Vishram & Co.—107-109, Chakla Street.
"Crawfords."—280, Carnac Road, Bombay 2.
Chunilal Mulchand & Co.—Waterloo Mansion, Mayo Road, Fort, Bombay.
Dave, J. M., & Co.—Kanta Terrace, Silk Bazar, Kalbadevi Road.
Haji Ebrahim Essak.—91, Sheriff Dewji Street, Bombay 3.
Haji Ebrahim Haji Mohammad B.—13, Bhajipala Lane, Bombay 3.
Harcon & Co.—19, Zakeria Musjid Road.
Hassaram & Co., K.—New Silk Bazar, Kalbadevi Road, Bombay 2.
Hukamchand Chanderbhan.—1st Floor, Hira Building, opp. Crawford Market, Carnac Road.

INDIA HOSIERY FACTORY.—Manufacturers of all kinds of Hosiery goods including Nylons. Kalachowki Road, Bombay 12. Phone: 40846. Grams: "KIRORI". Sale Shop: 115,117, Chakla Street, Bombay 3. Phone: 30023.

Jewan Bukhsh Mohammed Jan.—99, Chakla Street, Bombay 3.
Katrak Hosiery Works.—167, Lamington Road, Bombay 7.
Ladhabhai Ravji & Bros.—41, Advani Chambers, Sir Phirozshah Mehta Road, Fort.
Mansukhlal Kantilal & Co.—185, Mulji Jetha Building, Princess Street.
M. Dialdas & Sons.—190, Princess Street.

MENORA HOSIERY WORKS PRIVATE LTD.—75, Nehru Road, Vile Parle (East), Bombay 24. Phone: 86770. Grams: "MENORWORK".

Modern Hosiery Works.—Dhobiwadi, Thakurdwar.
Mohanlal, D., & Co.—Nariman Building, near P. O., Kalbadevi.
Parmanand Gordhandas & Co.—280, Carnac Road, Bombay 2.
Patel Hosiery Mills.—7-10, Botawala Building, Elphinstone Circle, Fort.
Pavri Sons & Co.—96-97, Bazar Gate Street, Fort.
Popatlal Ghelabhai & Co.—104, Chakla Street, Bombay 3.
Popular Hosiery Works.—96B, Lady Hardinge Road, Matunga (Western Rly.), Bombay 16.
Prataprai & Co.—4, Swadeshi Market, Kalbadevi Road, Bombay 2.
Rajai Bros.—Opp. Electric House, Colaba Causeway.
Sabu & Co.—Esplanade Mansion, Esplanade Road, Fort.
Shanghvi & Sons, N. H., (Estd. 1929).—47-48, 65-66, Swadeshi Market, Kalbadevi Road.
Sigil Traders.—R. B. Narayanlal Banslal Compound, opp. Bombay Central Station, Bombay 8.
Sultan Haji Mahomed & Co.—Kanta Terrace, 529, Kalbadevi Road, Bombay 2.
Surat Hosiery & Printing Works.—Sayee Bhuwan, 143, Princess Street.
Trivedi, R., & Co.—28, Laisingh Building, Lohar Chawl.
Utoomal & Assudamal Co.—Bombay Mutual Annexe, Gunbow Street, Fort.
Valibhai Kasmuddin.—101, Abdul Rehman Street, Bombay 3.
Vashani Cloth Stores.—Prospect Chambers, 313, Hornby Road, Fort.
Vasi Bros. & Co.—Topiwala Mansion, Mohamedally Road, Bombay 3.
Vaswani (India) Ltd.—496, Kalbadevi Road, Bombay 2.
West End Shop.—234-236, Carnac Road, Kerawalla Mansion, opp. Police Commissioner's Office, Bombay 2.
Western Link Co.—19, Bank Street, Fort.
Yacob Ahmed Bros.—Topiwalla Mansion, Mahomedally Road.

HOSPITAL EQUIPMENT & SUPPLIES

B. MOHANLAL & CO.—Office: 418, Kalbadevi Road, Showroom: 184, Princess Street, Bombay 2. Phone: 30065. Grams: "RICITICY".

Bole Brothers.—49, Princess Street, Bombay 2. Phone: 25316.

BRIGHT BROTHERS PRIVATE LTD.—186-A, Tardeo Road, Bombay 7. Grams: "BRIBOS." Phones: 77454 and 77455. Manufacturers of Buckets, Carbays, Basins, Containers from Plastics material (Polythene), impervious to many Chemicals including Acids.

DOCTOR & CO.—Bombay Mutual Terrace, 534, Sandhurst Road (Near Sandhurst Bridge), Bombay 7. Phone: 40907. Grams: "DIATHERMY". Suppliers of all Hospital Equipments, Apparatus and Appliances.

DONALD & CO.—288, Princess Street, Bombay 2.

EAST ASIATIC CO. (INDIA) PRIVATE LTD., THE.—Sole Agents: Siemens Reiniger Werke, A.G., Germany. Shreenivas House, Waudby Road, Bombay. Phone: 26-2711 (6 lines). Offices at Madras, Calcutta, New Delhi, Nagpur, Lucknow, Bangalore, Secunderabad, Trivandrum.

Fairdeal Surgical Corporation.—106, New Citizen Bank House, Palton Road, Bombay 1. Grams: "FOLLOWER." Surgical Instruments and Hospital Sundries.
G. K. Kansara.—118, Kansara Chawl, Kalbadevi, Bombay 2.
Gordhandas Desai Private Ltd.—Kermani Bldg., Sir P. M. Road, Bombay 1.

GODREJ & BOYCE MFG. CO. PRIVATE LTD.—Lalbaug, Parel, Bombay.

HINDUSTAN FABRICS & STORES PRIVATE LTD.—Fulchand Nivas, Chowpatty Sea Face, Bombay 7. Grams: "SWAKALA". Phone: 27106.

I.C.I. (India) Private Ltd.—P. B. No. 310, Bombay 1.
Indian Oxygen Ltd., The.—Ghatkopar (Bombay Agra Road), Bombay. Phone: 67941 (4 Lines); Grams: "INDOXCO".
Jagkumar & Co.—Prospect Chambers Annexe, Hornby Road, Fort.
Kapadia Brothers.—Kalan Building No. 3, Kandewadi, Bombay 4.

KHIRA STEEL WORKS PRIVATE LTD.—H.O. & Factory: Ghodbunder Road, Santa Cruz, Bombay 23. Grams: "STEELCASE", Phones: 88002 & 89569. Regd. Office: Kothare Building, Sandhurst Bridge, Bombay 7. Grams: "SWAKALA". Phone: 27636. Showroom: Fulchand Nivas, Chowpatty Sea Face, Bombay 7. Grams: "SWAKALA", Phone: 27106.

LANE METAL & ENAMEL WORKS PRIVATE LTD.—Kasturchand Mills Compound, Tulsipipe Road, Dadar, Bombay 28. Phone: 60637. Grams: "LANENAMEL".

NATIONAL STEEL EQUIPMENT CO.—Naigaum Road (near Spring Mills), Dadar, Bombay 14. Phone: 61755. Grams. "BEDLOCKER." Specialists in Pressure Sterilizers, Hydraulic Dental Chairs, Invalid Furniture and Stainless Steel Equipment.

NATIONAL SURGICAL INSTRUMENT COMPANY (ESTD 1947).—Office & Works, 301, Haines Road, Worli, Bombay 18. Phone: 40540.

Prabhudas & Co.—27, New Hanuman Lane, Bombay 2.
Raj-Der-Kar & Co.—Commissariat Building, Hornby Road, Fort For Research and Industries. Phone: 27304.
Reliance Electric & Hardware Stores.—55, Krishna Bhuvan, Lohar Chawl.
Salemahomed Padamsee & Co.—141, Chakla Street, P.O. Box 3131, Bombay 3.

SHAH, M., & CO.—Kanji Mansion, Sandhurst Road, Bombay 4.

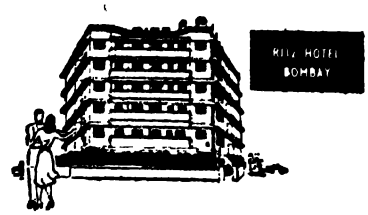
Shanti Trading Co.—New Citizen Bank House, Palton Road, Bombay 1.
Vasir Enamel Works Ltd.—91, Tank Bunder Estate, Bombay.
Williams Jack & Co., Ltd.—Hamilton House, Ballard Estate, Bombay 1.

HOTELS AND RESTAURANTS

Airlines Hotel.—Churchgate Reclamation, Bombay 1.
Ajanta Restaurant.—9, Mangalore Street, Ballard Estate, Bombay.
Ambassador Hotel.—Churchgate Extension, Bombay 1.
Aryanivas Hindu Lodging and Boarding House.—Opp. Vithalwadi, Kalbadevi Road.
Astoria Hotel.—Churchgate Reclamation, Bombay 1.
Bentley's Hotel.—17, Oliver Road, Colaba, Bombay 1.
Berrys Restaurant.—Churchgate Extension, Bombay 1.
Bombay Lodge.—Borbhat Lane and Girgaum Road Junction, Girgaum, Bombay 4.
Bomtell's Swiss Confectionery.—63, Warden Road, Bombay 26.
Brandon & Co., Ltd.—Elphinstone Bldg, Veer Nariman Road, Bombay 1.
Bristol Grill Private Ltd.—Laxmi Buildings, Sir Phirozshah Mehta Road, Fort.
Chetana.—34, Rampart Row, Fort.
Ches Caroline.—Dhanraj Mahal, Apollo Bunder, Bombay 1.
Elphinstone Hotel.—Gulshan Chambers, Hornby Road, Fort.
Empire Hindu Hotel.—Hornby Road.

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Faletti's Italian Cafe.—Cusrow Baug, Causeway, Bombay 1.
Frederick's Hotel.—Lansdowne Road, Apollo Bunder, Fort.
Gaylord Restaurant.—May Fair, Churchgate Street, Bombay 1.
George Restaurant.—20, Apollo Street.
Girgaum Lodge.—47F, Khotachi Wadi, Opp. Majestic Cinema, Bombay 4.
Gordon & Co.—Rehmat Manzil, Churchgate Reclamation, Bombay 1.
Grand Hotel (Bombay), Ltd.—Ballard Estate, Fort.

GREEN'S HOTEL & RESTAURANT.—Apollo Bunder, Grams: "CATERERS". Phone: 219101.

Hotel Regal.—232, Frere Road.
Hotel Waldorf.—16, Arthur Bunder Road, Bombay 5.
Ideal Restaurant.—Alice Building, Hornby Road, Fort.
Jamieson Guest House (Lodging & Boarding).—Rafiya Manzil, 14 Wodehouse Road, Adj. YMCA, Fort, Bombay 1. Phone: 35504. Grams. "JAMEGUEST."
Juhu Country Hotel.—Juhu, near Santa Cruz.
Juhu Hotel & Restaurant.—Via Santa Cruz, Juhu, Bombay 23.
Kamling Chinese Restaurant.—"Nagin Mahal", Churchgate Reclamation.
Kashmir Hotel.—Dhun Mahal, Dhobi Talao.
Kerawalla Chamber's Guest House.—Strand Road, Bombay 1.
King George VI Restaurant.—Noor Mahal, King's Circle, Matunga.
Kwality Restaurant & Ice Cream Company.—Causeway, Colaba, Bombay 1.
Lawrence Hotel.—Ashokumar House, Rampart Row, Bombay 1.
Lotus Court Hotel.—Strand Road, Apollo Bunder, Bombay 1.
Leopold Cafe & Stores.—No. 6, Colaba Causeway, Apollo Bunder.
Lessey's Boarding House.—Soona Mahal, Marine Drive, Bombay 1.
London Hotel.—323, Grant Road, Bombay 7.
Mackinnon Mackenzie & Co. Ltd.—Ballard Road, Ballard Estate, Bombay 1.
Madhavashram.—18, Parekh Street, Girgaum, Bombay 4.
Majestic Hotel.—Esplanade, Museum.
Mama Kane's Swatchha Upahar Griha.—Dadar B.B., Bombay 28.
Mello's Hotel.—Nicol Road, Ballard Estate.
Modern Hindu Hotel.—12, Wallace Street, Fort.
Mongini's Restaurant.—Churchgate Street.
Morenas & Co.—69, Mahatma Gandhi Road, 22, Medows Street, Fort.
National Hindu Hotel.—Frere Road, opp. Tram Junction, Fort.
New Coronation Durbar Hotel.—Near Novelty Cinema, Grant Road Tram Terminus.
New Empire Restaurant, Stores & Bakery.—134, Hornby Road.
New Empire Stores & Restaurant.—Rustom Mahal, Tram Terminus, Dadar.
New Welcome Hindu Restaurant.—Medows House, Tamarind Lane, Fort.
New World Chinese Restaurant.—Gulestan, opp. Metro Cinema, Dhobi Talao.
Nrisinha Hindu Lodge.—177-179, Hornby Road, Fort.
Orient Hotel.—Orient Hotel Building, Crawford Market.
Outram Private Hotel.—Menkwa Building, Outram Road, Fort.
Parisian Dairy Company.—Soona Mahal, Marine Drive, Bombay 1.
Picnic Cottages Restaurant.—Versova, near Andheri.
Purohit Hotel.—Parekh Mahal, Churchgate Street.
Purohit Restaurant & Stores.—Krishna Building, Fort Street, Fort.
Pyrke's Apollo Hotel.—Lansdowne Road, Apollo Bunder.
Railway Hotel.—Charni Road.
Regent Hotel.—Ballard Pier.
Ritz Hotel and Restaurant.—Churchgate Reclamation, near Eros Cinema, Bombay.

ROYAL GUEST HOUSE (LODGING & BOARDING).—Lady Hardinge Road, opp. Rivoli Cinema, Mahim, Bombay 16. Phone: 63963. Grams: "ROYALGUEST."

Royal Hotel.—Hassam Chambers, Parsi Bazar Street, Fort.
Santacruz Airport Restaurant.—Santacruz, Bombay 29.
Sardar Griha (Private) Ltd.—Carnac Road, Bombay 2.
Savoy Hotel & Restaurant.—Lamington Road, next to Bombay Central.

SEA FACE HOTEL.—Dar-ul-Habib, 29, Marine Drive, Bombay. Tel.: 36711.

Sea Green Hotel.—Marine Drive, Bombay 1.
Sea Green South (Hotel).—Marine Drive, Bombay 1.
Sea View Chinese Restaurant.—Apollo Bunder, Fort.
Sea View Hotel.—221-225, Frere Road, opp. G.P.O., Fort.
Sea View Restaurant.—Juhu, Santa Cruz.
Ship Hotel.—Opp. General Post Office, 219, Frere Road, Fort.
Shree Krishna Boarding House.—Girgaum Tram Terminus, Bombay 4.
Sidhwa Guest House.—Soona Mahal, Marine Drive, Bombay 1.
Simla and Calcutta Hotel.—Mangalore Street, Fort.
Soona Service Suites.—Soona Mahal, Marine Drive, Bombay 1.
Strand Hotel.—Strand Road, Apollo Bunder, Bombay 1.

TAJ MAHAL HOTEL.—Apollo Bunder. Grams: "INHOTELS". Phone: 219101 (10 lines).

Tambe, B., Private Ltd.—Sanzgiri Sadan, Girgaon Road, Bombay 4.
Veerkar Ahar Bhavan.—Girgaum Corner, Bombay 4.
Volga Restaurant—46, Churchgate Street, Bombay 1.
Wayside Inn.—Rampart Row, Fort.
Welcome Hindu Restaurant.—Medows Street, Fort.
Welcome Hotel.—Frere Road, Fort.
West End Hotel.—(Proprietors: West End Hotel Ltd.), 45, New Marine Lines, Bombay.

HOUSE AND ESTATE AGENTS

Brijmohan Banwarilal.—61, Reay Road, Mazagaon, Bombay 10.
Dastur & Sons, M. B.—Ismail Building, Hornby Road, Fort.
Estates Valuation & Engineering Co.—20, Old Custom House Road, Fort.

GILBERT LODGE & CO.—"Elphinstone House", Veer Nariman Street, Fort. Phones: 251819 and 252607.

Mayfair Furnishing Co.—Great Western Building, Apollo Street, Fort.
Narayanrao Kulkarni & Co.—20, Hamam Street, Fort.
Rao Saheb Rawji Sojpal & Sons.—322, Shanti Niketan, Vincent Road, Kingsway, Matunga.
Royal House Agency.—Rehman Building, Churchgate Street, Fort.

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Central Ice & Cold Storage Co.—Saboo Sidick Road, Crawford Market, Bombay.
City Ice Supplying & Cold Storage Ltd.—206, Bazargate Street, Fort.
Dhunjibhoy's Ice Factory.—Mount Road, Mazagaon.

HOMILA ICE WORKS, COLD STORAGE AND REFRIGERATION.—Manufacturers of Pure and Colourless Ice. 33-C, Jeejibhoy Street, Near Municipal Workshop, Parsa Road, Bombay 8 (India). Phone No. 71692.

Siddley Ice Factory.—606A, Arthur Road, Tardeo.
Sitaram Industries.—Byculla Bridge, Hansraj Lane, Byculla.
Spa's Mineral & Ice Factory.—Lamington Road (North), off Jacob Circle.
Sunawalla Ice Factory & Cold Storage & Refrigeration (Estd. 1918).—Factory: 188, Lamington Road, behind Minerva Talkies, Bombay 7.

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Abdool Hoosein Jivajee & Co.—241, Nagdevi Street, Bombay 8.
Abdoola Joosab Calcuttawalla & Co.—137-41, Samuel Street, Bombay 9.
Abdul Karim & Co.—Mohomed Manzil, 59-59A, Memonwada Road.

ABDULKARIM, M. H.—272, Abdul Rehman Street, Bombay 3. Phone No.: 29268. Grams: "TAUFIQ."

Abdul Razak & Co.—Opp. Juma Masjid, Takiawadi, Kurla.
Abdulkhadar Shamsuddin & Co.—48, Khoka Bazar, Bombay 8.
A. A. Baker & Co.—80, Bhajipala Street, Bombay 3.
Adamally Sons Ltd.—277, Nagdevi Street, Bombay 8.
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Advani, J. B., & Co., Ltd.—Advani Chambers, Sir Phirozshah Mehta Road.
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Akbarally Ebrahimji.—38 C, Cowasji Patel Street, Fort, Bombay. Grams: "Tussibar"
Akbarally Mohamedally & Co.—316, Abdul Rehman Street, Bombay 3.
Alfa Sports.—Metro House, Bombay 1. Phone: 27540. Grams: "ALFASPORTS."
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Begraj Gupta & Co.—207, Kalbadevi Road, Bombay 2.

Bhagwandas Chatrabhuj.—20, Hamam Street, Fort.

Bhagwandas Devshi, Ltd.—87, Princess Street.

Bhagwandas Sant Parkash.—50, Nakhuda Street, Bombay 3.

Bhaidas Cursondas & Co.—Sir Vithaldas Chambers, 16, Apollo Street, Fort.

Bhandari Brothers Ltd.—Dadyseth House, 44, Cawasji Patel Street, Fort.

Bhanji Lavji Porbandar Ghee Supply Agency.—Shroff Mansion, 268, Kalbadevi Road.

Bhanoo Trading Co.— 29, Imperial Chambers, Wilson Road, Ballard Estate. Phone No. 30101. Grams: "SANGHANI." General Importers, interested in Woollen, Cotton, Art Silk, Silk, Piecegoods, Fents and Remnants, Hardware Tools, Electric Appliances, Measuring Instruments, Incandescent Lights and Parts and Paper Stationery, Fountainpens and Parts.

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Bharat Industrial Co.—77-79, Nagdevi Cross Lane, Bombay 3.

Bhargava & Co., K. L.—94, Medows Street, Fort.

Bhojoomal Ghanoomall.—42, Dhanukar Building, Kalbadevi Road.

Bhukanwala & Sons.—Medows House, Medows Street, Fort.

Birla Bros., Ltd.—Imperial Bank Annexe, Bank Street, Fort.

Bock F. & Co.—Shale Building, Bank Street, Bombay 1.

Bombay Importing Agency.—75-77, Sarang Street, Bombay 3.

Bombay Machine Store Co., The.—Laxmi Building, 43, Nagdevi Cross Lane, Bombay 3.

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Byramji, T. & Co.—Central Bank Building, Mahatma Gandhi Road, Fort.

Calico General Export Co.—12, Rampart Row, Fort.

Cambata Industries Private Ltd.—Cambata Building, 42, Queen's Road, Bombay 1.

Capital Colour & Chemical Co.—77-87, Mirchi Street, Vadgadi, Bombay 3.

Cawasji Behramji & Co.—City Ice Building, 298, Bazargate Street, Fort.

Central Syndicate Ltd.—16/18, Custom House Road, Fort.

Chhaganlal (India) Imports.—Carnac Bunder, Bombay 9. Grams: "CONTRACTS."

Champaklal Morarji & Co.—193, Samuel Street, Vadgadi, Bombay 9.

Chavannes & Co., Private Ltd.—Mankwa Building, 10, Outram Road.

Chimanlal & Co.—38/42, Shamsett Street, Bombay.

Chimanlal Vadilal & Co.—80, Abdul Rehman Street.

Chinoobhai & Bros., Ltd.—Churchgate House, Churchgate Street.

Chokhani Brothers.—59, Forbes Street, Fort.

Chotirmall & Co., K. A. J.—501, Kalbadevi Road, Bombay 2.

Clarke & Smith (India), Ltd.—Hamali Building, Hornby Road, Fort.

Clubwalla & Co.—27-29, Hammam Street.

Collinson & Co., Ltd.—Standard Building, Hornby Road, Fort.

Continental Export & Import Co.—Mehta Building, 47, Medows Street, Fort.

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Corn Products Co. (India), Ltd.—Shrinivas House, Waudby Road, Fort.

Cotton Agents Ltd.—Imperial Bank Annexe, Bank Street, Fort.

Crystal & Co., J.—111, Mahatma Gandhi Road, Fort.

Curmally Jan Mahomed.—160-162, Samuel Street, Bombay 9.

Dadajee Dhackjee & Co., Ltd.—Shree Pant Bhuvan, Sandhurst Bridge.

Daichi Bussan Kaisha Ltd.—4th Floor, Navsari Chambers, Outram Road, Fort, Bombay. Phones: 261667 and 262148. Grams: "DAITIBUSAN".

Dalal B. Shroff & Co.—361, Dr. Dadabhai Naoroji Road, Fort. Phone: 21465.

DANN-DECKER COMPANY.—38, People's Building, Sir Phirozshah Mehta Road, Fort, Bombay. Phone: 262666. Cable: "DANDEKKERCO", Bombay.

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Das & Co.—59, Apollo Street, Fort.

Dave, J. M., & Co.—Kanta Terrace, Silk Bazar, 529, Kalbadevi Road, Bombay 2.

Devidas Mulji Kapadia.—Yusuf Building, Hornby Road, Fort.

Dickinson John & Co., Ltd.—Kumpta Street, Fort.

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D. Manilal & Co.—Harischandra Nivas, 419-A, Kalbadevi Road, Bombay 2.

Drennan & Co.—Allahabad Bank Building, Fort, Bombay.

Dubash Freres & Co.—Victoria Building, Parsee Bazar Street, Fort.

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Eastern Import & Export Co.—Jan Mansion, Sir Phirozshah Mehta Road, Fort.

Eastern Import & Export Bureau.—3-5, Vithalwadi, Bombay 2.

Ebrahim Allibhoy & Sons.—260-64, Abdul Rehman Street, Bombay 2.

Ebrahim Manji & Co., Ltd.—Kamar Building, Cawasji Patel Street, Fort.

Ebrahim Noorudin & Co.—"Kagdy Manzil," 119, Bazar Gate Street, Fort.

ECHKE PRIVATE LIMITED.—43, Tamarind Lane, 4th Floor, Fort. Phone: 251817. Grams: "ECHKE."

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EDGAR HANDLEY AND COMPANY PRIVATE LIMITED.—135, Medows Street, Fort, Bombay. Phones: 253548 and 252934. Grams: "TROJAN."

Empee Agencies.—40, Cawasji Patel Street, Fort, Bombay.

Engineer Bros.—Sir Vithaldas Chambers, 16, Apollo Street, Fort.

Engineer, S. D., & Son.—Imperial Chambers, 32, Wilson Road, Ballard Estate.

Excel Importers.—89, Princess Street, Bombay 2.

Ex-Import Mercantile Corporation.—229, Nishanpada Road, Bombay 9.

Ex-Import Trading Co.—Queen's Mansion, Bastion Road, Fort.

Ezra Bros.—Mustafa Building, Sir Phirozshah Mehta Road, Fort, Bombay 1.

Fazalbhai Ibrahim & Co., Ltd.—Ismail Building, Hornby Road.

Fillunger, H., & Co.—16, Ormiston Road, opp. Electric House, Bombay 1.

FINLAY, JAMES & CO., LTD.—Chartered Bank Building, Mahatma Gandhi Road, Fort, Bombay 1.

Firoz Trading Co.—Kamer Building, Cawasji Patel Street, Fort. Phone No. 33832. Grams: "Polestar."

Framroz M. Chinoy & Sons.—Motiwala Mansions, Gowalia Tank, Bombay 26.

Frangi, N. S. (India).—32, Apollo Street, Fort.

Frank Rose & Co.—"Kalam Kutir", 211-219, Frere Road, Fort, Bombay 1.

Freight Carriers Ltd.—Medows House, Medows Street, Fort.

Gangaram & Co.—313, 3rd Floor, Himalaya House, Paltan Road, Bombay 1.

G. Arjan (India) Co.—108, Himalaya House, Paltan Road, Bombay 1.

Gannon, Dunkerley & Co., Ltd.—Chartered Bank Building, Mahatma Gandhi Road, Fort.

Gaytee and Company.—Janmabhoomi Chambers, Fort Street, Fort. Grams: "IMPENG." Phone: 32449.

Getz Bros. & Co.—Western India House, Sir Phirozshah Mehta Road, Fort, Bombay.

Ghadiali, J. P., & Co.—12, Rampart Row, Fort.

Gin Store Co., The.—76, Nagdevi Cross Lane, Bombay 3.

Girdharlal & Co.—48, Podar Chambers, Parsi Bazar Street, Fort. G.P.O. Box 826.

Gladwyn & Co.—251, Hornby Road, Fort, Bombay 1.

Goodwill Trading Co.—34, Nagdevi Street, Bombay 3.

Goolabkhan Peerkhan Co.—178, Nagdevi Street, Bombay 3.

Gore & Co.—Great Social Insurance Building, Sir Phirozshah Mehta Road, Fort.

Govindram Dwarkadas.—Kermani Building, Sir Phirozshah Mehta Road, Fort.

Grahams Trading Co., Ltd.—16, Bank Street, Fort.

Great Eastern Trading Co.—107, Cawasji Patel Street, Fort.

Habib Rawjee, G., & Co.—Hamam House, Hamam Street, Fort.

Haji Ahmed Husain & Co.—Topiwalla Mansion, Mohamedally Road, Bombay 3.

Haji Jaamohamed Moosa.—27-29, Zakaria Bazar, Sheriff Dewji Street.

Hales Bros. (India) Ltd.—K. Lekhraj Building, Carnac Bridge, Bombay 3.

Halindia Cotton Co., Ltd.—71-73, Apollo Street, Fort.

Hansraj Hariram & Co.—Famalbhoy Building, opp. Flora Fountain, Fort.

Harchandani Sons.—229, Masjid Bunder Road, Bombay 3.

Harda Electric Supply Co., Ltd.—17-19, Bastion Road, Fort.

Hardcastle, Waud & Co. Private Ltd.—Alice Buildings, Hornby Road, Fort.

Harilal Manilal & Co.—(Established 1919).—346, Kalbadevi Road, Bombay 2. Phone: 39717.

Hasanally Brothers.—Chuckla Street, Bombay 3.

HASSAMAL BROS.—336, Kalbadevi Road, P.O. Box 2226, Bombay 2. Direct Importers and Exporters of Art Silk and Cotton Piece-goods and General Merchandise. Grams: "HASSABROS." Phones: 22661 & 22662.

Hassamal Dalamal.—New Silk Bazar, Kalbadevi Road, Bombay 2.

Hazarat & Co.—Warden House, Sir Phirozshah Mehta Road, Fort.

Herbertsons Ltd.—11-13, Elphinstone Circle, Fort.

Herman & Mohatta, B. R., Ltd.—People's Building, Sir Phirozshah Mehta Road, Fort.

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Himatlal Manilal & Sons.—346, Kalbadevi Road, Bombay 2.

Hindustan Export & Import Corporation Ltd.—Albert Building, Hornby Road, Fort.

Hoare Miller & Co. Ltd.—Post Box No. 1978, Bombay 1.

Hoby & Co.—190-192, Hornby Road, Fort.

Holland-Bombay Trading Co., Ltd.—E. D. Sassoon Bldg., Dougall Road, Ballard Estate.

Honey Day.—Alice Buildings, Hornby Road, Fort.

HOOSEIN, M. E., & BROS.—Lakshmi Building, Sir Phirozshah Mehta Road, Fort. Tele.: 26-2166/67.

Hotchand Jawharmal.—3rd Floor, Round Building, Kalbadevi Road, Bombay 2.

Hukamchand Chanderbhan.—1st Floor, Hira Building, opp. Crawford Market, Carnac Road.

Husein Abdulkarim Panju.—Panju House, 138-40, Samuel Street, Khoja Mohalla, Bombay 9.

Husein Ebrahim.—75, Mahomedally Road, Bombay 3.

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Husein Mussa Virjee & Co.—Sheriff Hasam Building, Khoja Mohalla, Bombay 9.

India Manufacturing Agencies.—16/18, Custom House Road, Fort.

India Overseas Trading Co.—33, Western India House, Sir Phiroz shah Mehta Road, Fort.

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Indo-Overseas Representatives.—73, Bombay Mutual Bldg., Fort

Industrial Engineering Co.—45, Apollo Street, Fort.

Industries Service Corporation.—11, Bruce Street, Fort.

Inter-Asia Commercial Co.—111, Tamba Kanta, Bombay.

International Corporation.—12-A, Nanabhai Lane, Flora Fountain, Fort.

International Imports & Exports Ltd.—259, Kalbadevi Road, Bombay 2.

International Mercantile Corporation.—313, Himalaya House, 3rd Floor, Junction of Hornby Road and Paltan Road, Bombay 1.

International Traders.—People's Building, Sir Phirozshah Mehta Road, Fort.

International United Trading Corporation.—80-90, Lohar Street, Bombay 2.

Italindia Cotton Ltd. (Estd. 1922).—Indian Globe Chambers, Fort Street, Fort, Bombay.

Jafferbhoy Salebhoy & Co.—201, Nagdevi Street, Bombay 3. Grams "Wingfish". General Merchants, Exporters & Importers.

Jagkumar & Co.—Prospect Chambers Annexe, 317-321, Hornby Road, Fort. Phone No. 21569.

Jagmohandas Shamaldas & Sons.—11, Tamarind Lane, Fort.

Jamnadas Nanjee Mangrolwalla.—83-85, Bazargate Street, Fort.

Jani & Co.—Vora Mansions, New Chinch Bunder.

Jashwantlal Manekilal & Co.—40, Vir Nariman Street, Fort.

Jassawala & Co., R. M.—105, Apollo House, Apollo Street, Fort

Jeena & Co.—Elphinstone Building, 10, Vir Nariman Street, Fort

JETHALAL V. DAVE & CO.—295, Masjid Bunder Road, Bombay 3. Phone: 30695. Grams: "REALVALVE". Exporters & Importers of all Kinds of Textiles machinery & Spices, Metals, etc.

Joshi Jivandas Gangaram & Co.—282, Narsi Natha Street, Bombay Estd. 1922.

J. S. Eliezer.—6, Moti Mahal, Churchgate Reclamation. Phone: 21138.

K. A. Singh & Co.—Minthi Mansion, Sitladevi Road, Mahim, Bombay 16.

Kanji Morarji.—285-87, Narsi Natha Street, Bombay 9.

Kamat & Co. (Bombay).—184, Medows Street, Fort.

KANTILAL SANGHVI & CO.—Bheerwan Building, Sir Phirozshah Mehta Road, Fort. Phones: 253041. Residence: 28185. Grams: "EXPIRE."

Kapadia & Co.—Bell Building, Sir Phirozshah Mehta Road, Bombay

Kapadia Trading Co.—Botawalla Building, New Silk Bazar, Kalbadevi Road, Bombay 2.

Karia Brothers.—Sethna Building, Princess Street, Bombay 2.

Karim Gulam Hussain.—Bell Building, Sir Phirozshah Mehta Road, Fort.

Karimjee Trading Co., Ltd.—Rahimtoola House, 7, Homji Street, Fort.

Kashandas Private Limited.—43, Tamarind Lane, Fort, Bombay

Kavarana, E. F., & Co.—Botawala Building, Bomanji Master Road Bombay 2.

Kavarana, Muncherji Hoorjibhoy.—New Silk Bazar, opp. Kalbadevi P.O., Kalbadevi.

Keshavji Virji & Co.—48, Elphinstone Circle, Fort.

KESHAVLAL TALAKCHAND (PRIVATE) LTD.—India House, opp. G.P.O., Fort, Bombay 1. Phone: 261962. Grams: "CHANDRODAY." Branches at Ahmedabad, Sholapur, Coimbatore, Madras and Salem. Agencies at London, Manchester and Addis Ababa.

Keshavlal, J., & Co.—Saheb Building, 195, Hornby Road, Fort.

Khanna & Hari Raj.—166, Hornby Road, Fort.

KHARAS BROS.—14, Hamam Street, Fort. Importers & Exporters of Piece-goods. Grams: "KHAYA." Phone: 251605.

K. Hassaram & Co. (Estd. 1881).—New Silk Bazar, Kalbadevi Road, Bombay 2.

Khatau Valabhdas & Co.—Indian Globe Chambers, Fort Street, Bombay 1. Tel. Address: "SCARLET."

Khazzam, E. S., & Co., Ltd.—Bombay Mutual Building, Hornby Road, Fort.

Khosla & Co., L. C.—39, Prospect Chambers Annexe, Hornby Road, Fort.

Khoury, N., & Company.—Western India House, Sir Phirozshah Mehta Road, Fort.

Kidarnath Kishanchand.—106, Medows Street, Fort, Bombay.

Kilachand Devchand & Co., Ltd.—45-47, Apollo Street, Fort.

Kirti Trading Corporation Ltd.—Fazalbhoy Building, opp. Flora Fountain, Fort.

Kishinchand Chellaram.—Gusdar House, Dhobi Talao.

Klimt & Lion Ltd.—Western India House, 7, Sir Phirozshah Mehta Road.

Komet Merchandising Corporation.—38, Devkaran Mansion, 43, Princess Street.

Kotak & Co.—Navsari Building, Dr. Dadabhoy Naoroji Road, Fort, Bombay.

Kroz & Co.—Podar Chambers, Parsi Bazar Street, Fort.

K T. CORPORATION (INDIA).—New Citizen Bank House, Palton Road, Bombay 1. Grams: "KAYTEETOI".

K. Sunderdas & Co.—215, Commerce House, Medows Street, Bombay 1. Phone: 253706. Grams: 'KESUNCO' Importers of Textiles, Art Silk Yarn, Bicycles, Crockery & Glassware. Exporters of Cotton & Rayon Piecegoods.

Kundanmal Ramlal.—78/80, New Hanuman Lane, Bombay 2.

Kumudchandra & Co.—Examiner Press Building, Dalal Street, Fort.

KUSUMGAR (OVERSEAS) PRIVATE LIMITED.—303, Kalbadevi Road, Bombay 2. Phone: 22904. Grams: "KUSUGRUP." Importers, Exporters and Manufacturers' Representatives.

Lalkumar & Co.—86, Kazi Sayed Street, Bombay 3.

Laljee Devraj & Co.—168/70, Sheriff Dewji Street, Bombay 3.

Lalji Dayal.—Near Gopal Lane, Mulji Jetha Market, Bombay 2.

Lallubhai Gulabchand Jhaveri.—149, Shroff Bazar.

Lamba Trading Co.—23, Hamam Street, Fort, Bombay.

Lavabhai P. Shah & Co.—335 Samuel Street, Vadgadi, Bombay 3.

Lawther & Co., E.—Noble Chambers, Parsi Bazar Street. Phone No. 21648. Grams: "VINCO."

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L. B. Trading Co.—Navsari Chambers, opp. Lloyds Bank, Outram Road, Fort.

L. S. AWATRAM & SONS (ESTD. 1872).—Owner of Hind Umbrella Mfg. Co., 264, Jumma Masjid, Bombay 2. Phone: 27420. Grams: "WHOLESALE." Exporters of Tarpaulin, Art Silk Fabrics and General Merchandise.

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Macropolo, D., & Co., Ltd.—Kermani Building, Hornby Road, Fort.

Macaon & Co.—Noble Chambers, Parsi Bazar Street, Fort.

Madan Mohan Jain & Sons.—815-17, Kalbadevi Road.

Madhav Agency.—Mohan Building, Girgaum Road.

Madhavlal, S., & Co.—Noble Chambers, Parsi Bazar Street, Fort.

Malhoram Moolchand.—80/82, Nagdevi Street, Bombay 3.

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Mahendra, A. C., & Co.—12, Noble Chambers, Parsi Bazar Street, Fort.

Mahomedali Esmail. (Estd. 1924.)—Stock Exchange Building, Apollo Street, Fort.

Mahomedally Hebatbhoy & Co.—18, Mirza Street, Parsi Gully.

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Manubhai, Sons & Co.—Manu Mansion, 16, Custom House Road, Fort, Bombay. Grams: "SUNFLAMES." Phone: 25-1028.

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Marubeni-Iida Co. Ltd.—*Bombay Branch:* Jiji House, Raveline Street, Bombay 1. (also see in Commercial firms section).

Mata Lachhmi Co.—Hussaini Chambers, Nanabhai Lane, Fort.

McKenzies Ltd.—Sewri.

Mehra (India) Ltd.—Jan Mansion, Sir Phirozshah Mehta Road, Fort.

MEHTA, L. N. & SONS.—Laxmi Building, Sir Phirozshah Mehta Road, Bombay 1. Phone: 26-2329. Grams: "NOSEGAY." Importers of Cotton, Rayon and Woollen Yarn Piecegoods and Exporters of Cotton, Rayon and Woollen Piecegoods, Yarns and Oil seeds, etc.

Mehta & Co., P. N.—Cook's Building, 324, Hornby Road, Fort.

Mehta Brothers.—Hamam House, Hamam Street, Fort.

Mehta Mody & Co.—Devkaran Mansion, No. 5, Mangaldas Road, Bombay 2.

Mehta Ramakrishna & Co., Ltd.—Neptune Building, 166, Hornby Road, Fort.

Meghraj & Sons (India).—Alice Building, 339, Hornby Road.

Merchant Bros.—151, Nagdevi Street.

Merwanji Peonjiajee & Sons.—Prince's Dock, Frere Road.

Mistary, M. H. J.—"Florencea", 17th Road, Khar, Bombay 21.

Modern Traders.—29, Noble Chambers, Parsi Bazar Street, Fort.

Mohanlal Motilal.—4th Floor, Yusuf Building, Mahatma Gandhi Road, Fort.

Morarji Vandravan & Co.—Krishnaraji Chawk, Mulji Jetha Market, Bombay 2.

Morrison, Son & Jones (India) Ltd., J. L.—Universal Building, Sir Phirozshah Mehta Road, Fort.

Motiram & Co.—79, Himalaya House, Paltan Road, Bombay 1.

Muralidhar and Khemchand & Co.—Rehem Mansion, 50, Colaba Causeway, Bombay.

Murugappa & Sons.—3rd Floor, United India Building, Sir Phirozshah Mehta Road.

MUSRY, G. N., PRIVATE LTD.—Canada Building, Home Street, Fort. Phone No. 26-1435. Grams: "DANDELION." Importers and Exporters.

Nadkarni, D. A., & Co. Private Ltd.—(Incorporating Ideal Books Co.), 22, Gowalia Tank Road, Bombay 26. Book-sellers, Publishers & Stationers. Direct Importers of Medical Books from U.K. & U.S.A.

Nanavati & Co., Ltd.—16, Apollo Street, Fort.

Nanji V. Dossa & Co.—Jan Mansion, Sir Phirozshah Mehta Road, Fort.

Narandas Parmanandas.—272, Vadgadi, Bombay 3.

Narandas Ranchhoddas & Co.—93, Nagdevi Cross Lane, Bombay 3.

Narotamdas Chunilal & Co.—51, Tamarind Lane, Fort, Bombay.

Narsee Nagsee & Co.—3, Chinch Bunder, Bombay No. 9.

Navinchand Ratanchand & Co.—Advani Chambers, Sir Phirozshah Mehta Road, Fort.

NEAR EAST TRADING CO. (INDIA).—32, Apollo Street, Fort. Phone Nos. 294407 & 251787. Grams: "WIDESPREAD."

New India African Co., Ltd.—Mathuradas Building, 344/46, Kalbadevi Road, Bombay 2.

N. DEVIDAS & CO.—44, Dariyasthan Street, Bombay 3. Phone No. 38484. Grams: "ENGUM." Dealers in all sorts of Gums, Saffron, Cassia, Cloves and Spices.

N. M. Brothers & Co.—Shreeji Bhuvan, Lohar Chawl, Post Box No. 2163, Bombay.

Noormohamed Haji Mohamed Mukatey.—Wassiamull Building, 184, Musjid Bunder Road, Bombay 3.

N. P. Patravali & Co.—Fort Chambers, Hamam Street, Fort.

N. Thakordas & Co.—Lentin Chambers, Dalal Street, Fort.

Orient Corporation Ltd.—Bombay Mutual Annexe, Gunbow Street, Fort.

Overseas Trade & Agencies (India).—Beaumon Chambers, Medows Street, Fort, Bombay 2.

PALS IMPEX CORPORATION.—431, Lamington Road, Bombay 4. Grams: "PALEXPORT". Exporters of Shellac, Spices, Acids, Shoes, Tanning Substances, Hoses, etc.

Pannalal Ramdayal Chindak.—153, Princess Street, Bombay 2.

Paramount (India) Ltd.—Kermani Building, Sir Phirozshah Mehta Road, Fort, Bombay.

Parekh Trading Corporation.—10, Dubash Chambers, Kumpta Street, Ballard Estate, Bombay 1.

Parmanand Manekial & Co.—Maskati Mahal, Lohar Chawl, Bombay 2.

Partabsingh Jagatsing & Sons.—People's Building, Sir Phirozshah Mehta Road, Fort.

Patel, M. K. & Co.—Wakefield House, 16, Sprott Road, Ballard Estate, Fort.

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Peerbhoy & Sons, E.—Prop.: 64, Mohamedali Road, Bombay 3.

Pestonji & Co.—24, New Queen's Road, opp. Roxy Talkies, Bombay 4.

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Popular (Imp.-Exp.) Trading Co.—Javeri House, 110, Medows Street, Bombay 1. Phone: 38000. Grams: "MAXSPIN".

Prabhulal N. Anandwala.—43, Tamarind Lane, Fort.

Prashant Trading Co.—352 54, Samuel Street, Bombay 3.

Prem Brothers.—Kitab Mahal, 192, Hornby Road, Fort.

PREMIER TRADING CORPORATION.—46, Veer Nariman Road, Bombay 1. Phone: 255064 (4 lines). Grams: "NACHIKETA."

Premji Haridas & Co.—Bhanushali Building, 168, Argyle Road, Bombay 9.

P. R. Patel & Co. Ltd.—Mherwan Building, Sir Phiromshah Mehta Road, Fort.

Purshottamdas, A. H.—36, Lentin Chambers, Dalal Street, Fort.

Purshotamdass Popatlal & Co.—Currimbhoy House, Outram Road, Fort.

Pyarally Gulamhusen & Co.—106, Tantanpura Street, Khoja Mohalla, Bombay 9.

Rahimtoola Dhunji & Co.—93, Tantanpura Street, Khadak, Bombay 9.

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Rajal Corporation.—30, Rampart Row, Fort.

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Ralli Bros., Ltd.—21, Ravelin Street, Fort.

Ramjee Samjee Virani (India) Ltd.—185, Bazargate Street, Fort.

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Ramkisandas Sagarmal.—345, Kalbadevi Road, Bombay 2.

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Readymoney Ltd., C. R. H.—107, Mahatma Gandhi Road, Fort.

Reliance Trading Co.—25/47, Lohar Street, Bombay 2.

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Ruby Trading Co.—Sambava Chambers, Sir Phirozshah Mehta Road, Fort.

Rupani & Co.—Lentin Chambers, Dalal Street, Fort.

Sanghani & Co.—178-180, Abdul Rehman Street.

Sanghavi & Sons.—Sanghavi Chambers, 27, Ghoga Street, Fort Bombay.

Santhanam & Co.—Exporters, Importers & Commission Agents, Sri Ram Building, 2nd Floor, 195, Dr. Cowasji Hormusji Street, Bombay 2.

Sarabhai & Co.—Western India House, Sir Phirozshah Mehta Road, Fort.

Satya Prakash Dyes & Chemicals Ltd.—Hornby Building, 174 Hornby Road, Fort.

Sepulchre Brothers (India) Ltd.—Taj Building, 210, Hornby Road

Sethisons Ltd.—12, Rampart Row, Fort.

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SHAH & COMPANY.—108, New Citizen Bank House, Palton Road, Bombay 1. Phone: 261613. Grams: "SHAHPAPER." Importers of old newspapers, betelnuts, stationery, cutlery, Cycles, Cycle Spare parts, Spices, Dry fruits, Colours and Chemicals. Exporters of Cotton Textiles, Silk Fabrics, Hosiery and rubber goods, Plastic and Leather Footwear, Glass and Plastic Bangles, Novelties, Toys, Oils and Oilseeds, etc.

Shah, C. J. & Co.—Churchgate House, Vir Nariman Street.

Shah Narotamdas Harjivandas Co. (Estd. 1880).—480, Kalbadevi Road, Bombay 2.

Shah Sheth & Co.—Importers and Exporters, 264, Samuel Street, Bombay 3.

Shah Trading Agencies.—19, Hamam Street, Fort, Bombay 1.

Shaikh & Co.—94, Ali Umar Street, Bombay 3.

Shaikhbhoy Tyebjee & Sons.—12 Bruce Street, Bombay 1

Shamsun & Co.—11, Bruce Street, Fort.

Shantilal & Co.—195-97, Abdul Rehman Street, Bombay 3.

Shapurji & Co., B. K.—319, Hornby Road, P. B. 1065, Fort.

Sharad Brothers.—Nehru Road, Bombay 24.

Sheralli Nanjee.—178, Samuel Street, Vadgadi, Bombay 9.

Shree Navjivan Kagdi & Co.—110, Zaveri Bazar, Bombay 2.

Shri Laxmi Cloth Trading Co.—135, Zaveri Bazar, Bombay 2

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Sindhi Clearing Agency.—384, Dabholkar Wadi, Kalbadevi, Bombay 2.

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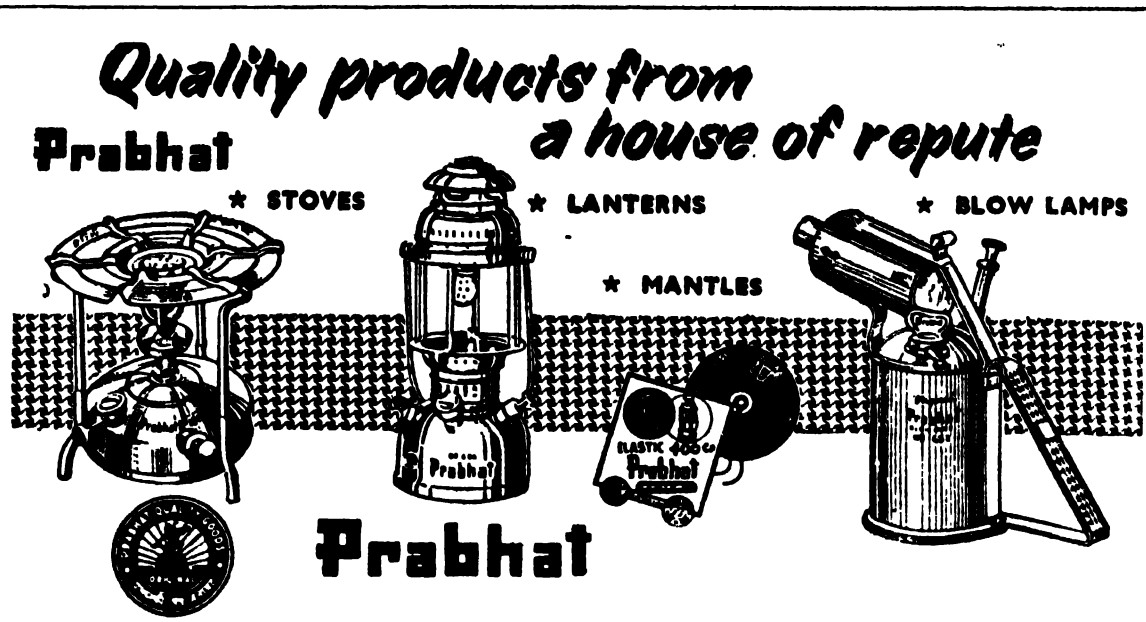
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- Trivedi, R., & Co.—38, Lalsingh Building, Lohar Chawl.
- Unit : Corporation.—97, Yusuf Building, Mahatma Gandhi Road, Fort, Bombay.
- United Commercial Co.—72-80, Nagdevi Cross Lane, Bombay 3.
- United India Trading & Manufacturing Co, Ltd.—Shale Building, Bank Street, Fort.
- Universal Trading Co. —(Established 1947). 346, Kalbadevi Road, Bombay 2
- **Utoomal & Assudamal Co.—Bombay Mutual Annexe, Gunbow Street, Fort.**
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- Valiram Sons.—Patel Building, Bomanji Master Road, Kalbadevi.
- Varjiwandas Hirjee & Co.—240, Samuel Street, Vadgadi.
- Vasantlal Vadilal & Co.—215-17, Samuel Street, Vadgadi.
- Vasantrai Goverdhandas & Bros.—75, Mahomedalli Road, Bombay 3.
- Vasi Bros. & Co.—Topiwalla Mansion, Mahomedalli Road, Bombay 3.
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- Vishram Bhagwandas & Co.—31, Sutar Chawl, Bombay 2.
- Vishram Khimji & Sons.—57-59, Kazi Sayed Street, Mandvi, Bombay 3.
- Vithaldas & Co.—75, Khand Bazar, Bombay 3.
- Volkart Bros.—19, Graham Road, Ballard Estate, Bombay.
- Waghji Lakhmidas & Co.—206, Samuel Street, Vadgadi.
- Wakefield, C. C., & Co., Ltd.—91, Walkeshwar Road, Bombay 6.
- Wallace, P. R., & Sons, Ltd.—"Elphinstone Building," 10, Churchgate Street, Fort.
- Walthom Trading Corporation Ltd.—12, Nanabhai Lane, Fort, Bombay.
- Watanmal Boolchand.—P.O. Box 2283, 534, Kalbadevi Road, Bombay 2.
- Western India Hardware Mart.—16, Narayan Dhuru Cross Lane, Bombay 3.
- Western Link Co.—Importers, Exporters & Indenting Agents, 19, Bank Street, Fort.
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Balmer Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate, Fort.

CHUNILAL KHANNA & CO.—Saraswati Nivas, Thakurdwar Road, Bombay 2. Phone : 23513. Grams : "BABALALU."

EASTERN LIGHTS COMPANY.—78, Lohar Chawl, Bombay 2. Phone : 20977. Grams : "GREATLIGHT". Manufacturers of ELITE brand Gas Mantles, Lanterns, Stoves and their spare parts. Direct Importers and Wholesalers of Torches, Thermos, Stoves, Wick Stoves and Accessories.

Empire Industrial Works.—Warden House, Sir Phirozshah Mehta Road, Fort.

E. T. SHAH & CO.—Ahmed Building, Golpitha, Bombay 4. Phone : 41369. Grams : "ACHTISHAH." Direct Importers and Wholesale Dealers in Petromax Gas Lights, Sole Distributers of Swedish make SVEA Cooking Stoves and 'Stevert' Heating Apparatus, Blow Lamps, Flash Lights, Batteries and Electrical Goods. Manufacturers of Kingsen Stoves and Gas Lanterns.

I.C.I. (India) Private Ltd.—P.B. No. 310, Bombay 1.

Indo Trading Co.—Jay Nivas, 36, Abdul Rehman Street, Bombay 3.

JAWAHAR & CO.—Post Office Box No. 2668, Bombay 2. Phones—Office : 39011 ; Factory : 67294. Grams : "KRANTI". Manufacturers of KIRTI Brands.

Jeco Industries.—297/305, Masjid Bunder Road, Bombay 3.

K. B. MEHTA & BROS.—Lohar Chawl, Shreeji Bhuvan, 2nd Floor, P.O. Box No. 2668, Bombay 2. Phone : 20331. Grams : "BLOWLAMPS". "SIMPLEX". Manufacturers of 'KBM' Brand Lamps, Lanterns, Stoves, Blow Lamps and their spare parts. Branch Office : 14/2, Old China Bazar Street, 2nd Floor, Room No. 139-140-141, Post Box No. 2626, Calcutta 1. Phone : 22-5167. Grams : "BLOWLAMPS".

Katrak Hosiery Works.—167, Lamington Road, Bombay 7. Manufacturers of High Power Incandescent Gas Mantles and High Class Hosiery Goods.

L. C. TRADING CO.—62, Lohar Chawl, Bombay 2. Phone 22594. Grams : "ELCITIKO". Manufacturers of CHAMPION brand Gas Lanterns, Mantles, Stoves and their spare parts. Direct Importers of Torches, Bulbs, Thermos, Petromax Lamps, Stoves, Wick Stoves and Accessories.

LIBERTY PRODUCTS.—Pydhonie, Bombay 3. Cable "STOVELAMP," Bombay. Manufacturers of Best Quality Stoves, Lanterns, Blow Lamps, Mantles and their all spare parts.

LIGHT HOUSE.—81, Kitchen Garden Lane, Shrijee Bhuvan, Bombay 2. Phone : 30351. Grams : "GREATWALL". Direct Importers and Wholesalers in Torches, Bulbs, Batteries, Thermos, Petromax, Stoves, Electrical Goods, Accessories. Sole Agents for "ASIA" Bulbs and SENLIT Lantern. Manufacturers of KOTEX Brand Gas Mantles.

NEW ROYAL CO., THE.—Sharu Castle, Mohamedally Road, Bombay 3. Factory : 221 D, Corner Grant Road, Bombay 8. Manufacturers of famous Petrodelam Stoves, Lanterns and their spare parts.

PAGODA INDUSTRIES.—Manufacturers of Incandescent Pagoda, Jalwa, Velga, Bedlamp, Gas Mantles, Amar Basera, Santa Cruz (West), Bombay 28.

PARADISE PRODUCTS CO.—B 17, Sarvodaya Nagar, Panjarpole Road, Bombay 4. Phone : 42751. Grams : "PARALAMPS". Manufacturers of 'PARADISE' Brand Stoves, Blow Lamps & Incandescent Lamps.

POCHEE, C. S., & SON (Estd. 1884).—886, China Baral, Ghogawa Road, Bombay 2. Phone : 30415. Grams : "GASMANTLES." Government & Railway Suppliers. Manufacturers of Pochee Incandescent Lanterns, Mantles, Regal Stoves & Blow Lamps Accessories and Industrial Heating Appliances.

PRABHAT STOVE AND LAMP PRODUCTS CO. PRIVATE LTD.—Manufacturers of "Prabhat" Brand Gas Mantles, Gas Lanterns, Kerosene Stoves, Blow Lamps and their Accessories. Factories at Prabhat Wadi, Love Lane, Bombay 21 and 222, Bellasis Road, Prabhat Wadi, Bombay 8. Offices at Noble Chambers, Parsee Bazar Street, Fort, Bombay. P.O. Box No. 291. Grams : "NIGHTGUARD." Phones : Office : 254594, Factory : 74048 & 70236. Branches at Calcutta, Madras, Delhi, Kanpur, Patna and Indore.

RASIKLAL & COMPANY.—Peerbhoy Building, 89, Princess Street, Bombay 2. Grams: "COCKLITE". Sole Agents for COCK Brand Lanterns, Stoves, Mantles, Blow Lamps and parts. Importers & Exporters.

SHAH LIGHT HOUSE.—22, Commercial Chambers, Masjid Bunder Road, Bombay 3. Manufacturers of 'DUNLOP' Brand Stoves, Petromax, Blow Lamps, Mantles and all other spare parts.

STAR INCANDESCENT LIGHT CO., THE.—P. B. No. 2069, Shreeji Bhavan, 69, Lohar Chawl, Bombay 2. Manufacturers of VICTOR-Magnet-Star Brand Gas mantles Stoves and Lanterns.

WESTERN INDIA LIGHT CO.—17, Abdul Rehman Street, Pydhonie, Bombay 3. Phone: 23000. Grams: "LOVE-CALL".

INCOME-TAX CONSULTANTS

Alexander & Co. (Established 1928).—Whiteaway Laidlaw Building, Hornby Road, Fort.

Hiralal & Co.—14, Hornby Road, Fort, Bombay. Phones—Office: 22565, Res.: 31529.

Kulkarni, U. H., & Co.—Commissariat Building, 231, Hornby Road, Fort.

Pratamdas P. Wadhwaney.—172-74, Hornby Road.

INDOOR GAMES MANUFACTURERS

(See under Sports Goods Mfrs. & Dealers.)

INDUSTRIAL & COMMERCIAL MANAGEMENT & COST CONSULTANTS

Addressomachines (India) Private Ltd.—111-A, Mahatma Gandhi Road, Bombay 1.

BEACONS PRIVATE LIMITED.—Readymoney Mansion, 43, Veer Nariman Road, P.O. Box No. 1723, Bombay 1.

IBCON PRIVATE LIMITED.—Industrial and Business Consultants, Adelphi House, 3 Queen's Road, Phone: 241668. Grams: "IBCO". Branches: 2, Fairlie Place, Calcutta. George Oakes Building, Sri Narasimharaja Circle, Bangalore 2 Mahatma Gandhi Road, Kanpur. Mercantile Bank Building, 14, Queen's Street, Colombo 1. Associate Cos.: Ibcon (Australia) Pty. Ltd., Melbourne & Sydney; Ibcon (Pakistan) Ltd., Karachi; Ibcon de Mexico S.A., Mexico D.F.; International Business Consultants Ltd., Hong Kong; Ibcon Ltd., London (U.K.); Albert Ramond & Assocs., Chicago & New York; Barnes Textiles Assocs., Boston & Spartanburg, U.S.A.; Ibcon Argentina, Sociedad Civil, Buenos Aires.

R. NANABHOY & CO.—Ballard House, 14, Mangalore Street, Fort, Bombay 1. Industrial Management, Cost and Quality Control Consultants, F.C.W.A., F.C.C.S., F.I.B.A., A.I.C.C. (London). Phones: 262871; 42382. Grams: "RANACOST." Partner: R. Nanabhoy (Mehta).

INDUSTRIAL AND SPECIALISED OILS

Balmer Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate, Fort.

Dharamsi & Co.—34, Cawasji Patel Street, Fort.

Industrial Oils Manufacturing Co. of India.—Prospect Chambers, Hornby Road, Fort.

Kesma Laboratories.—Allahabad Bank Building, Apollo Street, Fort,

Kilburn, McLean & Co., Private Ltd.—Ilaco House, Sir Phirozshah Mehta Road, Bombay.

INFRA RAY EQUIPMENT

EAST ASIATIC CO. (INDIA) PRIVATE LTD., THE.—Sole Agents: Siemens Reiniger Werke A.G. Germany, Shreenivas House, Waudby Road, Bombay. Phone: 26-2111 (6 lines), Offices at Madras, Calcutta 1, New Delhi, Nagpur, Lucknow, Bangalore, Secunderabad, Trivandrum.

Gyandas Desai Private Ltd.—Kermani Bldg., Sir P. M. Road, Bombay 1.

Shaw, M., & Co.—Sandhurst Road, Bombay 4.

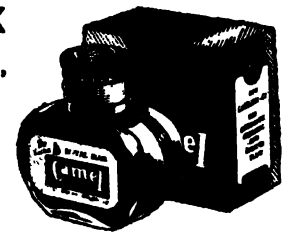
INK MANUFACTURERS

Alt[illegible] Private Limited.—147, Esplanade Road, Fort.

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Desai Brothers.—80 (8), Omrigar Bldg., Lohar Chawl, Bombay 2.

J B A. Printing Inks Private Ltd.—Bombay Agra Road, Bhandup, Bombay 40.

KORES (INDIA) PRIVATE LIMITED.—Plot No. 10, off Haines Road, Worli, Bombay 18. Manufacturers of Ink Tablets, Stamp Pad and Numbering Inks, Duplicating Inks, etc. Phone: 73454 (Three lines). Grams: "KORESCARBO".

LATHAM ABERCROMBIE & CO., PRIVATE LTD.—Forbes Building, Home Street, Fort, Bombay.

RAINBOW INK AND VARNISH MFG. CO. PRIVATE LTD.—Suryodaya Mill Compound, Tardeo, Bombay 7. Phone: 42471. Grams: "RAINBOINK."

Stewarts Laboratories.—327, Hornby Road, Fort, Bombay.

INSTITUTIONS (COMMERCIAL)

BOMBAY TYPEWRITING INSTITUTION.—(Recognised by Government). Typewriting Taught, Typewriters & Duplicators bought, sold, repaired & hired. Type-copying and Duplicating work undertaken. Opp. The General Post Office, Bhatia Mitra Mandal, Fort Street, Fort, P.B. No. 836, Bombay 1. Phone: 26-2484. Grams: "SAXENA".

INSULATION MATERIALS

B. B. Electric & Auto Stores.—98, Princess Street, Bombay 2.

Balmer Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate, Fort.

Bharucmal & Co.—70, Abdul Rehman Street, Bombay 3

Brady, W. H., & Co., Ltd.—Royal Insurance Building, Churchgate Street, Fort.

British Electric Insulating Co.—33, Forbes Street, Fort.

British Insulated Callender's Cables Ltd.—Esplanade House, Waudby Road, Fort.

COLE, R. A., PRIVATE LTD.—22, Apollo Street, Bombay 1. Phone: 251517 8. Grams: 'DERAC'. Manufacturers of Thermocole for Cold Insulation.

COMMONWEALTH INSULATIONS CHEMICALS & FERTILISERS PRIVATE LTD.—Ismail Building, Hornby Road, Fort, Bombay 1. Phone: 253570. "SUN & CROSS" Brand 85% Magnesia Hard Setting Compound, Anti-incrustative Boiler Compound, Anti-Corrosive Boiler & Chimney Paint, Cleansing Powders, Binding Cement.

Economic Electric Co., Ltd.—Jail Road, Dongri, Bombay 9.

FAKHRUDDIN & CO.—43, Abdul Rehman Street, P.O. Box No. 3066, Bombay 3. Phone: 34534. Grams: "EXMETAL."

Hardcastle, Waud & Co., Ltd.—Alice Building, Hornby Road, Fort.

Heatly & Gresham Ltd.—9, Forbes Street, Bombay 1.

Hindustan Corporation, Ltd.—Kermani Building, Sir Phirozshah Mehta Road, Fort.

Indianite Insulation Co. of India.—139, Medows Street, Fort.

INDUSTRIAL ELECTRICAL ENGINEERING CO.—10, Hamam Street, Fort. Specialists in Insulating Materials and Armature Wires. Phone: 252836.

Jack, William & Co., Ltd.—Hamilton House, Graham Road, Ballard Estate, Fort.

JONES, J. D., & CO. (BOMBAY) PRIVATE LTD.—Rustom Building, Vir Nariman Road, Fort. Phone: 253530. Grams: "MICA."

Khambatty, H. A., & Co., Ltd.—45-47, Lohar Street, Bombay 3.

McKenzies Ltd.—Sewri.

PATEL ELECTRIC WIRE & INSULATING CO.—102, Kika Street (Gulalwadi), Bombay 4. Phone: 41307. Manufacturers & Dealers in Armature Winding Wires and Insulating Materials.

Pioneer Magnesia Works, Ltd., The.—Chartered Bank Building, Mahatma Gandhi Road, Fort.
Reliance Trading Co.—25/47, Lohar Street, Bombay 2.

INSURANCE COMPANIES

Advance Insurance Co. Ltd.—251, Dr. Dadabhoy Naoroji Road, Fort.

ALCO INSURANCE CO., LTD.—Rahimtoola House, Homji Street, Fort, Bombay 1. Transacts Fire, Motor and Accident Insurance Business. Chairman: Y. A. Jasdanwalla; Mg. Dir.: A. A. Jasdanvala, J.P.; General Mgr.: S. R. Idgunji, A.C.I.I. (Lond.); Secretary: A. Y. Jasdanvalla, B.A. Phones: 255557 & 255558. Grams: "ADLOOK."

All India General Insurance Co., Ltd.—Podar Chambers, Parsi Bazar Street, Fort.

ALLIANCE ASSURANCE CO., LTD.—Co-operative Insurance Building, Sir Phirozshah Mehta Road, Fort, Bombay. Fire—all Classes of Accident and Marine Insurance. Branch Manager: S. K. Divecha. Phone: 255467, 8. Grams: "SOCIETATE," Bombay.

AMERICAN INSURANCE CO., THE.—(Incorporated in the U.S.A. Liability of Shareholders Limited)—Universal Insurance Building, Sir Phirozshah Mehta Road, Fort, Bombay. Phone: 255638 (Three lines). Grams: "AFIAINDIA." P.O. Box 977. Supervisor for India: A. C. Gale. Asst. Supervisor for India: P. B. Dastur.

American International Underwriters (India) Private Ltd.—Warden House, Sir Phirozshah Mehta Road, Fort.

Atlas Assurance Co., Ltd.—Dougall Road, Ballard Estate. (Fire—Marine—Motor—Accident and General).

Aundh State Provident Insurance Co., Ltd.—Jiji House, 15, Ravelin Street, Fort, Bombay.

Baloise Marine Insurance Co., Ltd., The.—of Basle (Switzerland), Principal Office for India: French Bank Building, Homji Street, Bombay 1. Telegrams: "BASLER." Telephone: 25-5121. Transacts Fire, Marine, Miscellaneous Insurance and Reinsurance.

Bombay Fire and General Insurance Co., Ltd.—Henley House, Graham Road, Ballard Estate, Bombay 1.

British India General Insurance Co., Ltd.—Mehta House, Apollo Street, Fort, Bombay.

British Traders' Insurance Co., Ltd.—Hongkong Bank Building, Veer Nariman Road, Fort.

CALEDONIAN INSURANCE CO.—Bombay Branch: Commissariat Building, Dr. Dadabhai Naoroji Road, Fort, Bombay. Phones: 262510 & 264114. Grams: "CALCENT". Fire, Marine, Accident & Miscellaneous Igsurance.

Central Insurance Co., Ltd.—Canada Building, Home Street. (Fire—Accident and General).

CENTURY INSURANCE CO., LTD., THE.—Commissariat Building, Dr. Dadabhai Naoroji Road, Fort, Bombay. Phone: 262510 & 264114. Grams: "CALCENT". Fire, Marine Accident and Miscellaneous Insurance.

Clive Insurance Co., Ltd.—Elphinstone Building, Veer Nariman Road, Fort. Chief Agents: Gillanders Arbuthnot & Co. (Fire—Motor—Accident and General).

COMMERCIAL UNION ASSURANCE CO., LTD.—9, Wallace Street, Fort.

Commonwealth Assurance Co., Ltd., Poona.—Bombay Branch: Commonwealth Building, 82, Medows Street, Fort.

Concord of India Insurance Co., Ltd., The.—Hongkong Bank Building, 16, Veer Nariman Road, Fort. (Fire—Marine—Accident and General).

Crescent Insurance Co., Ltd., The.—Crescent Chambers, Tamarind Lane, Fort.

Deepak General Insurance Co., Ltd., The.—8-10, Tamarind Lane, Fort. Phone: 22261. Grams: "DISCRETION."

DEVKARAN NANJEE INSURANCE CO., LTD.—Devkaran Nanjee Buildings, Elphinstone Circle, Fort. Phone: 253938, 9. Grams: "DEVINSURE." (Fire and Miscellaneous).

Eagle Star Insurance Co., Ltd.—Standard Building, Dr. Dadabhoy Naoroji Road, Fort.

Economic Insurance Co., Ltd.—Settling Agents: W. H. Brady & Co., Ltd., Veer Nariman Street, Fort. (Marine).

EMPLOYERS' LIABILITY ASSURANCE CORPORATION LTD., THE.—Bombay Branch: Brady House, Veer Nariman Road, Bombay-1. Phone No. 252562. (Fire, Marine and Accident).

General Assurance Society, Ltd.—General Assurance Building, Hornby Road, Fort, Bombay.

Goodwill Assurance Co., Ltd.—Head Office: 113, Mahatma Gandhi Road, Opp. Clock Tower, Fort, Bombay.

GRESHAM FIRE & ACCIDENT INSURANCE SOCIETY LTD.—Gresham Assurance House, Sir Phirozshah Mehta Road, Fort. Manager for India and Ceylon: L. R. H. Portlock. (Fire & Marine).

Hanover Fire Insurance Co. of New York.—Warden House, Sir Phirozshah Mehta Road, Fort.

Hercules Insurance Co., Ltd. (Incorporated in India).—Branch Office: 21, Ravelin Street. (Fire—Marine—Motor—Accident and General).

Indian Globe Insurance Co., Ltd.—Prospect Chambers, 315-321, Hornby Road, Fort. (Fire—Marine and Accident).

Indian Guarantee & General Insurance Co., Ltd.—Oriental Building, Mahatma Gandhi Road, Fort, Bombay.

Indian Mercantile Insurance Co., Ltd.—Indian Mercantile Chambers, Nicol Road, Ballard Estate. (Fire—Motor—Workmen's Compensation—Marine and Riot Insurers).

INDIAN TRADE & GENERAL INSURANCE CO., LTD.—Principal Office: Jehangir Building, Mahatma Gandhi Road, Fort, Bombay. Grams: "ADASTRA". Phone: 255101. Business transacted:—Fire, Marine, Motor & Miscellaneous. Branches: (1) Calcutta; (2) New Delhi; (3) Cochin; (4) Madras; (5) Nagpur; (6) Ahmedabad; (7) Agra; (8) Bangalore; (9) Secunderabad; (10) Lucknow; (11) Allahabad; (12) Indore; (13) Ranchi; (14) Udaipur; (15) Belgaum; (16) Bhavnagar; (17) Amritsar; (18) Ludhiana; (19) Calicut; (20) Alleppey; (21) Quilon; (22) Bhopal; (23) Gwalior. Overseas Branches: (1) Karachi; (2) Aden; (3) Singapore; (4) Nairobi; (5) Mombasa; (6) Dar-es-Salam. Management: Surender Lall—Director, T. M. Telang—General Manager, B. B. Sawhney—Dy. General Manager.

JAYABHARAT INSURANCE CO., LTD., THE.—French Bank Building, Homji Street, Fort. (Fire—Marine—Motor and all other classes of Insurance). Phones: 253941, 253942, 253943, 253944, 253945.

Jupiter General Insurance Co., Ltd.—State Bank Bldg Annex, Bank Street, Fort.

Kaiser-I-Hind Insurance Co., Ltd.—Head Office: Sassoon Buildin 141, Mahatma Gandhi Road.

LEGAL AND GENERAL ASSURANCE SOCIETY LTD.—P.O. Box 955, Bombay. Manager for India, Pakistan and Ceylon: L. R. H. Portlock. (Fire, Marine and Miscellaneous).

LIVERPOOL & LONDON & GLOBE INSURANCE CO., LTD., THE.—(Incorporated in England; Shareholders' Liability Ltd.)—12, Jamshedji Tata Road, Bombay. (Fire—Loss of Profits—Motor—Accident (all classes)—Engineering—Aviation—Marine). Secretary: D. E. Twemlow. Tel. Address: "GLOBANCE." Phone No. 37125 (5 lines). Post Box No. 1848. Head Office: 1, Dale Street, Liverpool, England.

London Assurance, The.—Principal Agents: Anglo-Thai Corporation Ltd., Ewart House, Bruce Street, Bombay. (Fire & Marine)

LONDON & LANCASHIRE INSURANCE CO., LTD., THE.—Mehta House, Apollo Street, P.O. Box 117, Bombay. Grams: "LONDLANC". Phone: 252365. Fire, Marine, Motor, Accident (All Types), Engineering. Branch Manager: K. W. M. Campbell.

LONDON & PROVINCIAL MARINE & GENERAL INSURANCE CO. LTD.—10, Bruce Street, Fort. Phone: 252321. Grams "LOPROMAR."

MANUFACTURERS LIFE INSURANCE COMPANY OF CANADA.—123, Mahatma Gandhi Road, Fort, Bombay. Phone: 253282. Grams: "MANULIFE." Secretary for India: C. N. Parikh.

MARINE & GENERAL INSURANCE CO., LTD.—Standard Building, Dr. Dadabhoy Naoroji Road, Bombay 1. Phone: 252354.

Motor Union Insurance Co., Ltd.—Jehangir Wadia Building, Mahatma Gandhi Road, Bombay.

NATIONAL EMPLOYERS' MUTUAL GENERAL INSURANCE ASSOCIATION LTD.—Kamani Chambers, 32, Nicol Road, Ballard Estate, P.O. Box 730.

National Fire & General Insurance Co., Ltd.—National Insurance Building, Hornby Road. (Fire—Marine and Accident).

NATIONAL INSURANCE COMPANY OF NEW ZEALAND LIMITED, THE.—(Incorporated in New Zealand with Limited Liability). Head Office: Dunedin, New Zealand. Principal Office for India: Rahimtoola House, Homji Street, Fort, Bombay 1. Transacts Fire, Marine and Miscellaneous Business. Principal Officers for India: S. R. Idgunji, A.C.C.I. (Lond.), F.F.I.I. and A. Y. Jasdanwalla, B.A. Phones: 255557 & 255558. Grams: "OTAGO", Bombay

Neptune Assurance Co., Ltd.—104, Apollo Street, Fort, Bombay.
New Asiatic Insurance Co., Ltd.—Bombay Branch: Imperial Bank Building Annexe, Bank Street, Fort.

NEW GREAT INSURANCE CO. OF INDIA, LTD. Principal Office in the Union of India: 48-47, Apollo Street, Fort. General Manager: Shri M. G. Mody.

New Hampshire Fire Insurance Co. of Manchester, New Hampshire.—Warden House, Sir Phirozshah Mehta Road, Fort.

NEW INDIA ASSURANCE CO., LTD.—New India Assurance Building, Mahatma Gandhi Road, Fort, Bombay. Managing Director: B. K. Shah, F.I.A. (Transacts Fire—Marine—Motor—Aviation—Machinery and all classes of Accident Business).

New Zealand Insurance Company, Ltd.—Hongkong Bank Building, 16, Veer Nariman Road, Bombay.

North British and Mercantile Insurance Co., Ltd.—276, Dr. Dadabhoy Naoroji Road. (Fire—Marine—Motor—Accident and General).

North China Insurance Co., Ltd.—Hongkong Bank Building, Veer Nariman Street, Fort. (Marine).

NORWICH UNION FIRE INSURANCE SOCIETY LTD.—16, Bank Street, Post Bag 49, Fort, Bombay. Branch Manager: J. J. Sharma. Grams: "NUFAM." Phone: 251985.

Ocean Accident & Guarantee Corporation, Ltd.—Incorporated in Great Britain. No. 9, Wallace Street, Fort. Branch Manager: Wm. Roberts. (Motor—Accident and General).

PANDYAN INSURANCE CO., LTD.—Gresham Assurance House, Sir Phirozshah Mehta Road, Fort. Branch Manager: L. R. H. Portlock. (Fire, Marine and Miscellaneous).

Pearl Assurance Co., Ltd.—Construction House, Nicol Road, Ballard Estate.

Phoenix Assurance Co., Ltd.—Principal Agents: Castlemuir Ltd., Alice Building, 339, Dr. Dadabhoy Naoroji Road, Fort, Bombay. (Fire and Marine).

Presidency Provident and General Insurance Co., Ltd.—Mherwan Building, Sir Phirozshah Mehta Road, Fort.

Royal Exchange Assurance Corpn.—Jehangir Wadia Building, 51, Mahatma Gandhi Road, Bombay 1.

ROYAL INSURANCE CO., LTD.—(Incorporated in England; Stockholders' Liability Ltd.). 12, Jamshedji Tata Road, Bombay. (Fire—Loss of Profits—Motor—Accident (all classes)—Engineering—Aviation—Marine). Secretary: D. E. Twemlow. Tel. Address: "ROYAL." Phone No. 37125 (5 lines). Post Box No. 1847. Head Office:—1, North John Street, Liverpool, England.

Ruby General Insurance Co., Ltd.—Imperial Bank Annexe, Bank Street, Fort.

Scottish Alliance Insurance Co.—9, Wallace Street, Fort. (Fire).

Scottish Union and National Insurance Co.—16, Bank Street, Fort.

Sea Insurance Co., Ltd., The.—Head Office for India: Standard Building, Dr. Dadabhoy Naoroji Road, Fort.

Sentinel Assurance Co., Ltd.—Janmabhumi Bhavan, Ghoga St., Fort. (Fire—Motor—Marine—etc.)

South British Insurance Company, Ltd.—Canada Building, Dr. Dadabhai Naoroji Road, Fort. Phones: 264711, 264712 and 264713. Grams: "British". (Fire—Marine—Motor Accident and General).

Standard General Assurance Co., Ltd.—17/B, Elphinstone Circle, Fort, Bombay. Grams: "STANGENAL."

STERLING GENERAL INSURANCE CO., LTD.—(Transacting Fire—Marine—Accident and Aviation Insurance). Head Office: Scindia House, P.O. Box No. 12, New Delhi. Phones: 47806 & 48809. Grams: "STERLING." Managing Director and General Manager: M. N. Seth, M.A., C.A.I.B., F.R.E.S. (Lond.), Deputy General Manager: F. P. Kollm. Bombay Divisional Office: 10, Veer Nariman Road (Churchgate Street), Fort. Phones: 258285 & 258286. Grams: "STERINSCOY." Resident Manager: S. W. Cohn; Divisional Manager: R. M. Shah; Calcutta Divisional Office: 23 1, Stephen House, Dalhousie Square, East. Phones: 23 1734 and 23 1735. Grams: "STERINSURE"; Manager: S. C. Chatterjee. Madras Branch Office: 10, Linghi Chetty Street. Phone: 2261. Grams: "STERINSURE." Branch Manager: H. Venkoba Rao. Resident Manager: M. N. Talwar.

SUN INSURANCE OFFICE LTD.—Co-operative Insurance Building, Sir Phirozshah Mehta Road, Fort, Bombay. Fire, All Classes of Accident and Marine Insurance. Manager: S. K. Divecha. Phone: 255467 469. Grams: "SOCIETATE," Bombay.

Sun Life Assurance Co. of Canada.—Canada Building, Hornby Road, Bombay.

Triton Insurance Co., Ltd.—United India Life Building, 3rd Floor, Sir Phirozshah Mehta Road, Fort, P.O. Box No. 115, Bombay 1.

Union Insurance Society of Canton, Ltd.—Hongkong Bank Building, 16, Veer Nariman Road, Fort. (Fire—Marine—Motor—Accident and General).

UNIQUE MOTOR & GENERAL INSURANCE CO. LTD.—Noble Chambers, Parsee Bazar Street, Bombay 1. Phone: 255364. Grams: "UNIQMOTOR".

United India Fire & General Insurance Co., Ltd.—Warden House, Sir Phirozshah Mehta Road, Fort.

United India Life Assurance Co., Ltd.—United India Life Building, Sir Phirozshah Mehta Road, Fort.

UNITED SCOTTISH INSURANCE CO., LTD.—Hongkong Bank Building, 16, Veer Nariman Road, Bombay.

Universal Fire & General Insurance Co., Ltd.—"Universal Insurance Building," Sir Phirozshah Mehta Road, Fort.

Uplift of India Provident Society Ltd.—Advani Chambers, Sir Phirozshah Mehta Road.

Vanguard Fire and General Insurance Co. Ltd., The.—Head Office: Madras. Bombay Branch: Sailor Building, 373, Hornby Road, Fort, Bombay.

Warden Insurance Co. Ltd. (Estd. 1933).—Warden House, Sir Phirozshah Mehta Road, Fort.

Western India Life Insurance Co., Ltd.—(H.O.: Satara City). Bombay Branch: Western India House, Sir Pherozeshah Mehta Road, Fort.

Yorkshire Insurance Co., Ltd.—10, Bruce Street, Fort.

Zenith Assurance Co., Ltd.—Mehta House, Apollo Street, Fort, Bombay.

INTER-COMMUNICATION TELETYPE

Western Agencies' Co.—421, Lamington Road, Bombay 4.

WESTREX COMPANY, INDIA.—Metro House, Mahatma Gandhi Road, Bombay 1. P.O. Box No. 1232. Tel. Address: "WESTREX." Phones: 242273 and 242274.

IRON, STEEL AND BRASS WORKS

Acme Manufacturing Co., Ltd.—Construction House, Wittet Road, Ballard Estate.

Adamally Sons Ltd.—277, Nagdevi Street, Bombay 3.

Adamji Lookmanji & Co.—Rahimtoola House, Homji Street, Fort.

Alibhoy Mahomedali & Co.—28, Kika Street, Gulalwadi.

AMRITLAL POPATLAL & SONS.—Darukhana, Mazagaon, Bombay 10. Phone: 40688. Branch: Carnac Bunder, Iron Market. Phone: 33751.

Anandji Haridas & Co., Ltd.—Frere Road, Bombay.

Art Metal Works (Estd. 1882).—Office and Factory; 100, Foras Road, near Municipal Workshop, Bombay 8.

Bolinjkar Metal Works Ltd.—Nana Chowk, Bombay 7.

Bombay Iron Works.—Ripon Road Cross Lane, Byculla.

Brady, W. H., & Co., Ltd.—Royal Insurance Building, Churchgate Street, Fort.

Burjorji Pestonji & Sons, Private Ltd.—Sussex Road, Victoria Gardens, Bombay 27.

Chadha, B. M., & Co., Ltd.—Jan Mansion, Sir Phirozshah Mehta Road, Fort, P. O. Box 671, Bombay.

Chhotalal Keshawji & Co.—Carnac Bunder.

Chimanlal Vadilal & Co.—80, Abdul Rehman Street.

CHIMANLAL VRAJLAL & CO.—Iron, Steel and Hardware Merchants, Latif House, Iron Market, Bombay 9. Phone: 30963.

City Engineering Works.—Vandekar Building, Lamington Road.

Curtis & Co., Ltd., J.—6, Mahalaxmi Bridge Arcade, Bombay 11.

Deviprasad Khandelwal & Co., Ltd.—Iron Jetha, Carnac Bunder.

GARLICK & CO. PRIVATE LTD.—Haines Road, Jacob Circle.

Globe Stores Co., The.—Sitaram Building, near Crawford Market, Hornby Road.

Hariprasad Amratlal & Co.—Iron Market, Carnac Bunder.

Hatimbhoy, A., & Co.—Iron Jetha, Carnac Bunder, Bombay 9.

Herman & Mohatta, B. R., Ltd.—People's Building, Sir Phirozshah Mehta Road, Fort.

Joshi & Co.—207, Kumbharwada 6th Lane, Golpitha, Bombay 4.

Kothari, P., & Sons.—2nd Kumbharwada, Bombay 4.

Manekchand Jivraj & Co.—Old Iron Jetha, Darukhana.

Mehta & Co.—35, Abdul Rehman Street.

Miakhan Adamji & Co.—Carnac Bunder.

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MUKAND IRON & STEEL WORKS LTD.—Agra Road, Kurla Bombay 37.

Muncherjee Byramjee & Co. (Estd. 1882).—Office and Factory: Jerajbhoy Street, 100, Foras Road, near Municipal Workshop, Bombay 8.

Murlimal Santram & Co.—Iron Jetha, Carnac Bunder.

Mysore Iron & Steel Works, The.—Lakshmi Buildings, Sir Phirozshah Mehta Road, Fort.

Nadirshaw & Bros.—"Silver Talkies" Building, Khetwadi Back Road, Bombay 4.

New Standard Engineering Co., Ltd.—222, Bellasis Road, Byculla.

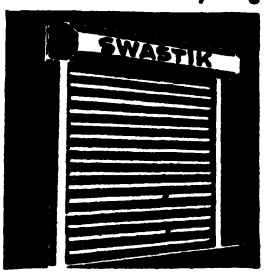
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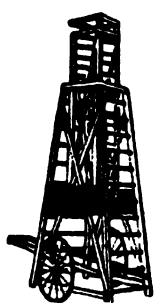
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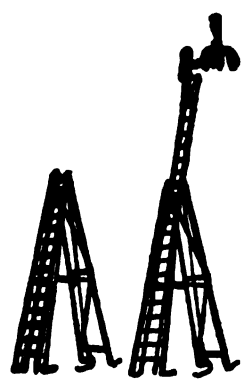
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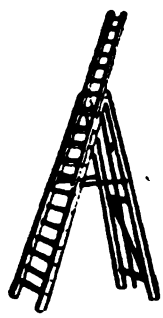
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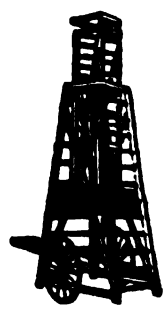
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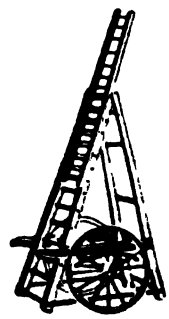
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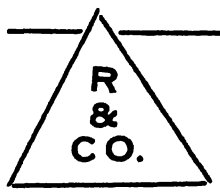
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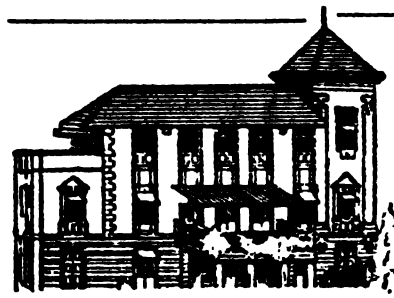
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N. M. MEHTA & CO. (Estd. 1918).—4-10, Old Custom House Road, Fort, Bombay 1. Phone: 255047. Grams: "EMBOSSED."

Oxy-Chloride Flooring Products Ltd.—Arthur Bunder, Colaba, Bombay 5.
Parikh Brothers.—12, Elphinstone Circle, Bombay 1.
Parikh, R., & Co.—Elphinstone Building, Churchgate Street, Fort, Bombay 1.
Raval & Co.—21, Bank Street.
Raval Tiles & Marble Ltd.—Edena, 97-A, Queen's Road.
Rehmani, F. J., & Co.—Bank Street, Fort, Bombay 1.
Sajan & Co.—19, Custom House Road, Fort, Bombay.
Shah, A. H., & Co. Ltd.—Jan Mansion, Sir P. Mehta Road, Fort, Bombay 1.
Simplex Art Floorings Ltd.—"La-Citadelle", 32, Queen's Road.
Stone Supplying Co., Ltd.—494, Duncan Road, Bombay 4.
Tandur & Shah Stone Co.—Round Temple, Sandhurst Road, Bombay 4.
Tribhovandas, C., & Co.—Green Street, Fort, Bombay 1.

MATERIAL & MECHANICAL HANDLING EQUIPMENT & CONVEYORS

DYNACRAFT MACHINE CO., LIMITED.—Paper Machinery, Conveyors, Elevators, Trucks and Trailers. Contact: RATANSI MORARJI LIMITED, Post Box No. 1270, Bombay 1.

GAYTEE & CO.—Janmabhoomi Chambers, Fort Street, Fort, Bombay. Grams: "IMPENG." Phone: 26-3449.

Gujarat Trading Syndicate.—India House, Fort St., Bombay 1. Phone: 261248. Grams: "GUTRASY".
Fleming, John & Co. Private Ltd.—P. B. No. 76, Bombay 1. Phone: 261153.
Ratansi Morarji Private Limited.—Prospect Chambers, 317/21, Dr. Dadabhoy Naoroji Road, Bombay 1. Selling Associates for Dynacraft Machine Company, Bombay. Material and Mechanical Handling equipment and Machineries for Paper, Chemical and Rubber Industries.
Shah & Sunder.—7/10, Horniman Circle, Bombay 1.

MEASURING TAPES & INSTRUMENTS

BHARAT ENGINEERING STORES.—113, Nagdevi Street, Bombay 3. Grams: "UNIONTOOLS".

Elliott Waud & Hill Private Ltd.—Lakshmi Bldg., Sir P. M. Road, Bombay 1.
Evergreen Corporation.—Gopal Nivas, P.O. Box No. 2733, Bombay 2.
Empress Commercial Corporation.—Nagdevi Cross Lane, Bombay 3.
Fleming, John & Co. Private Ltd.—Bastion Road, Bombay 1.
Shah Engineering Stores.—88-92, Nagdevi Cross Lane, Bombay 3.

MECHANICAL AND ELECTRICAL ENGINEERS

JEMI S. BUCHIA, D.I.C.E., D.E.E.—13, N. Petit Road, Bombay 7.

MERCURY AND MERCURY SALTS

Fleming, John & Co., Private Ltd.—P. B. No. 76, Bombay 1. Phone: 261153.
Last Asiatic Co. (India) Private Ltd.—Wavell House, Ballard Estate, Bombay. Phone: 26-2711. Offices at Madras, Calcutta and New Delhi.
Kantilal Sanghvi & Co.—Mherwan Building, Sir Phiroshah Mehta Road, Fort.
Vasantlal Vadilal & Co.—216, Samuel Street, Vadgadi, Bombay 3.
Voltas Ltd.—19, Graham Road, Ballard Estate.

METAL CUTTING TOOLS

ABDEALLY, B. M., & CO.—127, Sarang Street, Bombay 3. Phone: 29990. Grams: "ALERTDEAL."

BHARAT ENGINEERING STORES.—113, Nagdevi Street, Bombay 3. Grams: "UNIONTOOLS."

Dewanchand Nikkamall & Co.—126, Narayan Dhuru Street, Bombay 3.
Elliott Waud & Hill Private Ltd.—Lakshmi Bldg., Sir P. M. Road, Bombay 1.
Express Commercial Corporation.—Nagdevi Cross Lane, Bombay 3.

GAYTEE & COMPANY.—Janmabhoomi Chambers, Fort Street, Fort, Bombay. Phone: 26-3449. Grams: "IMPENG."

Harkishanlall Somnath & Co.—75, Dhobi Street, Masjid Bunder Road, Bombay 3.
Hemant Tools Trading Co.—33, Bibijan Street, Bombay 3.
James Tools & Hardware Co.—109-11, Nagdevi Street, Bombay 3.
Jayantilal Bhagwandas & Co.—90, Nagdevi Cross Lane, Bombay 3.

KALA INDUSTRIES (BOMBAY).—84 86, Nagdevi Cross Lane, Bombay 3. Phone: C/o 39011.

Kirtilal & Co.—31, Bibijan Street, Bombay 3.
Laxmi Engineering Stores.—154, Kadakia Mansion, Narayan Dhuru Street, Bombay 3.
M. Kantilal & Co.—70, Nagdevi Cross Lane, Bombay 3.
Printing Machinery Co.—Anees Chambers, Mistry Estates, Carnac Road, Bombay 1.
Rasiklal Shah & Co.—93, Narayan Dhuru Street, Bombay 3.

ROHIT ENGINEERING WORKS, PROP., THE PRINTING MACHINERY CO.—Anees Chambers, Carnac Road, Bombay 1. Phone: 263100. Grams: "PRINTMACHO." Grinding of Metal-Shears & Paper Cutting Knives.

Shah Engineering Stores.—88-92, Nagdevi Cross Lane, Bombay 3.
Shah Trading Corporation.—Oomrigar Building, opp. Crawford Market, Bombay 3.
Vishwa Bharati Trading Co.—14, Kumpta Street, Ballard Estate, Bombay 1.

METAL JOINING EQUIPMENTS

VISHWA BHARATI TRADING CO.—14, Kumpta Street, Ballard Estate, Post Box No. 1052, Bombay 1. Phone: 264555. Grams: "VISHACO." Manufacturers of all kinds of Metals Welding, Brazing & Soldering requirements.

METAL MANUFACTURERS AND MERCHANTS

Abdeally, B. M., & Co.—127, Sarang Street, Bombay 3.
Abdullabhai Faizullabhai Ltd.—Khoka Bazar, Bombay 3.
Adamji Lookmanji & Co.—Rahimtoola House, Homji Street, Fort.

ANDHERI METAL REFINERY AND FOUNDRY.—Buyers and Refiners of Precious and Non-Ferrous Metals, Drosses, Sweeps, Residues, Slags and Ashes. Chandi Karkhana, Mogra, Post Box No. 24, Andheri, Bombay 41. Phone: 36247. Grams: "RUPAWALA."

Cables: "COZILEAD" Phone: 22787

BALDOTA BROTHERS

IMPORTERS, EXPORTERS & METAL MERCHANTS

43, 2nd Bhoiwada, BOMBAY-2

Imports:

Non-ferrous metals such as Copper, Zinc, Lead, Tin, Chemicals & Lubricating Oils.

Exports:

Iron Ore, Manganese, Minerals, Spices, Oils & Oilseeds.

Bankers: THE INDIAN BANK LTD., BOMBAY.
THE BANK OF BARODA LTD.

Balmer Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate, Fort.
Bharat Trading Co.—43, Laxmi Building, Nagdevi Cross Lane, Bombay 3.
B. KANTILAL & CO.—272, Masjid Bunder Road, Bombay 3. P.O. Box 3200. Grams: "COACHCREW."

BOMBAY HARDWARE CO.—Importers & Stockists of all kinds of Wire Strips, Rods & Sheets. Office : 85, Kika Street, Gulalwadi, Bombay 4. Phone : 72733. Grams : "AGE-KUCH". Branch at : Argyle Road, Carnac Bunder, Bombay 9. Phone : 20092.

BOMBAY METAL SYNDICATE.—166, Kika Street, Gulalwadi, Bombay 4. Phone : 73391. Grams : "ABBRASIVE." Sole Selling Agents in India for VEREINIGTE DEUTSCHE METALLWERKE A. G. (Germany) for Aluminium, Brass, Copper, Rods, Sheets, Tubes, Wires, Strips and Radiator Strips for Automobile Industry and Copper Tubings for Air-Conditioning & Refrigerating Industry.

BOMBAY WIRE & METAL PRODUCTS.—272/2 Masjid Bunder Road, P.O. Box No. 3201, Bombay 3. Manufacturers of D.C.C. Copper Wire and Dealers in Winding Wires and Insulating Materials.

CHANDULAL NARANDAS.—96, Kika Street, Shop No. 1, Bombay 4. Phones : 73645 and Res. 39549. Grams : "METALMART". Direct Importers & Dealers in Copper & Brass Rods, Pipes, Sheets, Sheathings, Wires, Strips, Phos, Bronze and Monel Metal Rods, Sheets, Wire, Tin, Lead, Zinc, Antimony, White Metal, Tin Solder, etc.

Choksi Brothers.—315, Sandhurst Road, Bombay 4.

Choksi, H., & Co.—106, Medows Street, Fort.

CHOONILAL MOHANLAL & CO.—Shop No. 54, Kika Street (Gulalwadi), Bombay 4. Importers & Dealers in Non-Ferrous Metals & Alloys, i.e. Aluminium, Brass, Copper, & Phosphor Bronze Rods, Tubes, Sheets, Sheathings, Wire & Welding Rods. Phone : 72064. Grams : "RODS."

C. P. Doshi & Co.—Bombay Mutual Building, Hornby Road, Fort.

Curtis & Co., Ltd., J.—Mahalaxmi Bridge Arcade, Bombay 11.

Desai & Co., M. S.—77, Nagdevi Cross Lane, Bombay 3.

Devidayal Metal Industries Private Ltd.—Darukhana, Reay Road, Bombay 10. Phones : 70558-59, 73586. Grams : "DEVISTEEL."

DINESHCHANDRA KESHAVLAL & CO.—209, Kika Street, Bombay 2. Phone : 73205. Res. : 39670. Grams : "COPPERTUBE." Importers, Stockists and dealers in Copper & Brass Rods, Pipes, Sheathings, Sheets, Strips and other non-Ferrous Metal Merchants.

Eknath M. Mulye.—16, Nanabhai Building, Mugbhat Street, Bombay 4.

Frances Klein & Co. (Bombay), Ltd.—Shale Building, Bank Street, Fort. Post Box No. 777, Bombay.

GULAMALLY ABDULHUSEIN & CO., M.—66-68, Narayan Dhuru Street, P. B. No. 3092, Bombay 3. Telegram : "GUNMETAL." Dealers and Manufacturers of Non-Ferrous Metals of all kinds. Phone : 39031.

HIND HARDWARE STORES.—Pirbhoy Building No. 1, Lohar Chawl, Bombay 2. Phone : 29804. Grams : "AGEKADUM." Wire Merchants.

I.C.I. (India) Private Ltd.—P. B. No. 310, Bombay 1.

INDIA METAL TRADERS.—Daya Mandir, 4th Floor, 123 125, Mumbadevi Road, Bombay 3. Manufacturers of Copper Conductors solid round and stranded, Copper Bus Bars rectangular and sections. Phone : 73525.

INDIAN SMELTING & REFINING CO., LTD., THE.—"Industry House," 159, Jamshedji Tata Road, Churchgate Reclamation, Bombay 1.

INDIAN STANDARD METAL CO., LTD.—Chinchpokli Cross Lane, I.S.M. Estate, Bombay 27. Phone Nos. 42205 & 75018. Grams : "ISMETCO."

JAIPUR METALS & ELECTRICALS LTD.—Kamani Chambers, Nicol Road, Ballard Estate. Phones : 26-1744 (6 lines). Manufacturers of Hard drawn bare electrolytic Copper Conductors, Cadmium Copper Conductors, House Service Meters, Gun Metal, Phosphor Bronze, Tin Solder, White Metal and other non-ferrous metal alloys, Arsenical Copper Rods, Copper Strips. Also Importers of Copper and other non-ferrous Metals, Component Parts of House Service Meters, etc. Managing Agents : Poonamchand and Brothers Private Ltd.

James Tools & Hardware Co.—109-11, Nagdevi Street, Bombay 3.

Jayant Metal Manufacturing Co.—152, Kanji Govindas Building, Lohar Street, Bombay 2.

KAMANI METALS & ALLOYS LTD.—Manufacturers of Brass, Copper, Phosphor Bronze and Zinc Sheets and Strips, Coils for Industrial and Commercial purposes. Agra Road, Kurla (North), Bombay 37. Phone : 67984 (3 lines).

Phone : 22825

G. K. KANSARA

118, Kansara Chawl, 1st floor, Bombay 2

Manufacturers of :
STAINLESS STEEL UTENSILS & MEDICAL APPARATUS

Wholesale dealers in :
SHEETS, WIRES, RODS, PIPES, TUBES STRIPES & FLATS in any Gauge.

* * *

TRADE INQUIRIES SOLICITED

MEHTA & COMPANY.—Latif House, Argyle Road, Iron Market, Bombay 9. Phone : 30963. Grams : "NICERODS." Importers and Stockists of Iron, Steel, Hardware and Metals.

METAL DISTRIBUTORS PRIVATE LTD.—12-18, Vithalbhai Patel Road, Bombay 4. Importers and Exporters of Metals. Phones : 73315 and 73390. Grams : "DHATUBANA." Head Office, 38, Strand Road, Calcutta.

METALLICA WORKS PRIVATE LTD.—11, Worli Road, Bombay 18. Phones : 75432, 75433, 75434. Makers of Non-Ferrous Metals. Sole Agents and Stockists : "Compo" (London), Oil Retaining Bearings. "Silvercrown" (London), Electroplating Meterials, "Delta" (London), Bronze Welding Rods.

MOHANLAL RAMANLAL POONAWALA.—32, 2nd Bhoiwada, Bombay 2. Phones : 73627 & 72089. Grams : "METAL-TRADE."

Moloobhoy, Ahmed S., & Sons.—281, Nagdevi Street.

Oriental Metal Pressing Works.—131, Worli, Bombay 18.

Ramesh Trading Corporation.—17, Nagdevi Street, Bombay.

RASHTRIYA METAL INDUSTRIES LTD.

Regd. Office & Factory :

KURLA ROAD, ANDHERI (EAST), BOMBAY 43.

Phone : 86150 Grams : "SARWAVYAPI," BOMBAY

Manufacturers of : Antifriction Bearing Metal, Brass, Bell Metal, Gunmetal, Phosphor Copper, Phosphor Bronze, Lead Bronze, Tin Solder, Type Metals and other alloys ; Sheets and Circles of Brass, Copper, Aluminium ; Sheathings of Brass and Copper ; Lead Sheets, Aluminium and Brass Utensils ; Ferrous and Non-ferrous Castings ; Machinery Parts and Spares, etc., etc.

IMPORTERS OF : Aluminium, Brass, Copper, Lead, Zinc, Tin, etc.—Virgin and Scrap.

MANAGING AGENTS :

PRAGDAS MATHURADAS (BOMBAY) PRIVATE LTD.

Reliance Trading Co.—25/47, Lohar Street, Bombay 2.

Sanghvi & Sons.—20, Kansara Chawl, Kalbadevi Road.

Standard Metal Works.—17, Falkland Road, Low Level, Tardeo.

Tarkar, B. A.—Mumbadevi, Kansara Chawl, Kalbadevi, Bombay 2.

Tirathdas Kotumal.—107, Narayan Dhuru Street, Bombay 3.

United Mill Stores (India).—(Estd. 1943), P.B. No. [illegible], Narayan Dhuru Street, Bombay 3.

Vasantlal Vadilal & Co.—215-17, Samuel Street, Vadgadi.

VASUDEV & COMPANY.—48, Bibijan Street, Bombay 3. Phone : 20677. Grams : "VASUMETALS." Dealers in Ferrous & Non-Ferrous Metals, i.e., Tubes, Rods, Strips, Sheets, Wires and all kinds of Factory requirements.

VENILAL BANSILAL BROS.—Manufacturers of White anti-Friction Metals, Type Metals, Tin Solders, Lead Seals, Lead Washers and Boiler Zinc Plates. 5, Chintamani Jain Temple Building, 2nd Bhoiwada Lane, Gulalwadi, Bombay 2. Phone : 73668.

Vishwa Bharati Trading Co.—14, Kumpta Street, Ballard Estate, Bombay 1.

VYAS BROTHERS.—Manufacturers of Copper Wires, Water Cocks, Builders' Hardware, and Importers of Brass and Copper Sheathings, Rods & Tubes. 65, Tamba Kanta, Bombay 3. Phone : 70167. Grams : "CUPROCABLE". Factory : Bombarwadi, Katargam, Surat.

MICROSCOPES

Gordhandas Desai Private Ltd.—Kermani Bldg., Sir P. M. Road, Bombay 1.

PIONEER EQUIPMENT CO. PRIVATE LTD.—139, Medows Street, P.O. Box 1909, Bombay 1. Phone : 25-1882. Also at 1, Mangoe Lane, Calcutta 1. Phone : 231611; and 193, Mount Road, Madras 2. Grams : "PIOMETAL." Agents in India for Messrs. Cooke Troughton & Simms Ltd., U.K. Famous Manufacturers of "VICKERS" Projection Microscopes. Also Microscopes of all types.

MILITARY AND GOVERNMENT CONTRACTORS

"Abco" : 30, Sarang Street, Bombay 3. Phone : 39032.

Chadha, B. M., & Co., Ltd.—Jan Mansion, Sir Phirozshah Mehta Road, Fort, P. O. Box No. 671, Bombay.

Chandulal Narandas.—96, Kika Street, Bombay 4.

Crescent Supplying Co.—Cama Building, 24-26, Dalal Street, Fort.

Edgar Handley & Co.—Seksaria Chambers, 139, Medows Street, Fort.

Herman & Mohatta, B. R., Ltd.—People's Building, Sir Phirozshah Mehta Road, Fort.

India Goatskin Corporation Ltd.—Dharavi, Bombay 17.

India Timber Trading Co.—Mustafa Building, Sir Phirozshah Mehta Road, Fort.

JAIRAMDAS & SONS.—163, Narain Dhuru Street, Bombay 3. Phone : 29020. Grams : "JAIRAMDAS."

KANJI GOVIND KERSON.—Managing Director : The Kalyan Electric Supply Co., Ltd., K. R. K. Manse, Murbad Road, Kalyan. Phone : No. 1 Kalyan and No. 262914, Bombay.

Khambati & Co., G. L.—437, Katha Bazar, Bombay 9.

Kooverji Devshi & Co.—164, Lohar Street.

Mackenzies Ltd.—Sewri.

National Hardware & Stores Supply Co.—Post Box No. 3146, Bombay 3. Phone : 33462. Grams : "REQUISITES."

NEW INDIA HARDWARE MART.—182, Narayan Dhuru Street, Bombay 3. Phone : 38665. Grams : "FREETRADE".

Spring Co.—Next to Ismailia Co-operative Bank Ltd., Sandhurst Road East, Bombay 9.

SWASTIK ROLLING SHUTTERS & ENGINEERING WORKS.—Opp. C.Rly. Parel Station, Bombay 12. Phone : 62041. Grams : "SWASTIKROL."

VASUDEV & COMPANY.—48, Bibijan Street, Bombay 3. Phone : 20677. Grams : "VASUMETALS". Dealers in Ferrous and Non-Ferrous Metals i.e., Tubes, Rods, Strips, Sheets, Wires and all kinds of Factory requirements.

MILL AND GIN STORE SUPPLIERS

"Abco" : 30, Sarang Street, Bombay 3. Phone : 39032

ABDEALLY, E. M., & CO.—127, Sarang Street, Bombay 3. Phone : 29990. Grams : "ALERTDEAL."

A. BIPINCHANDRA & CO.—Aga Khan Building, Dalal Street, Bombay 1.

Acme Manufacturing Co., Ltd.—Construction House, Wittet Road, Ballard Estate, Fort.

Adamally Sons Ltd.—277, Nagdevi Street, Bombay 3.

Adamji Kaderbhoy.—337, Katha Bazar, Bombay 9. Stockist of Braid Cord, Bobby Twine, etc.

Adarsha Trading Corporation.—Ismail Building, 2nd Floor, Room No. 9 H, 381, Hornby Road, Fort, Bombay. Phone : 32404.

Alladin Virjee Nathani.—Darukhana, Mazagaon, Bombay 10.

Allied Exporters.—Kumud House, 267, Hornby Road, Fort.

Altex Private Limited.—147, Esplanade Road, Fort.

Apollo Engineering Co.— 84, Apollo Street, Fort.

Ardeshir D. Wadia & Sons.—93, Apollo Street, Fort. Importers of "V" Tex Ropes Drives, Clutches and Gearing.

ARVINDA TRADING CO. PRIVATE LTD.—Importers and Manufacturers' Agents, 103, Apollo Street, Fort, Bombay. Phone : 251013. Grams : "RADIANT." Managing Director : R. P. Patel.

Asavo Mehta & Co.—24-B, Raja Bahadur Compound, Hamam Street, Fort

Ashok Engineering Co.—24, Noble Chambers, Parsi Bazar Street, Fort. Tel. No. 31445. Grams : "Revolution."

Associated Machine & Tool Co.—130, Medows Street, Fort.

A. VALLABHDAS & SONS.—37, Nagdevi Street, Bombay 3. Phone : 34231. Grams : "GINSPARE". Importers and Exporters, mill gin Stores, Hardware, Pipe fittings, Belts, Nuts and Rivets.

BABULAL & BROS.—26, Nagdevi Cross Lane, Bombay 3. Phone : 30930. Grams : "FIREFLY."

Baker, A. M., & Co.—218, Nagdevi Street.

Balkrishna & Bros.—71, Nagdevi Street.

Balmer Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate, Fort.

BELTEX PRIVATE LTD.—Managing Agents : Karaka & Co. Head Office : Ellis Bridge, Ahmedabad 6. Phones—Office : 7205; Works : 5289. Grams : "LEATEX", Ahmedabad. Manufacturers of Leather Beltings, Buffers, Picker Screws, Check Straps, Check ends, Laces, and other Sundry Loom Fittings. Sole Manufacturers of "OLIVE BRAND" Picking Bands. Bombay Branch : 43, Tamarind Lane, Bombay 1. Phone : 251501. Grams : "RUSHNABAND," Bombay.

Bhagvandas Chatrabhuj & Co.—20, Hamam Street, Fort.

Bharat Electric & Engineering Corporation.—28, Apollo Street, Fort.

Bharat Industrial Co.—77-79, Nagdevi Cross Lane, Bombay 3. Phone : 24455. Grams : "TRUESERVICE."

Bhathena, B. N., & Co.—100, Nagdevi Street.

Bhogilal Shah & Co.—Mehta Building, Medows Street, Fort.

Bhukhanvala & Sons.—Medows House, Medows Street, Fort.

Birla Bros., Ltd.—Imperial Bank Annexe, Bank Street, Fort.

B. N. Trivedi & Co.—13, Hamam Street, Fort.

Bombay Burma Hardware Store.—128, Nagdevi Street, Bombay 3.

Bombay Machine Store Co., The.—Laxmi Building, 43, Nagdevi Cross Lane, Bombay 3.

Bombay Metal Products Co.—86, Kandewadi, Bombay 4.

Bombay Mill Stores Supplying Co., Ltd.—Western India House, Sir Phirozshah Mehta Road, Fort.

Bombay Pulley Marketing Co.—30, Nagdevi Cross Lane, Bombay 3. Phone : 24977.

Bombay Tools Supplying Agency —50, Nagdevi Cross Lane, Bombay 3.

Brady, W. H., & Co., Ltd.—Royal Insurance Building, Churchgate Street, Fort.

Bright Bros. Private Ltd.—156-A, Tardeo Road, Bombay 7. Manufacturers of Plastic Bobbins, Pirns, etc. for Textile Industry. Agent : T Smith, 32, Altamont Road, Bombay 26.

British Mill Stores Co.—Sir Vithaldas Chambers, Bruce Street, Fort.

C. Bole & Co.—75, Nagdevi Cross Lane, Bombay 3.

C. R. Contractor & Co.—82, Nagdevi Cross Lane, Bombay 3.

Central Machine Tools Agency.—48, Nagdevi Cross Lane, Bombay 3.

Central Tool & Equipment Co – 32, Sarang Street, Bombay 3.

Chadha, B. M., & Co., Ltd.—Jan Mansion, Sir Phirozshah Mehta Road, Post Box No. 671, Bombay.

Champaklal Morarji & Co.—193, Samuel Street, Vadgadi, Bombay 9.

Chandulal & Co., Lakhwala.—313, Samuel Street, Vadgadi.

Chhabildas & Co.—78-A, Abdul Rehman Street.

Chimanlal Desai & Co.—Gool Mansion, Homji Street, Fort, Bombay 1.

Chokshi, H., & Co.—106, Medows Street, Fort.

Collinson & Co., Ltd.—Standard Building, Hornby Road, Fort.

Commissariat, H. M., & Co.—7, Elphinstone Circle, Fort.

Consolidated Mill Supplies, Ltd.—Co-operative Insurance Building, Sir Phirozshah Mehta Road.

Continental Trading Syndicate.—28, Apollo Street, Fort.

Cooper & Co.—53, Abdul Rehman Street.

CRESCENT TOOLS CORPORATION.—112, D'Souza Street, Bombay 3. Phone : 34880. Grams : "DHANMOH." Direct Importers & Stockists of Ball & Roller Bearings, Shaftings, Beltings, Hardware Materials, Woodworking, Tools, etc.

C. VADILAL & CO.—40, Nagdevi Cross Lane, Bombay 3. Phone : 38113. Grams : "GREASECUP."

Damania & Co.—25, Bank Street, Fort.

DARUWALLA, M. N., & CO.—Dealers in all kinds of Mill Stores. 32, Apollo Street, Fort. Phone No. 262715. Tel. Address : "TALLOW."

Das & Co.—Das Chambers, Dalal Street, Fort, Bombay.

Deevian Agencies.—42, Prospect Chambers Annexe, Hornby Road, Fort.

Desai, M. S., & Co.—77, Nagdevi Cross Lane, Bombay 7.

Dewanchand Nikkamall & Co.—126, Narayan Dhuru Street, Bombay 3

Dhirajlal Morarji —37-A, Sarang Street, Bombay 3.

Dinshaw Master & Co., Ltd.—247, Nagdevi Street.

Diwan Bros.—51, Nagdevi Street, Bombay 3.

Dulabhdas, P., & Co.—Samuel Street, Vadgadi.

Duncan Stratton & Co., Ltd.—5, Bank Street, Bombay 1.

Dwarkadas Khetan & Co.—139, Medows Street, Fort.

Eastern Stores & Trading Co.—115-A, Nagdevi Street.

EDGAR HANDLEY AND COMPANY PRIVATE LIMITED.—138, Medows Street, Fort, Bombay. Phones : 253548 and 252934. Grams : "TROJAN."

Ekbal & Co.—Lucky Mansion, Mahomedally Road, Bombay 3.

Empire Trading Co., The.—76-A, Ali Chambers, Tamarind Lane, Fort.

ENGINEER BROS.—16, Apollo Street, Fort, Bombay. Phone : 251009. Grams : "SHRIJIBAVA." Importers of Mill Machinery Accessories.

Engineer, Eruch D., & Co.—Crossley House, Apollo Street, Fort.

Engineering & Agencies Ltd.—Dena Bank Building, Elphinstone Circle.

Esufally Adamji & Co.—134, Nagdevi Street.

EXCELSIOR COMMERCIAL CORPORATION.—116, Sarang Street (Khoka Bazar), Bombay 3. Phone: 20463. Grams: "BIGSALES." Shaftings, High Speed Carbon and Tool Steels, Ebonite Sheets and Rods, Rubber Hoses, Tubings, Beltings, etc.

Excelsior Mill Supply Co.—Alli Chambers, Medows Street, Fort.

Express Commercial Corporation.—Nagdevi Cross Lane, Bombay 3.

Fulabhai & Company.—134, Medows Street, Fort, Bombay.

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ENGINEERING TOOL & HARDWARE MERCHANTS

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Grams : "PROFICIENT"

Direct Importers & Stockists of :

DRILLS * REAMERS * CUTTERS * SLITTING SAWS * ENDMILLS * TOOL BITS TAPS & DIES * METAL CUTTING TOOLS & ALL OTHER PRECISION TOOLS

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Gannon Dunkerley & Co., Ltd.—Chartered Bank Building, Mahatma Gandhi Road, Fort.

General Trading Corporation.—36-B, Tamarind House, Tamarind Lane, Fort.

General Tube Ltd., The.—142-44, Nagdevi Street, Bombay 3.

General Stores Co.—154, Narayan Dhuru Street, Bombay 3.

Gets India Ltd.—Western India House, Sir Phirozshah Mehta Road, Fort.

Ghia, M. C., & Co.—Raja Bahadur Motilal Mansion, 28, Apollo Street, Fort.

PHONE : 20815 GRAMS : "GOODLUCK"

THE GIN STORE COMPANY

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DIRECT IMPORTERS & STOCKISTS OF

Engineering Stores, Mill Gin Stores, Pipe & Boiler Fittings, Tools, Hardware, Bolts, Nuts & Screws, Machinery Etc., Etc.

TRADE INQUIRIES INVITED

Girdharlal Dipchand Mehta & Co.—5, Manaji Rajuji Building, Bhandari Street.

Great Eastern Trading Co.—107, Cowasji Patel Street, Fort.

Greaves Cotton & Co., Ltd.—Forbes Street, Bombay 1.

Greentose Corporation (India).—Cama Buildings, 24-26, Dalal Street, Fort.

Gujarat Mill Store Co.—Kirti Building, Forbes Street.

Gulamhussein M. Hasanali.—85/1, Sarang Street, Bombay 3.

Haiderbhoy Esmailji & Co.—166, Nagdevi Street, Bombay 3.

Harchandrai Sons.—229, Masjid Bunder Road, Bombay 3.

Hardcastle, Waud & Co., Ltd.—Alice Building, Hornby Road, Fort.

Harjimal Kidarnath & Co.—67, Nagdevi Cross Lane, Bombay 3.

HARKISHANLALL SOMNATH & CO.—2, Dhobi Street, Masjid Bunder Road, Bombay 3. Grams: "CHUCKS."

Hasarat & Co.—People's Building, Sir Phirozshah Mehta Road, Fort.

Hemant Tools Trading Co.—33, Bibijan Street, Bombay 3.

Herman & Mohatta, B. B., Ltd.—People's Building, Sir Phirozshah Mehta Road, Fort.

Hindustan Engineering Co. (Machinery Dept.).—25, Ropewalk Street, Fort, Bombay 1.

Hindustan Tube Company.—166, Nagdevi Cross Lane, Bombay 3.

Hiralal Gokuldas Dalal & Co.—45, Nagdevi Cross Lane, Bombay 3.

Hiralal, T., Co.—72-80, Nagdevi Cross Lane, Bombay 3.

Hoosein & Bros., M. A.—Lakshmi Building, Sir Phirozshah Mehta Road, Fort.

Imperial Trading Syndicate.—Podar Chambers, 54, Parsi Bazar Street, Fort.

Indian Commercial Agency.—Regd. Office: Rahimtoola House, 7, Homji Street, Fort.

Indian Stores Trading Co.—Sir Vithaldas Chambers, 10, Apollo Street, Fort.

Indo-Bobbins & Textile Co., Ltd.—Jan Mansion, Sir Phirozshah Mehta Road, Fort.

Indo-Bombay Trading Co.—34, Nagdevi Street.

Indo-British Chemical Co.—Raja Bahadur Mansion, Tamarind Lane, Fort.

Indo-British Trading Bureau.—7/10, Elphinstone Circle, Fort.

Indo-Commercial Co., Ltd.—Hamam House, Hamam Street, Fort.

INDO-TEXTILE STORES, THE.—16, Apollo Street, Fort, Mill & Gin Stores Suppliers and Specialists in Shuttles, Reeds and Leather Goods. Phone: 255261. Grams: "ALLTRADCO." Sole selling Agents for India for: Tamamura Shuttle Mfg. Co., Japan (for Silk Shuttles) and Osaka Shuttle Mfg. Co., Japan (for Automatic Shuttles).

Indus & Company.—525, Krishna Nagar, Soparibaug Road, Parel, Bombay 12.

Industrial Engineering Co.—45-47, Apollo Street, Fort.

Industrial Leather Co., Ltd., The.—9, Ash Lane, Fort.

Industrial Machine & Tools Co.—347, Lamington Road, Bombay 7.

Industrial Stores Agency.—59, Forbes Street, Fort.

Industrial Stores Co.—Seksaria Chambers, 139, Medows Street, Fort.

Industrial Syndicate.—Lentin Chambers, Dalal Street, Fort.

Industrial Textile Stores.—55-57, Nagdevi Cross Lane, Bombay 3.

Industrial Textile Stores Co.—7-10, Elphinstone Circle, Fort.

Industrial Trading Agency.—Tamarind House, Tamarind Lane, Fort, Bombay.

Ishverdas Jugmohandas & Co.—Mubarak Manzil, Apollo Street, Fort.

J. Champaklal & Co.—44, Nagdevi Cross Lane, Bombay 3.

Jagmohandas Shamaldas & Sons.—11, Tamarind Lane, Fort.

Jairam Jadhavji & Sons.—74, Nagdevi Cross Lane, Bombay 3.

JAIRAMDAS & SONS.—163, Narain Dhuru Street, Bombay 3. Grams: "JAIRAMDAS." Phone: 29020.

James Tools & Hardware Co.—109-11, Nagdevi Street, Bombay 3.

Jamnadas Chaturbhuj & Bro.—92, Vithalwadi, Bombay 2.

Jashwantlal Manecklal & Co.—97, Nagdevi Street, Bombay 3.

Jayashankar Nathalal & Co.—5, Alli Chambers, Tamarind Lane, Fort.

Javeri Traders.—P.O. Box No. 1977, 34, Cawasji Patel Street, Fort.

Jhaveri Brothers.—149, Shroff Bazar, Bombay 2.

JIVARAJ & VRAJLAL.—122, Nagdevi Street, Bombay 3. Phone No. 30136. Grams: "SANIPIPES."

J. KHUSHALDAS & CO.—77-79, Nagdevi Street, P.O. Box No. 3235, Bombay 3. Phone: 38812. Grams: "JEKHUSHAL."

Jones & Co. (Bombay) Private Ltd., J. D.—Rustom Building, Churchgate Street, Fort.

Jupitor Mill Stores Co., The.—105, Apollo Street, Fort.

Kaliandas Jagmohandas & Sons.—9, Alli Chambers, Tamarind Lane, Fort.

Kamalashankar P. Joshi.—72/80, Nagdevi Cross Lane, Bombay 3.

Kanchan Brothers & Co.—45/47, Apollo Street, Fort.

Kantilal Bhogilal & Co.—Nagdevi Cross Lane.

Khusaldas, J., & Co.—77, Nagdevi Street.

KIRTILAL & CO.—31, Bibijan Street, Barbhai Mohalla, Bombay 3. Phone: 23872. Grams: "PIPEWRENCH." Mill Gin Store Suppliers and Hardware Merchants.

Kishor Trading Co.—145, Narayan Dhuru Street, Bombay 3.

Kooverji Devshi & Co.—164, Lohar Street, Bombay.

K. RASIKLAL & CO.—Mehta Building, Medows Street, Fort, Bombay. Phone: 254313. Grams: "KRASICO."

Kumar Textiles.—Lentin Chambers, Dalal Street, Fort. Phone No. 31238.

LAXMI ENGINEERING STORES.—154, Kadakia Mansion, Narayan Dhuru Street, Bombay 3. Grams: "MICROTOOLS."

Lewis & Tylor (India) Ltd.—Sorab House, 237, Dr. Dadabhai Naoroji Road, Bombay.

L. M. & Bros.—Eagle Wadi, near New Mills, Kurla.

MACHINE TOOLS & IMPLEMENTS.—93-95, Narayan Dhuru Street, Bombay 3. Phones—Office: 22868; Residence: 242423. Grams: "MACHTOOLS."

Mangaldas & Sons.—Lentin Chambers, Dalal Street, Fort, Bombay.

Maganbhai Amin & Co.—105, Apollo Street, Fort.

Mahendrarai Textile Stores Co.—Sir Vithaldas Chambers, 16, Apollo Street, Fort.

Mangaldas Jasingbhai & Co.—49, Tamarind Lane, Fort.

Mangaldas & Sons.—Lentin Chambers, Dalal Street, Fort.

Manilal R. & Co.—Victoria Building, Parsee Bazar Street, Fort, Bombay.

MANOHAR BROTHERS.—4, Commerce House, Medows Street, Fort, Bombay. Phone: 254466. Grams: "LOCOMOTIVE." Branch: 37, Ezrabala Chetty Street, Madras. Phone: 4874.

Manubhai Shah & Co.—297, Samuel Street, Vadgadi, Bombay 3.
Marine & Mills Agencies.—257, Nagdevi Street, Bombay 8.
Mayashanker Thacker & Co.—65, Apollo Street, Fort.
Mehta & Co., S.—Anees Chambers Annexe, Carnac Road, Bombay 1.
Mehta Brothers.—Hamam House, Hamam Street, Fort.
Mehta Bros. & Co.—78, Apollo Street, Fort.
Mehta, H. P., & Co.—112, Nagdevi Street, Bombay 3.
Mehta Nanavaty & Co.—Barbhai Moholla, 96, Narayan Dhuru Street, Bombay 3.
Mehta Textile & Hardware Stores.—158-160, Narayan Dhuru Street, Bombay 3.
Menty, Naterwalla & Co.—Bombay Mutual Annexe, Gunbow Street, Fort.

PHONE : 31440 GRAMS : "YOUTH"

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Mills Store Co., The.—43, Nagdevi Cross Lane, Bombay 3.
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Minerva Engineering Stores.—76, Nagdevi Street.
Modern Mill Stores.—97, Nagdevi Street, Bombay 3.
Modern Shuttle Manufacturing Co., Ltd.—15, Forbes Street, Fort, Bombay.
Mody Trading Co.—163, Nagdevi Cross Lane, Bombay 8.
Muljibhai Chhotalal & Co.—76-78, Nagdevi Street, Bombay 8.
Nanavati & Co., Ltd.—16, Apollo Street, Fort.
Narandas G. Bhatia & Bros.—167, 5th Cavel Cross Lane, Galwadi, Bombay 2.
Narandas Ranchhoddas & Co.—93, Nagdevi Cross Lane, Bombay 3.
Narielwala, B. P., & Sons.—101, Apollo Street, Fort.
Narottamdas Chunilal & Co. (Estd. 1903).—51, Tamarind Lane, Fort, Bombay.
National Commercial Corporation, Ltd.—251-53, Hornby Road, Fort.

Telephone : 39123 Telegrams : HINDENCO

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New India Hardware Mart.—152, Narayan Dhuru Street, Bombay 8.

N. KISHORE & CO.—30, Podar Chambers, Parsee Bazar Street, Fort, Bombay. Phone : 254984. Grams : "KISHORECO." Textile Stores & Accessories. Direct Importers & Stockists of Pirns, Pickers, Sundries & Shuttles for Automatic Looms, Flanges, Bobbins, Indian Shuttles, Bands, Card Cans, Copper Rollers, Ordinary Loom Sundries, Everest Brand Inserted Eyes, Wire Healds. Branch Offices : Relief Road, Ahmedabad and 12/3, Fraser Square, Coimbatore.

N. MOHANLAL & CO.—124, Nagdevi Street, Bombay 3. Phone : 37962. Grams : "JEPHELT."

Noble Mill Stores Co.—Western India House, Sir Phirozshah Mehta Road, Fort.
Noble Trade Co.—141, Nagdevi Street, Bombay 8.
Ochhavlal, R., & Co.—86, Nagdevi Street, Bombay.

ORIENTAL MILL SUPPLY CO. PRIVATE LTD.—29/A, Alli Chambers, Dean Lane, Fort. Phone : 252428. Grams : "OMILLCO."

Orion Trading Co., Ltd., The.—Opp. Round Temple, Sandhurst Road, Bombay 4.
Ormerods (India), Ltd.—Bank of Baroda Building, Apollo Street, Fort.

PANALAL MOHANLAL & CO.—89, Nagdevi Street, Bombay 3. Direct Importers of Copper, Brass, Galvanised Black Pipes & Fittings and Gun Metal Fitting & Valves. Phone : 30211.

Paper Agents Ltd.—250, Sheikh Memon Street, Bombay 2.
Paramount (India) Ltd.—Kermani Building, Sir Phirozshah Mehta Road, Fort, Bombay 1.

PARAMOUNT TEXTILE AGENCY.—Importers & Manufacturers' Agents. Speciality in Textile Leather goods. 45 47, Apollo Street, Fort, Bombay. Phone : C o 254584. Grams : "BHOPO", Bombay. Head Office : Haridas Acharatlal Market, Kapasia Bazar, Ahmedabad. Phone : 4742. Grams : "PARATEX", Ahmedabad.

Paramount Traders.—Noble Chambers, 1st Floor, Parsee Bazar Street, Fort, Bombay.
Parekh Bros.—Sangli Bank Building, Behind Reserve Bank, 296, Bazargate Street, Fort, Bombay.

PAREKH TRADING CO.—48, Nagdevi Cross Lane, Bombay 3. Phone : 34723. Grams : "DIGNITY." Importers & Stockists of Engineering Stores, Tools & Abrasives. Branch : 59, Bibijan Street.

Parikh Brothers & Co.—45-47, Apollo Street, Fort.
Parikh & Parikh.—11, Dean Lane, Fort, Bombay. Mill Gin Store Suppliers.
Patel, U. D., & Co.—11, Bank Street, Fort.
Patell, P. R., & Co., Ltd.—Mherwan Building, Sir Phirozshah Mehta Road.
Phiroz N. Motabhoy & Co., Ltd.—Motabhoy Building, Corner of Medows and Forbes Streets, Fort, Bombay.
P. Ratilal & Co.—43, Dhanji Street, Bombay 3.

PICKERS LIMITED.—Manufacturers of Quality Pickers of all Sizes and descriptions, 43, Tamarind Lane, 4th Floor, Fort, Bombay. Head Office : Ellis Bridge, Ahmedabad 6. Grams : "COWSIE," Bombay & Ahmedabad. Bombay Office Phone No. 251501.

Pioneer Hardware & Engineering Corporation.—Sangli Bank Building, 296, Bazargate Street, Fort, Bombay. Phone : 34394.
Pioneer Magnesia Works, Ltd., The.—Chartered Bank Building, Mahatma Gandhi Road, Fort.
Pioneer Traders & Ball-Bearing Co.—154, Kalbia Mansion, Narayan Dhuru Street, Bombay 3.
Premier Machinery Stores Co.—66, Nagdevi Street.
Printer, D. P., & Co.—1, Bruce Street, Fort.

PUNEGAR, N. E. & CO.—Boiler, Economiser, Steam Plant Solutions and Paints Specialists. Union Bank New Building, Dalal Street, Fort, Bombay 1. Phone No. 253178. Telegrams : "ACMECOMPO," Bombay.

Purshottamdas, A. H.—36, Lentin Chambers, Dalal Street, Fort.
Radiant Mill Stores Co.—106, Medows Street, Fort.
R. C. Traders.—Lentin Chambers, Dalal Street, Fort, Bombay.

RAMESH TRADING CORPORATION.—17, Nagdevi Street, Bombay 3. Phone : 39489. Grams : "RAMESHCO." Importers & Stockists of Ball-bearings & Roller-bearings, Suppliers of Mill Gin Stores, Hardware and Tools and Rubber Beltings.

Reliance Stores & Trading Co.—Raja Bahadur Building, 43, Tamarind Lane, Fort.
Reliance Trading Co.—25/47, Lohar Street, Bombay 2.
Repute Engineering Co.—165, Narayan Dhuru Street, Bombay 3.

R. MOHANLAL & CO.—36, Bibijan Street, Bombay 3. Phone : 30829. Grams : "HANDTAPS." Speciality : All kinds of Asbestos Packings, Jointings, Leather & Rubber Beltings and allied Accessories.

Roberts, McLean & Co. Private Ltd.—Ilaco House, Sir Phirozshah Mehta Road, Fort.

ROYAL HARDWARE MART.—166, Nagdevi Street, Bombay 3. Phone : 38621. Grams : "MANILAROPE."

Ruby Trading Co.—Sambava Chambers, Sir Phirozshah Mehta Road, Fort.
Sardesai & Company.—14, Murzban Road, Fort, Bombay.

SAURASHTRA WIRE HEALDS MFG. CO. PRIVATE LTD.—Manufacturers of Wire Healds. Office : Sanghavi Chambers, 27, Ghoga Street, Fort, Bombay. Phone : 253502. Grams : "VIRVANDAN." Factory : Udyoganagar, Bhaktinagar Station Road, Rajkot (Saurashtra). Phone : 201. Grams : "WIREHEALDS", Rajkot. Managing Director : M. K. Sanghavi.

Scientific & Industrial Supplies Corporation.—Princess Street, Bombay 2.

Sethna, Katrak & Co.—Tamarind House, 30, Tamarind Lane, Fort.

Settna, R. Pheeroz & Co.—79, Medows Street, Fort.

Shah Bros. & Co.—Raja Bahadur Compound, Hamam Street, Fort. Suppliers of Bobbins, Shuttles and Sundries. Phone : 24605. Grams : "Millvespri."

Shah & Brothers.—234, Nagdevi Street, Bombay 3.

Shah Engineering Stores.—88-92, Nagdevi Cross Lane, Bombay 3.

Shah Machine Tools Co.—75, Abdul Rehman Street, Bombay 3.

SHAH PATEL & CO.—109/111, Nagdevi Street, Bombay 3. Phone : 20709. Grams : "LUCKYCHAP". Manufacturers of C. I. Pulleys and Shaft Couplings.

Shah Trading Corporation.—Oomrigar Building, opp. Crawford Market, P. B. No. 2299, Bombay 2.

Shamsun & Co.—11, Bruce Street, Fort.

Shantilal Sheth & Co.—Bansilal Mansion, Bruce Street, Fort.

Sheth, S. C., & Co., Ltd.—Raja Bahadur Mansion, 14, Hamam Street, Fort.

Shree Krishna Trading Co., Ltd.—11, Alli Chambers, Tamarind Street, Fort.

Shree Vijay Trading Corporation.—71/73, Apollo Street, Fort.

Shri Shakti Trading Co.—22, Apollo Street, Fort.

Shroff Bros. & Co.—7-9, Elphinstone Circle, Fort, Bombay.

Siraj, A. H., & Co.—145, Janjikar Street, Bombay 3.

Sivramkrishnan, M.—Hazi Manzil, 82-86, Abdul Rehman Street, Bombay 3.

Sizing Materials Co., Ltd.—Jeroo Building, Mahatma Gandhi Road, Fort.

Small Tools & Hardware Supply Agency.—129, Sarang Street, Bombay 3. Phone : 31177. Grams : "SMALLTOOLS."

SOUTHERN TRADING CO.—Lotus Chambers, 157-159, Narayan Dhuru Street, Bombay 3. Dealers in Mill Gin Stores, Engineering Tools, Pipe Fittings & Hardware.

S. Sevantilal & Co.—246, Masjid Bunder Road, Bombay 3.

Standard Mill Stores Co.—41, Bruce Street, Fort.

Standard Trading Agency.—Saksaria Chambers, 139, Medows Street, Fort.

Standard Trading Co.—Vithal Sayana Building No. 2, 43-75, Lohar Street, Bombay 2.

STAR TRADING CO. PRIVATE LTD., THE.—Bank of Baroda Building, 12, Apollo Street, Fort, Bombay. Phones : 253480 and 251357. Grams : "STARTRADE." Importers of Textile Machinery.

Sunderlal & Sons.—Narayan Dhuru Cross Lane, Pranjivan Building, Bombay 3.

Sviz Bros.—Bobbin Rings Manufacturers and General Merchants. P.O. Box 4089. 34/7, Tukaram Javji Road, Grant Road, Bombay 7. Phone : 27807.

Talib & Co.—Talib House, 104, Nagdevi Street, Bombay 3.

Teamsan Traders.—Post Box No. 8162, Nagdevi Street, Bombay 8.

Techno-Industrial Co.—107, Sir Vithaldas Chambers, 16, Apollo Street, Fort, Bombay.

Textile Machinery Corporation, Ltd.—254-A, Annie Besant Road, Worli, Bombay 18.

TEXTILE SUPPLIES SYNDICATE (INDIA), LTD.—India House, 1st Floor, Opp. G.P.O., Bombay. Phone : 26-3564. Grams : "GOODBELT."

TEXTILE & TIMBER TRADERS.—Medows House, Medows Street, Fort. Phones : 252051 and 252666.

TEXTOOL TUBE CO.—P.B. No. 3271, 9, Abdul Rehman Street, Bombay 3. Grams : "TEXTOOL."

THAKORLAL & CO.—47, Nagdevi Cross Lane, Bombay 3. Phone : 20496. Grams : "PIPEWARE."

Tirathdas Kotumal.—107, Narayan Dhuru Street, Bombay 3.

Tribhovandas Sons Ltd.—70, Dadyseth Agiary Lane, off Kalbadevi Road, Bombay 2.

Trinity Industrial Stores.—72-74, Nagdevi Street, Bombay 8.

Trinity Textile Traders.—Saksaria Chambers, 139, Medows Street, Fort.

Trivedi Textilatics & Company.—9, Ash Lane, Fort. Mill Gin Stores Suppliers & Machinery Merchants.

Trustin Private Limited.—Yusuf Manzil, 58, Forbes Street, Bombay 1. Phone : 252030. Grams : "LABHSAVAYA". Branch : Girdhar Chambers, Gandhi Road, Ahmedabad.

T. U. Patel & Sons, Ltd.—Hussini Chambers, 38, Nanabhai Lane, Fort, Bombay 1.

Typhoon Blower Co.—19, Hamam Street, Fort, Bombay.

U. D. PATEL & COMPANY PRIVATE LTD.—11, Bank Street, Fort, Bombay. Phone : 254854. Grams : "UDIPATEL," Bombay. Mill Gin Stores and Hardware Dealers. Sole Agents for : "A/1, Horse," "Pagoda," "Champion," "Special Corona" Brands Leather Beltings. "Highway's" "Lubricating Oils of all grades. M.L.F. Brand Chrome Composite Ginning Washers, Oil Engines and pumps.

UNION TUBE & HARDWARE MART.—84-86, Nagdevi Cross Lane, Bombay 3. Phone : 39011. Grams : "UNIONTUBE".

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United Tube & Hardware Co.—146, Nagdevi Street.

Universal Supply & Trading Co.—Ismail Building, 381, Hornby Road, Fort.

Universal Tanneries, Ltd.—Dharavi, Bombay 17.

Universal Trading Co.—79, Mohamedi House, Mohamedalli Road, Bombay 3.

Usha Textiles and Machinery Corp.—75, Tamarind Lane, Bombay 1.

Vadilal, H., & Co.—13, Tamarind Lane, Fort.

Vasantlal Vadilal & Co.—215-17, Samuel Street, Vadgadi.

Vasantrai & Sons.—Botawalla Building, 7-10, Elphinstone Circle, Fort.

VASUDEV MITRA & CO.—Dadyseth House, Cawasji Patel Street, Fort. Phone : 253082. Grams : "ASHWINCO." Depot : 108, Ardeshir Dady St., near C.P. Tank, Bombay 4. Dealers in Fine, Heavy and Pharmaceutical Chemicals. Suppliers of Paper and Mill Gin Stores.

Venus Textile Syndicate.—Sambava Chambers, Sir Phirozshah Mehta Road, Fort.

Victor Trading & Engineering Co. Pvt. Ltd.—Victor House, Jacob Circle, Bombay 11.

Vinod Mehta & Co.—22-B, Noble Chambers, Parsee Bazar Street, Fort.

Viswabharati Trading Co.—Kumpta Street, Ballard Estate, Bombay 1.

Vithaldas, G., & Co.—60, Nagdevi Cross Lane.

Voltas Ltd.—19, Graham Road, Ballard Estate.

V. S. & COMPANY.—140, Commerce House, 302, Medows Street, Bombay. Grams : "MAHDEVIACO." Phone : 254865. Textile Store Suppliers.

Waghji Lakhmidas & Co.—206, Samuel Street, Vadgadi.

Wallace, J. P., & Co.—Shale Building, 28-32, Bank Street, Fort. Phone : 20829.

Wallace, P. R., & Sons, Ltd.—Elphinstone Building, 10, Vir Nariman Street, Fort.

Western Engineering Co.—Western India House, Sir Phirozshah Mehta Road, Fort. P. O. Box 75.

Western Textile Corporation.—Prospect Chambers Annexe, Hornby Road, Fort.

MINERAL MERCHANTS

AMAR MINERALS PRIVATE LTD.—Alice Building, 339, Dr. Dadabhoy Naoroji Road, Fort, Bombay 1. Phone : 255771. Factory : Kalyan (Central Railway). Phone : Kalyan -26. Dealers in all kinds of Minerals.

Bajaj Textile Mills Ltd.—384M, Kalbadevi Road, Bombay 2.

Baldota Brothers.—43, 2nd Bhoiwada, Bombay 2.

Bapusaheb M. & Co.—Bharat House, 3rd Floor, Apollo Street, Fort, Bombay.

Bhiwandiwall A. H. & Co. (Bombay) Ltd.—93-95, Kazi Syed Street, Bombay 3.

Blue Star Engineering Co. (Bombay) Ltd.—Kasturi Building, Jamshetji Tata Road, Churchgate, Bombay.

Central Hindusthan Italian Trading Co. Ltd.—C/o. G. Apherton & Co. Ltd., 28, Apollo Street, Bombay.

Champaklal Morarji & Co.—193, Samuel Street, Bombay 9.

Chimanlal Patel & Co.—124, Hornby Road, Fort.

Coal Mining & State Minerals Ltd.—Alice Bldg., Hornby Road, Fort.

Continental Commercial Co.—75, Tamarind Lane, Opp. Alli Chambers, Bombay 1.

Dandekar Company.—Bombay Mutual Annexe, Fort, Bombay 1.

Dayashanker Bhatt & Co.—Mansu Mansion, 16, Custom House Road, Bombay 1.

Devidayal (Sales) Private Ltd.—Tulsiram Gupta Mills Estate, Mazagaon, Bombay 10.

Eve Fabrics Ltd.—Indu House, Ballard Estate, Bombay.

Ferro Metal & Chemical Corporation.—Bhujat Bhuvan, No. 80, Nepean Sea Road, Bombay 6.

GANPAT HARJIVAN.—113, Nagdevi Street, Bombay 3. Phone : 20230. Grams : "CLAY."

Gujarat Clay Mills.—246, Reay Road, Bombay 10.

Harchandani Sons.—239, Masjid Bunder Road, Bombay 3.

Hariram Dinanath.—Oriental Bank Building, 65, Mahatma Gandhi Road, Fort, Bombay.
Hindustan Manganese Mines Ltd. The—93-95, Kazi Syed Street, Bombay 3.
Hind Traders.—241, Princess Street, Bombay 2.
HINDUSTHAN MINERAL PRODUCTS CO. PRIVATE LTD., THE.—111, Industrial Area, Sion, Bombay 22. Phones: 61051-41682 & 89316. Grams: "BARYTES." Geologists, Mining Engineers & Stockists of Indian Minerals. Deals in:- Barytes, Iron Oxides and other Minerals. Pulverisers of Organic and Inorganic Products and formulators of Insecticides. Factories at: 111, Industrial Area, Sion, Bombay 22. 2. 27, Manganese Depot, Sewri, Bombay 15. 3. Tadpatri, Southern Railway.
Hughes & Davies.—Mahatma Gandhi Road, Bombay.
INDIAN CLAY & RAW PRODUCTS SUPPLY CO.—Belvedere Mill Road, Mazagaon, Bombay 10. Phone: 40794. Grams: "CLAY."
Indian Mineral Supply Co.—14, Western India House, Sir Phirozshah Mehta Road, Fort.
Industrial Minerals & Chemical Co.—125, Narayan Dhuru Street, Bombay 3.
Iron & Metal Traders Ltd.—Off. Magazine Street, Near Reay Road Station, Mazagaon, Bombay 10.
Jagannath Gupta & Co. Ltd.—(Manganese Department), 7, Vishnu Mahal, 'D' Road, Churchgate Extension, Bombay.
Kajaria Traders (India) Ltd.—325, Kalbadevi Road, Bombay 2.
Khandelwal Brothers Private Ltd.—Khandelwal Bhavan, 166, Dadabhai Naoroji Road, Bombay.
Khandelwal Mining Corporation.—6, Itola Street, Opp. Argyle Road, Carnac Bunder, Bombay 9.
Khemka (Agencies) Private Ltd.—Vulcan Insurance Building, 202-A, Veer Nariman Road, Churchgate Reclamation, Bombay 1.
Jamnadas Chaturbhuj & Bros.—92, Vithalwadi, Bombay 2. Grams: "JUBILEE."
Javeri Traders.—Lakhmi Building, 34, Cawasji Street, Fort, Bombay.
Kirtikumar & Co.—80, Bhandari Street, Mandvi, Bombay 3. Phone: 20583. Grams: "LALITKIRTI."
Mercantile Trading Co.—Gulzare Kasim, Mazagaon, Bombay 10.
MINERAL MINING CO., PRIVATE LTD., THE.—111, Industrial Area, Sion, Bombay 22. Phone: 61051. Grams: "BARYTES." Mine Owners & Mineral Suppliers. Deals in: Soapstone, China Clay, Corundum, Calcium Carbonate. Our speciality: Calcium Oxide & Calcium Hydroxide. Also formulators of Insecticides. Registered Office: Indian Chamber Buildings, Esplanade, Madras 1. Administrative Office: At 111, Industrial Area, Sion, Bombay 22. Branch Office: 'Ramalaya', Phalian Dt., N. Satara. Factory: Rayalcheruvu—S. Railway.
Mulraj G. Dungersey & Co. Ltd.—21, Forbes Street, Bombay.
Nagri Mining Co. Private Ltd.—Sambava Chambers, Sir P. M. Road, Fort, Bombay.
Nakumpex Traders.—2nd Floor, Rehman Building, 24, Veer Nariman Road, Bombay.
Natwarlal Shamaldas & Co.—94, Medows Street, Fort, Bombay
National Industries of India.—Sambava Chambers, Sir Phirozshah Mehta Road, Fort.
New Bharat Grinding Mills.—Near Animal Hospital, Govt. Gate Road, Parel, Bombay 12.
Overseas Trade & Agencies (India).—Beaumon Chambers, Medows Street, Fort, Bombay.
PRAVIN BROTHERS & CO.—37, Bora Bazar Street, Bombay 1. Phones: 263804 & 262159. Grams: "WIDESCOPE." Importers, Exporters and Agents: Sulphur-Chemicals-Fertilizers, Minerals-Lime-Jute-Products.
Putty Brothers Ltd.—20, Hamam Street, Bombay.
Ram Bahadur Thakur & Co.—11-B, Noble Chambers, Ghoga Street, Bombay.
Sopalchre Brothers (India) Ltd. Taj Building, D. Naoroji Road, Bombay.
Sharma & Sharma.—Oriental Bank Building, 65, Mahatma Gandhi Road, Bombay.
Shethia & Co. S. D., Ltd.—Podar Chambers, Parsi Bazar Street, Bombay 1.
Shivrajpur Syndicate Ltd. The—Home Street, Fort, Bombay.
Premji Haridas & Co.—Bhanushali Chambers, 166, Argyle Road, Bombay 2.
Standard Pulverising Co.—Atlas Mill Compound, Reay Road, Bombay 10
Suchin & Co.—66, Lakshmi Building, Sir Phirozshah Mehta Road, Fort.
Tavaria Bros.—Dhan-Nur, Sir Phirozshah Mehta Road, Fort.
Todi & Co.—41, Hamam Street, Fort.
Vaswani (India) Private Ltd.—496, Kalbadevi Road, Post Box No. 2009, Bombay 2.
Wallem & Co.—India House, Opp. G.P.O., Bombay.
Western India Trading Co. The—Jan Mansion, Sir P. M. Road, Bombay.

MINERAL WATER SUPPLIERS

(See Aerated Water Manufacturers.)

MONSOON REQUISITES

ARCO AGENCIES.—Bam House, Gunbow Street, Fort, Bombay 1. Phone: 26-1208.

MOTORS AND TRUCKS (AUTOMOBILES)

Advance Trading Corporation.—Bhangwadi, Kalbadevi Road, Bombay 2.
ALLENA (INDIA) AGENCIES.—363 D, Vithalbhai Patel Road, Bombay 4. Importers & Exporters of Car parts Austin A-40, Fiat 1100 103, Hillman Minx, Morris Minor, Baby Hindustan, Land Master, & Hindustan 14. Heavy Diesel Trucks parts—Foden, A.E.C., Leyland Retriever, Leyland Hippo Mk II, Albion Diesel, Mack Diesel.
ALLIBHAI PREMJI TYREWALLA.—211, Lamington Road, Bombay 7. Phone: 42763. Grams: 'TYRETUBE'. Approved Dealers for "Royal Enfield Motorcycles and 3 Wheelers.
Asian Motor Car Co.—Ramchandra Mansion, Sandhurst Road.
Autocars Ltd.—43, Queen's Road, Bombay 2.
Automobile Co., Ltd.—41, Queen's Road.
Bombay Garage Ltd.—Meher Building, Chowpatty, Bombay 7.
Bombay Motors & Radios Ltd.—33, New Queen's Road.
Car Mart Ltd.—Pratt's Building, Hughes Road.
Continental Auto Stores.—Tram Terminus, Opera House.
DADAJEE DHACKJEE & CO. PRIVATE LTD.—Sandhurst Bridge, Bombay 7. Importers of & Dealers in Automobiles & Automobile Accessories. Sole Distributors for: Rolls-Royce, Bentley, Humber, Hillman, Sunbeam-Talbot Cars, Mercedes-Benz Diesel and Petrol Passenger Cars; Tata-Mercedes-Benz Diesel Truck and Bus Chassis, and Commer and Karrier Commercial Vehicles; A.J.S. Motor Cycles, Lambretta Motor Scooters, Scooterettes, 3-wheeler Rikshaw & Delivery Van Chassis, "PR" type specially designed Van. "WOLF". Electric tools & Equipment; and "OLDHAM" Automobile Batteries. Telegrams: "PROMPT", Bombay, Telephones: 27021 23. Workshops: 74629.
Eastern Motor Corporation.—Indira Nivas, Bhatwadi, Girgaum.
Empire Automobiles.—Junction of New Queen's Road and Lamington Road.
Federal Motors.—Giri Kunj, Hughes Road, Bombay 7.
Foreign Products Distributing Co.—491, Sandhurst Road, Bombay 4.
French Motor Car Co., Ltd.—9-11, Hughes Road, Bombay.
GARWARE MOTORS ENGINEERING PRIVATE LIMITED.—Chowpatty Chambers, Sandhurst Bridge, Bombay 7. Phone Nos. 27091 and 27092. Grams: "GARWARECAR." Automobile Engineers.
Harvan Motor House.—"Kapol Nivas", Sandhurst Road.
IDEAL MOTORS.—Bombay Mutual Annexe, Cawasji Patel Street, Fort. Phone: 262660. Grams: "IDEALMOTOR." Importers and Distributors of Cycles, Motor Cycles and Accessories. Sunbeam, B.M.W. and JAWA-CZ 48 c.c., 125 c.c., 150 c.c., 250 c.c., 350 c.c. and 500 c.c. Motor Cycles.
Imperial Motors.—Parekh House, 14, New Queen's Road.
INDO IRANO JAPAN TRADING CO.—363-F, V.P. Road, (Congress House Lane), Bombay 4. Phone: 41895. Grams: "IRANJAPCO."
Indian Automobile Co., Ltd.—2-4, Apollo Street, Fort.
INDO FOREIGN COMMERCIAL AGENCY.—380, Vithalbhai Patel Road, Bombay 4. Phone: 41714. Grams: "EVERGLAD". Importers, Exporters & Manufacturers' Representatives for Motor Spare parts. Specialists Exporters to Middle East & Afghanistan.
International Motor Co.—Sandhurst Bridge, Bombay 7.
LAMINGTON AUTOMOBILE CO., THE.—363-E, Vithalbhai Patel Road, Bombay 4.
Lincon Motors.—Marina Mansion, Sandhurst Bridge.
Lucas Indian Service Ltd.—15, New Queen's Road.
Mahindra & Mahindra Ltd.—Gateway Building, Apollo Bunder, Bombay 1.
MEHTA AUTOMOBILES.—Sukh-Sagar, Sandhurst Bridge, Bombay 7.
Metro Motors, The.—Motor House, Hughes Road, Bombay 7.
MOTOR CYCLE HOUSE.—12, Sukh Sagar, Hughes Road, Bombay 7. Grams: "WAZIRSON."
Motor and General Stores Supplying Co.—Kothare Mansion, opp. G.P.O.

MOTOR HOUSE LTD.—511-A, Sardar Vallabhbhai Patel Road, Krishna Bhuvan, Bombay 4. H.O. Phones: 73786 & 41728. Grams: 'MOTORHOUSE'. Parts Divisions & Direct Requisites of Genuine Spare parts for Kaiser, Fraser, Reo & Bradford.

NATIONAL AUTOMOBILES.—363-B, Vithalbhai Patel Road, (Congress House Road), Bombay 4. Grams: 'AUTOFLASH.' Importers & Wholesalers. Branch: Gandhi Motor Market, Kashmeri-gate, Delhi 6.

NIZEL MOTORS.—7-A, Princess Avenue, Brandra, Bombay.
Noble Cycle & Motor Co.—Commissariat Building, Hornby Road.
Patel, F. M., & Co.—Ramchandra Mansion, Sandhurst Road, Bombay 4.
Patel, N. D., & Co.—180-82, Princess Street.
Patel, P. R., & Co., Ltd.—Mherwan Building, Sir Phirozshah Mehta Road, Fort.
Premier Automobiles Ltd.—Agra Road, Bombay 37.
Rapid Cycle & Motor Co., Ltd.—Opp. Edward Theatre, Kalbadevi Road.

SHARMA MOTOR CO.—Raval Building, 418, Lamington Road, Bombay 4. C o Phone: 70989.
Shetty Automobiles.—Opera House Tram Terminus.
Society of Motors Manufacturers and Traders, Ltd.—National Insurance Building, 27, Bastion Road, Fort.
Tata Locomotive & Engineering Co. Ltd.—148, Mahatma Gandhi Road, Bombay 1.

UNION TRADING CO.—395, Vithalbhai Patel Road, Bombay 4. Phone: 71671. Grams: 'SUCCESSFUL'. Mfrs. & Exporters of Auto Spring Leaves, V-Belt, and Attachment parts.

UNITED AUTOMOBILES.—431, Lamington Road, Bombay 4. Grams: "UNIAUTO."
United Motors (India), Ltd.—Hughes Road.
United Overseas Service.—16, New Queen's Road, Bombay 4.

MOTOR BODY BUILDERS

Hiralal & Company (Estd. 1927).—Petit Compound, Kennedy Bridge, Bombay 7.

INDIA BODY BUILDERS.—All Types of Motor Body Builders, Spray Painters, Welders, Upholsters & Fabricators, Eastern Woollen Mills Comound, 62, Bhawani Shankar Road, Dadar, Bombay 28. Phone: 60803. Grams: 'AUTOBODY.'
Jayanand Khira and Co., Ltd.—Office & Showroom: Kothare Bldg., Sandhurst Bridge, Bombay 7.

MISTRY MOTOR BODY BUILDERS.—151 C, Tardeo, Bombay 7. Phone: 75572. Specialists in all types of Motor bodies.
Regal Motors.—Old Victoria Mills Compound, Gamdevi, Bombay 7.
Royal Auto Works.—Tanker Ville Estate, 200, Gowalia Tank Road.

RUBY INDUSTRIES.—Motor Body Builders (on Government & Municipal List) 75, Dr. Annie Besant Road, Worli, Bombay 18. Phone: 70538. Grams: "MOTORBODY."
Sam Ruston & Co.—81/83, Mangalore Street, Ballard Estate.
Sewri Engineering Works.—234, Sewri Road, Bombay 15.

MOTOR BODY BUILDING MATERIALS

"Abco."—39, Sarang Street, Bombay 3. Phone: 39032.
Associated Auto Parts Ltd.—445, Lamington Road, Bombay 4.
Chandawalla Traders.—321, Vithalbhai Patel Road, Bombay 4.

EAST INDIA TRADING CORPORATION.—418, Sardar Vallabhbhai Patel Road, Prarthana Samaj, Bombay 4. Phone: 41175. Grams: "EASTINCORP." Stockists of 'Jagger' Motor and Bus Body Fittings, Auto seat covers, Plastic leather Cloth, Rubber Matting etc.

JIVANLAL & CO. (ESTD. 1937).—464, Sardar Vallabhbhai Patel Road, Laxmi Bhuvan, Bombay 4. Phone: 49723.
McKenzies Ltd.—Sewri.
Mahomedally Noorbhai & Co.—Tayebi Manzil, Ebrahim Rahimtulla Road, Bombay 3.
Mehta, J. V., & Co.—Opera House Tram Terminus, Bombay 4.

MOTOR HOOD DEPOT.—Nair Building, 490, Sandhurst Road, Bombay No. 4. Stockists of: "Jagger's" Bus Body Fittings. P.V.C. Leather Cloth, Rubber Matting, etc. Auto Seat Covers a speciality. Phone: 71697. Grams: "MOTORHOOD."
National Hardware & Store Supply Co.—80, Khokha Bazar, Sarang Street, Bombay 3.
N. B. Fadia & Co.—493, Sandhurst Road, Bombay 4.
P. Shah & Co.—Dwarkadas Mansions, Sardar Vallabhbhai Patel Road, Bombay 4.
Shah & Sunder.—7/10, Horniman Circle, Bombay 1.
S. S. Prabhu.—Ghamat Terrace, opp. Dadar (Western Rly.) Station, Bombay 14.
Tajbhoy Alibhoy & Sons.—117, Ebrahim Rahimtulla Road, Bombay No. 3.

MOTOR TYRES AND ACCESSORIES

ALIBHAI PREMJI TYREWALLA.—211, Lamington Road, Bombay 7. Phone: 42763. Grams: "TYRETUBE". Approved Dealers for "Royal Enfield" Motor Cycles and 3 Wheelers.
Associated Auto Parts Ltd.—445, Lamington Road, Bombay 4.
Automobile Resort Co.—Corner of Wittet Road, Ballard Estate.
Batliboi & Sons.—Standard Vacuum Service Station, Hughes Road.
Dunlop Rubber Co. (India), Ltd.—"Dunlop House," Hughes Road.
Empire Automobiles.—Junction of New Queen's Road & Lamington Road.
Firestone Tyre & Rubber Co. of India, Ltd.—Hay Bunder Road, Sewree.
Goodyear Tyre and Rubber Co. (India), Ltd.—7-9, Mathew Road
Greaves Cotton & Co., Ltd.—1, Forbes Street.
Harvan Motor House.—Kapole Nivas, Sandhurst Road.
Indian Automobile Co., Ltd.—4, Apollo Street, Fort.
J. V. Mehta, & Co.—Opera House Tram Terminus, Lamington Road, Bombay 4.
Lucas Indian Service, Ltd.—New Queen's Road.
Mehta Motor Stores.—Banji Nivas, Sandhurst Road, Bombay 4.
Modern Auto Stores.—Vallabh Terrace, Sandhurst Road.
Mody Brothers.—Raval Building, 430, Lamington Road.
Motor Trade Supply Co.—Parekh Mansions, Sandhurst Road.
Noorbhai Jivaji.—Tyebi Manzil, Bhendy Bazar, near Tram Junction
One Stop Service Stations Co.—Swadeshi Mills Compound, New Queen's Road, Bombay.
Osler, F. & C., Ltd.—Swadeshi Mills Compound, New Queen's Road
Overseas Trading Corporation.—Nusser House, New Queen's Road
Patel, J. B., & Co.—Contractors Building, 6, Lamington Road
Provincial Motor Car Co., Ltd.—Opp. Opera House, New Queen's Road, Bombay 4.
Rane, Limited.—New Queen's Road.
Royal Cycle & Motor Works.—Jariwala Mansion, Hughes Road
United Motors (India), Ltd.—Arthur Bunder, Colaba.
Victoria Motor Stores.—Dwarkadas Mansions, Sandhurst Road

MOULDING MACHINES AND BOXES

PIONEER EQUIPMENT CO. PRIVATE LTD.—139, Medows Street, P.O. Box 1909, Bombay 1. Phone: 25-1882. Also at 1, Mangoe Lane, Calcutta 1. Phone: 231611, and 193, Mount Road, Madras 2. Grams: "PIOMETAL." Agents for Gustav Zimmerman G.m.b.H., famous manufacturers of Moulding Machines and Hesenwerke, Germany for HESON Moulding Boxes.
Thos. W. Ward (India) Ltd.—Marshall Building, Ballard Road Ballard Estate, Fort.

MUSIC AND MUSICAL INSTRUMENT DEALERS

Anandji Kalyanji Vora.—Hathi Building, 448, Kalbadevi Road
B. Ardeshir & Co.—438, Kalbadevi Road, Bombay 2.
Beyne & Co.—145, Mahatma Gandhi Road.

BRITANNIA TALKING MACHINE CO. (Cal.).—407, Kalbadevi Road, Bombay 2. Phone: 30465. Grams: "BRITAPHONE."

Chaitsingh Gurbaxsingh & Bros.—292, Sandhurst Road (West), Bombay 4.
Furtado, B. X., & Sons.—Jer Mahal Estate, Dhobi Talao.

FURTADO, L. M., & CO.—542-544, Kalbadevi Road, Bombay 2. Pianos, Music and Musical Instrument Dealers. Phone: 23666.

GRAMOPHONE COMPANY LTD.—(Inc. in England, with Limited liability), Bombay Office: Universal Building, Sir Phirozshah Mehta Road, Fort. Phone: 252327,8 (2 Lines). Grams: "JABBERMENT."

Haribhaoo Vishwanath Co.—Opp. Dadar (Western Rly.) Station, Dadar, Bombay 14.
James & Co.—Nevasi Building, Hornby Road, Fort.
Mehta, J. V., & Co.—Opera House Tram Terminus, Bombay 4.
Rose, B., & Co, Ltd.—Rampart House, Rampart Row, Fort.
Ruby Record Company.—8/10, Tamarind Lane, Fort.

MYROBALANS

Bedhska & Co.—Noble Chambers, Parsi Bazar Street, Fort
Bhagwandas, H. & Co.—104/106, Clive Road, Dana Bunder, Bombay 9.
Bholaram Agarwal—220, Bhat Bazar, Bombay 3.
Capital Colour & Chemical Co.—97/87, Mirchi Street, Vadgadi, Bombay 3.

General Trading Co.—220, Bhat Bazar, Bombay 3.
Jivanlal, C., & Co.—Azad Bhuvan, Masjid Bunder Road, Bombay 3.
Joshi Jivandas Gangaram & Co.—282, Narshi Natha Street, Bombay 9.
Karsandas Haridas.—Argyle Road, Bombay 9.
Karsandas, Ramdas, Argyle Road, Bombay 9.
Karamsee Tricamji, 51/55, Clive Road, Dana Bunder, Bombay 9.
Lalji Birji & Co.—Argyle Road, Bombay 9.
Laxmi Trading Co.—86, Vir Nariman Road, Fort, Bombay 1.
Mansukhlal, R. & Co.—51/55 Clive Road, Bombay 9.
Mathradas, P. & Co. Ltd.—Meherwan Building, Sir Phirozshah Mehta Road, Fort, Bombay 1.
Narayan Anant.—Khand Bazar, Bombay 3.
Premji Haridas & Co.—170, Argyle Road, Bombay 9.

Premji Haridas & Co.—Bhanusali Chambers, 168, Argyle Road, Bombay 9.

Poonjiajee Jehangir, J. M.—Byramji Mansion, Sir Phirozshah Mehta Road, Fort.

Purshotam Mathradas & Co. Private Ltd.—3, Mherwan Building, Sir Phirozshah Mehta Road, Fort, Bombay 1.
[illegible] Commercial Corporation, Ltd.—Central Bank Building, Bruce Street, Fort, Bombay 1.
[illegible] P. R. & Co.—Anant Nivas, 262 70, Bhat Bazar, Bombay 9.

MYROBALAN EXTRACTS

SHREE LAXMI TANNIN EXTRACT FACTORY.—Malancha Road, Kharagpur (B.N. Rly.). Proprietors: Purshotam Mathradas & Co., Private Ltd., 3, Mehrwan Bldg., Sir Phirozshah Mehta Road, Bombay 1. Manufacturers of 'Lion' Brand Solid and Powder extracts of Myrobalans. Phone: 252689.

NATURE CURE CLINICS

NATURAL THERAPY CLINIC.—140, Cumballa Hill, Dial: 41721. Electro-Hydrotherapy, Dietetics, Scientific Massage, Osteopathy, Chiropractic, Orificial Therapy & other Modern Therapeutic Methods given under the Directorship of Dr. JEHANGIR MERWANJI JUSSAWALLA, N.D., D.O., D.C. (Eng.); Secretary, (India) Health Practitioners' Association (London); Vice-President, Bombay Provincial Naturopathic Association; Member, American Naturopathic Association (U.S.A.).

NEWSPAPERS (OVERISSUED & OLD)

Associated Agencies (Bombay).—47, Podar Chambers, Parsi Bazar Street, Fort.

EAST ASIATIC CO. (INDIA) PRIVATE LTD., THE.—Wavell House, Graham Road, Ballard Estate, Bombay. Phone: 26-2711 (8 lines). Offices at Madras, Calcutta, New Delhi.

Gulabchand Nathalal & Co.—45, Mirchi Lane, Bombay 3.
[illegible] Commercial Co., Ltd.—45-47, Apollo Street, Fort, Bombay.
Kantilal Sanghvi & Co.—Mehrwan Building, Sir Phirozshaha Mehta Road, Fort.

SHAH & COMPANY.—108, New Citizen Bank House, Palton Road, Bombay 1. Phone: 261613. Grams: "SHAHPAPER."

NEWSPAPERS AND PERIODICALS

ENGLISH

DAILY

"Bombay Chronicle."—Red House, 140, Parsi Bazar Street, Fort.
"Bombay Sentinel."—Red House, Parsi Bazar Street, Fort.

"EVENING NEWS OF INDIA."—Times Building, Hornby Road, Fort.

"Free Press Bulletin."—21, Dalal Street, Fort.
"Free Press Journal."—21, Dalal Street, Fort.

"HINDUSTHAN STANDARD" (English Daily from Calcutta and Delhi).—Bombay Office: United Bank of India Bldg., Sir P. Mehta Road, Bombay. Phone: 252188. Gram: "ANANDBAZAR."

"Indian Express."—Standard Press, Colaba.
"Press Trust of India".—Financial and Commercial Service, [illegible], Dr. Dadabhoi Naoroji Road, Fort, Bombay.
"Reuter's Indian Journal."—807, Hornby Road, Fort.

"TIMES OF INDIA."—Times Building, Hornby Road, Fort.

WEEKLY

"All-India Weekly."—41, Hamam Street, Fort.
"Bharat Jyoti."—Journal Press, 21, Dalal Street, Fort.
"Blitz."—Sanj Vartaman Printing Press, Apollo Street, Fort.
"Bombay Market."—21 Dadisheth Agiary Street, Kalbadevi, Bombay.
"Commerce."—Caxton House, Frere Road, Fort.
"Current."—Meher House, Cawasji Patel Street, Bombay 1.
"Economic Weekly."—Popular Printing Press, Tardeo.

EVES WEEKLY (India's Only Family News-Magazine).—Sanj Vartaman Press, Apollo Street, Fort, Bombay. Price: 25 nP. per Copy (pp. 40). Annual Subscription Rs. 12 (Inland), Rs. 18 (Foreign). Half Yearly Rs. 6 (Inland). Editor: Mrs. M. Mehta, Advt. Manager: R. D. Mistry. Advertisement Rates: Casual Rs. 17 per c.i.: over 200 in. Rs. 15: Rs. 150 extra for every additional colour. Phone: 255362-3. Grams: "EVESWEEKLY."

"Examiner."—Examiner Press, Medows Street, Fort.

"ILLUSTRATED WEEKLY OF INDIA."—Times Building, Hornby Road, Fort.
"Indian Market."—Jan Mansion, Sir Phirozshah Mehta Road, Fort.
"Indian Social Reformer."—Kannada Press, 109, Parsi Bazar Street.
"Investor's Supplement to the Stock Exchange Circular."—42-43, Stock Exchange Building, Apollo Street.
"Logic."—Rangbhoomi Printing Press, 141, Shivaji Park, Dadar.
"National Guardian."—227, Frere Road, Fort.
"New Leader."—Kothari Printing Works, Sir Phirozshah Mehta Road, Fort.
"Screen."—Standard Printing Press, Colaba.
"Sporting Times."—143, Esplanade Road, Fort.
"Sunday Chronicle."—Red House, Parsi Bazar Street.
"Sunday Standard."—Standard Printing Press, Colaba.

"TIMES OF INDIA" (Sunday Edition).—Hornby Road, Fort.

FORTNIGHTLY

"FILMFARE."—Times Building, Hornby Road, Fort.

"Mangalorean."—339, Hornby Road, Fort.
"Problem."—Victoria Printing Works, 322, Devawadi, Bombay 2.
"Property Market."—Churchgate Street, Fort.
"Psycho."—Podar Chambers, Fort.
"Racing Calendar."—Caxton Press, Frere Road.

MONTHLY

"Communist."—Communist Office, Bombay 4.

"FILMINDIA" (Established in 1935).—The Most Exciting Magazine in the World. The largest circulated Monthly Magazine in India. Sir Phirozshah Mehta Road, Fort, Bombay, India. Price Rs. 2 per copy. Annual subscription Rs. 35 (Inland); Rs. 46-6-0 or 70 Shillings (Foreign); Managing Editor: Baburao Patel. Editorial Director: Mrs. Sushila Rani Patel. Manager: Mr. Suryakant Patel. Advertisement rates: Full Page Rs. 600; Half Page Rs. 325; 2nd and 3rd Cover Rs. 750; For 1st and 4th Cover 3 Colours, Centre-Spread 2 Colours and other Special advertisements, Special quotations will be given from month to month. Phone No. 261752.

"General Letter."—Soman Building, Girgaum.

"INDIAN CONCRETE JOURNAL."—121, Queen's Road, Bombay 1.

Indian Electrical News Published by Ellora Art Industries—Shiroji Bhuvan, Lohar Chawl, Bombay 2.

INDIAN TEXTILE JOURNAL

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"Jewish Advocate."—61-67, Medows Street, Fort.

"JOURNAL OF THE FILM INDUSTRY."—Indian Motion Picture Producers' Association. Sandhurst Building, Sardar Vallabhbhai Patel Road, Bombay 4. Annual Subscription Rs. 5, Single Copy. 50 nP. Advt. Rates: 1 Full Page, Rs. 200, Half Page Rs. 100.

"Journal of the Indian Merchants' Chamber."—505, Arthur Road, Tardeo.
"Labour Gazette."—Labour Office, Dhobi Talao, Bombay 2.
"Monthly News Letter."—Caxton Printing Press, Fort.
"Onlooker."—United India Building, Sir Phirozshah Mehta Road.
"R. C. A. News."—New Era Printing Press, Chowpatty Road, Bombay 7.

"RADIO TIMES OF INDIA."—29, New Queen's Road, Bombay 4. Phone No. 22473. Grams: "ETHERWAVE." Edited by D. D. Lakhanpal, B.E., B.Sc. (Tech.) (Manchester), A.M.C.T., A.M.I.E. (India), A.M.I.E.E. (London), A.M., B.R.I.T., I.R.E. Published monthly on the 1st of every month.

"Rural India."—Atre Printing Press, 362, Vithalbhai Patel Road, Bombay 4.

QUARTERLY

"OCEANITE."—The Maritime Magazine of India, 204, Dr. Dadabhai Naoroji Road, Fort, Bombay 1. Phone No. 26-3052.

"Social Service Quarterly."—Servants of India Society's House, Sandhurst Road.
"Textile Digest."—India Printing Works, 9, Bakehouse Lane, Fort.

ANNUAL

M. P. Gandhi & Co.—Jan Mansion, Sir Phirozshah Mehta Road, Fort, Bombay 1. Publishers: Major Industries of India Annual, Cotton Textile Industry Annual, Sugar Industry Annual.

"TIMES OF INDIA DIRECTORY AND YEAR BOOK."—Times Building, Hornby Road.

"THE TIMES OF INDIA ANNUAL."—Times Building, Hornby Road.

ANGLO-GUJARATI

WEEKLY

"Parsi Avaj."—R. F. Joshi P. Press, Mangalore Street, Fort.

ANGLO-MARATHI

WEEKLY

"Subodh Patrika."—Prarthana Samaj, Charni Road, Girgaum.

ANGLO-PORTUGUESE & KONKANI

WEEKLY

"Anglo-Lusitano."—Anglo-Lusitano Press, Bank Street, Fort.
"Ave Maria."—New Sonapur Street.
"Chabuk."—Kumar Printing Press, Vilen Lane, Bombay 4.
"Goa Mail."—322, Girgaum Road, Thakurdwar.
"Goa Times."—84-86, 1st Marine Lines, Dhobi Talao.
"Udentichem Neketr" (Konkani).—Examiner Press, Medows Street, Fort.

MARATHI

DAILY

"Cole Daily News."—31, Tribhuvan Road.
"Daily News."—Daily Samachar Press, Krishna Building, Falkland Road.
"Final Sadanand."—Power Printing Press, Kandewadi, Bombay 4.
"Jordar Patrika."—Kotuleshwar Printing Press, Fanaswadi, Bombay 2.
"Lokasatta."—Standard Press, Newspaper House, Colaba.
"Navakal."—18, Shenviwadi, Kandewadi, Girgaum.
"Navshakti."—Navshakti Printing Press, 21, Dalal Street, Fort.

WEEKLY

"Dhanurdhari."—Ramkrishna Printing Press, 15-17, Tribhuvan Road.

"KAMGAR".—Mazdoor Manzil, Parel, Bombay 12. Mouthpiece of the Rashtriya Mill Mazdoor Sangh, the Representative Union of the Textile Workers in Greater Bombay. A Weekly of nine years' standing, offers good medium of publicity particularly in Industrial Area of Greater Bombay.

"Lokasatta."—Standard Press, Newspaper House, Colaba.
"Mouj."—Khatau Makanji Wadi, Girgaum.
"Navakal."—18, Shenviwadi, Bombay 4.

"NAVAYUG."—India's Largest Selling Marathi Periodicals. Weekly "Navayug", Daily "Maratha". Edited by: Acharya Atre. Jyoti Studio Compound, Kennedy Bridge, Bombay 7. Phone: 78228.

"Swarajya."—Shanti Niwas, Vithalbhai Patel Road, Bombay 2.
"Taruna."—Lakshmi Narayan Printing Press, 364, Thakurdwar.
"Vivek."—Ramkrishna Printing Press, Girgaon, Bombay 4.
"Vividh Vritta."—Shri Laxmi Narayan Printing Press, Thakurdwar.

FORTNIGHTLY

"Dalvadnya Prabodhini."—Vinaya Press, 267, Girgaum Road, Kandewadi.

"SAKSHARATA DEEN".—Editor: B. M. Kapadia, Bombay City Social Education Committee, Tata Road 2, Bombay 4.
"Shipal."—Vijay Printing Press, 269, Girgaon Road, Bombay 4.
"Soviet Mitra."—Famous Printers, 12, Tribhuvan Road, Bombay 4.
"Vaibhav."—Navyug Printing Press, Portuguese Church Street, Bombay 14.

MONTHLY

"Adarsh Vaishya."—Ramkrishna Printing Press, Tribhuvan Road.
"Dalvadnya Samachar."—Madan Building, Tara Temple Lane.
"Girni Samachar."—364, Thakurdwar Road.
"Kunabi Udaya."—Shripad Printing Press, Kandewadi.
"Maccabi."—Shri Laxminarayan Press, Bombay 2.
"Monthly Organ of Maharashtra Chamber of Commerce."—(VAIBHAV) 12, Rampart Row, Fort, Bombay 1.
"Prabu Prabhat."—Zaoba's Oart.
"Vaishya Patrika."—Ramkrishna Printing Press, Tribhuvan Road.
"Zarapkar."—Tulsi Pipe Road, Dadar.

GUJARATI

DAILY

"Bombay Samachar."—Red House, Parsi Bazar Street.
"Cole Daily News."—31, Tribhuvan Road.
"Cutch Mitra."—(Thrice a Week), Mitra Printery, 73, Gokhale Road North, Dadar, Bombay 14.
"Daily News."—Krishna Building, Golpitha.
"Jam-e-Jamshed."—(Anglo-Gujarati), Jam-e-Jamshed Press, Ballard Estate.
"Janmabhumi."—Ghoga Street, Fort, Bombay.
"Praja-Tantra" (Gujarati Evening Daily).—Kalam Kutir, 211 Frere Road, Fort, Bombay.
"Vandemataram."—Vandemataram Mudranalaya, Nasik Chambers, Frere Road, Fort.

WEEKLY

"Bombay Samachar."—Red House, Fort.
"Chhaya."—Central Fine Art & Litho Works, 293A, Bellasis Road, Bombay 8.
"Chitrapat."—Chitrapat Printing Press, West End Gate, Lamington Road.
"Cinema Fan."—Kumar Art Printing Press, Bombay 7.
"Film Chitra."—Daily Samachar Printery Press, Golpitha.
"Gujerati."—Gujerati Printing Press, Elphinstone Circle, Fort.
"Ismaili."—(Anglo-Gujarati), Ismaili Printing Press, 1/4, Dongri Street, Bombay 9.
"Jam-e-Jamshed."—Jam-e-Jamshed Press, Ballard Pier.
"Janmabhumi and Pravasi"—Pravasi Mudranalaya, Medows Street, Fort.
"Jay Bharat."—Kishore Printing Press, Tamarind Lane, Fort.
"Kateryu Gep."—French Bridge, Chowpatty.
"Maha Gujarat."—Kishore Printery, Tamarind Lane, Fort.
"Raviwar."—209A, Sir Mangaldas Wadi, Lamington Road.
"Veni."—Veni Printery, 12th Lane, Khetwadi.
"Yugantar."—Dalal Street, Fort.

FORTNIGHTLY

"Chintan."—New Gujrat Printery, 104, Bazargate Street, Fort.
"Prabudh Jain."—45-47, Dhanji Street, Bombay 3.
"Rabhar."—(in Devanagari) Rupa Villa, Cumballa Hill.
"Rajkot."—Moj Majah Printing Press, Khetwadi, Girgaum.
"Sarvodaya."—R. P. Aryaprakash Printing Press, Kakadwadi, Bombay 4.

MONTHLY

"Bhagini Samaj Patrika."—Vandematram Printing Press, Frere Road, Fort.
"Gujarati Hindu Stri Mandal Bombay Patrika."—Amroli House, Vithalbhai Patel Road.
"Memon Mitra."—99, Jakeria Musjid Street.
"Shri Gogras."—149, Shroff Bazar.
"Shri Jeevdaya."—Humanitarian League Office, 149, Shroff Bazar

GUJARATI AND HINDI

"Jain Prakash"—(Weekly), Suryakant Printing Press, 451, Kalbadevi Road.

HINDI AND ANGLO-HINDI

"DHARMAYUG."—(Weekly), Times of India Press, Hornby Road, Fort.

"NAVBHARAT TIMES."—(Daily), Times of India Press, Hornby Road, Fort.

"Rajhans."—(Fortnightly), Ajmal Press, opp. J. J. Hospital.
"Shri Venkateshvar Samachar."—(Weekly), 7th Khambatta Lane, Khetwadi.
"Vishwamitra".—(Daily), Asha Printery, Noble Chambers, Parsi Bazar Street, Fort.
"PARAG."—(Monthly), Times of India, Hornby Road, Fort.

URDU, PERSIAN AND ARABIC

DAILY

"Aftab."—Ansari Fine Art Litho Press, opp. Arab Mosque, Bombay 8.
"Ajmal."—Princess Building, J. J. Hospital, Bhendi Bazar.
"Hilal-e-Nau."—Hilal Press, New Chinch Bunder Road.
"Hindustan."—Sultani Fine Art Litho Press, Bombay 3.
"Inquilab-e-Jadid." (Urdu)—245 Ripon Road, Bombay 8.
"Iqbal."—Bombay Press, Shustry Building, Bellasis Road.
"Ittehad."—(Urdu), Sultani Fine Art Litho Press, Bhendy Bazar, Bombay 3.
"Khilafat Daily."—Khilafat Press, Khilapat House, Love Lane, Bombay 27.

WEEKLY

"Fankar Weekly."—New Citizen Bank House, Palton Road, Bombay 1.
"Musavvir."—Khilafat Press, Love Lane, Mazagaon.
"Rahbar."—(Fortnightly), Cumballa Hill.

MONTHLY

"Tamseel"—(Anglo-Urdu), 20, Jivaji Mansion, Vincent Road, Dadar.
"Tanwir."—Ajmal Printing Press, opp. J. J. Hospital.

KANNADA

WEEKLY

"Khalsa."—(Gurumukhi, Weekly), 302, Kalbadevi, Bombay 2.

SINDHI

"Hindustan."—(Daily), 13, Hamam Street, Fort, Bombay.
"Sansar Samachar."—(Daily), Sansar Samachar Printing Press, 208, Vincent Road, Dadar.

WEEKLY

"Hindvasi."—(Sindhi Weekly), 13, Hamam Street, Fort, Bombay 1.

BENGALI

DAILY

"ANANDA BAZAR PATRIKA."—(Bengali Daily from Calcutta), 6, Scoterkin Street, Calcutta 1. Phone: 232283-89 (7 lines). Bombay Office: United Bank of India Bldg., Sir P. Mehta Road, Bombay. Phone: 252188. Gram: "ANANDBAZAR."

NON-FERROUS METALS

"Abco"—30, Sarang Street, Bombay 3. Phone: 39032.
Adamji Lookmanji & Co.—Rahimtoola House, Homji Street, Fort.
Associated Agencies (Bombay).—47, Podar Chambers, Parsi Bazar Street.
Balmer Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate, Fort.
Bagraj Gupta & Co.—207, Kalbadevi Road, Bombay 2.
Bombay Company Ltd.—9, Wallace Street, Fort.

BOMBAY METAL & ALLOYS MFG. CO. PRIVATE LTD.—Opp. Magazine Street, P.O. Box 6210, Bombay 10. Phone: 76104,5 6. Grams: "BOMALLOY."

Bombay Wire & Metal Products.—272-2, Masjid Bunder Road, Opp. Imperial Bank, Bombay 3.

C. AMICHAND & CO.—46A, Abdul Rehman Street, Bombay 3. Dealers in Hardware & Non-Ferrous Metals. Grams: "SHIPCOCK."

CHANDULAL NARANDAS.—96, Kika Street, Shop No. 1, Bombay 4. Phones: 73648 and Res.: 39549. Grams: "METALMART." Direct Importers & Dealers in Copper & Brass Rods, Pipes, Sheets, Sheathing Wires Strips, Phos, Bronze and Monel Metal Rods, Sheets, Wires, Tin, Lead, Zinc, Antimony White Metal Tin Solder etc.

CHOONILAL MOHANLAL & CO.—Shop No. 54, Kika Street (Gulalwadi), Bombay 4. Importers & Dealers in Ferrous & Non-Ferrous Metals & Alloys. Phone: 72064. Grams: "RODS."

DINESHCHANDRA KESHAVLAL & CO.—309, Kika Street, Bombay 2. Phones: 73808, Res.: 39670. Importers, Stockists and Dealers in Copper & Brass Rods, Pipes, Sheathings, Sheets, Strips and other Non-Ferrous Metal Merchants.

EAST ASIATIC CO. (INDIA) PRIVATE LTD., THE.—Wavell House, Graham Road, Ballard Estate, Bombay. Phone: 26-2711 (6 lines). Offices at Madras, Calcutta, New Delhi.

Great Western Engineering Works.—"Sea View," 1st Pasta Lane, Colaba, Bombay 5.
Greaves Cotton & Co., Ltd.—Forbes Street, Bombay 1.
Guest Keen Williams Ltd.—Sprott Road, Ballard Estate, Bombay 1.
Imperial Chemical Industries (India) Private Ltd.—Imperial Chemical House, Dougall Road, Ballard Estate.
India Metal Agencies.—"India House", Opp. G.P.O., Bombay 1.
Indian Standard Metal Co., Ltd.—Chinchpokli Cross Lane, Bombay 27.
Jacks, William & Co., Ltd.—Hamilton House, Graham Road, Ballard Estate, Fort.
James Finlay & Co., Ltd.—Mahatma Gandhi Road, Bombay 1.
Jayant Metal Manufacturing Co.—152, Lohar Street, Bombay 2.
Kamalshankar P. Joshi.—72-80, Nagdevi Cross Lane.
Kaman Engineering Corpn., Ltd.—Kamani Chambers, Nicol Road, Ballard Estate, Fort.
Kamani Metals & Alloys Ltd.—Kamani Chambers, Nicol Road, Ballard Estate.
Marwah Bros. (India) Ltd.—55-57, Nagdevi Cross Lane, Bombay 3.

METAL DISTRIBUTORS PRIVATE LTD.—12-18, Vithalbhai Patel Road, Bombay 4. Importers and Exporters of Metals. Phones: 73315 and 73390. Grams: "DHATUBANA." Head Office: 38, Strand Road, Calcutta.

METALLICA WORKS PRIVATE LTD.—11, Worli Road, Bombay 18. Phones: 75432, 75433, 75434. Makers of Non-Ferrous Metals. Sole Agents and Stockists: "Compo" (London), Oil Retaining Bearings. "Silvercrown" (London), Electroplating Materials. "Delta" (London), Bronze Welding Rods.

MITRA, H. P.—304/305, Himalaya House, Dr. Dadabhoy Naoroji Road, Bombay 1. Phone: 263341. Grams: "MITRAMET." Representing Bassett Smith & Co., Ltd., 15/18, Lime Street, London E.C. 3. Non-Ferrous Metals Scrap, Residue, Ores, Mineral-Minor Metals, Stainless Steel.

MOHANLAL RAMANLAL POONAWALA.—32, 2nd Bhoiwada, Bombay 2. Phones: 73627 & 72089. Grams: "METALTRADE".

Montana Ltd.—Rahimtoola House, Homji Street, Fort.
Non-Ferrous Metal Refinery.—24, Sitafalwadi, New Anjirwadi, Mount Road, Mazagaon, Bombay 10.
Sepulchre Brothers (India) Ltd.—Taj Building, 210, Hornby Road.
Sivramkrishnan, M.—Haji Manzil, 82-86, Abdul Rehman Street, Bombay 3.
Techno Industrial Co.—107, Sir Vithaldas Chambers, 16, Apollo Street, Fort.
United Mill Stores (India).—61, Nagdevi Street, Bombay 3.

VENILAL BANSILAL BROS.—Manufactures of: White Anti-friction Metals, Type Metals, Tin Solders, Lead Seals, Lead Washers and Boiler Zinc Plates. 5, Chintamani Jain Temple Building, 2nd Bhoiwada Lane, Gulalwadi, Bombay 2. Phone: 73658.

NON-FERROUS METALWARE MANUFACTURERS

Bombay Brass & Metal Works.—Panjrapole 2nd Street, Bombay 4.
Eastern Aluminium Works.—60, Bapu Khote Cross Lane, Kika Street, Bombay 3.
G. K. Kansara.—Kansara Chawl, Bombay 2.
Gupta Metal Industries Ltd.—Gupta Mills Estate, Reay Road, Darukhana, Bombay 10.
Kamani Engineering Corporation Ltd.—Kamani Chambers, Nicol Road, Ballard Estate, Bombay 1.
Kandivli Metal Works, C/o Messrs. Natwarlal & Co.—Dhobi Wadi, Thakurdwar, Bombay 2.

LALUBHAI AMINCHAND PRIVATE LTD.—Proprietors, "Dun Aluminium Factory," 225 227, Tardeo Road, Bombay 7. Manufacturers of all Non-Ferrous Metal Wares and Articles. Phone Nos. 41681 and 73220. Grams: "CYCLEBRAND."

Oriental Metal Pressing Works Private Ltd.—131, Worli, Bombay 18.
Pitamberdas Lallubhai & Co.—86, Kansara Chawl, Kalbadevi Road, Bombay 2.
Standard Metal Works Ltd.—17, Falkland Road, Low Level, Bombay 7.
Tarkar, B. A.—50, Kansara Chawl, Kalbadevi Road, Bombay 2.
Vajeram Devchand & Bros.—21-22, Chirabazar, Dukerwadi, Bombay.

NOVELTIES

Aurora Toys and Novelties.—"Parimal", Keluskar Road South, Shivaji Park, Dadar, Bombay 28.
Ebrahim Allibhoy & Sons.—260-64, Abdul Rehman Street, Bombay 3. Phone: 33463. Importers and Exporters.
Excel Process Works.—Manufacturers of Advertising Gift Items, Excel House, Ghodbunder Road, Irla, Vile-Parle, Bombay 24.
Grand Bazar.—25, Colaba Causeway, Bombay 1.
Metal Industries.—163, Narayan Dhuru Street, Bombay 3.
Noble Jewellery Mart.—Capitol Cinema Bldg., Bori Bunder, Bombay 1.
Salemahomed Padamsee & Co.—141, Chakla Street, P.O. Box 3131, Bombay 3.
Stewarts Laboratories.—327, Hornby Road, Fort, Bombay 1.

OFFICE EQUIPMENT

Artytoys.—Sir Ratan Tata Road, Tardeo, Bombay 7.
Bharat Electric and Engineering Corporation.—Free Press Building, Ground Floor, 21, Dalal Street, Fort, Bombay.

BOMBAY TYPEWRITING INSTITUTION.—(Recognised by Government), Typewriting Taught, Typewriters & Duplicators Bought, Sold, Repaired & Hired. Type-copying & Duplicating Work Undertaken. Opp. The General Post Office, Bhatia Mitra Mandal, Fort Street, Fort, Post Box No. 936, Bombay 1. Phone : 26-2484. Grams : "SAXENA".

"EKDAM".—Factory for Time-Saving Office Equipment, National House, 6, Tulloch Road, Behind Regal Cinema, Apollo Bunder, Bombay 1. Phone : 35958. Manufacturers of Steel Furniture, Filing Cabinets, Filing Systems, Card Cabinets, Card Systems, All-Metal Feather-weight, Loose-Leaf Ledgers & Binders. Auxiliary Equipment for Punched-Card-Systems.

Express Corporation.—Co-operative Insurance Building, Sir Phirozshah Mehta Road, Fort.
Filing Equipment Co.—Manufacturers of all kinds of Office Files, P. O. Box 4032, Bombay 7.
General Equipment Merchants, Ltd.—People's Building, Sir Phiroshah Mehta Road, Fort.
Gestetner Duplicators Ltd.—Construction House, Ballard Estate, Bombay. Phone : 21041.
Gillanders Arbuthnot & Co., Ltd.—16, Queen's Road Estate, Bombay 1.

GODREJ & BOYCE MFG. CO. PRIVATE LTD.—Lalbaug, Parel, Bombay.

HINDUSTAN FABRICS & STORES PRIVATE LTD.—Fulchand Nivas, Chowpatty Sea Face, Bombay 7. Phone : 27108. Grams : "SWAKALA".

James Manufacturing Co.—407, Kalbadevi Road, Bombay 2. Phone : 22874.

KHIRA STEEL WORKS PRIVATE LTD.—H.O. & Factory : Ghodbunder Road, Santa Cruz, Bombay 23. Grams : "STEELCASE." Phones : 88002 & 89569. Regd. Office : Kothare Building, Sandhurst Bridge, Bombay 7. Grams : "SWAKALA". Phone : 27636. Showroom : Fulchand Niwas, Chowpatty Sea Face, Bombay 7. Grams : "SWAKALA". Phone : 27108.

KILBURN & CO., PRIVATE LTD.—Gresham Assurance House, Sir Phirozshah Mehta Road, Bombay. Phone : 251908. Grams : "TESCONIUM."

KORES (INDIA) PRIVATE LIMITED.—Plot No. 10, off Haines Road, Worli, Bombay 18. Phone : 73454 (Three lines). Grams : "KORESCARBO."

Kulkarni Bros.—388-94, Sheikh Memon Street, Bombay 2.
Kwick Stationery Mart.—206, Abdul Rehman Street, Bombay 3.

LATHAM ABERCROMBIE & CO. PRIVATE LTD.—Forbes Bldg., Home Street, Bombay 1.

MOTOR HOUSE LTD. (ESTD. 1927).—Halda-Facit : Office Equipment Division : Admn. Offices, Showrooms & Service Station : "House of Mehta", Hughes Road, Bombay 7. P.B. No. 6546, Bombay 26. Cables : "MOTORHOUSE", Bombay. Phone Nos. : 77435, 77436. Branches : Bombay (Fort), Nagpur, Poona, Hubli, Ahmedabad, New Delhi, Jaipur, Chandigarh, Simla Patiala, Ludhiana, Jullundur, Amritsar, Bhopal, Gwalior, Indore. Exclusive Sole & Service Concessionaries of HALDA Typewriters, Facit Calculators, FACTA Adding & Listing Machines and other specialised office equipment. Town Sales Office : Dhan-Nur, Sir P. Mehta Road, Fort, Bombay 1.

National Cash Register Co.—Steelcrete House, Backbay Reclamation, Bombay 1.
National Steel Equipment Co.—Naigaum Road (Near Spring Mills), Dadar, Bombay 14.

OFFICE EQUIPMENT CO. OF INDIA.—Bombay Mutual Annexe, 17, Gunbow Street, Fort, Bombay 1. P.O. Box No. 712. Phone : 263484. Grams : "BROWNMAN". Manufacturers of Loose-Leaf Books, Filing System & Steel Equipment.

Prince, H. I. & Son.—9, Lily Court, Churchgate Reclamation, Bombay. Cable : "BRUNSVIGA." Phone : 37441.

REMINGTON RAND OF INDIA LIMITED.—Manufacturers of Remington Rand Business Equipment. Address : Thackersey House, Graham Road, Ballard Estate, Bombay. Phone : 261190 (2 lines). Grams : "REMINGTONS."

Steel Age Industries Private Ltd.—Opp. Post Office, Mazagaon, Bombay 10.

OFFSET PRINTERS

New Jack Printing Works, Ltd.—Sekaria Mills Compound, Globe Mills Passage, off Delisle Road, Bombay 13. Phone : 60042-43. Grams : 'NEWJACKPRES.'
Popular Fine Art Litho Works.—Suryoday Mill Compound, Tardeo, Bombay 7. Phone : 42471. Grams : "GOOLNAR."
Vinay Calendar Co.—Ardeshir Dadi Street, Bombay 4.

OIL AND LEATHER CLOTH MANUFACTURERS DEALERS

Bhor Industries Private Ltd.—Ganesh Prasad, 10 Sleater Road, Bombay 7.

DHARAMPUR LEATHER CLOTH CO., LTD.—10, Chowpatty Sea Face, Opp. Tilak Statue, Bombay 7, India. Phone : 40816. Grams : "PUNEM." Manufacturers of P.V.C. Coated Fabrics for Heavy Upholstery.

EAST INDIA TRADING CORPORATION.—418, Sardar Vallabhbhai Patel Road, Prarthana Samaj, Bombay 4. Phone : 41175. Grams : "EASTINCORP". Stockists of Plastic Leather Cloth, Rexine Cloth and Upholstery Requisites.

Gandhi, R. & Co.—Kitchen Garden Lane, Bombay 2.
Jivanlal & Company (Estd. 1937).—404, Sardar Valabhbhai Patel Road, Bombay 4.
Kapadia & Co.—19, Sir Phirozshah Mehta Road, Fort, Bombay 1.
Leather Cloth Processors & Printers.—Moghul Lane, Mahim, Bombay 16.
Menty, S. M., & Co.—13, Horniman Circle, Fort, Bombay 1.

NATIONAL LEATHER CLOTH MANUFACTURING CO.—Manufacturers of P.V.C. Leather Cloth, Waterproof Cloth and Bookcloth. 480, Sandhurst Road, Bombay 4. Phone 71097. Grams : "LEATHERETE."

SELWEL CORPORATION.—Inside Nakhuda Roghay Market Nakhuda Mohalla, Bombay 3. Dealers in P.V.C. Sheeting Unsupported Rexine, Oil Cloth etc.

WESTERN INDIA MANUFACTURERS' AGENCY PRIVATE LTD.—190, R. K. Building, Khetwadi Main Road, Bombay 1. P.O. Box 574, Bombay 1. Phone : 71615. Grams "ARTLEATHER." Dealers in Leather Cloth, Oil Cloth and Bus Body Building materials, Branches : Calcutta, Delhi & Madras.

OIL BURNERS

Heatly Gresham Ltd.—9, Forbes Street, Bombay 1.
Jacks William & Co., Ltd.—Hamilton House, Ballard Estate, Bombay 1.

PIONEER EQUIPMENT CO. PRIVATE LTD.—139, Medows Street, P.O. Box 1909, Bombay 1. Phone : 25-1682. Also at 1, Mangoe Lane, Calcutta 1. Phone : 231611 and 193, Mount Road, Madras 2. Grams : "PIOMETAL." Representing : Kay Engineers, Calcutta for Foundry Lamps, Cupola Lighters, Large pressure Burners for Rail Roads, etc.

OIL ENGINES SPARE PARTS IMPORTERS & DEALERS

Acme Manufacturing Co., Ltd., The.—Construction House, Ballard Estate, Bombay.
Associated Machine & Tool Co.—130, Medows Street, Fort.
Atul Engineering Co.—49, Apollo Street, Fort, Bombay.
Bharat Industrial Co.—77-79, Nagdevi Cross Lane, Bombay 3.
Brady, W. H., & Co., Ltd.—Churchgate Street, Fort.
Chhaya Trading Co.—Opp. Share Bazar Building, Hamam Street, Fort.
Drewet Chowna & Co.—Lentin Chambers, Medows Street, Fort, Bombay.

EAST ASIATIC CO. (INDIA) PRIVATE LTD., THE.—Shreenivas House, Wandby Road, Bombay. Phone : 26-2711 (6 lines). Offices at Madras, Calcutta, New Delhi, Bangalore and Secunderabad.

Eastern Electric and Refrigeration Co.—14, Hamam Street, Fort, Bombay.
Engineer, Eruch D., & Co.—Crossby House, Apollo Street, Fort, Bombay.

ESSENTIAL ENGINEERING CO.—11, Botawala Building, Elphinstone Circle, Fort. Phone : 238001. Grams : "ESSENCE." Importers, Exporters, Commission Agents and Manufacturers' Representatives.

General Commercial and Industrial Co.—Vishram Bhuvan, 1st Floor, 41, Kolbhat Street, Bombay 2.
Greaves Cotton & Co., Ltd.—Forbes Street, Bombay 1.
Gujarat Industrial Corporation.—22, Alli Chambers, Tamarind Lane, Fort, Bombay 1.
Hasambhoy Jetha.—Opp. Byculla Goods Depots, Parel Road, Bombay 27.
India Engineering Works.—Opp. Share Bazar Building, Hamam Street, Fort.
Jacks, William & Co.—Hamilton House, Graham Road, Ballard Estate, Fort.
Jayeeas Engineering Co.—Warden House, Sir Phirozshah Mehta Road, Fort.
Jhala, R. T., & Co.—9, Forbes Street, Fort, Bombay.
Khimandas Jagmeal & Sons (Regd. 1910), Shed.—12, Hornby View Building, Gunbow Street, Fort.
Larsen & Toubro Ltd.—1. C. House, Dougall Road, Ballard Estate, Fort.
Mota Lakhmi Company.—Hasanai Chambers, Nanabhai Lane, Fort.
Negres Limited.—Negres Building, 50, Custom House Road, Fort.
Paramount Industrial Stores.—15, Ropewalk Street, Bombay 1.
Parekh Bros., Ltd.—66, Mahatma Gandhi Road, Fort.

Parry & Co., Ltd.—United India Building, Sir P. M. Road, Fort.
Power Machines Corporation.—81, Forbes Street, Fort.
P. Rai & Co.—105, Apollo Street, Fort.
Radiant Engineering Co.—79, Medows Street, Bombay 1.
Shah Machine Tools Co.—75, Abdul Rehman Street, Bombay 3.
Sigil (India) Services Ltd.—Ismail Building, 380, Hornby Road, Fort.
Sivramkrishnan, M.—Haji Manzil, 82-86, Abdul Rehman Street, Bombay 3.
Small-Diesels Ltd.—36, Western India House, Sir Phirozshah Mehta Road, Fort.
TALWALKER BROTHERS PRIVATE LTD., W. R.—Lentin Chambers, Dalal Street, Fort, Bombay. Phone No. 30367. Grams: "PUMPENAMEL."
Usha Textiles and Machinery Corpn.—75, Tamarind Lane, Bombay 1.
Voltas Limited.—Ballard Estate, Bombay 1.

OIL EXPELLERS

JAWARMAL CULABCHAND.—Meher House, 15, Cowasji Patel Street, Fort, Bombay 1. Phones: 253024, 252360 and 253734. P.O. Box No. 1883. Grams: "MANASGANGA." Ball Bearing and Machinery Merchants and Mfgrs. of J. G. Baby Oil Expellers.

OIL MILLS (COMPANIES), IMPORTERS & EXPORTERS

AHMED OOMERBHOY OIL MILLS.—Two Tanks, Bombay 8. P.O. Box No. 4511. Oil Millers, Exporters & Importers. Manufacturers of Vegetable Products, Refined Oils and all kinds of Edible & Non-edible Raw Oils, Oilcakes etc. Phone Nos. 41977 and 73325.
BHAVNAGAR OIL & CHEMICAL INDUSTRIES PRIVATE LTD.—Sales Office: Bombay Mutual Building, Dr. Dadabhoy Naoroji Road, Fort, Bombay 1. Grams: "BOCIL." Phone: 26-1359, Bombay and 223, Bhavnagar. H.O. & Factory: Mahatma Gandhi Road, Bhavnagar. Managing Director: M. Merchant.
Blandell Spence & Co., Ltd.—See Elephant Oil Mills Ltd.
Bombay Oil Industries Pvt. Ltd.—285,287, Narshi Natha Street, Bombay 9.
Cooper & Co.—53, Abdul Rehman Street.
ELEPHANT OIL MILLS PRIVATE LTD.—Rustom Building, Churchgate Street, P.O. Box 663, Bombay. Phone: 251246 (2 Lines). Grams: "BLUNTRIPP."
Gore, D. G.—91, Mangaldas Road.
GWALIOR OIL MILLS, Bombay.—Linseed oil. Distributors: William Jacks & Co. Ltd., Hamilton House, Graham Road, Ballard Estate, Bombay.
Hindustan Oil Mills.—Nawab Mansion, 22, Gunbow Street, Fort. Grams. "Paulkrit." Head Office & Works at Ghat Road, Nagpur.
Jamnadas Laljee Oil Mills.—Champsi Bhimji Wadi, Old Anjirwadi, Mazagon.
Lokmanya Oil Mills.—Palghar, Dist. Thana.
Oomedchand Kashiram & Co.—Mudi Bazar, Bombay 3.
Premji Haridas & Co.—Bhanushali Chambers, Argyle Road, Bombay 9.
Raja Oil Mills.—88, Masjid Bunder Road.
Ram Agency.—200, Kazi Syed Street, Bombay 9.
Sonal Rangnow & Co.—41, Hamam Street, Fort, Bombay.
Swastik Oil Mills, Ltd.—Salt Pan Road, Wadala, Bombay 31.
Tata Oil Mills, Co., Ltd.—Bombay House, 24, Bruce Street, Fort, Bombay.
Tide Water Oil Co. (India) Ltd.—Nicol Road, Ballard Estate, Bombay.
Wharton, H. W., & Co., Ltd.—399, Hornby Road, Fort.

OIL SEALS

Agra Engineering Co.—84, Apollo Street, Bombay 1.
B. CHOWDHURY.—Indian Globe Chambers, Fort Street, Bombay 1. Phone: 26-3479. Grams: "BISUKHI." Sole Agents for Carl Freudenberg, West Germany.

OILS, OIL CAKES & OILSEEDS

EAST ASIATIC CO. (INDIA) PRIVATE LTD., THE.—Wavell House, Graham Road, Ballard Estate, Bombay. Phone: 26-2711 (8 lines). Offices at Madras, Calcutta, New Delhi.
Harchandani Sons.—339, Masjid Bunder Road, Bombay 3.
Hind Trading Co.—All Chambers, 76-80, Tamarind Lane, Fort.
Hindustan Engineering Co. (Machinery Dept.)—25, Ropewalk Street, Rampart Row, Fort, Bombay.
Kodak & Co.—Navsari Building, Dr. Dadabhoy Naoroji Road, Fort, Bombay.
Mriam & Co.—Bell Building, Sir Phirozshah Mehta Road, Fort.
RAMNARAYEN PODDAR & CO.—Karim Chambers, Hamam Street, Bombay 1. Phone: 253494. Grams: "RAMLAXMI." Importers, Exporters and Merchants. Oil Cakes Exporters.
Swastik Oil Mills Ltd.—Saltpan Road, Wadala, Bombay 31.
Sorabji Nowroji & Co.—16, Horniman Circle, Fort.
Uttamlal, V., & Co.—**P.O. Box No. 1981, Bombay.**

OIL MILLS MACHINERY & OTHER EQUIPMENT IMPORTERS

Atlas Engineering Co.—Crescent Chambers, Tamarind Lane, Fort.
Hindustan Engineering Co. (Machinery Dept.).—25, Ropewalk Street, Rampart Row, Fort.
Jayems Engineering Co.—Warden House, Sir Phirozshah Mehta Road, Fort.
Kilburn & Co. Private Ltd.—Gresham Assurance House, Sir Phirozshah Mehta Road, Bombay.
Laxmi Engineering Works.—40, Khetwadi 10th Lane, Bombay 4.
Marshall Sons & Co. (India) Ltd.—Ballard Road, Bombay 1.
Nofco Engineers.—P. O. Box 270, Bombay 1 (India). Cable: "Nofco." Phone: 262452.
Oriental Engineering Co.—25, Forbes Street, Fort, Bombay 1.
Paramount Industrial Stores.—15, Ropewalk Street, Bombay 1.
Voltas Limited, Ballard Estate, Bombay 1.
Western India Engineering Co.—Signal Hill Avenue, Sewree, Bombay 15.

OLD JEWELLERY BUYERS

CHUNILAL & CO.—17-19, Dhanji Street, Bombay 3. Phone: 29991.

OPTICIANS

Artbangle Private Ltd.—204, Dr. Dadabhai Naoroji Road, Bombay 1.
Ballwalla & Homi Ltd.—365, Hornby Road, Fort.
Bharat Optical Company.—Kalbadevi Road, 366/68, Ibrahim Mansion, Bombay 2.
Darbar Singh & Sons.—166, Hornby Road, Fort.
F. C. Whitten and Co.—227, Hornby Road, Fort, Bombay 1.
Ghaswala, Dr. K. S., L.M.&S.—Dr. Ghaswala's Eye Hospital, "Edena," 105, Queen's Road.
Hatim Brothers.—302, Abdul Rehman Street.
Helms-Optics.—Qualified German Sight Testing Opticians, 8, Esplanade Mansions, Fuller Road, Fort, Bombay 1.
Homi & Co.—Dhootpapeshwar Prasad, Girgaum Road, Bombay 4.
Kataria Optical Factory.—104, Clarke Road, Jacob Circle, Bombay 11.
Lawrence & Mayo (India) Ltd.—274, Hornby Road, Fort.
Lund & Blockley.—Sassoon Institute Building, 150, Mahatma Gandhi Road, Fort.
Mansukhlal & Co.—356, Kalbadevi Road.
MARVIN & CO.—3, Modi Chambers, Kennedy Bridge, Bombay 4. Phone: 40448. Grams: "VINMAR". Factory: Pipe Road, Kurla. Manufacturers of Optical Hinges—Side Wires & Metal Frames.
MONTEX CORPORATION.—Yusuf Building, Mahatma Gandhi Road, Fort, Bombay 1. Manufacturers of Spectacle Frames & Lenses.
Patson Ocularium.—2, Regal Cinema Building, Apollo Pier Road, Fort, Bombay 1.
Patel, Dr. V. K., F.S.C.O., D.O., M.O. (Jena, Germany).—2, Regal Cinema Building, Apollo Pier Road, Fort, Bombay 1.
Phillips & Co.—Waterloo Mansion, Mayo Road, Fort.
PHIROZE M. DASTOOR & CO.—Next to Eastern Bank Ltd., opp. Flora Fountain, 370, Hornby Road, Fort.
P. S. SHRODKAR & SONS.—Ranade Road, Dadar.
R. C. GHOSE & SONS.—329-B, Kalbadevi Road, Bombay 2. Phone: 30330. H.O.: Calcutta.
REMEDIOS OPTICIANS.—Oculists and Opticians. 255, Dr. Dadabhoy Naoroji Road (Hornby Road), Fort, Bombay.
TAKANDAS N. KATARIA.—Showroom: 323-325, Abdul Rehman Street, Bombay 3.

OVERHEAD LINE MATERIALS.

EVERGREEN CORPORATION.—Gopal Nivas, Lohar Street, P.O. Box No. 2733, Bombay 2. Phone: 26891. Grams: "IMPTUBE." Electrical Poles, Stay Rods, Wires, High and Low Tension Insulators, Joints, Arms and other Electrical Goods.

OXYGEN AND GAS FACTORIES

Bombay Gas Co., Ltd.—Empire House, 214, Dr. Dadabhoy Naoroji Road (Hornby Road).
Chapman & Co., K.—Opp. Marwari Vidyalaya, Sandhurst Road.
Indian Oxygen Ltd., The.—Ghatkopar. (Bombay-Agra Road), Bombay. Phone: 67941 (4 lines). Grams: "INDOXCO".
Lightfoot Ice & Cold Storage Co.—Hansraj Lane, Byculla Bridge.
Sirdar Carbolic Gas Co., Ltd.—Connaught Road, Mazagaon.

PACKING

Artytoys.—Sir Ratan Tata Road, Tardeo, Bombay 7.

Arvinda Trading Co. Private Ltd.—105, Apollo Street, Fort.

JAYANT PAPER BOX FACTORY.—People's Building, Sir Phirozshah Mehta Road, Fort, Bombay 1. Phone : 262805. Grams : "FIBREBOX". Manufacturers of corrugated boxes, Stripping Containers, Cartons, Round fancy boxes and corrugated papers & Boards, etc. Factory : Jayant House, Bail Bazar, Andheri, Agra Road, Kurla. Phone : 67424.

Jaydip & Co.—Sambava Chambers, Sir Phirozshah Mehta Road, Fort, Bombay.

KADRI PAPER BOX FACTORY.—Noor Manzil, Mohamedali Road, Bombay 3. Phone : 27656. Plain and Fancy boxes of every size & description with Printing if required.

LESLIE, E., & CO.—Botawalla Building 7-10, Horniman Circle, Fort, Bombay. Professional Packers, Customs Licensed Shipping, Forwarding, Passenger Insurance & Warehousing Agents. Phone : 255540, Grams : "RITTA."

MANIAR BROS.—6th Duncan Road Cross Lane, Bombay 8. Phone : 41718. Grams : "RAOOF". Suppliers of paper Shavings (Trimmings) used in packing Wooden or Cardboard Boxes & Cases.

New Jack Printing Works.—Seksaria Mills Compound, Globe Mills Passage, off DeLisle Road, Bombay 13. Phones : 60042-43. Grams : "NEWJAKPRES."

New Pack Industries.—Lotus House, 334, Marine Lines, Bombay 1.

Packers (India) Co.—Packing Consultants and Packing Material Suppliers. Manufacturers' Representatives. 34-38, Hamam Street, Fort. Phone : 252019. Tel. Address : "Packwell."

Reliance Trading Co.—25-47, Lohar Street, Bombay 2.

Ryland Paper Box Manufacturing Co. (Box Manufacturers and Carton Boxes manufacturers, Lakhani Building, 34, Cawasji Patel Street, Fort, Bombay 1.

Standard Paper Box Manufacturing Co.—51, Mangaldas Road, Lohar Street, Bombay 2.

PACKING CASES

Artytoys.—Sir Ratan Tata Road, Tardeo, Bombay 7.

Brijmohan Banwarilal.—61, Reay Road, Mazagaon, Bombay 10.

GODSE & COMPANY.—Sitaram Bldg., Palton Road, Bombay 1. Phone : 261892. Manufacturers of Wooden Boxes to Customers' requirements.

GULAMALLI SUJAUDIN & CO.—18 26, Sarang Street, Bombay 3. Phone : 28782. Leading Manufacturers of Wooden Boxes.

HINDUSTAN TIMBERS.—Saraf Saw Mills Compound, Ghorupdeo Cross Road No. 1, Reay Road, Bombay 10. Grams : "HINDTIMBER." Phone C o 74658. Manufacturers of all Types of packing Cases, Stockists of Himalayan Timbers i.e. FIRPINE, CHIRPINE, DEODAR, etc.

Indian Commercial Agency.—Regd. Office : Nasir Palace, opp. Dockyard Railway Station, Mazagaon, Bombay 10.

Northern India Timber Corp.—63, Reay Road Bombay 10.

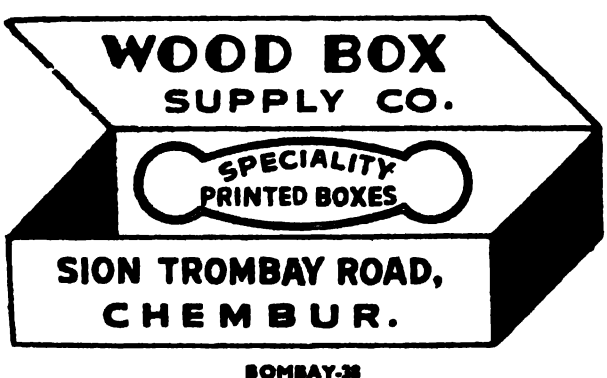
Packers (India) Co.—34-38, Hamam Street, Fort, Bombay.

Plastic Extruders Private Ltd.—204, Dr. Dadabhai Naoroji Rd., Fort, Bombay.

PODAR SAW MILLS.—61, Reay Road, Bombay 10. Phone : Office : 42293. Resi. 60144.

Sizing Materials Co., Ltd.—Jeroo Building, 137, Mahatma Gandhi Road, Fort.

TRAVANCORE TRADING CORPORATION, THE.—R. C. Church Compound, Opp. Tata Mills, Dadar Road, Bombay 14. Phone : 60518.



PACKINGS AND JOINTINGS

ABDEALLY, B. M., & CO.—127, Sarang Street, Bombay 3. Phone : 29990. Grams : "ALERTDEAL."

AMIRUDDIN SHALEBHOY TYEBJEE & SONS.—Shale Building, 2nd Floor, Bank Street, Fort, Bombay 1.

Desai Tube & Hardware Mart.—41, Nagdevi Cross Lane, Bombay 3.

MEHTA NANAVATI & CO.—96, Narayan Dhuru Street, Bombay 3. Phone : 39545. Grams : "REDJOINT."

R. Mohanlal & Co.—38, Bibijan Street, Bombay 3.

SHALEBHOY TYEBJEE & SONS.—12, Bruce Street, Fort, Bombay 1. Phone : 252357. Grams : "ROTATOR."

PAINTING CONTRACTORS

Cooper & Co.—53, Abdul Rehman Street, Bombay 3.

DAVAR, N. CO.—Calcutta National Bank Building, Sir Phirozshah Mehta Road, Bombay. Phone : 26-1880. Interior Decorators and Painting Contractors. Show Room : Hampton Court, Woodhouse Road, Colaba, Bombay 5.

Fleming John & Co., Private Ltd.—P.B. No. 76, Bombay 1. Phone : 261153.

KAPADIA BROTHERS.—81, Abdul Rehman Street, Bombay 3. Phone : 29108. Grams : "DECORATORS." Paint Merchants & Painting Contractors, Chief Stockists of 'Noble Paints'.

MANCHERSHA, S. & CO.—Certified Painting & Decorating Contractors of Messrs. JENSON & NICHOLSON (India) Ltd., Navsari Chambers, Outram Road, Fort, Bombay 1. Phone : 26-2373.

MARKER, S. D., & CO., PRIVATE LTD. (ESTD. 1901).—381, Dr. Dadabhoy Naoroji Road, Fort, Bombay. Phone : 253236. Grams : "MARKERCOY". Interior Decorators & Painting Contractors.

More & Co., S.—34/38, Hamam Street, Fort, Bombay 1. Phone 21019. For quality painting of Flats, Bungalows, Factories, Mills, Hotels, Palaces. Also Decorators, Sign Makers, Displays, Shop Fronts, for last 25 years.

Vibgyor (India) Private Ltd.—143, Mahatma Gandhi Road, Fort, Bombay.

WAKEFIELD PAINTS PRIVATE LIMITED.—'Dhan-Nur', 15 16, Sir Phirozshah Mehta Road, Fort, Bombay 1 (India) Grams : "WAKEPAINT." Phone : 264061.

PAINT TESTING MACHINERY

Bakubhai Ambalal Private Ltd.—Willte Road, Bombay 1

PIONEER EQUIPMENT CO. PRIVATE LTD.—139, Medows Street, P.O. Box 1909, Bombay 1. Phone : 25-1882. Also at 1, Mangoe Lane, Calcutta 1. Phone : 231611 and 193, Mount Road, Madras 2. Grams : "PIOMETAL." Agents for A. M. Erichsen & Sons, SKI, Oslo, Norway.

PAINTS, ENAMELS AND VARNISHES

Abdeally, B. M., & Co.—127, Sarang Street, Bombay 3.

Abdeali Mohamedali Rangwala.—148 Nagdevi Street, Bombay 3.

Adamally Kikabhai Rangwalla.—309, Shaik Memon Street, Bombay 3.

Addisons Paints & Chemicals Ltd.—Huzur Gardens, Sembiam Madras 11. Distributors for Bombay, Maharashtra and Saurashtra Messrs. Amzel Ltd., Lotus House, Marine Lines, Bombay.

Advance Paints Ltd.—125, Medows Street, Fort.

Ahmed Moosa Motiwalla & Sons.—Tank Road, Parel.

Ahmed Oomerbhoy.—Two Tanks, Grant Road.

Akbarally Sharfally Zaveri.—25, Ebrahim Rahimtoola Road, Bombay 3.

ALLIED TRADING CO.—Importers and Stockists of all kinds of Enamel, Lacquer, Varnishes, etc. 39, Nagdevi Street, Bombay 3. Phone : 30180. Grams : "LINSEEDOIL." Also importers of Spray Painting Equipment and Guns.

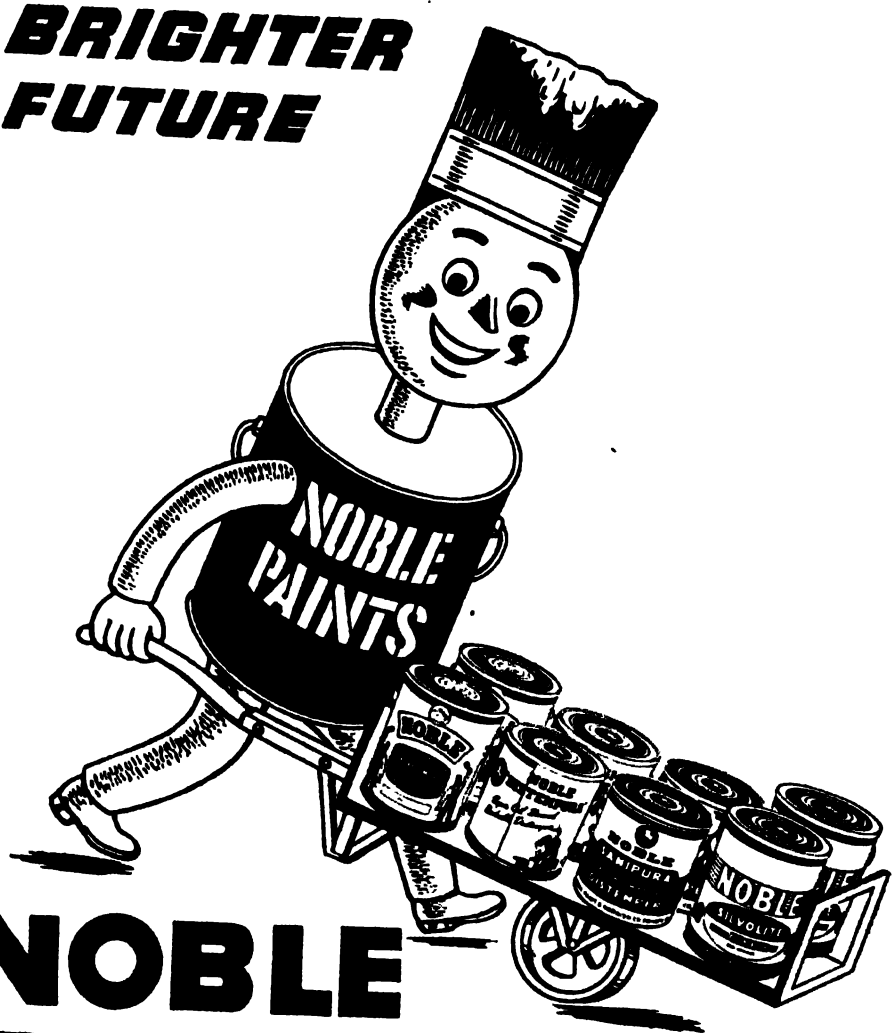
AMIRUDDIN SHALEBHOY TYEBJEE & SONS.—Shale Building 2nd Floor, Bank Street, Fort, Bombay 1.

Amritlal & Co., Ltd.—Sprott Road, Ballard Estate, Fort.

AMZEL PRIVATE LTD.—Love Lane, Byculla, Bombay 27. Distributors for Bombay Proper for Sparton Paint Products Manufactured by Addisons Paints and Chemicals Private Ltd., Madras.

ASIAN OIL & PAINT CO. (INDIA) PRIVATE LTD.—Das Chambers, Dalal Street, Fort, Bombay 1. Manufacturers of Quality Paints, Varnishes, Enamels, Brushes, etc., etc. Phones : 258971-2-3. Grams : "REDLEAD," Bombay.

TO A BRIGHTER FUTURE



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Gobhai Phone : 73123/4. BOMBAY 13. Grams : "NOBLEPAINT"

BAKER BROTHERS.—31, C. P. Tank Road, Bombay 4. Phone: 78821. Grams: "BAKERCOLOR." Paints, Enamels, Varnishes, Plastic & Cellulose Lacquers, Thinners & Fine Chemicals and their Thinners.

BAKER, M., & CO.—35, Nagdevi Street, Bombay 3. Phone: 34212. Paints, Varnishes, Enamels, Lacquers, Thinners, Dry Colours, Abrasives, Polishes, Brushes, Sprayers and Respirators.

Bassein Paint & Varnish Co.—Magazine Street, near Reay Road Station, Mazagaon.

Beardsell, W. A., & Co., Ltd.—15-16, Sir Phirozshah Mehta Road, Fort.

BOMBAY PAINTS & ALLIED PRODUCTS PRIVATE LTD.—248, Ripon Road, Bombay 8. Phone: 74069. Grams: "KANGAROO". Manufacturers of 'Kangaroo Brand' Paints and Varnishes, Distempers, Enamels and all kinds of Industrial paints.

BRIGHT & CO. PRIVATE LTD.—18, Commercial Chambers, Masjid Bunder Road, Bombay 2. Factory: Saki-Vihar Road, Kurla, Bombay 3. Phone: 86615 (Factory). Grams: "PAINTMAKER". Manufacturers of all kinds of Paints, Enamels, Distempers, Varnishes, Lithographic & Paper Varnishes, Linseed oils, etc.

British Paints (India) Ltd.—Steelcrete House, Dinsha Vachha Road, Bombay 1. Phone: 37837. Grams: "BRITPAINTS".

CHEMIDYE TRADING CO., LTD.—Kamer Bldg., Cawasji Patel Street, Fort, Bombay 1. Phone: 251034.

COOPER & CO.—83, Abdul Rehman Street, Bombay 3. Phone: 20708. Grams: 'COOPEROIL". Manufacturers of Paints, Enamels, Varnishes, Distempers, Emulsion Paints & Industrial Finishes.

Corbon Dry Colour Works.—115, Nagdevi Street, Bombay 3.

Dadajee Dhackjee & Co., Ltd.—Shree Pant Bhuwan, Sandhurst Bridge.

DAVUR INDUSTRIES.—Manufacturers of fine quality ships compositions, paints for all purposes and Paint-o-lar Roller Brushes. Contractors for the supply of all classes of labour, skilled and unskilled. Estimates given for painting vessels in Dry Docks and for executing work of every description pertaining to vessels. Also manufacturers of world famous "Davur's Salad Oil", Dehydrated Castor Oil (for Paint Industries). Exporters and Importers. Office: 37, Frere Road, Bombay 9. Phone: 39158. Grams: "DIPAINT." Branch: Calcutta. Phone: 241937 and 227747.

D. Walker & Sons.—Prospect House, New Bhatwadi, Sandhurst Road, Bombay 4.

Edgar Handley & Co.—Seksaria Chambers, 139, Medows Street, Fort.

ELEPHANT OIL MILLS PRIVATE LTD.—Rustom Building, Churchgate Street, Fort, P.O. Box 663, Bombay. Grams: "BLUNTRIPP." Phone: 251246 (2 Lines).

Elphinstone Paint & Colour Mfg. Co.—50, Elphinstone Road, Bombay 13. Phone: 82970 Grams: "EPCOPAINT". Manufacturers of high class "EPCO" brand enamel paints, stiff paints, oil bound distemper, varnishes, etc.

FINLAY JAMES & CO. LTD.—Chartered Bank Bldg., Mahatma Gandhi Road, Fort, Bombay 1. Agents for Bombay State for P. C. Chanda & Co., P. 2. Mission Row Extension Calcutta 1.

Fleming, John & Co., Private Ltd.—Sukhadwala Building, 21, Bastion Road, Fort.

Flintrock Products Ltd.—Belvedere Hill Road, Mazagaon. Phone: 40794. Grams: "CLAY"

Garlick's Products & Paints Mfg. Co.—Haines Road, Jacob Circle.

Gillanders Arbuthnot & Co., Ltd.—16, Queen's Road Estate, Bombay 1.

GOODLASS NEROLAC PAINTS PRIVATE LTD.—Forbes Building, Home Street, Fort, Bombay 1. P.O. Box 699. Grams: "GOODLASS."

Goolamally Dawoodbhoy & Co.—23, Mangaldas Road, Princess Street, Bombay No. 2. Phone No. 30422.

Great Eastern Trading Co.—107, Cowasji Patel Street, Fort.

Hardcastle, Wand & Co., Ltd.—Alice Building, Hornby Road, Fort.

Herman & Mohatta, B. R., Ltd.—People's Building, Sir Phirozshah Mehta Road, Fort.

Holmes & Co., Ltd.—Alice Buildings, Hornby Road, Fort.

Imperial Chemical Industries (India), Ltd.—Imperial Chemical House, Dougall Road, Ballard Estate.

Indianite Insulation Co. of India.—139, Medows Street, Fort.

Ishverdas Jugmohandas & Co.—Mubarak Manzil, Apollo Street, Fort.

Jenson & Nicholson (India), Ltd.—Mackinnon Mackenzie Building, Ballard Estate, Bombay.

Kalapi Colour Trading Co.—42, Dadysheth Agiary Lane, near G.T. High School, Bombay 2.

Kanthawala, N., & Co.—77, Medows Street, Fort.

KAPADIA BROTHERS.—81, Abdul Rehman Street, Bombay 3. Phone: 29108. Grams: 'DECORATORS'. Paint Merchants & Painting Contractors. Chief Stockists of 'Noble Paints.'

MACFARLANE & CO., LTD.—34, Lamington Road (North), Bombay 8.

MACHINERY PAINTS & CHEMICALS (INDIA) LTD.—143, Mahatma Gandhi Road, Bombay No. 1. Post Box No. 1406. Grams: "MACHPAINTS." Phone No. 27755. Works: Mogra, Andheri. Manufacturers of Enamels, Paints, Varnishes, Lacquers, Distempers, Dry Colours, Insulating materials, and Waterproofing compound, etc.

MAGANLAL JETHALAL & CO.—126, Nagdevi Street, Bombay 3. Phone: 23804. Estd. 1916. Importers and Dealers in Paints, Varnishes and Artist's Brushes, Ultramarine Blue, 'Fluoresco' and Fluorescent Colours. Stockists of E. O. M. Products.

Mahomedbhoy Abdulhusein & Bros.—Opp. Ram Mandir, Nagdevi Street.

MARVIN & CO.—3, Modi Chambers, Kennedy Bridge, Bombay 4. Phone: 40448. Grams: "VINMAR". Stockists of 'Duco', 'Dulex', Necol Paints & Thinners. Sole Agents for Scarlet Colour & Chemical Works.

McKenzies Ltd.—Sewri.

Mehta, H. M., & Co.—Mehta House, 79-91, Apollo Street, Fort

Mercury Paints & Varnishes, Ltd.—28, Apollo Street, Fort.

MERMAID PAINTS PRIVATE LTD.—Alice Building, 339, Dr. Dadabhai Naoroji Road, Fort, Bombay 1. Phone: 255771. Tel Address: "WAUDCO." Manufacturers of "MERMAID" and "CHAKRA" Brand Paints for all purposes, Painting Inks and Varnishes, etc.

Motor & General Stores Supplying Co.—Kothare Mansion, opp. G.P.O., Fort.

Munshi & Co.—48-A, Abdul Rehman Street, Bombay 3.

Nanavati & Co., Ltd.—16, Apollo Street, Fort.

Narotamdas & Co.—179-A, Abdul Rehman Street, Bombay 3.

National India Engineering Co., Ltd.—7-10, Elphinstone Circle, Fort.

Nazarally Mulla Jivaji & Co.—116, Musjid Bunder Road.

Nazarally Samsoodin & Sons.—283, Sheikh Memon Street.

New Era Paint Works.—Opp. Byculla Station, Byculla.

New Mahaluxmi Oil Mills.—37, Frere Road, Bombay 9.

Noble Paint & Varnish Co. Private Ltd.—Fergusson Road, Lower Parel, Bombay 13. Phone: *Office*: 261153. *Factory*: 42563

Omerods (India) Ltd.—Bank of Baroda Building, Apollo Street, Fort, P.O. Box No. 410, Bombay.

Pallonji, M., & Co.—87, Abdul Rehman Street.

PARAMOUNT PAINT INDUSTRIES.—Jyoti Studio, Kennedy Bridge, Bombay 7. Factory: Andheri-Kurla Road, Bombay 41. Phone: 86763. Manufacturers of Paints, Enamels, Varnishes Oils and Industrial Stoving Enamels etc.

Pioneer Magnesia Works, Ltd., The.—Mahatma Gandhi Road, Fort.

Porbunderwalla, A. K., & Sons.—Ruby Mansion, 90-92, Parsi Bazar Street, Fort.

Premier Acid & Chemical Co.—12, Mirza Ally Street, Imamwada Road, near Bhendi Bazar.

Raimugia & Co.—35, Parakh Street, Sandhurst Road, Bombay 4.

RAJKAMAL SUPPLYING STORES.—286, Abdul Rehman Street, Bombay 3. Grams: "RAJPAINT." Direct Importers and Stockists of Paints, Dry Colours, Brushes and Artist Materials.

Ratanji, H. J., & Co.—Shapur House, 114, Cawasji Patel Street, Fort.

Real Paint & Hardware Mart.—106, C. P. Tank Road, Bombay 4.

Saiebhboy Tyebbhoy & Co.—Tyebji Building, 98, Nagdevi Street, Bombay 3.

SHALIMAR PAINT, COLOUR & VARNISH CO. PRIVATE LTD.—Agents: Turner, Morrison & Co. Private Ltd., 16, Bank Street, Fort, Bombay 1. Phone: 261221 (7 Lines).

Shaw Wallace & Co., Ltd.—6, Wittet Road, Ballard Estate.

Shivchand Amritlal & Co., Ltd., B.—Fort Chambers, Hamam Street, Fort.

Shivji Lavji & Co.—139, Khadak.

STAR PAINT & OIL INDUSTRIES.—Crescent Chambers, Tamarind Lane, Bombay 1. Mfrs. of Industrial & Marine Paints & Synthetic Enamels. Specialists in "SILVO" Aluminium Paint: Multi-purpose, Roof-top, High Temperature Heat Resisting upto 1000° F. & Rubberex Rubber Paint (For Chemical Resisting). Grams: "STARPAINT." Phone No. 253493.

Tyebally Dawoodbhai Rangwalla.—29, Kika Street, Bombay 4.

Turner, Morrison & Co., Ltd.—16, Bank Street.

UNITED COLOUR COMPANY.—(Mfg. Divn. Ramson Paint Mfg. Corp.). Manufacturers of 'RAMSON' Nitrocellulose Lacquers, Synthetic Enamels, Industrial Finishes and Auxiliaries. Kastur Niwas, 26/A, French Road, Bombay 7. Phone: 73862. Grams: 'STEPONIT'. Factory at Thana. Phone: 64/1122, Thana.

Wakefield, C. C., & Co., Ltd.—Walkeshwar Road, Malabar Hill, Bombay.

WAKEFIELD PAINTS PRIVATE LIMITED.—'Dhan-Nur', 15 16, Sir Phirozshah Mehta Road, Fort, Bombay 1 (India). Grams: "WAKEPAINT". Phone: 264061. Manufacturers of "Synolac" Synthetic Enamels, Plastic Emulsion Paints and Industrial Finishes.

Wallace, P. B., & Sons Ltd.—Elphinstone Building, 10, Churchgate Street, Fort.

WILLIAM JACKS & CO., LTD.—Hamilton House, Graham Road, Ballard Estate, Bombay. Distributors for the States of Bombay and Rajasthan for Hoyle's Paints Ltd., Calcutta. Paints, Varnishes, Enamels, Decorative and Industrial Finishes.

ZENITH VARNISH WORKS (ESTD. 1927).—11, Dhobi Street (Near Zakaria Masjid), Bombay 3. Phone: 30059.

PAPER & BOARD MILL MACHINERY MFRS. & SUPPLIERS

Kilburn & Co. Private Ltd.—Graham Assurance House, Sir Phirozshah Mehta Road, Bombay.

WILLIAMS G. & CO., PRIVATE LTD.—Steelcrete House, 5th Floor, Sir Dinshaw Vachha Road, Backbay Reclamation, Bombay 1. Phone: 36952. Grams: "BLANWIRE".

PAPER MERCHANTS

Abdul Latif Habibbhoy & Sons.—196, Abdul Rehman Street.

Advani, J. B., & Co., Ltd.—Advani Chambers, Top Floor, Sir Phirozshah Mehta Road, Fort.

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Akbarally Abdulhusain & Co.—19, Sutar Chawl, Bombay 2.

Akbarally Sharafally Zaveri.—25, Ibrahim Rahimtulla Road, Bombay No. 3.

ALLIES TRADING CORPORATION.—37, People's Building, Sir Phirozshah Mehta Road, Fort, Bombay 1. Grams: "NON-CURLING." Phone: 26-4327.

Ambalal Dharamchand & Co.—1, Esaji Street, Vadgadi, Bombay 3. Phone No. 32541.

Amritlal, K., & Co.—27-29, Mirza Street, Parsi Galli.

Arvinda Trading Co., Ltd.—105, Apollo Street, Fort.

Asiatic Paper Company.—56, Sutar Chawl, Bombay 2.

ASOK BROTHERS PRIVATE LTD.—104, Apollo Street, Fort. Phone: 254329. Grams: "ASOKBROS". Importers of all sorts of Paper and Boards.

Associated Agencies (Bombay).—47, Podar Chambers, Parsi Bazar Street, Fort.

Balmer Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate, Bombay 1.

Bansi Dhar Kapoor & Sons.—73-75, Mirza Street, 3rd Floor, Bombay 3.

Beardsell, W. A., & Co., Ltd.—15-16, Sir Phirozshah Mehta Road, Fort.

Bharat Paper Mart.—51, Sutar Chawl, Bombay 2.

Bhargava & Co., K. C.—P. Box No. 19, Bombay 1.

BOMBAY PAPER MARKETING CO., THE.—Podar Chambers, Parsi Bazar Street, Fort, Bombay 1. Phone: 38568. Grams: "PAPERCO".

Bombay Stationery Mart.—7-A, Sir Phirozshah Mehta Road, Fort.

Bombay Trading Co.—"Dhun-Nur," Sir Phirozshah Mehta Road, Fort.

Bombay United Agencies, Ltd.—21, Western India House, Sir Phirozshah Mehta Road Fort.

Cama, Norton, & Co.—23, Medows Street, Fort.

Chalasani & Co.—Noble Chambers, Parsi Bazar Street, Fort.

CHAMPAKLAL LALWANI & COMPANY.—Importers of Metals and Exporters of Iron and Manganese Ore. Bombay 3. Phone: 22103. Grams: 'OREMINES."

CHANDULAL & CO.—100, Dhanji Street, Bombay 3. Phone: 39878. Grams: "PRATAPBOND". Paper Merchants.

Chhaganlal Keshavjee.—22-A, Parsi Bazar Street, Fort.

Chimanlal & Co.—38-42, Shamsett Street, Bombay.

CHIMANLAL PAPER COMPANY.—Importers of High Grade Papers, Boards and Mill Representatives, Bombay Mutual Building, Dr. Dadabhoy Naoroji Road, Fort. Grams: "SELECTION." Phones: 263232 and 86260 (Residence).

Crystal Stationery Mart.—109, Dhanji Street, Bombay 3.

C. T. Mehta Bros.—Noble Chambers, Parsi Bazar Street, Fort, Bombay 1.

DALMIA SALES AGENCIES.—51, Podar Chambers, Parsee Bazar Street, Fort, Bombay 1. Phones: 253113 & 255167 Grams: "PANQUICK". Sole distributors for 'KRAFT' Paper for Bombay & Saurashtra—Manufactured by Messrs. Rotas Industries Ltd., Dalmianagar.

Deccan Paper Mart.—52, Mirza Street.

Dhanjit Paper Corporation, The.—P. O. Box No. 1134, Bombay.

Dharia, B., & Co.—Sutar Chawl, Bombay 2.

DICKINSON JOHN & CO., LTD.—Kumpta Street, Fort. Paper Makers, Manufacturing Stationers and Printing Material Merchants. Phone: 26-3386 (2 Lines). Grams: "LION-BRAND."

Dilaj & Co.—20, Hamam Street, Fort.

EAST INDIA PAPER CO.—People's Building, Sir Phirozshah Mehta Road, Fort, Bombay 1. Phones: 262301 & 264069. Grams: "INDIAPRINT". Importers of all varieties of papers and sole distributors of the BALLARPUR Paper & Strawboard Mills Ltd., for Bombay, Bengal & Assam. Branches at: Calcutta, Ahmedabad & Poona.

EAST & WEST TRADING CO., THE.—Advani Chambers, 4th Floor, Sir Phirozshah Mehta Road, Fort, Bombay 1 (India). Grams: "BARRAGE." Phone: 264097-98-99. Sole Prop.: T. J. Lalvani. Branches: 822, Govindappa Naicken Street, G. T. Madras. Grams: "COLORPRINT." Phone: 88213.

Eastern Paper Co., Ltd.—No. 44, Sutar Chawl.

Elof Hansson Agency Ltd.—Adelphi House, 3, Queen's Road, Bombay.

Empire Traders.—Stationers, Printers & Paper Merchants, 18, Hassan Chambers, Parsi Bazar Street, Fort.

Fatehi Bros.—General Paper Merchants, 101, Abdul Rehman Street, Post Box No. 3049, Bombay 3.

Fidahoosein Shamsoodin & Sons.—15-17, Mirza Street, Parsi Gully, Bombay 3.

FRIENDS PAPER STORES.—289, Abdul Rehman Street, Bombay. Grams: "HEADPAPER".

GANDHI, R. K., & CO. (Estd.: 1930).—Aga Khan Building, Dalal Street, Fort, Bombay. Phone: 255684. Grams: "BOARD-PAPER." Agents for Messrs. Storza & Bull Ltd., Oslo, Norway. Indent Orders for all kinds of Paper and Boards invited. Scandinavian Paper our Speciality.

Getz Bros. & Co.—Western India House, Sir Phirozshah Mehta Road, Fort

Great Eastern Trading Co.—107, Cawasji Patel Street, Fort.

HARBO TRADING SYNDICATE.—Prospect Chambers Annexe, Dr. Dadabhoy Naoroji Road, Fort. Phone: 252719. Grams: "HARBOSYN."

Hardcastle, Waud & Co., Ltd.—Alice Building, Hornby Road.

Haveliwala Paper Mart.—"Zainab House," 34-36, Mirza Street, Bombay 3.

HIMATLAL & CO.—Importers and Manufacturers' Representatives. Representing in India, Pakistan and Ceylon. The Nationalised Paper Industries of German Democratic Republic. Head Office: 26, Noble Chambers, Parsi Bazar Street, Fort. Phone Nos. 255663 and Residence: 61596. Grams: "HIMSHAH." Branches: Calcutta and Madras.

Hoosein & Bros., M. A.—Lakshmi Building, Sir Phirozshah Mehta Road, Fort.

India Paper Corporation.—64, Sutar Chawl, Bombay 2.

INDSALES (INDIA) PRIVATE LIMITED.—2, Mherwan Bldg., Sir Phirozshah Mehta Road, Fort. Cables: "INDSAL." Phone: 253421.

Indulal & Co.—Motilal Mansion, 11, Tamarind Lane.

International Impex Corporation.—18, Motilal Jamnadas Building, 64, Sutar Chawl, Bombay 2. Phone 23566 Grams. "INTIMEX-COR."

International Paper Co.—26, People's Building, Sir Phirozshah Mehta Road, Fort.

JAI DAYAL KAPUR.—(Distributors for Shree Gopal Paper Mills Ltd., Jagadhari), 8, Mirza Street, Bombay. Phone: 39567. Grams: "JAIKAPSO." Branches: Delhi, Lucknow and Madras. (N.B.—Madras and Lucknow Offices are the Distributors for "Bellarpur Paper and Strawboard Mills Ltd." for South India and Lucknow respectively.)

JAI DAYAL KAPUR & SONS PRIVATE LTD.—8, Mirza Street, Bombay 3. Phone: 39567. Grams: "JAIKAPSO." Paper Merchants and Stationers. Head Office: Chawri Bazar, Delhi 6. Branches: Madras, Kanpur, Lucknow and Amritsar.

James Finlay & Co., Ltd.—Mahatma Gandhi Road, Bombay 1

Kanthawala, N., & Co.—77, Medows Street, Fort.

K. C. Bhargaur & Co.—Post Box No. 19, Bombay. Post Box No. 247, Delhi

Kikabhoy Chandabhoy.—33-35, Mangaldas Road, Bombay 2. Phone: 24601. Grams: "Creamlaid."

Kilburn & Co. Private Ltd.—Gresham Assurance House, Sir Phirozshah Mehta Road, Bombay.

Kimex (India) Ltd.—47, Tamarind Lane, Fort, Bombay

KOSMOS PAPER STORES.—87-A, Khadilkar Road, Bombay 4. Phone: 71901. Grams: "KOSMOSPAP." Importers of Paper and Boards.

Lalit Bros.—84, Bora Bazar Street, Fort. Papers & Boards of all Grades

MAEVY & COMPANY.—Nawab Building, 4th Floor, 327, Hornby Road, Fort, Bombay. Phone: 253235.

Mahesh Paper Mart.—56-58, Dhunji Street, 2nd Agiary Lane, Bombay 3. All kinds of Paper, Boards & Printing Trade Accessories Grams: "MANTHAN" Phone. 27691.

MAHOMEDALLY HEBATBHOY & CO.—15, Mirza Street, Bombay 3. Dealers in all kinds of Indian Papers, Stationery and Strawboard, Printing Inks, etc. Phone: 22324. Grams: "TAHERI."

MAKERS PRIVATE LTD.—89, Forbes Street, Fort, Bombay 1. Phone: 253090. Grams: "LARGEFIELD."

MANSUKHLAL SUKHLAL & CO. (Estd. 1923)—Ghoga Street, Fort, Bombay. Direct Importers of Paper, Boards and Stationery. Phone No. 254247. Grams: "PADDY."

Model Art Printery Ltd.—4, Nanabhai Lane, off Churchgate Street, Fort.

Mohamedali Abdulhusein.—83, Mirza Street, Bombay 3. Phone: 27586 Grams: "Mohsein."

MULTANI PAPER MART.—302, Kalbadevi Road, Bombay 2. Shop: 29, Sutar Chawl, Bombay 2. Phones: 34576 & 23706. Grams: "BRASIN."

Navyug Paper Stores.—120, Dhunji Street, Bombay.

New India Stationery Mart.—9, Hummum Street, Fort.

Noble Paper Mart.—Hassan Chambers, Parsee Bazar Street, Fort, Bombay.

Noble Stationery Mart.—Parsee Bazaar Street, Fort, Bombay.

N. V. Kelkar & Co.—1st Floor, Sardar Griha, Bombay 2.

Ochavlal & Bros.—62, Sutar Chawl.

Oriental Paper Co.—Windsor Chambers, Cowasji Patel Street, Fort.

PARDIWALA PAPER MART.—382, Parsi Bazar, Fort. Phone: 251444. Grams: "PAPERMART." The Popular House for Paper, Boards, Inks, Printing Materials and Book Binding Cloth.

Patel, B. K., & Co.—106, Medows Street, Fort.

Patel Paper Mart.—Kanbai Bhuvan, opp. Hira Baug, Kandewadi.

Pavri Sons & Co.—95-97, Bazar Gate Street, Fort.

Phulchand & D. Sethia & Co.—38, Marwadi Bazar, Bombay 2.

P. KIRPALANI & CO.—Bulakidas Building, 11, Vithaldas Road, Bombay 2. Phone: 20497. Grams: "CROMOPAPER."

Prabhat Trading Company.—Vithal Sayana Building No. 2, Lohar Chawl, Bombay 2.

Praful Paper Mart.—54, Sutar Chawl, Bombay 2.

PRAHLADRAI DALMIA & SONS.—81, Podar Chambers, Parsee Bazar Street, Fort, Bombay 1. Phone: 253113 & 255167 Grams: "PANQUICK." Authorised distributors for papers & boards Manufactured by Rothas Industries Ltd., Dalmia-nagar.

PROVINCIAL PAPER CO.—Jawahar Mansion, Thakurdwar Road, Bombay 2. Phone: 28302. Grams: "BOTTOM-RATE." Importers—Papers—Boards, etc.

Ratilal P. Mehta & Co.—65, Sutar Chawl, Bombay 2.

R. B. Shivdasani & Co.—73, Bombay Mutual Building, Hornby Road, Fort, Bombay 1.

R. Gulamhusen & Bros.—41-43, Mirza Street, Parsi Gully.

R. Kantilal & Co.—Zaveri Bhuvan, 2nd Agiary Lane, Parsi Gully, Bombay 3.

ROHITKUMAR & CO.—272, Sheik Memon Street, Hira Bldg., Zaveri Bazar, Bombay 2. Phone: 20363. Grams: "CEL-LEPHONE." Stockists of Paper, Boards and all kinds of Packing Papers.

Rowlandson Bros. (Estd. 1927).—Podar Chambers, Parsee Bazar Street, Fort, Bombay.

Royal Paper Stores, The.—187-89, Abdul Rehman Street, Bombay 3.

S. Kumar & Co.—People's Buildings, Sir Phirozshah Mehta Rd., Fort, Bombay 1.

Sales Corporation.—110/112, Dhanji Street, Bombay 3. Phone 21589 Grams. "SALESCO."

SCANFENNIA PAPER CO., (BOMBAY) PRIVATE LTD. 53-57 Lakshmi Bldg., Sir Phiroshah Mehta Road, Bombay 1 Phone: 261931. Grams: "FINSCAN".

Shah & Company.—108, New Citizen Bank House, Parsi Bazar, Fort, Bombay.

Shambhulal A. Shah & Co.—Podar Chambers, Parsi Bazar Street, Fort.

Shantilal Shah & Co.—Bombay Mutual Annexe, 17, Gunbow Street, Fort.

Shree Trading Co.—259, Girgaum Road, Bombay 4.

Spicers (Export), Ltd.—Imperial Chambers, Wilson Road, Ballard Estate.

Standard Paper Co.—72-74, Sutar Chawl.

Subodh Indent Agency.—44, Kumar Villas, Mangalwadi, Girgaum.

SUDHIR & CO.—Papers, Boards and Chemicals Merchants, 248, Samuel Street, Bombay 3. Phone: 22288. Grams: "SPEEDSTEEL."

Sultanali Mohamadali (Estd. 1895).—148, Sarang Street, Bombay.

SUPERIOR STATIONERY MART PRIVATE LTD.—117, Medows Street, Fort. Phone: 25-2396. Grams: "LOVELINESS" Printers and Paper Merchants.

Swastik Paper Mart.—54, Sutar Chawl, Bombay 2. Telephone 24461 and 72516. Grams: "NETWETT."

UNION PAPER STORES.—105, Dhanji Street, Parsi Gulli, Bombay 3. Phone: 29598. Grams: "UNIONPAPER."

United Company.—Peerbhoy Building, 89, Princess Street, Bombay 2. Phone: 26449. Grams: "Typedealer."

United Corporation.—National Indian Life Building, 59, Forbes Street, Fort.

Van Reekum Paper, Ltd.—Shale Building, Bank Street, Fort.

Variety Paper Co.—Maher House, 15, Cawasji Patel Street, Fort, Bombay

Vazirali Ltd.—Prospect Chambers, Hornby Road, Fort.

VICVAS.—Peoples Building, Sir Phirozshah Mehta Road, Fort, Bombay 1. Phone: 261595. Grams: "BIKTOP." Newsprint Specialists—Chief Agents: NEPA Mills.

WIGGINS TEAPE & ALEX. PIRIE (EXPORT) LTD.—Agents in Bombay for Charles Morgan & Co., Ltd., Paper Merchants, Kamani Chambers, Nicol Road. Telegrams: "WINCHMORE." Phone No. 26-1622.

Yacoob Ahmed Brothers.—Topiwalla Mansion, Mohamedalli Road.

PAPER (WASTE)

MANIAR BROS.—6th Duncan Road Cross Lane, Bombay 8. Phone: 41718. Grams: "RAOOF." Dealers in Waste paper, Press cuttings, old Records (Account-Bill books, Letter Files and documents to be destroyed) and all other paper Industry Raw Materials.

P. CARLTON & CO.—Calcutta National Bank Building, 26A, Sir Phirozshah Mehta Road, Bombay 1. Phone: Office: 261880. Grams: "BROADSIDE."

V. K. Stevens & Co.—12th Lane, Khetwadi, Bombay 4.

PEARLS (SIMULATED) MANUFACTURERS

GOLDFILLED MERCANTILE CO.—Premier Manufacturers of Simulated Pearls and Glass Beads. 15, Bastion Road, Fort, Bombay. Phone: Office: 261768. Factory: 86279. Grams: "GOLDFILLER".

PERFORATED METAL SHEETS MFRS.

HARISHCHANDRA & CO., JALIWALA.—233, Abdul Rehman Street, (opp. Sutar Chawl), Bombay 3. Manufacturers of Perforated Metal Sheets of all kinds, and Stockists of MAX-WELD Fabrics, Expanded Metals, Wire Netting of all kinds. On Govt., Railway & Municipal Lists. Grams: "HARIJALI."

PERFUMERS & PERFUMERY RAW MATERIALS

Ahmed, D., & Sons.—Teher Mansion, 10-A, Nepean Sea Road, Bombay 26.

Akbarally Ebrahimji Pharmacy & Department Stores.—45 47, Veer Nariman Road, Bombay.

A Hami Bros.—3, Commercial Chambers, Masjid Bunder Road, Bombay 3.

Allwyns Private Ltd.—92-94, Ardeshir Dady Street, Vithalbhai Patel Road, Bombay 4.

Anand & Co.—Nanjee Building, 4th Floor, 17, Horniman Circle, Bombay 1.

Atul Trading Co.—Sharaf Mansion, 32, Princess Street, Bombay 2.

AROMATIC PRODUCTS & CHEMICALS PRIVATE LTD.—42, Prospect Chambers Annexe, Dr. Dadabhai Naoroji Road, Fort. Phone: 253151. Grams: "DISCOVERY." Stockists of Imported Perfumery, Raw Materials and Manufacturers of Perfume Compounds.

B C Patel & Co.—Deokaran Mansion, Princess Street, Bombay 2.

Bhagat & Sons.—21-23, Shamset Street, Bombay 2.

Bhalchandra Upasani.—338, Samuel Street, P.B. No. 3268, Bombay 3.

Bombay Agarbatti Co.—Simplex Building, Pawwalls Street, near Krishna Cinema, Bombay 4.

Bombay Chemicals Private Ltd.—129, Mahatma Gandhi Road, Bombay 1.

Bombay Perfumery Co.—Devkaran Mansion, Princess Street.

CALCUTTA ESSENCE SUPPLY CO.—Mulchand Mansion, 1st Floor, Princess Street, Bombay 2. Dealers & Importers of Essential Oils. Aromatic Chemicals & Perfumery Compounds. Grams: "SUPRALUX." Phone: 23623.

Chavannes & Co., Private Ltd.—P.B. No. 552, Mercantile Chambers, Graham Road, Ballard Estate, Bombay 1.

Chimanlal Maganlal & Co.—4, Mangaldas Road, Princess Street, Bombay 2.

Chunilal Prabhudas & Co., (Bombay) Private Ltd.—211-12, Himalaya House, Palton Road, Bombay 1.

Colaba Drug Stores.—Namdar Manzil, Colaba Road, Bombay 5.

Coryse-Salome, Paris.—Regal Building, Apollo Bunder.

Dalal Bros.—74, Swadeshi Market, Kalbadevi Road, Bombay 2.

DAVAR, M. C. & CO.—149, Princess Street, Bombay 2. Aromatic Chemicals, Essential Oils and perfumery materials. Agents for Escuiko Ltd. (Flora), Switzerland.

D. D. Shah & Co.—Anees Chambers Annexe, Carnac Road, Bombay 1.

Derby & Co.—P. B. Press Building, 290, Frere Road, Fort.

D. G. Gore.—31, Mangaldas Road, Princess Street, Bombay 2.

East Asiatic Co. (India) Private Ltd.—Wavell House, Graham Road, Ballard Estate, Bombay 1.

Eastern Aromatics.—105, Hindu Colony, 4th Road, Dadar, Bombay 14.

Enamdar Trading Co.—Devkaran Mansion, 63, Princess Street, Bombay 2.

Ethical Products (India) Private Ltd.—Advani Chambers, Sir Phirozshah Mehta Road, Bombay 1.

Eve Fabrics Private Ltd.—Indu House, Dougall Road, Ballard Estate, Bombay.

Fedco Private Ltd.—Mafatlal House, Backbay Reclamation, Bombay 1.

Foreign Scent Supplying Syndicate.—Santa Cruz, Bombay 23.

F. W. Pollack & Co.—11, Oak Lane, Fort, Bombay 1.

General Import Co. (India).—Keshav Baug, 102, Princess Street, Bombay 2.

Gore, D. G.—31, Mangaldas Road, Bombay 2.

Grand Bazar.—25, Colaba Causeway, Bombay 1.

Gujarat Essence Mart.—Keshav Baug, 25, Princess Street, Bombay 2.

Gulab Singh Johrimal.—62-62A, Marwari Bazar, Bombay 2.

G. P. Patel & Co.—Mansoor Building, 98, Princess Street, Bombay 2.

Gupta & Co.—Shroff Mansion, Princess Street, Bombay 2. Manufacturing Perfumers. H. O.: Sadar Bazar, Delhi. Branch: 2-66, Ezra Street, Calcutta 1.

Hami & Co.—Perfumers. Cutlery Market, Jumma Masjid, Bombay 2.

Harrison & Co.—168-170, Cumballa Hill.

Hasanali Kamroodin.—10, Shamset Street, Chippi Chawl, Bombay 2.

Hira, P. H., & Co.—18-20, Princess Street, Bombay 2. Phone: 31289. Grams. "PERFUMES."

H. K. Dyer, C/o Keshavlal Jamnadas.—Tankshal Bhuvan, 3rd Floor, Kalbadevi Road, Bombay 2.

H. M. Zakaria & Bros.—Perfumers, 299, East Sandhurst Road, Bombay 3.

Ina Trading Co.—35, Vithaldas Road, Princess Street, Bombay 2.

International Import Export Co.—Botawala Building, Elphinstone Circle, Churchgate Street, Bombay 1.

Jayantilal & Co., B.—15, Mangaldas Road, Princess Street, Bombay 2.

J. L. Morison Son & Jones (India) Ltd.—Contractor Bldg., Ballard Estate, Bombay.

Kalapi Store.—53-56, Swadeshi Market, Kalbadevi Road, Bombay 2.

Kapadia & Co.—Bell Building, Sir Phirozshah Mehta Road, Bombay 1.

K. H. Dhamdhere.—Devkaran Mansion, 45-47, Princess Street, Bombay 2.

Madon, M. T., & Co.—The "Corner-shop", 346, Abdul Rehman Street.

Madon, Sons & Co.—Madon Mansion, 67, Hughes Road, Bombay 7.

Manek Chemical Company—Bhadaran Nagar, Ghodbunder Road, Malad, Bombay.

Manilal Motichand Kanani & Co.—Dawawalla Building, Princess Street, Bombay 2.

M. B Thakkar.—105, Princess Street, Bombay 2

M. C. Davar & Co.—Sai Bhuvan, 143, Princess Street, Bombay 1.

M. D. Patel & Co.—Devkaran Mansion, Princess Street, 1st Floor, Block No. 1, Bombay 2.

Mehta Nariman & Co.—'K' Building, Fort Street, Bombay 1.

Mercantile Essential Oil Co.—5, Mint Road, Fort, Bombay 1.

M. M. Khambatwala, C/o C. Narottam & Co.—Mangaldas Road, Bombay 2.

Mohanlal Roshanlal & Co.—119, Kalbadevi Road, Bombay 2.

MOHINI AGENCY, THE.—84, Descuza Street, Bombay 3. Manufacturers of perfumes. Phul-Tora, Utto-Mohini, Attar-Dillagi.

M. R. Mody.—Mangaldas Building, Mangaldas Road, Bombay 2.

Mysore Products Ltd.—191, Princess Street, Bombay 2.

Mysore Sugandhi Dhoop Factory.—Post Box No. 3178, Masjid Bunder Road, Bombay 3.

"Nanjis".—206/208, Carnac Road, Bombay 2.

Naarden Chemical Works (India) Private Ltd.—Sevna House, 84, Annie Besant Road, Worli, Bombay 18.

Narendra & Co.—Bansilal Mansion, 11, Bruce Street, Fort.

National Overseas Corporation.—105, Princess Street, 2nd Floor, Bombay 2.

National Trading Co.—Reay House, Hornby Road.

National Trading Co.—190-191, Mangaldas Road, Bombay 2.

N. Chimanlal & Co.—5th Cavel Cross Lane, Gaiwadi (Kalbadevi), P.B. No. 2574, Bombay 2.

N. R. Shah & Company.—Mulchand Mansion, Princess Street, Bombay 2.

New India Aromatic Co.—Devkaran Mansion, No. 3, 45-47, Princess, Street, Bombay 2.

NEW INDIA GENERAL STORES.—33, Medows Street, Fort, Bombay.

Otto Manz.—14, Hamam Street, P.O. Box 1550, Bombay 1.

Patanwa'a. Ltd.—182-84, Abdul Rehman Street.

P. Chunilal & Co.—Mulchand Mansion, 2nd Floor, Princess Street, Bombay 2.

Pearline (Paris).—Rahman Building, Vir Nariman Street, Fort.

P. Muncherji & Co.—10 Hamam Street, Bombay 1.

Purshottam Laxmichand.—Bulakhidas Building, Princess Street, Bombay 2.

RADHAKISHAN RAJARAM & CO.—143, Princess Street, Bombay 2. Phone : 30094. Grams : "NERODOUR."

Rayon Industries.—Shree Hari Nivas, 20, Gowalia Tank Road, Bombay 26.

R. H. Mody & Co.—8, Khanderao Wadi, 1st Floor, Kalbadevi Road, Bombay 2.

R. K. Shapurji & Co.—Prospect Chambers, 319, Hornby Road, Bombay 1.

Royal General Supply Agency, The.—Bode Chawl, Princess Street, Bombay 2.

R. Randow.—Kitab Mahal, Hornby Road, Bombay 1.

Sepulchre Brothers (India) Private Ltd.—Import Dept., Taj Building, Hornby Road, Bombay 1.

S. G. Kothari & Co.—88-90, Abdul Rehman Street, Bombay 3.

S. H. KELKAR & CO. PRIVATE LTD.—36, Mangaldas Road, Bombay 2. Phone : 29130. Grams : "SACHEWORKS." Dadar, Bombay. Manufacturers of Essential Oils, Aromatic Chemicals, and 'COBRA' Brand Perfumes.

SIKRI BROTHERS.—77-E, Princess Street, Bombay No. 2. Phone No. 33494. Grams : "OILMAN".

S. Javeri & Co.—Devkaran Mansion, Block No. 3, 3rd Floor, Princess Street, Bombay 2.

S. Parth & Co.—7, Chandra Mahal, Girgaum, Bombay 2.

Synaflor Company.—Sharaf Mansion, 32, Princess Street, Bombay 2.

Trading Co. Late Hegt. & Co., Ltd.—Indu House, Dougall Road, Ballard Estate, Bombay 1.

T. T. Krishnamachari & Co.—Co-operative Insurance Building, 5th Floor, Sir P. M. Road, Bombay 1

Tata Oil Mills Company Ltd.—Bombay House, Bruce Street, Bombay.

V. Harkishandas & Co.—Sharaf Mansion, 32, Princess Street, Bombay 2.

Voltas Limited.—Graham Road, Ballard Estate, Bombay 1

Vrajlal, B., & Co.—28, Princess Street.

Weil Company.—Stadium House, 2nd Floor, Veer Nariman Road, Bombay 1.

PEST CONTROL

PEST CONTROL (INDIA) PRIVATE LTD.—36, Yusuf Bldg., Mahatma Gandhi Road, Fort, Bombay 1. Phone : 252060. Grams : "PESTCIL". Consulting Entomologists, Termite Controls, Disinfection & Fumigation Service. Member, National Pest Control Association Inc. U.S.A. & Entomological Society of India.

PETROLEUM & OIL COMPANIES

Andrew Yule & Co. Ltd.—32, Nicol Road, Ballard Estate, Bombay.

Balmer Lawrie & Co. Ltd.—5, Graham Road, Ballard Estate, Bombay.

Burmah-Shell Oil Storage and Distributing Co. of India Ltd.—Burmah-Shell House, Currimbhoy Road, Ballard Estate, Bombay.

CALTEX (INDIA) LIMITED.—Caltex House, Ballard Road, Ballard Estate.

GULF OIL (INDIA) PRIVATE LIMITED.—(Formerly Silvertown Lubricants (India) Ltd.), Steelcrete House, 3, Dinsha Wacha Road, Bombay 1. Importers and Distributors of High Grade Lubricants.

Indo-Burma Petroleum Co. Ltd.—Allahabad Bank Building, Apollo Street, Fort, Bombay.

Standard-Vacuum Oil Co.—Stanvac Building, 17, Jamshedji Tata Road, Bombay 1.

Wakefield, C. C., & Co. Ltd.—White House, 91, Walkeshwar Road, Bombay 6.

WESTERN INDIA OIL DISTRIBUTING CO., LTD.—Silco Building, Hornby Road, Fort. Branch : Madras.

PETROLEUM PRODUCTS

INTERNATIONAL LUBRICANTS PRIVATE LTD.—Court House, Dhobi Talao, Bombay 2. Phone : 29109. Grams : "LUBRICANTS," Bombay and 12-A Ashutosh Mukerjee Road, Calcutta 20. Grams : "VISCOSITY" Calcutta. Importers of High grade Motor Oils, Lubricating Oils & Petroleum Jellies.

SUDAN TRADING CO.—Dhan-Nur, Phirozshah Mehta Road, Bombay 1. Phone : Office : 262768. Resd. : 62089. Grams : "VANSOBHA."

PHARMACEUTICALS

ABBOTT LABORATORIES (INDIA) PRIVATE LTD.—Manufacturing Pharmaceutical Chemists, Jehangir Building, Mahatma Gandhi Road, Fort. G.P.O. Box No. 1334, Bombay. Phone No. 254282. Grams : "ABBOTTLAB." Madras Depot : Ebrahim Mansion, 3rd Floor, 3, Ezrabala Chetty Street, P.O. 1284, Madras 1. Grams : "ABBOTTLAB," Madras. Calcutta Depot : 6/1, Lindsay Street, Calcutta 16. Grams : "ABBOTTLAB." Phone : 233907.

Alembic Chemical Works Co., Ltd., Baroda.—Distributors in Bombay : Alembic Distributors Ltd., Lakshmi Building, Sir Phirozshah Mehta Road, Fort. Phone No. 26605.

AMRUTANJAN LIMITED.—249, Frere Road, Fort, Bombay. Phone : 261673. Grams : "AMRUTANJAN." Head Office : Madras. Other Branches : Calcutta and Delhi. Manufacturers of Amrutanjan Pain Balm, Ring Worm Ointment, and Inhalers.

Anglo-Thai Corporation Ltd.—Ewart House, Bruce Street, Bombay 1.

Asian Drug Corporation.—Podar Chambers, Parsi Bazar Street, Fort

Asiatic Pharmaceutical and Chemical Corpn.—19, Bank Street, Fort, Bombay. Phone : 32478.

Associated Agencies (Bombay).—47, Podar Chambers, Parsi Bazar Street, Fort.

ATUL DRUG HOUSE.—85, Annie Besant Road, Worli, Bombay 18. Phone : 34545. Grams : "ATULDRUG." Sole Agents and Manufacturers in India for :—Laboratories VIFOR S A., Geneva, Switzerland; Laboratoires ROUDE, Paris, France; Laboratories RICHTER, London, Milan & Mexico; Laboratories, ARCHIFAR, Milan, Italy; COMTECK Laboratories, Bombay, India.

B.A. & Brothers.—98, Princess Street, Bombay 2.

Bhagwandas Chhatrabhuj & Co.—20, Hamam Street, Fort.

Bhukhanvalla & Sons.—Medows House, Medows Street, Fort

BIOLOGICAL PRODUCTS (PRIVATE) LTD.—Commerce House, Medows Street, Fort, Bombay 1.

Bock, F., & Co.—Shale Building, Bank Street, Fort.

BOMBAY TABLET MANUFACTURING CO.—Sales Depot. 175, Old Post Office Lane, Mangaldas Market, Mangaldas Road, Bombay 2. Grams : "SACCHARIN." Factory Tablet House, opp. Rly. Station, Goregaon East, Bombay. Manufacturers of Pharmaceutical Products.

British Drug Houses (India) Private Ltd.—Imperial Chemical House, Ballard Estate, Fort.

CAMA, NORTON & CO.—Cama Chambers, 23, Medows Street, Fort. Phone : 256384. Grams : "CAMANORTON."

CASTOPHENE MANUFACTURING CO.—Manufacturers of Fine Household Remedies such as Castophene Laxative, Capiria, Gripe Mixture, Cough Syrups and Tablets, Ointments etc. 85, Dr. Annie Besant Road, Worli, Bombay 18. Phone : 72486. Grams : "CASTOPHENE". Branch at Delhi 6, and Agencies throughout India.

CHARAK BHANDAR.—Head Office, Sales Depot & Clinic, at Kapoor Mansion, 69, Hughes Road, Bombay 7. Phone : 42666. Grams : 'FIRST'. (1) Branch & Clinic : at Navnidhan Bhuwan, Dhanji Street, Mumbadevi, Bombay 3. (2) Clinic : at Relief Road, Ahmedabad 1. Pharmaceutical Manufacturers of Ayurvedic Pharmacopical Medicines, Specialities & Specific remedies.

CHEMICAL, INDUSTRIAL & PHARMACEUTICAL LABORATORIES, LTD. (CIPLA).—289, Bellasis Road, Byculla. Phones : 78211, 78212 and 78213.

CHEMIDYE TRADING CO., LTD.—Kanaiz Building, Cawasji Patel Street, Fort, Bombay 1. Phone : 251034.

CHEMO-PHARMA LABORATORIES LTD.—Manufacturers of Ethical Pharmaceuticals and Fine Chemicals. Office : 75, Dr. Annie Besant Road, Worli, Bombay 18. Phone : 70282. Laboratories : Plot No. C.S. 215, Sewri, Bombay 15. Phone : 63231. Grams : "CHEMOLABS." Managing Agents : Mafatlal & Co.

Chunilal Desai & Co.—Goel Mansion, Homji Street, Fort.

CIBA PHARMA PRIVATE LIMITED.—Esplanade House, Waudby Road, Fort. Phone : 26-1541 (4 lines).

COMTECK LABORATORIES.—85, Dr. Annie Besant Road, Worli, Bombay 18. Phone: 34845. Grams: "COMTECKLAB." Manufacturers and Exporters of Pharmaceutical Products.

Crookes Laboratories Ltd.—Court House, Carnac Road, Bombay 2.

DEY'S MEDICAL STORES PRIVATE LTD.—Manufacturers and Exclusive distributers for American Cyanamid Company, Fine Chemical Division, New York; G. Zambon & Co., S.p.A., Vicenza, Italy; Continental Pharma, S.A., Brussels, Belgium; Winthrop Products, London & New York, BYK-Gulden, Lomberg, Germany. Head Office: 6 2B, Lindsay Street, Calcutta, 16. Bombay Office: Himalaya House, Dr. Dadabhoy Naoroji Road, Fort, Bombay 1. Delhi Office: 2/3619, Faiz Bazar, Darya Ganj, Delhi 7. Madras Office: 290, Linghi Chetty Street, Madras 1.

DUMEX PRIVATE LTD.—Manufacturers and Importers of DUMEX Pharmaceuticals and Baby Food. Wavell House, Graham Road, Ballard Estate, Bombay 1. Phone: 26-2711. Grams: "DUMEX."

DR. BHALCHANDRA LABORATORY.—215, Charni Road, Girgaum, Bombay 4. Phone: 27221. Grams: "BHALABS." Manufacturers of High Quality Pharmaceuticals and Ethical Specialities.

EAST ASIATIC CO. (INDIA) PRIVATE LTD. THE.—Wavell House, Graham Road, Ballard Estate, Bombay. Phone: 26-2711, (8 lines). Offices at Madras, Calcutta, New Delhi.

Evans Medical Supplies (India) Ltd.—Lakshmi Building, Sir Phirozshah Mehta Road, Fort.

FAIRDEAL CORPORATION (PRIVATE)LTD., THE.—Lakshmi Building, Sir Phirozshah Mehta Road, Fort. Phone: 263593, Pharmaceutical Laboratories. 142-48, Ghodbunder Road, Jogeshwari, Bombay 42. Phone: 86408. Branch: Laha Paint House, 7, Chittaranjan Avenue, Calcutta 13. Phone: 23-3157.

Francis Klein Pharmaceuticals Ltd.—Shaje Building, Bank Street, Fort.

GEOFFREY MANNERS & CO., PRIVATE LTD.—*Mfg.* Chemists, Importers, Distributors & Manufacturers of Pharmaceutical Products. Head Office: Magnet House, Dougall Road, Ballard Estate, Bombay. Phone Nos. 26-1361-2-3, Branch Office and Sales Depot: Cadell Road, Dadar, Bombay. Phone No. 61228. Factory: Hattersley Mills Estate, Bombay-Agra Road, Ghatkopar, Bombay. Phone: 67414. (Manager), 67660. Branches: Calcutta, Delhi, Madras and Colombo.

GERMAN REMEDIES & TRADING CO. PRIVATE LTD.—Manufacturers and Importers of Pharmaceuticals, Laxmi Building, Ballard Estate, Bombay 1. G.P.O. Box No. 1945, Bombay 1. Cables: "CHEMAGENT." Telephone: 264576.

Gillanders Arbuthnot & Co., Ltd.—16, Queen's Road, Bombay 1.

GLAXO LABORATORIES (INDIA) PRIVATE LTD.—Worli, Bombay 18. P.O. Box 202, Bombay 1. Phone: 73445 (5 lines). Branches: P.O. Box 2257, Calcutta. Phone: Alipore: 2018 (3 lines). P.O. Box 2490, Madras. Phone: 6175. P.O. Box No. 510, New Delhi, Phones: 28001-28002. Grams: "GLAXO-LABS," Bombay, Calcutta, Madras, New Delhi. Associates in India of Glaxo Laboratories Ltd., Greenford, Middlesex, England. Manufacturers of Baby Foods, Pharmaceuticals and Antibiotics.

Group Laboratories (India) Ltd.—191, Pitamber Wadi, Off Lady Jamshedji Road, Mahim, Bombay.

Hollen, L. J. & Co.—275, Princess Street, Bombay 2.

HIMALAYA DRUG CO.—Pharmaceutical Manufacturers, 251, Dr. Dadabhai Naoroji Road, Bombay 1. Phones: 262222 and 262223. Grams: "SERPINA" and at 22-24, Mahatma Gandhi Road, Dehra Dun, U.P. Grams: "SERPINA." Phone: 336.

Hoechst—Fedco Pharma Private Ltd.—Mafatlal House, Backbay Reclamation, Bombay. Phone: 37470.

Imperial Chemical Industries (India) Private Ltd.—Imperial Chemical House, Dougall Road, Ballard Estate.

INDIAN PHARMACEUTICAL COMBINE ASSOCIATION LIMITED.—66, Maitland Road, Byculla, Bombay 8. Phone: 74631. Grams: "IPCAPHARM." Manufacturers of Pharmaceutical and Biological Products.

INDORAL CHEMICAL CORPORATION PRIVATE LTD.—401, Himalaya House, 79, Palton Road, Bombay 1. Factory: Kandivli. Phone: 281721. Factory: 84211. Grams: "SALICYLIC." Manufacturers of Salicylic Acid Technical, Sodium Phenetin, Salicylic Acid B.P., Sodium Salicylate.

Indo-Pharma Pharmaceutical Works Private Ltd.—Kohinoor Road, Dadar, Bombay 14. *Managing Director*: J. R. Parikh; *Tech. Directors*: H. Schlesinger, H. Blaskopf, M. Pharm. (Vienna).

International Chemical Co. Ltd.—Magnet House, Dougall Road, Ballard Estate.

Jadavjee Goverdhandas & Co.—58-60, Princess Street, Bombay 2.

Jagkumar & Co.—Prospect Chambers Annexe, 317-21, Hornby Road, Fort.

J. & J. De Chane.—Star Mansion, 30, Clare Road, Byculla, Bombay.

J. L. Morison Son & Jones (India) Ltd.—Contractor Building, Ballard Estate, Bombay 1.

JOHN WYETH & BRO. LTD.—Steelcrete House, Dinshaw Wacha Road, Backbay Reclamation, Bombay 1.

JUGGAT SINGH'S SON & BROS.—Regal Cinema Building, 41, Apollo Pier Road, Bombay 1. Phone: 35812. Grams: "PHYDRUGCO." Manufacturers & Exclusive Distributors *for*:—E. Tosse & Co., Hamburg, Germany, Maggioni & Co. Milan, Italy; Calmic Ltd. London; Nyegaard & Co. Oslo, Norway; Ejice-Bruxelles; Marvin Ltd. Lugano, (Switzerland); Institute Sieroterapico E. Vaccinogeno 'Sclavo' Institute, Italy; Meinicke Extrakte, Germany; Sessi (Nylon Syringes), France; Artsana (Helvetia Hypodermic Needles), Italy; Webcco & Co. Germany; Pharmaton S.A., Lugano (Switzerland).

KEMP & CO. LTD.—86C, Old Prabhadevi Road, Bombay 28. Phone: 62251. Grams: "PHARMACY."

Kerr, F. S., & Co., Ltd.—125, Mahatma Gandhi Road.

KHATAU VALABHDAS & CO.—Indian Globe Chambers, Fort Street, Bombay 1. Phone: 26-1655. Grams: "SCARLET," Bombay.

LEDERLE LABORATORIES (INDIA) PRIVATE LTD.—"The International", 16, Queen's Road, Bombay 1. Phone: 241144 (3 Lines). Grams: "LEDLAB." Factory at P.O. Atul, *via* Bulsar. Phone: 29.

Mac Laboratories Ltd.—60, Sir Phirozshah Mehta Road, Fort, Bombay 1.

Manufacturing Analytical & Research Chemists Ltd.—Esplanade House, Waudby Road, Fort, Bombay.

MARTIN & HARRIS (PRIVATE) LTD.—Savoy Chambers, Wallace Street, Bombay 1.

MAY & BAKER (INDIA) PRIVATE LTD.—Karimjee House, Sir Phirozshah Mehta Road, Fort, Bombay. Branches: Calcutta, Gauhati, Madras and New Delhi.

MONSANTO CHEMICALS OF INDIA PRIVATE LTD.—Wakefield House, Sprott Road, Ballard Estate, Bombay 1. Phone: 26-2624. Grams: "MONSANTO," Bombay. Branch Offices: (1) Monsanto Chemicals of India, Private Ltd., The Exchange, 5, Mission Row, 2nd Floor, Calcutta. (2) Monsanto Chemicals of India Private Ltd., 3 8, Ajmeri Gate Extn. Scheme, near Turkman Gate, New Delhi.

N. Himatlal & Co.—83-85, Princess Street, P.O. Box 2004, Bombay 2.

Okasa Co. Ltd.—12, Gunbow Street, Fort. Phone: 20206.

Orient Drug Agency.—Devkaran Mansion, Princess Street, Bombay 2. Phone: 24372.

Oriental Pharmaceutical Industries, Ltd.—Kavarana Building, 64-66, Tulsi Pipe Road, Mahim.

Parke Davis & Co. Ltd.—P. O. Box 88, Bombay.

PHARMED PRIVATE LTD.—Pharmed House, Fort Street, Fort. Phone: 261141-42. Grams: "PHARMED." Factory: 252, 54, Dr. Annie Besant Road, Worli, Bombay 18. Phone: 41445.

Phillips & Co.—Waterloo Mansions, Mayo Road, Fort.

Rajni Industrial Corporation.—Kitab Mahal, 192, Hornby Road, Fort.

RAVISON PHARMACEUTICALS PRIVATE LTD.—198, Jamshedji Tata Road, Post Box 1836, Bombay 1. Exclusive Distributors of Pfizer Goods in India. Phone: 37387. Gram: "RAVIPHARM. Branches at Delhi, Calcutta and Madras.

Sandoz Products Ltd.—3, Wittet Road, Ballard Estate, Fort, Bombay.

SCHERING ASIA G.m.b.H.—Manufacturers of Pharmaceutical Specialities on behalf of Messrs. Schering Asia G.m.b.H. Berlin, West Germany and Scientific Information Service. 6th Floor, Sir Vithaldas Chambers, 16, Apollo Street, Post Box 10088, Bombay 1. Phone: 252503. Grams: "SCHERASIA".

Shetty's Pharmaceuticals and Biologicals Ltd.—Sales Office: 361, Hornby Road, Fort.

SIGMA LABORATORIES.—Plot No. 43 (South), Wadala, Bombay No. 31. Manufacturers of high quality Pharmaceutical Preparations & Proprietary Products. Phone: 61488. Grams: "SIGMALAB."

SMITH, STANISTREET & CO., LTD.—Stan House, Barrack Road, Fort, Bombay 1. Phone: 262313. Grams: "STANSTREET." Manager: J. R. Coutinho. Regd. Office and Works, 16, Convent Road, Entally, Calcutta 14.

Super Pharma Corporation, Ltd.—230, Jumabhai Laljl Building, Pydhonie Road, Bhat Bazar, Bombay 9. P. O. Box 904.

Swiss Pharmaceuticals.—28, Apollo Street, Fort.

THERAPEUTIC PHARMACEUTICALS.—Manufacturers of Pharmaceuticals and Biological Specialities. Office: 43, Queen's Road, Bombay 2. Phone: 27701. Grams: "VITAZIDE." Laboratories: 54, Proctor Road, Bombay 7. Also at Carter Road, Andheri (East).

Thomson & Taylor Ltd.—117-119, Esplanade Road, Fort.



United Pharmaceutical Co.—157-59, Girgaum Road, Bombay 4.

VERONA TRADING CO.—Davar House, 199, Dr. Dadabhai Naoroji Road, P.O. Box No. 400, Bombay 1. Phone: 264374. Manufacturers of Pharmaceutical and Biological Products.

Vikram Padamsey & Co.—Rustom Building, Veer Nariman Street, Fort.

Voltas Limited.—19, Graham Road, Ballard Estate.

PHARMACEUTICAL MACHINERY IMPORTERS

Bakubhai Ambalal Private Ltd.—Wittet Road, Bombay 1.

Batliboi & Co.—Engineers & Machinery Importers. Head Office: Forbes Street, Fort, Bombay. Phone No. 255451-55. Grams: "BATLIBOYCO". Branches: Madras, Calcutta, Delhi, Ahmedabad, Kanpur, Coimbatore and Vijayvada. Associates: Bangalore and Secunderabad.

Bogwin & Co.—Wadia Estate, Bldg. No. 8, Room 247, Old Kurla, Bombay 37.

GLADWYN & CO.—251, Hornby Road, Fort, Bombay 1. Phone: 263997. Grams: "MONA." Specialist Suppliers to the Food, Chemical, Pharmaceutical and allied Industries offering Technical Advice and Service with Sales.

KILBURN & CO. PRIVATE LTD.—Gresham Assurance House, Sir Phirozshah Mehta Road, Bombay. Phone: 251908. Grams: "TESCONIUM."

RAJ-DER-KAR & CO.—Commissariat Building, Dr. Dadabhai Naoroji Road, Fort, Bombay. For Research Industries. Phone: 262304. Grams: "TECHLAB."

PHOTOGRAPHERS

Central Camera Company. Ltd.—195, Dr. Dadabhoy Naoroji Road (Hornby Road), Fort, Bombay.

Chitra Studio.—362, Thakurdwar, Bombay 2.

Dave Brothers.—Waterloo Mansion, Apollo Pier, Fort.

Devare & Co.—Cutch Castle, opp. Royal Opera House, Sandhurst Road, Bombay 4.

Eos Studios.—427, Kalbadevi Road, Bombay 2. Phone: 27367.

Felicita Studios.—Roxy Cinema Building, New Queen's Road, Bombay 4.

Forward Studios (Kodak Gold Medalist).—Dhutapapeswar Building, Mangalwadi, Girgaum, Bombay 4. Phone: 33814.

GENERAL PHOTO STUDIO (ESTD. 1931).—Opp. Bharbhai Mohalla, Masjid Bunder Road, Bombay 3. Phone: 24880. Specialists in "Documents" Photo Copying & "Life-Like" Portraits.

Gomes & Lawrie.—Empire Building, 136, Hornby Road.

HAMILTON STUDIOS PRIVATE LTD.—Society Photographers, India House, Dougall Road, Ballard Estate. Phone: 26-2930.

Hiro Photo Cine Stores.—23-C, Phirozshah Mehta Road, Bombay 1. Phone: 25-3690. Also at 62, Colaba Road, Bombay 5. Phone: 35480.

Industrial Art Studio.—Co-operative Insurance Building, Sir Phirozshah Mehta Road, Fort.

J. J. MEHTA & SONS.—India House (opp. G.P.O.), Fort Street, Bombay 1. Phone: 264703. Branches: Dadar (W. Rly.) & Malad. Photographic Dealers & Photographers.

Koor Camera Co.—Jhaveri Nivas, Kennedy Bridge, near Opera House.

Linder Studio.—162, Hornby Road, Fort.

Maxarts.—1st Floor, 203, Hornby Road, Fort, Bombay.

Meera Photo Service.—Rewa Bhuvan, Lady Jamshedji Road, Dadar, Bombay 28.

MODERN PHOTO STORES AND STUDIO.—388, Lamington Road, Bombay 7. Next to Lamington Road Police Station.

Photo-Masters.—23, Hamam Street, Bombay 1. Grams: FOTO-MASTER. Phone: 251381. Commercial Photography, 'Photostat' prints & Microfilming of Documents and Ready Stock of Quality Photographs & Transparencies for Calendars.

Press Photographer.—162, Hornby Road, Fort.

Rembrandt & Vandykes.—Whiteaways Building, Hornby Road.

REPUBLIC PHOTO NEWS BUREAU.—339, Hornby Road, Bombay 1. Phone: 253338. Press and Commercial Photographers.

Sabnis Photo Studio.—Lady Jamshedji Road, opp. Post Office, Dadar.

Saraswati Art Studio.—Ghamat Terrace, opp. Western Rly. Station, Dadar.

S. Pereira.—Karanjia Building, 653-A, Girgaum Road, Dhobi Talao, Bombay 2.

***STUDIO* SHANGRILA.—Creators of Living Portraits, 204, D. Naoroji Road, Bombay 1. Phone: 26-2797.**

Tasvir Make-up Photo Studios.—Thakurdwar Tram Terminus, Bombay 2.

TRICOLOUR.—Sangli Bank Building, Behind Reserve Bank, Fort, Bombay. Designers, Blockmakers, Printers & Colour Photographers.

VANGUARD STUDIOS.—368, Opp. Thakurdwar P.O., Bombay 2. Phone: 23182.

VARTAK, B. B., STUDIO.—187, Dr. Dadabhai Naoroji Road (Hornby Road), Fort, Bombay. Phone: 262915. The Premier House for all Photographic Requirements, Developing, Printing, Enlarging and Expert Camera Repairings; Portraits and Group Photo Studio.

Virkar, N. V., & Co.—Mohan Building, near Majestic Cinema, Girgaum Road, Bombay 4.

Zarapkar Photo Studios.—Head Office: 247, Girgaum Road. Branches: Dadar; Malvan; Savantwadi; Vengurla.

PHOTOGRAPHIC MATERIALS IMPORTERS AND DEALERS

Agfa India Private Ltd.—198, Jamshedji Tata Road, Bombay 1.

Alfa Sports.—Metro House, Bombay 1. Phone: 27549. Grams: "ALFASPORTS."

ALL INDIA ENGINEERS PRIVATE LTD.—(Photo Cine Sound Department). Mehta Bldg., Medows Street, Fort. Importers of Photographic and Cinematographic Cameras, Accessories and Sensitised Materials, Projectors, etc.

ALLIED PHOTOGRAPHICS PRIVATE LTD.—H. O.: Kasturi Building, Jamshedji Tata Road. Phones: 37888 & 37889. Branch Office: 193, Dadabhoy Naoroji Road, Fort. Phone: 262803. Service Station and Stores: Sangham Bhuwan, Opp. Strand Cinema, Colaba. Phone: 37486.

Ama Private Ltd.—Canada Building, Hornby Road, Fort.

Central Camera Co. Ltd.—195, Dr. Dadabhai Naoroji Road (Hornby Road), Fort, Bombay.

CONTINENTAL PHOTO STORES.—243-45, Dr. Dadabhai Naoroji Road (Hornby Road), Fort. Phone: 262059.

Datta & Co.—Ganga Nivas, Ranade Road, Dadar.

Dave Brothers.—Waterloo Mansion, Apollo Pier, Fort, Bombay.

Devare & Co.—Cutch Castle, opp. Opera House.

EOS PHOTO STORES.—427, Kalbadevi Road, Bombay 2. Phone: 27367. Authorised Dealers for Kodak—Gevaert Agfa, Fuji, Zeiss-Ikon etc. Photo goods.

GENERAL PHOTO STORES.—Sahra Castle, Mohamedally Road, Bombay 3. Phone: 34080.

Great India Trading Co.—Beaumon Chambers, 27-33, Medows Street, Fort.

Heatly & Gresham Ltd.—9, Forbes Street, Fort, Bombay 1.

HIRO PHOTO CINE STORES.—23-C, Phirozshah Mehta Road, Bombay 1. Phone: 25-3690. Also at 62, Colaba Road, Bombay 5. Phone: 35480.

ILFORD-SELO (INDIA) PRIVATE LIMITED.—Cook's Building, Dr. Dadabhai Naoroji Road. Branches: Calcutta, Madras, New Delhi.

J. J. MEHTA & SONS.—India House (Opp. G.P.O.), Fort Street, Bombay 1. Phone: 264730. Branches: Dadar (W. Rly.) & Malad. Photographic dealers & Photographers.

KODAK LIMITED.—Kodak House, Dr. Dadabhai Naoroji Road, Fort. Phone: 26-2804.

Koor Camera Co.—Jhaveri Nivas, Kennedy Bridge, near Opera House.

Koparde & Khandke.—Empire Building, 136, Hornby Road.

Koparde & Wadia.—71, Mahatma Gandhi Road, Fort (opp. Flora Fountain).

MAY & BAKER (INDIA) PRIVATE LTD.—Karimjee House, Sir Phirozshah Mehta Road, Fort, Bombay 1. Branches: Calcutta, Gauhati, New Delhi and Madras.

MODERN PHOTO STORES & STUDIO.—358, Lamington Road, Bombay 7, next to Lamington Road Police Station.

NAYAK & CO.—Harganga Mahal, Khodadad Circle, Dadar, Bombay 14.

Patel India Ltd.—190, Dr. Dadabhai Naoroji Road, Fort, Bombay.

Patell, P. R., & Co., Ltd.—Mherwan Building, Sir Phirozshah Mehta Road, Fort.

Phillips & Co.—Waterloo Mansion, Mayo Road, Fort.

Photonovels, The.—Mherwan Building, Sir Phirozshah Mehta Road, Fort.

Popular Camera Company.—Nawab Building, 327, Hornby Road, Fort.

Ravel Brothers.—185, Princess Street, Bombay 2.

Rembrandt & Vandykes.—Whiteaway Building, Hornby Road, Fort.

REPUBLIC PHOTOGRAPHIC STORES.—339, Hornby Road, Bombay 1. Phone: 253336. Importers, Wholesalers, and Retailers of Photographic Goods.

Scientific Instrument Co., Ltd.—Navsari Building, 240, Dr. Dadabhai Naoroji Road (Hornby Road), Fort, Bombay.

SONICO.—171, Dr. Dadabhai Naoroji Road, Fort, Bombay. Phone: 263976. Grams: "SONIPHOTO."

SUNDER & KAPOOR.—107, Commerce House, 140, Medows Street, Fort, Bombay 1. Grams: "SUNKAP."

TECHNICAL TOOLS.—65 A, Dockyard Road, Mazagaon, Bombay 10. Studio Lights and Units, Flood Lights, Tripods, Metal Stands, Cine Pan Heads, Reflectors, Flash guns and other miscellaneous accessories.

VANGUARD STUDIOS.—365, Opp. Thakurdwar P.O., Bombay 2.

VARTAK, B. B., STUDIO.—167, Dr. Dadabhai Naoroji Road (Hornby Road), Fort, Bombay. Phone: 262915. The Premier House for all Photographic Requirements, Developing, Printing, Enlarging & Expert Camera Repairings. Portraits and Group Photo Studio.

V. S. BAL & CO.—Podar Chambers, Parsi Bazar Street, Fort, Bombay.

XACA (INDIA) PRIVATE LTD.—Gopal Nivas, Lohar Chawl, Bombay 2. Phone: 29907. Grams: "XACA." Sole Distributors for Wotan Products and Cinema Equipment and Photographic Materials.

"PHOTOSTAT" PRINTS AND MICROFILMING

PHOTO-MASTERS.—23, Hamam Street, Bombay 1. Grams: "FOTOMASTER". Phone: 251381. For True & Exact Reproductions of your important documents irrespective of any size. Same day Service at Competitive rates.

PICTURE DEALERS AND FRAME MAKERS

Chemould.—Princess Building, 271, Princess Street, Bombay 2.

Joshi, M. A., & Co.—145-147, Princess Street.

Kotkar Bros., M. B.—373, Girgaum Road, Thakurdwar.

Phillips & Co.—Waterloo Mansion, Mayo Road, Fort.

Prabha, V., & Co.—Near Sandhurst Road Tram Terminus, Girgaum.

SATGURU'S FRAME CRAFTS.—333, Hornby Road (opp. Thos. Cooks), Fort. Branch: 205, Princess Street, Bombay 2.

Satguru Picture & Frame Co.—Kaiser Building, 205, Princess Street, Bombay 2.

Vienna Studio.—333, Hornby Road, Fort.

PICTURE FRAMES MANUFACTURERS (MOULDING)

Diawa Glass Co.—Ratan Building, Nagdevi Street, Bombay 8.

Chemical Moulding Manufacturing Co., Ltd. (Chemould).—Taj Building, Hornby Road, Fort.

Mahomedally Valji Arsiwala.—76, Abdul Rehman Street, opp. Imperial Bank, Bombay 3.

SATGURU'S FRAME CRAFTS.—333, Hornby Road (opp. Thos. Cooks), Fort. Branch: 205, Princess Street, Bombay 2.

Sepulchre Brothers (India) Ltd.—Taj Building, 210, Hornby Road.

PIECE-GOODS (COTTON, SILK & WOOLLEN)

Abdulkarim Abdul Shakur & Co.—Ganeshwadi, Mulji Jetha Market, Bombay 2.

Abdulkarim Ibrahim & Co.—Chandra Chowk (2nd Gulli), Mulji Jetha Market, Bombay 2.

Abdul Raheman Jakab & Sons.—Building No. 165, Kambekar Street, Bombay 3.

A. D. Mahera & Co.—Dharamraj Gulli, Mulji Jetha Market, Bombay 2.

Ahmed & Brothers.—33, Khokha Bazar, Mahamadali Road, Bombay 3.

Ahmed Ibrahim Brothers.—Building No. 88, Chakla Street, Bombay 3.

Ajitlal & Bros.—Chandra Chowk (4th Gulli), Mulji Jetha Market, Bombay 2.

Akhal D. & Co.—Pragraj Gulli, Mulji Jetha Market, Bombay 2.

Ambalal Patel R. & Co.—Lakhmidas Market, 3rd Gulli, Bombay 2.

Ambika Trading Co.—Krashna Chowk, Mulji Jetha Market, Bombay 2.

Amratlal J., & Bros.—Sir Vithaldas Galli, Mulji Jetha Market, Bombay 2.

Amratlal & Co.—Mirza Street, Bombay 2.

Amratlal & Co.—Dadar Gulli, Mulji Jetha Market, Bombay 2.

Anandji D., & Co.—Champa Gulli, Bombay 2.

Anilkumar H., & Co.—Navi Gulli, Mulji Jetha Market, Bombay 2.

Anu Private Ltd.—Dharamraj Gulli, Mulji Jetha Market, Bombay 2.

Arun Bros.—Shanti Bhuvan, Old Hanuman Gulli, Bombay 2.

Arun Mahendra & Co.—Chikhal Gulli, Mulji Jetha Market, Bombay 2.

Arun Traders.—Chhipi Chawl, Bombay 2.

Arvindkumar & Co.—Gordhan Gulli, Mulji Jetha Market, Bombay 2.

Asar & Co.—Dadar Galli, Mulji Jetha Market, Bombay 2.

Ashokkumar Madhusudan & Co.—Office Galli, Mulji Jetha Market, Bombay 2.

Babubhai Lalji & Co.—Mangaldas Market, 5th Gulli, Bombay 2.

Babulal Kapurchand.—Pragraj Gulli, Mulji Jetha Market, Bombay 2.

Babulal Mohanlal & Co.—Navi Gulli, Mulji Jetha Market, Bombay 2.

Babulal Pranlal & Bros.—Dharamraj Gulli, Mulji Jetha Market, Bombay 2.

Babulal S., & Co.—Dadar Gulli, Mulji Jetha Market, Bombay 2.

Bachubhai & Co.—Old Hanuman Gulli, Bombay 2.

Baheramji Limji & Sons.—Ghadial Gully, Mulji Jetha Market, Bombay 2.

Balabax Banslal & Co.—Lakhmidas Market, 3rd Gulli, Bombay 2.

Balkrashna Bipinkumar & Co.—Ghadial Gully, Mulji Jetha Market, Bombay 2.

Balmukund & Co.—Narayan Chowk, Mulji Jetha Market, Bombay 2.

B. J. Brothers.—Ghadial Gully, Mulji Jetha Market, Bombay 2.

Banslal Somchand & Co.—Chandra Chowk, Mulji Jetha Market, Bombay 2.

Bapuji Narsindas & Co.—Ganeshwadi, Mulji Jetha Market, Bombay 2.

Bava Padyumansinh & Sons.—Chandra Chowk, Mulji Jetha Market, Bombay 2.

Bhagwandas D., & Co.—Mangaldas Market, 3rd Gulli, Bombay 2.

Bhagwandas K. Brothers.—Building No. 99 103, Tambakanta, Bombay 3.

Bhagwandas Punjabhai & Co.—Dwarkesh Gulli, Mulji Jetha Market, Bombay 2.

Bhagwandas & Bros.—Chandra Chowk (5th Gulli), Mulji Jetha Market, Bombay 2.

Bhaichand Rugnath & Co.—Narayan Chowk, Mulji Jetha Market, Bombay 2.

Bharatkumar & Co.—Govind Chowk, Mulji Jetha Market, Bombay 2.

Bharatkumar & Co.—Krashna Chowk, Mulji Jetha Market, Bombay 2.

Bharat Textile Corporation.—Krashnaraj Gulli, Mulji Jetha Market, Bombay 2.

Bhau Kashinath.—Building No. 63, Bhandari Street, Bombay 3.

Bhoglal R., & Co.—Chikhal Gulli, Mulji Jetha Market, Bombay 2.

Bhupatraj & Co.—Sancha Gulli, Mulji Jetha Market, Bombay 2.

Bhupendra Rajnikant & Co.—Dadar Gulli, Mulji Jetha Market, Bombay 2.

Bipinchandra & Bros.—Chhipi Chawl, Bombay 2.

Champaklal & Co.—Chandra Chowk, Mulji Jetha Market, Bombay 2.

Chandrakant D., & Co.—Krashnaraj Gulli, Mulji Jetha Market, Bombay 2.

Chandrakant & Bros.—Gaumukh Gulli, Mulji Jetha Market, Bombay 2.

Chandrakant & Co.—Gordhan Gulli, Mulji Jetha Market, Bombay 2.

Chandrakant K., & Co.—Lakhmidas Market, 2nd Gulli, Bombay 2.

Chandrakant R., & Co.—Lakhmidas Market, 2nd Gulli, Bombay 2.

Chandrakant J., & Co.—Gaumukh Gulli, Mulji Jetha Market, Bombay 2.

Chandrakant Tarachand Badani.—Building No. 19, Champa Gulli, Bombay 2.

Chandrakant Vallabhdas & Co.—Mangaldas Market, 7th Gulli, Bombay 2.

Chandarana Brothers.—32, Fofalwadi, Bhuleshwar, Bombay 2.

Chandrakant & Co.—Navi Gulli, Mulji Jetha Market, Bombay 2.

Chandrakant Maganlal & Co.—Narayan Chowk, Mulji Jetha Market, Bombay 2.

Chandravadan & Co.—Chandra Chowk, Mulji Jetha Market, Bombay 2.
Chandulal Jeshangbhai & Co.—Dwarkesh Gulli, Mulji Jetha Market, Bombay 2.
Chandulal Babalal & Co.—Lakhmidas Market, 2nd Gulli, Bombay 2.
Chandulal Navnitlal & Co.—Gaumukh Gulli, Mulji Jetha Market, Bombay 2.
Chandulal Manilal & Co.—Swadeshi Market, Radha Gulli, Bombay 2.
Chatrabhuj Bhanji & Co.—Chandra Chowk, 3rd Gulli, Mulji Jetha Market, Bombay 2.
Chatrabhuj Bhaichandbhai & Co.—40, Hasam Building, Vir Nariman Road, Fort, Bombay 1.
Chatrabhuj Gordhandas & Co.—Krashna Chowk, Mulji Jetha Market, Bombay 2.
Chatrabhuj Jivandas & Co.—158, Kanji Gokaldas Building, Luhar Chawl, Bombay 2.
Chhaganlal B.—Govind Gulli, Mulji Jetha Market, Bombay 2.
Chhotalal Chhaganlal & Co.—Madhavrai Gulli, Mulji Jetha Market, Bombay 2.
Chhaganlal Laxmichand & Sons.—Dwarkesh Gulli, Mulji Jetha Market, Bombay 2.
Chhaganlal Maganlal.—Madhavrai Gulli, Mulji Jetha Market, Bombay 2.
Chimanlal Umaji & Sons.—Ganeshwadi, Mulji Jetha Market, Bombay 2.
Chimanlal & Sons.—Chandra Chowk, 8th Gulli, Mulji Jetha Market, Bombay 2.
Chimanlal Popatlal Shah.—Diamond Building, Luhar Chawl, Bombay 2.
Chinubhai & Bros.—Churchgate House, Fort, Bombay 1.
Choturmal K. A. J., & Co.—Building No. 501, Kalbadevi Road, Bombay 2.
Chunilal & Bros.—Gaumukh Gulli, Mulji Jetha Market, Bombay 2.
Chunilal K., & Co.—Narayan Chowk, Mulji Jetha Market, Bombay 2.
Chunilal Nagardas & Co.—Ghadial Gully, Mulji Jetha Market, Bombay 2.
Cloth Trading Co.—Dharamraj Gulli, Mulji Jetha Market, Bombay 2.
Damodar Chhaganlal & Co.—Sunder Chowk, Mulji Jetha Market, Bombay 2.
Damodardas Jeramdas & Co.—Krashna Chowk, Mulji Jetha Market, Bombay 2.
Daso Textile.—Office Gulli, Mulji Jetha Market, Bombay 2.
Dayaldas Nensi & Co.—Oval Wadi, Bombay 2.
Dayalji J., & Co.—Krashnaraj Gulli, Mulji Jetha Market, Bombay 2.
Desai Chhabildas Vallabhdas.—Champa Gulli, Bombay 2.
Desai Pravinchandra Ochhavlal & Bros.—Old Hanuman Gulli, Bombay 2.
Devidas Hirjee & Co.—Building No. 22, Vithalwadi, Bombay 2.
Dev Sharma & Co.—2, Jai Hind Estate, 3rd Floor, Bhuleshwar, Bombay 2.
Dhansukhlal & Co.—Ganeshwadi, Mulji Jetha Market, Bombay 2.
Dhanvantrai C., & Co.—Champa Gulli, Bombay 2.
Dharamsi Mathuradas & Co.—Ghadial Gully, Mulji Jetha Market, Bombay 2.
Dharamsi Ramji.—Swadeshi Market, Radha Gulli, Bombay 2.
Dharamsi Ranchhoddas & Co.—Navi Gulli, Mulji Jetha Market, Bombay 2.
Dhirajlal Hirjee.—Madhavrai Gulli, Mulji Jetha Market, Bombay 2.
Dhirajlal S. Shah & Co.—Navi Gulli, Mulji Jetha Market, Bombay 2.
Dhirajlal Vrajlal & Co.—Champa Gulli, Bombay 2.
Dilipkumar & Co.—Ghadial Gully, Mulji Jetha Market, Bombay 2.
Dineshchandra & Co.—Pragraj Gulli, Mulji Jetha Market, Bombay 2.
Doctor C., & Co. Ltd.—12, Bruce Street, Fort, Bombay 1.
Doshi A. M., & Co.—Chandra Chowk, 2nd Gulli, Mulji Jetha Market, Bombay 2.
D. P. Bros.—Lakhmidas Market, 1st Gulli, Bombay 2.
Dwarkadas & Co.—Gaumukh Gulli, Mulji Jetha Market, Bombay 2.
Dwarkadas Keshavlal & Co.—86, Sugar Chawl, Bombay 2.
Dwarkadas Meghji (Private) Ltd.—Swadeshi Market, Bombay 2.
Fajalbhai & Tulsidas.—Sheikh Memon Street, Bombay 2.
Farasram Chatrabhuj & Co.—Mangaldas Market, 5th Gulli, Bombay 2.
Fulchand Odhavji & Co.—Chandra Chowk, 5th Gulli, Mulji Jetha Market, Bombay 2.
Ganesh Dyeing & Printing Works.—Bombay Cotton Mill Compound, Kala Chowki, Bombay 12.
Ganesh Gangaram & Sons.—Krashna Chowk, Mulji Jetha Market, Bombay 2.
Ganeshshanker & Co.—10/12, Thakersi Building, Old Hanuman Gulli, Bombay 2.
G. H. Bros. & Co.—Lakhmidas Market, 1st Gulli, Bombay 2.
Ghanshyamdas K., & Co.—Dharamraj Gulli, Mulji Jetha Market, Bombay 2.
Girdharlal Khusaldas & Co.—Narayan Chowk, Mulji Jetha Market, Bombay 2.
Girdharlal Navnitlal & Co.—Govind Chowk, Mulji Jetha Market, Bombay 2.
Gobhai M. N., & Co.—Building No. 505, Kalbadevi Road, Bombay 2.
Gokuldas & Co. Ltd.—Building No. 453/457, Kalbadevi Road, Bombay 2.
Gokulesh Cloth Co.—Office Gulli, Mulji Jetha Market, Bombay 2.
Gordhan P., & Co.—Sheikh Memon Street, Bombay 2.
Gordhandas Amratlal & Co.—Building No. 28, Champa Gulli, Bombay 2.
Gore & Co.—Fort, Bombay 1.
Govindji & Sons.—Narayan Chowk, Mulji Jetha Market, Bombay 2.
Govindram Hasanand & Co.—Chandra Chowk, 3rd Gulli, Mulji Jetha Market, Bombay 2.
Great India Investment Co. Ltd., The.—70/72, Bombay Mutual Building, Fort, Bombay 1.
Gunvantrai Chunilal & Co.—Lakhmidas Market, 2nd Gulli, Bombay 2.
Hajimusa T. S., & Co.—Karim Building, Mahamadali Road, Bombay 3.
Hansraj Tricumdas.—Chandra Chowk, Mulji Jetha Market, Bombay 2.
Haridas N., & Co.—Ghadial Gully, Mulji Jetha Market, Bombay 2.
Hareshkumar Jamnadas & Co.—Lakhmidas Market, 2nd Gulli, Bombay 2.
Harilal Kantilal & Co.—Swadeshi Market, Radha Gulli, Bombay 2.
Harischandra Ratilal & Co.—Gordhan Gulli, Mulji Jetha Market, Bombay 2.
Harjivan L., & Co.—Narayan Chowk, Mulji Jetha Market, Bombay 2.
Harjivandas Gordhandas & Co.—Sancha Gulli, Mulji Jetha Market, Bombay 2.
Harkishandas Mohanlal & Co.—Vithalwadi, Bombay 2.
Harsukhlal, J., & Co.—Lakhmidas Market, 2nd Gulli, Bombay 2.
Hasmukhlal & Bros.—Navi Gulli, Mulji Jetha Market, Bombay 2.
Hasmukhlal & Co.—Navi Gulli, Mulji Jetha Market, Bombay 2.
Hasmukhlal & Co.—Chikhal Gulli, Mulji Jetha Market, Bombay 2.
Himatlal Bapulal & Co.—Navi Gulli, Mulji Jetha Market, Bombay 2.
Himatlal, H., & Co.—Sunder Chowk, Mulji Jetha Market, Bombay 2.
Hind Commercial Co. Ltd., The.—Building No. 72, Champa Gulli Bombay 2.
Hirachand Gopalji & Co.—Pragraj Gulli, Mulji Jetha Market, Bombay 2.
Hiralal Ramanlal & Co.—Champa Gulli, Bombay 2.
Hiralal Harakhchand & Co.—129, Bazar Gate Street, Fort, Bombay 1.
H. Valimamad H. Jamal.—Noormahamed Sons, 223, Ali Cottage Chakala Street, Bombay 3.
H. V. & Co.—Krashnaraj Gulli, Mulji Jetha Market, Bombay 2.
Ibrahim Haji Eliyas & Sons.—Building No. 65, Chakala Street Bombay 3.
Inasu, C. L.—Building No. 418, 2nd Floor, Kalbadevi Road, Bombay 2.
Indravadan Chunilal & Co.—Dharamraj Gulli, Mulji Jetha Market Bombay 2.
Ishwarlal & Co.—9, Amar Nivas, Prarthana Samaj, Vithalbhai Patel Road, Bombay 4.
Jagdish & Co.—Champa Gulli, Bombay 2.
Jagjivan Pragji & Co.—Mangaldas Market, 5th Gulli, Bombay 2.
Jagjivan Uttamchand & Co.—No. 45-47, 1st Floor, Bazar Gate Street, Fort, Bombay 1.
Jamnadas, D., & Co.—Mangaldas Market, New Gulli, Bombay 2.
Jamnadas, R., & Co.—Krashnaraj Gulli, Mulji Jetha Market, Bombay 2.
Jamnadas Brothers.—37, Sutar Bazar, Tambakanta, Bombay 2.
Jamnadas Bros.—Sancha Gulli, Mulji Jetha Market, Bombay 2.
Jamnadas Narandas Bros.—Parsottam Nivas, 3rd Floor, Room No. 20, Dadyabeth Agiary Lane, Kalbadevi, Bombay 2.
Jashvantlal Dhansukhlal & Co.—Champa Gulli, Bombay 2.
Javerilal & Bros.—Chandra Chowk, Mulji Jetha Market, Bombay 2.
Jawaharsing Shobhasingh & Co.—Gaumukh Gulli, Mulji Jetha Market Bombay 2.
Jayantilal Haridas.—Lakhmidas Market, 1st Gulli, Bombay 2.
Jayantilal Bros.—Vaghwadi, Kalbadevi Road, Bombay 2.
Jayantilal Chhotalal & Co.—Shyam Bhuvan, 4th Floor, Chira Bazar Gazder Park, Thakurdwar, Bombay 4.
Jayantilal Nanalal.—Ghadial Gulli, Mulji Jetha Market, Bombay 2.
Jayantkumar & Co.—Dwarkesh Gulli, Mulji Jetha Market, Bombay 2.
Jayant & Co.—Swadeshi Market, Maniar Gulli, Bombay 2.
Jaynarayan & Co.—Krashnaraj Gulli, Mulji Jetha Market, Bombay 2.
Jaybharat Mills Cloth Shop.—Gordhan Gulli, Mulji Jetha Market Bombay 2.
Jayshi Morarji & Co.—Sancha Gulli Mulji Jetha Market, Bombay 2.
Jashwantlal & Co.—Sir Vithaldas Gulli, Mulji Jetha Market, Bombay 2.
Jechand, N., & Co.—Champa Gulli, Bombay 2.
Jesukhlal & Co.—Swadeshi Market, New Gulli, Bombay 2.
Jethabhai Khatau & Co.—Krashna Chowk, Mulji Jetha Market, Bombay 2.
Jethalal V. Dave & Co.—Building No. 295, Masjid Bunder, Bombay 3.
Jitendrakumar & Co.—82, 3rd Bhoiwada, Bhuleshwar, Bombay 2.
Jitendra & Co.—Chandra Chowk (4th Gulli), Mulji Jetha Market Bombay 2.
Jivandas Bhanji & Co.—Dwarkesh Gulli, Mulji Jetha Market Bombay 2.
Jivandas Dayalji & Co.—Govind Gulli, Mulji Jetha Market, Bombay 2.
Jivandas Jamnadas & Co.—Chandra Chowk, (3rd Gulli), Mulji Jetha Market, Bombay 2.
Joshi & Mandali.—226, Charni Road, Bombay 4.
Jupiter Mills Cloth Shop.—Gordhan Gulli, Mulji Jetha Market, Bombay 2.
Kajasia, R., & Co.—Mangaldas Market, New Gulli, Bombay 2.
Kakubhai & Co.—Lakhmidas Market, 1st Gulli, Bombay 2.
Kanaysial Navnitlal & Co.—Sir Vithaldas Gulli, Mulji Jetha Market, Bombay 2.
Kantilal & Co.—Chandra Chowk (1st Gulli), Mulji Jetha Market, Bombay 2.

Kantilal Raichand & Co.—Chandra Chowk, Mulji Jetha Market, Bombay 2.
Kantilal Vithaldas & Co.—Ganeshwadi, Mulji Jetha Market, Bombay 2.
Kapad Traders Co.—Champa Gulli, Bombay 2.
Karasia Textile Trading Co.—Silver Mansion, 2nd Floor, 45, Dhanji Street, Bombay.
Karsandas Premji & Sons.—Dharamraj Gulli, Mulji Jetha Market, Bombay 2.
Kathiawar Textile Mills.—Chhipi Chawl, Bombay 2.
Kavasji Mancherji Kapadia & Sons.—Chhipi Chawl, Bombay 2.
Keshavlal Maganlal & Co.—Madhavji Dayal's Building, Old Hanuman Gulli, Bombay 2.
Keshavlal & Co.—Sheikh Memon Street, Bombay 2.
Kikabhai, J., & Sons.—Chikhal Gulu, Mulji Jetha Market, Bombay 2.
Kimatrai, J., & Co.—Bamanji Master Road, Princess Street, Bombay 2.
Krashnalal Gordhandas & Co., C/o Messrs. Bhaichand Rugnath & Co.—Narayan Chowk, Mulji Jetha Market, Bombay 2.
Krashnakumar Jethabhai & Co.—Champa Gulli, Bombay 2.
Kripaldas & Co.—Sir Vithaldas Gulli, Mulji Jetha Market, Bombay 2.
Krushna, S., & Co.—Building No. 30,32, Champa Gulli, Bombay 2.
Kumarpal, K., & Co.—Navi Gulli, Mulji Jetha Market, Bombay 2.
Lakhani & Co.—Building No. 12, Champa Gulli, Bombay 2.
Lalitkumar Muiraj Khatau & Co. -Bhangwadi, Kalbadevi Road, Bombay 2.
Lallubhai, V., & Co.—Champa Gulli, Bombay 2.
Laxminarayan Mansukhlal & Co.—Govind Chowk, Mulji Jetha Market, Bombay 2.
Madhavji, D., & Sons.— Sancha Gulli, Mulji Jetha Market, Bombay 2.
Madhavsinh, J., & Co.—Krashna Chowk, Mulji Jetha Market, Bombay 2.
Madhavsi Thakersi & Sons.—Govind Chowk, Mulji Jetha Market, Bombay 2.
Madhusudan Gordhandas.—Ganeshwadi, Mulji Jetha Market, Bombay 2.
Madhusudan Kalyanji.— Krashna Chowk, Mulji Jetha Market, Bombay 2.
Madhukar Upendrakumar Co.—Building No. 98-100, Champa Gulli, Bombay 2.
Maganlal Umaji.—Madhavrai Gulli, Mulji Jetha Market, Bombay 2.
Mahavir Silk Mills.—Chippi Chawl, Dharamraj Gulli, Mulji Jetha Market, Bombay 2.
Mahendrakumar, K., & Co.—Lakhmidas Market, 3rd Gulli, Bombay 2.
Mahendrakumar Bros. (Private) Ltd.— 20, Lawyers Chambers, Lohar Chawl, Bombay 2.
Mahendralal, B.—Dwarkesh Gulli, Mulji Jetha Market, Bombay 2.
Mahendralal Mansukhlal.—Sancha Gulli, Mulji Jetha Market, Bombay 2.
Mangaldas Jeshangbhai & Bros.—Dharamraj Gulli, Mulji Jetha Market, Bombay 2.
Mangaldas Lallubhai & Co.—Dharamraj Gulli, Mulji Jetha Market, Bombay 2.
Manharlal Kanayalal & Co.—Sunder Chowk, Mulji Jetha Market, Bombay 2.
Manilal Anandji & Co.—Lakhmidas Market, 1st Gulli, Bombay 2.
Manilal Gordhandas & Co.—Gordhan Gulli, Mulji Jetha Market, Bombay 2.
Manilal Mulji, D., & Co.—Sir Vithaldas Gulli, Mulji Jetha Market, Bombay 2.
Manilal Keshavji & Co.—Chandra Chowk, Mulji Jetha Market, Bombay 2.
Mansukhlal, L., & Co.—Govind Chowk, Mulji Jetha Market, Bombay 2.
Mansukhram, N., & Co.—Office Gulli, Mulji Jetha Market, Bombay 2.
Mansukhlal, R. M., & Co.—Gordhan Gulli, Mulji Jetha Market, Bombay 2.
Mathuradas Natverlal & Co.—Dadar Gulli, Mulji Jetha Market, Bombay 2.
Mehta, H. P., & Co.—Swadeshi Market, New Gulli, Bombay 2.
Mehta, J. P., & Co.—Ganeshwadi, Mulji Jetha Market, Bombay 2.
Mehta Parekh & Co.—Building No. 98-100, Champa Gulli, Bombay 2.
Minis, K. M., & Co.—Jal Chambers, Charni Road, Bombay 4.
Mohanlal & Sons.—Building No. 78-84, Champa Gulli, Bombay 2.
Mohanlal Gokaldas & Co.—Umakant Mansion, Dabholkar Wadi, Kalbadevi Road, Bombay 2.
Mohanlal Maganlal.—Chandra Chowk (6th Gulli), Mulji Jetha Market, Bombay 2.
Mohanlal Vallabhdas & Co.—Pragraj Gulli, Mulji Jetha Market, Bombay 2.
Motilal Kanchanlal & Co.—Sir Vithaldas Gulli, Mulji Jetha Market, Bombay 2.
Morarji & Sons Private Ltd.—Building No. 259, Kalbadevi Road, Bombay 2.
Morarji Vandravan & Co.—Krashna Chowk, Mulji Jetha Market, Bombay 2.
Morarji Velji & Sons.—Govind Chowk, Mulji Jetha Market, Bombay 2.
Mukul, B., & Co.—Champa Gulli, Bombay 2.
Mulchand & Co.—Chandra Chowk, (3rd Gulli), Mulji Jetha Market, Bombay 2.
Mulchand Hirachand & Sons.—Madhavrai Gulli, Mulji Jetha Market, Bombay 2.
Mulchand Vimalchand & Co.—Govind Chowk, Mulji Jetha Market, Bombay 2.
Mulji Jetha & Co.—Vithalwadi, Bombay 2.
Nagin Bros.—Lakhmidas Market, 2nd Gulli, Bombay 2.
Nagindas, B., & Co.—Narayan Chowk, Mulji Jetha Market, Bombay 2.
Nagindas, D., & Co.—Govind Gulli, Mulji Jetha Market, Bombay 2.
Naginlal, S., & Co.— Sancha Gulli, Mulji Jetha Market, Bombay 2.
Nanalal Amarchand.—Ghadlal Gulli, Mulji Jetha Market, Bombay 2.
Nanchand Mulchand & Co.— Office Gulli, Mulji Jetha Market, Bombay 2.
Nandlal & Bros.- -Pragraj Gulli, Mulji Jetha Market, Bombay 2.
Nandlal & Co.—Sancha Gulli, Mulji Jetha Market, Bombay 2.
Nandlal, P., & Co.—Swadeshi Market, Radha Gulli, Bombay 2.
Nandlal Ladhabhai & Co.—Ghadlal Gulli, Mulji Jetha Market, Bombay 2.
Narandas, H. B., & Co.—Chandra Chowk (5th Gulli), Mulji Jetha Market, Bombay 2.
Narbheram, R., Co.—Pragraj Gulli, Mulji Jetha Market, Bombay 2.
Narendra & Co.—Krashnaraj Gulli, Mulji Jetha Market, Bombay 2.
Narandas Maneklal & Co.—Dadar Gulli, Mulji Jetha Market, Bombay 2.
Narottamdas Chimanlal & Co. Ltd.—Dadar Gulli, Mulji Jetha Market, Bombay 2.
Narottamdas Nanchand & Co.—Dadar Gulli, Mulji Jetha Market, Bombay 2.
Narottam Hansraj —Swadeshi Market, New Gulli, Bombay 2
Nasher, D. M., & Co. Ltd.—Manek Chamber, 1st Marine Lines, Bombay 1.
Narsidas, D., & Co.—Dadar Gulli, Mulji Jetha Market, Bombay 2.
Nathalal Jamnadas.—Building No. 360, 2nd Floor, Kalbadevi Road, Bombay 2.
Natverlal Chunilal & Co — Sancha Gulli, Mulji Jetha Market, Bombay 2.
Nautamlal Zaverchand & Co.—Gaumukh Gulli, Mulji Jetha Market, Bombay 2.
Navalchand, P., & Co.—Chandra Chowk (2nd Gulli), Mulji Jetha Market, Bombay 2.
Navinchandra Bipinkumar & Co —Madhavrai Gulli, Mulji Jetha Market, Bombay 2.
Navinchandra & Co —Madhavrai Gulli, Mulji Jetha Market, Bombay 2.
Navnitlal & Co.—185, Mulji Jetha Building, Princess Street, Bombay 2.
Navnitlal, M., & Co.—Swadeshi Market, Radha Gulli, Bombay 2
Near East Trading Co. (India), The.—Sancha Gulli, Mulji Jetha Market, Bombay 2.
Nemchand, M., & Bros.—Building No. 381E, 1st Floor, Kalbadevi Road, Bombay 2.
New Bombay Dyeing & Printing Works The —153 155, C P. Tank, Vithalbhai Patel Road, Bombay 4.
New Rajpur Mills Co. Ltd , The —Dharamraj Gulli, Mulji Jetha Market, Bombay 2.
New Textile Ltd., The.—Dharamraj Gulli, Mulji Jetha Market, Bombay 2.
Niranjan, P., & Co.—Sunder Chowk, Mulji Jetha Market, Bombay 2.
N. M. Bros.— Vithalsayna Building., Luhar Chawl, Bombay 2.
Non, B. C., & Bros.—Madhavrai Gulli, Mulji Jetha Market, Bombay 2.
Nyalchand Ratanji & Co.—Ghadlal Gulli, Mulji Jetha Market, Bombay 2.
Ochhavlal & Sons.—Krashnaraj Gulli, Mulji Jetha Market, Bombay 2.
Omkarmal & Co.—Goraj Gulli, Mulji Jetha Market, Bombay 2.
Pendse, L., & Co.—190, Charni Road, Bombay 4.
Parekh Bros.—Madhavrai Gulli, Mulji Jetha Market, Bombay 2.
Parikh, P. J., & Co.—Vithalwadi, Bombay 2.
Parsottam Govindji & Sons—Krashna Chowk, Mulji Jetha Market, Bombay 2.
Parsottam Jamnadas & Co.—Govind Chowk, Mulji Jetha Market, Bombay 2.
Parsottam Lalji.—Ghadlal Gulli, Mulji Jetha Market, Bombay 2.
Parsottam Surchand & Co.—Mangaldas Road, Bombay 2.
Patel Ghanshyamdas & Co.—Dharamraj Gulli, Mulji Jetha Market, Bombay 2.
Patil Brothers.—Karsandas Mulji Building., Old Hanuman Gulli, Bombay 2.
Pioneer Piecegoods Co.—Goraj Gulli, Mulji Jetha Market, Bombay 2.
Popatlal Juthabhai.—Lakhmidas Market, 3rd Gulli, Bombay 2.
Prabhodhchandra & Co.—Ghadlal Gully, Mulji Jetha Market, Bombay 2.
Prabodhchandra Himatlal & Co.—Dadar Gulli, Mulji Jetha Market, Bombay 2.
Prabhat Patel Depot.—Champa Gulli, Bombay 2.
Prabhat Thread Co.—33, Dukkar Wadi, Chira Bazar, Gasder Park, Thakurdwar, Bombay 4.
Prabhudas Vrajlal.—Goraj Gulli, Mulji Jetha Market, Bombay 2.
Prabhulal, P., & Co.—Whiteway Laidlaw Building, 2nd Floor, Hornby Road, Fort, Bombay 1.
Pragdas Mathuradas Bombay Private Ltd.—28/30, Anantwadi, Bhuleshwar, Bombay 2.

Pragji, J., & Co.—Lakhmidas Market, 1st Gulli, Bombay 2.
Pratapsinh Karansinh & Co.—Shop No. 10, Chandra Chowk, Mulji Jetha Market, Bombay 2.
Pratapsinh & Co.—Dwarkesh Gulli, Mulji Jetha Market, Bombay 2.
Pravin Brothers.—145, Kavel Street, Kalbadevi Road, Bombay 2.
Pravinchandra, M., & Co.—Ghadial Gulli, Mulji Jetha Market, Bombay 2.
Premchand Gomaji Sons & Co.—Vithalwadi, Bombay 2.
Premchand Kachrabhai & Co.—Champa Gulli, Bombay 2.
Premji Khushal & Co.—Chandra Chowk, Mulji Jetha Market, Bombay 2.
Radheshyam Shambhunath.—Chandra Chowk (6th Gulli), Mulji Jetha Market, Bombay 2.
Raghunath & Co.—Govind Gulli, Mulji Jetha Market, Bombay 2.
Raghunath & Co.—Champa Gulli, Bombay 2.
Raghunath Ramchandra Samant & Bros.—Champa Gulli, Bombay 2.
Rajnikant Bros.—Dharamraj Gulli, Mulji Jetha Market, Bombay 2.
Rajiv & Co.—Sir Vithaldas Gulli, Mulji Jetha Market, Bombay 2.
Ramanlal Ratilal & Co.—Chandra Chowk (2nd Gulli), Mulji Jetha Market, Bombay 2.
Ramesh & Co.—Girilila Building, Champa Gulli, Bombay 2.
Rameshchandra & Co.—Vithalwadi, Bombay 2.
Rameshchandra Jamnadas & Co.—Krashnaraj Gulli, Mulji Jetha Market, Bombay 2.
Rameshchandra Kantilal & Co.—Chikhal Gulli, Mulji Jetha Market, Bombay 2.
Rameshkumar & Brothers.—Vithalbhai Patel Road, Bombay 4.
Rameshkumar Dawda & Co.—Chandra Chowk, Mulji Jetha Market, Bombay 2.
Ramnarain Morarji & Co.—Building No. 20, Vithalwadi, Bombay 2.
Ramniklal & Bros.—Ghadial Gulli, Mulji Jetha Market, Bombay 2.
Ramniklal Bhikhabhai & Co.—Gaumukh Gulli, Mulji Jetha Market, Bombay 2.
Ramniklal Chhotalal.—Navi Gulli, Mulji Jetha Market, Bombay 2.
Ranchhoddas, B., & Co.—Narayan Chowk, Mulji Jetha Market, Bombay 2.
Ranchhoddas Bhanji & Co.—Pragraj Gulli, Mulji Jetha Market, Bombay 2.
Ranjitsinh Dharamsi.—Building No. 105/107, Old Hanuman Gulli, Bombay 2.
Rasiklal & Co.—Krashnaraj Gulli, Mulji Jetha Market, Bombay 2.
Rasiklal & Co.—Building No. 30, Ramwadi, Kalbadevi Road, Bombay 2.
Rasiklal Chandrakant & Co.—Sancha Gulli, Mulji Jetha Market, Bombay 2.
Rasiklal & Co.—Office Gulli, Mulji Jetha Market, Bombay 2.
Rasiklal Jethalal & Co.—Dadar Gulli, Mulji Jetha Market, Bombay 2.
Rasiklal Nagindas & Co.—Dadar Gulli, Mulji Jetha Market, Bombay 2.
Rasiklal Manilal & Co.—Chandra Chowk (4th Gulli), Mulji Jetha Market, Bombay 2.
Ratansi Gopalji.—Sir Vithaldas Gulli, Mulji Jetha Market, Bombay 2.
Ratilal Harilal & Co.—Building No. 261, Masjid Bunder, Bombay 3.
Ratilal Kantilal & Co.—63 65, Cathedral Street, Bhuleshwar, Bombay 2.
Ratilal, R., & Co.—Chandra Chowk, Mulji Jetha Market, Bombay 2.
Sameshwar, V. D. & Co.—Chandra Chowk, Mulji Jetha Market, Bombay 2.
Sanghvi Bros.—29, Bhangwadi, Kalbadevi Road, Bombay 2.
Sanghvi Mody & Co.—Lentin Chambers, Dalal Street, Fort, Bombay.
Sarabhai, M., & Sons.—Office Gulli, Mulji Jetha Market, Bombay 2.
Saralal Laxmichand (Textile).—Sheikh Memon Street, Bombay 2.
Shah & Co.—Sancha Gulli, Mulji Jetha Market, Bombay 2.
Shah, N. M., & Co.—Lakhmidas Market, 1st Gulli, Bombay 2.
Shah, N. M., & Co.—Navi Gulli, Mulji Jetha Market, Bombay 2.
Shah, S. B., & Co.—Lakhmidas Market, 2nd Gulli, Bombay 2.
Shashikant Jayant & Co.—Navi Gulli, Mulji Jetha Market, Bombay 2.
Shamaldas, N. V., & Co.—Chandra Chowk (8th Gulli), Mulji Jetha Market, Bombay 2.
Shantilal & Co.—Lakhmidas Market, 3rd Gulli, Bombay 2.
Shantilal Chhotalal & Co.—Shyam Bhuvan, 3rd Floor, Chira Bazar, Gazder Park, Thakurdwar, Bombay 4.
Shantilal Kalidas & Bros.—Sancha Gulli, Mulji Jetha Market, Bombay 2.
Shantilal Manilal & Co.—Mangaldas Market, 2nd Gulli, Bombay 2.
Shantilal Parshottamdas & Co.—Dharamraj Gulli, Mulji Jetha Market, Bombay 2.
Shantilal Vithaldas & Co.—1st Floor, Lakhmidas Market, 3rd Gulli, Bombay 2.
Shapurji & Co.—Sir Vithaldas Gulli, Mulji Jetha Market, Bombay 2.
Shashikant & Brothers (India) Ltd.—Building No. 52, Dadysheth Agiary Lane, Kalabadevi Road, Bombay 2.
Sheth & Co.—Building No. 72, Champa Gulli, Bombay 2.
Sheth Brothers & Co.—165, Dr. Viegas Street, Kalbadevi Road, Bombay 2.
Shreekant Textile.—New Citizen Bank Building, 2nd Floor, Palton Road, Carnac Road, Bombay.
Shree Krashna Agency.—Chandra Chowk, Mulji Jetha Market, Bombay 2.
Shree Ram Mills Cloth Shop, Dharamraj Gulli, Mulji Jetha Market, Bombay 2.
Sunderdas Shreechand.—Building No. 117/119, Old Hanuman Gulli, Bombay 2.
Sunderdas Thakershi & Bros.—Chandra Chowk, Mulji Jetha Market, Bombay 2.
Surajmal & Sons Ltd.—Vithalwadi, Bombay 2.
Surat Cotton Spg. & Wvg. Mills Co. Ltd., Govind Gulli, Mulji Jetha Market, Bombay 2.
Suresh & Co.—Champa Gulli, Bombay 2.
Sureshbhai & Co.—Chandra Chowk (8th Gulli), Mulji Jetha Market, Bombay 2.
Surendra Rasiklal & Co.—Krashnaraj Gulli, Mulji Jetha Market, Bombay 2.
Surendra Somalal & Co.—Chikhal Gulli, Mulji Jetha Market, Bombay 2.
Suryakant Jamnadas.—Champa Gulli, Bombay 2.
Suryakant, K., & Co.—Pragraj Gulli, Mulji Jetha Market, Bombay 2.
Sushilkumar & Co. C/o. Messrs Ramniklal Bhikhabhai & Co.—Govind Chowk, Mulji Jetha Market, Bombay 2.
Tayabmamad Haji Musa & Co.—Karim Building, Mohamadali Road, Bombay 3.
Textile Trading Co.—Great Social Building., Sir P. Mehta Road, Fort, Bombay 1.
Thakersi Mulji & Co.—Krashna Chowk, Mulji Jetha Market, Bombay 2.
Thakkar, M. R., & Co.—Lakhmidas Market, 1st Gulli, Bombay 2.
Thana Stores.—Building No. 72, Champa Gulli, Bombay 2.
Tribhowan Nemchand & Co.—67, Bazar Gate Street, Fort, Bombay 1.
Tulsidas Mohanlal & Co.—Daya Mandir, Masjid Bunder, Bombay 3.
Tulsidas V. Patel.—Swadeshi Market, New Gulli, Bombay 2.
Udhavdas Mulchand.—Krashna Chowk, Mulji Jetha Market, Bombay 2.
Vadilal Limited.—Champa Gulli, Bombay 2.
Vadilal Kashidas Ltd.—Madhavrai Gulli, Mulji Jetha Market, Bombay 2.
Vadilal Vrajlal & Co.—186, Pirbhai Mansion 2, Princess Street, Bombay 2.
Vallabhdas, J., & Co.—Chikhal Gulli, Mulji Jetha Market, Bombay 2.
Vallabhram, N., & Co.—Lakhmidas Market, 2nd Gulli, Bombay 2.
Vallabhdas Mathuradas & Co.—Sancha Gulli, Mulji Jetha Market, Bombay 2.
Vallabhdas Madhavji & Co.—Gaumukh Gulli, Mulji Jetha Mark t, Bombay 2.
Vallabhdas Mohanlal & Co.—Ghia Building, 1st Floor, Princess Street, Bombay 2.
Varjivandas Padamsi & Co.—Govind Gulli, Mulji Jetha Market, Bombay 2.
Vasani, K., & Co.—Goraj Gulli, Mulji Jetha Market, Bombay 2.
Vasanji & Co. Private Ltd.—Building No. 250, Kalbadevi Road, Bombay 2.
Vasantkumar Natverlal & Co.—Lakhmidas Market, 1st Gulli, Bombay 2.
Vasantrai, N., & Co.—Building No. 30, Champa Gulli, Bombay 2.
Vasantrai Nagji & Co.—Thakarsi Gopalji Building, Old Hanuman Gulli, Bombay 2.
Vasantlal, J., & Co.—Chandra Chowk, Mulji Jetha Market, Bombay 2.
Vashanji Lalji & Sons.—Building No. 103, 2nd Floor, Princess Street, Bombay 2.
Vasudev Manilal & Co.—Chandra Chowk, Mulji Jetha Market Bombay 2.
Vijaykumar & Co.—Ganeshwadi, Mulji Jetha Market, Bombay 2.
Vikas Ltd.—Madhavrai Gulli, Mulji Jetha Market, Bombay 2.
Vinayak Bros.—Sancha Gulli, Mulji Jetha Market, Bombay 2.
Vinaychandra Durlabhdas & Co.—Building No. 67, Tambakanta Bombay 3.
Vinaychand & Co.—Chhipi Chawl, Bombay 2.
Vinaykant Trading Co.—Madhavrai Gulli, Mulji Jetha Market, Bombay 2.
Vinodrai & Co.—Sir Vithaldas Gulli, Mulji Jetha Market, Bombay 2.
Vinodchandra & Co.—Pragraj Gulli, Mulji Jetha Market, Bombay 2.
Vishvnath Bhagwanji.—Chandra Chowk (6th Gulli), Mulji Jetha Market, Bombay 2.
Vithaldas, C., & Co.—Parekh Building., Old Hanuman Gulli, Bombay 2.
Vithaldas & Co. Ltd.—No. 16-18, Cross Lane, Champa Gulli, Bombay 2.
Vithaldas Vashanji.—Ghadial Gulli, Mulji Jetha Market, Bombay 2.
Vithaldas Vishram & Sons.—Ghadial Gulli, Mulji Jetha Market, Bombay 2.
Yarn Trading Co.—95, Tambakanta, Bombay 3.
Zaveri Bhagwanji Premchand.—Chikhal Gulli, Mulji Jetha Market, Bombay 2.
Zaveri Hemchand Zaverchand.—Sancha Gulli, Mulji Jetha Market, Bombay 2.

PIPES AND FITTINGS MERCHANTS

"Abco."—30, Sarang Street, Bombay 3. Phone : 39032.
REDEALLY, B. M., & CO.—127, Sarang Street, Bombay 3. Phone : 30900. Grams : "ALERTDEAL."
Abdulhussein Escofaly Contractor.—91-93, Bapu Khote Street, Bombay 3.

Abdullabhai Faizullabhai Ltd.—Khokha Bazar, Bombay 3.
ADAMALLY SONS LTD.—277, Nagdevi Street, Bombay 3. Grams: "ADAMSONS." Phone: 23819.

Adamji Lookmanji & Co.—Rahimtoola House, Homji Street, Fort.
ADVANCE TUBE CO.—99, Nagdevi Street, Bombay 3. Phone: 30522. Grams: "ELBOWS."

A. G. KARIMJI CALCUTTAWALA.—Pipes Fittings and Sanitarywares, 82/84, Gulalwadi, Kika Street, Bombay 4. Phone: 73636. Grams: "SANITARY."

Allied Trading Co.—39, Nagdevi Street, Bombay 3.
A. Vallabhdas & Sons.—37, Nagdevi Street, Bombay 3.
Baboolal & Brothers.—113, Nagdevi Street, Bombay 3.

BABULAL & BROS.—26, Nagdevi Cross Lane, Bombay 3. Phone: 30930. Grams: "FIREFLY."

Badruddin Hasanali & Co.—43, Gulalwadi, Kika Street, Bombay 4.
Balmer Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate, Fort.

BHATHENA, B. N., & CO.—100, Nagdevi Street, Bombay 3. Stockists of Copper, Brass, Galvanized and Steam Pipes and Fittings, Asbestos Goods, Flax Fire Hose, G.M. and C.I. Valves and Cocks, etc. Tel. No. 23155. Grams: "TEENAZ."

Bombay Burma Hardware Store.—128, Nagdevi Street, Bombay 3.

BOMBAY TUBE AND HARDWARE MART PRIVATE LIMITED, THE.—284, Nagdevi Street, Bombay 3. Phone: 23604. Importers, Stockists and Dealers of Pipes, Tubes and Fittings, Valves, Gauges, Thermometers, Boiler Plants, Pumps, Tubes and Instruments, Air Compressors, Meters, Steam Traps, Textile and Industrial Machinery, Packing and Jointings. Agents for TRACTA Ball and Roller Bearing Extractors, STANWIN and SHACKLETON Rotary Gear Pumps for Viscous Liquids, Alkali, Acids, Oils, etc. and for LACO Pipe Bending Machinery.

Brady, W. H., & Co., Ltd.—Royal Insurance Building, Churchgate Street, Fort.
Calcutta Iron & Steel Co. Ltd.—68 D, Mohamedali Road, Bombay 3.
Central Tool & Equipment Co. 32, Sarang Street, Bombay 3.
Chandulal Narandas.—96, Kika Street, Bombay 4.
Chhabildas & Co.—78-A, Abdul Rehman Street.

CRESCENT TRADING CO.—48, Bhajipala Lane, Bombay 3. Phone: 29840. Grams: "WATERMETER." Stockists of pipes, fittings, valves, Cocks for Water, Steam and Air, C.I. Sluice Valves, Fire fighting equipment and Boiler fittings.

C. E. Contractor & Co.—82, Nagdevi Cross Lane, Bombay 3
Dalatram Ratanji & Company.—208, Nagdevi Street, Bombay No. 3
Desai Brothers & Co.—77, Medows Street, Fort.

EAST ASIATIC CO. (INDIA) PRIVATE LTD., THE.—Wavell House, Graham Road, Ballard Estate, Bombay. Phone: 26-2711 (8 lines). Offices at Madras, Calcutta, New Delhi.

EASTERN TUBE & HARDWARE MART.—123, Narayan Dhuru Street, Bombay 3. Phone: 30959.

ESUFALLY ADAMJI & CO. (ESTD. 1885).—154, Nagdevi Street, Bombay 3. Phones: 30775; Residence: 36141. Grams: "TRAVELLER." Burmah-Shell Agents for Madhya Pradesh.

Fakhruddin Noorbhai & Co.—105, Kika Street, Bombay 4.
Fidahusein Hasanali.—46, Gulalwadi, Kika Street, Bombay 4.
Gannon, Dunkerley & Co., Ltd.—Chartered Bank Building, Mahatma Gandhi Road, Fort.
Garlick & Co. Private Ltd.—Haines Road, Jacob Circle.
General Tube Ltd., The.—142-44, Nagdevi Street, Bombay 3.
Gin Stores Co.—76, Nagdevi Cross Lane, Bombay 3.
Globe Store Co., The.—Sitaram Building, near Crawford Market, Hornby Road.
Gokaldas Shivlal & Co.—76, Kika Street, Bombay 4.

GOVARDHANDAS, P. A.—140, Nagdevi Street, Bombay 3. Phone: 39812. Grams: "WHEELVALVE". Manufacturers and Suppliers of Brass, Gun-metal, Cast Iron, Valves & Cocks, G.I., W.I., M.S. Pipes and Fittings, Cast Iron Pipes, Specials, Rainwater Fittings Water Meters, Sanitary, Laboratory Fittings, Flushing Cisterns, Belts & Nuts and Tube Well Accessories etc.

HATIMBHOY GOOLAMHUSEIN & BROS.—(Estd. 1894), 193-A, Nagdevi Street, Bombay 3. Phone: 20782. Grams: "FITTINGS."

Heptoola Noorudin & Co.—152-54, Nagdevi Street, Bombay 3.
Herman & Mohatta, B. R., Ltd.—People's Building, Sir Phirozshah Mehta Road, Fort.
Hindustan Tube Company.—168, Nagdevi Cross Lane, Bombay 3.
Hiralal Gokaldas Dalal & Co.—45, Nagdevi Cross Lane, Bombay 3.
I. C. I. (India) Private Ltd.—P. B. No. 310, Bombay 1.

INDIA PIPE FITTINGS CO., THE.—146, Nagdevi Street, Bombay 3. Phone: 39917. Grams: "BRASS-COCK."

Indian Pipe Fittings Co.—158-60, Narayan Dhuru Street, Bombay 3.
Indo Bombay Trading Co.—34, Nagdevi Street, Bombay 3.
Jafferjee Hussanally & Sons.—68, Nagdevi Street, Bombay 3.
Jashwantlal Manecklal & Co.—40, Churchgate Street, Fort.
Jayantilal & Brothers.—39, Bibijan Street, Nagdevi, Bombay 3.

JAYALTILAL GOKALDAS & SONS.—232, Masjid Bunder Road, Bombay 3. Phone: 39895. Pipes, Pipe-fittings, Hardware & Sanitary Wares.

J. Champaklal & Co.—44, Nagdevi Cross Lane, Bombay 3.

JIVRAJ & VRAJLAL.—122, Nagdevi Street, Bombay 3. Phone: 30138. Grams: "SANIPIPES."

Joshi & Co.—207, Kumbharwada 6th Lane, Golpitha, Bombay 4.
Kamlashankar P. Joshi.—72/80, Nagdevi Cross Lane.
K. Chimanlal & Co.—107-A, Nagdevi Street, Bombay 3.
K. S. Parikh & Co.—40, Hararwalla Building, Golpitha, Bombay 4.
Kooverji Devshi & Co.—164, Lohar Street.
Kutch Sanitary & Plumbing Works.—Matungs, Bombay 19.
Machine Tools & Implements.—24, Nagdevi Cross Lane, Bombay 3.
Maganlal Pranlal & Sons.—105, Nagdevi Street, Bombay 3. Phone: 23015. Grams: 'Armpipe' Pipe Fittings, Sanitary Wares & Mill Gin Stores.
Mashruwala, C. M., & Co.—172-74, Nagdevi Street, Bombay 3.
McKenzies Ltd.—Sewri.

MEHTA NANAVATI & CO.—96, Narayan Dhuru Street, Bombay 3. Phone: 39545. Grams: "REDJOINT."

MERVYN & SPITTAM.—Manufacturers of Pipe-Fittings, 51, Nakhoda Street, Pydhonie, Bombay 3. Phone: 73661. Grams: "MERSPIT."

M. N. PADIA & CO.—70, Kika Street (Gulalwadi), Bombay 4. Phone: 72383.

M. J. PATEL & CO.—46, Nagdevi Street, Bombay 3. Phone: 39183. Grams: "REDTEE". Direct importers & Stockists. G. I. & Steam Pipes, Boiler Tubes & Valves, C. I. Pipes & Specials. Asbestos Goods, Engineering Stores & Factory Requisites.

MODERN TUBE & SANITARY STORES.—48, Nagdevi Street, Bombay 3. Phone: 28104 Office; 73174 Resi. Grams: "MORTUBE." Largest Stockists of Cast Iron Pipes & Fittings and Brass Cocks.

Muljibhai Chhotalal & Co.—76-78, Nagdevi Street, Bombay 3.

NAGDEVI TOOL-STEEL MART.—186-88, Nagdevi Street, Bombay 3. Phone: 29058. Grams: "TENDERERS."

NANALAL AMBALAL & CO. (ESTD. 1917).—69, Nagdevi Street, Bombay 3. Phone: 28754. Grams: "VILVALHIRO." Regional Sole Distributors for (1) Stoneware, Glazed Pipes manufactured by the Perfect Pottery Co., Ltd., Jabalpur and (2) Parry's 'EID' brand Sanitaryware. Leading wholesalers of Galvanized Iron, Cast Iron, Asbestos Cement Pipes and Fittings and Sanitaryware.

National Hardware & Stores Supply Co.—Post Box 3146, Bombay 3. Phone: 33462. Grams: "REQUISITES."
New India Hardware Mart.—152, Narayan Dhuru Street, Bombay 3.
New India Pipes Ltd.—50, Bhajipala Lane, Bombay 3.

N. MOHANLAL & CO.—124, Nagdevi Street, Bombay 3. Phone: 27545. Grams: "JEPIBELT."

Noble Tube Co.—141, Nagdevi Street, Bombay 3.

NOOROODIN SHAIKADAM & CO.—159, Nagdevi Street, Bombay 3. Phone: 23894.

Nowroji N. Vakil & Co.—Shahru Castle, Mohamedali Road, Bombay 3.

OCHHAVLAL, R., & CO.—86, Nagdevi Street, Bombay. Phone 30114. Grams: "VALVES." Pipe Fittings, Asbestos Goods, Valves & Cocks and Boiler Mountings.

PANALAL MOHANLAL & CO.—89, Nagdevi Street, Bombay 3. Direct Importers of Copper, Brass, Galvanised Black Steam Pipes, Fittings and Gun Metal Fittings & Valves. Phone: 30211.

PATEL BROTHERS & CO.—41, Nagdevi Cross Lane, Bombay 3. Phone: 29606. Grams: 'HASTY'. Importers of Copper, Brass, Galvanised & black steam pipe fittings & Gunmetal fittings & Valves.

Ranade & Partners.—Bombay Mutual Annexe, Gunbow Street, Bombay.
Ranpal & Son.—436, Shradhanand Road, Bombay 19. Sanitary Wares and Pipe Fittings Merchants.
R. Babulal & Co.—163, Nagdevi Cross Lane, Bombay 3.

ROYAL HARDWARE MART.—108, Nagdevi Street, Bombay 3. Phone: 30621. Grams: "MANILAROPE."

Royal Tube Corporation.—94, Nagdevi Street, Bombay 3.
Shah Machine Tools Co., 75, Abdul Rehman St. Bombay 3.

SHAH PATEL & CO.—109-111, Nagdevi Street, Bombay 3. Phone : 20709. Grams : "LUCKYCHAP." Agents for C. I. Pipes and Specials up to 48" dia.

SHARMAN SONS.—46, Nagdevi Street, Bombay 3. Phone : 20589. G.I. Pipes & Fittings, Armoured Hose & Rubber Pipes, Gunmetal Cocks & Valves etc.

Sheth Stores Trading Co.—85-87, Nagdevi Street, Bombay 3.
Sivramkrishnan, M.—Haji Manzil, 82-86, Abdul Rehman Street, Bombay 3.

S. SEVANTILAL & CO.—246, Masjid Bunder Road, Bombay 3. Grams : "SEVANTICO." Mill Gin Stores, Pipe-Fittings Hardware & Engineering Tools Merchants.

STANDARD PIPES & FITTINGS CO.—93-A, Nagdevi Street, Bombay 3. Grams : "STANOPIPES". Phone : 23444. Importers & Stockists of Pipes & Fittings, Sanitary Wares, Hardware & Mill Stores.

Standard Trading Co.—Vithal Sayana Building No. 2, 43-75, Lohar Street, Bombay 2.
Steel Industries of Hindustan Ltd.—Magazine Street, Darukhana, Bombay 10.

TALIB & CO.—Talib House, 104, Nagdevi Street, Bombay 3. Phone No. 27977. Grams : "TALIBCO." Pipes, Fittings & General Hardware Merchants.

TEXTOOL TUBE CO.—P.B. No. 3271, 9, Abdul Rehman Street, Bombay 3. Grams : 'TEXTOOL.'

THAKORLAL & CO.—47, Nagdevi Cross Lane, Bombay 3. Phone : 20498. Grams : "PIPEWARE."

TIRATHRAM KASHMIRILAL.—89, Nagdevi Cross Lane, Bombay 3. Phone : 30041 (Ext. 16). Grams : "GIRDERS". Specialists in Casing boring Pipes.

Trivedi, S. G.—90, Nagdevi Street, Bombay 3.

TUBE TOOLS AND HARDWARE MART.—94, Nagdevi Street, Bombay 3. Phone : 39645. Grams : "EVERJOY."

UNION TUBE & HARDWARE MART.—84-86, Nagdevi Cross Lane, Bombay 3. Phone : 39011. Grams : "UNIONTUBE."

UNITED MILL STORE (INDIA) ESTD. 1943.—93, Narayan Dhuru Street P.O. Box No. 3256, Bombay 3. Phone : 30431. Grams : "SUREWIN." On Govt., Railway & Municipal Lists. Importers of Pipes, Fittings, Mill Gin Stores and Hardware.

United Tube & Hardware Co.—146, Nagdevi Street.
Vadilal & Co., C.—40, Nagdevi Cross Lane, Bombay 3.

VASUDEV & COMPANY.—48, Bibijan Street, Bombay 3. Phone : 20677. Grams : "VASU METALS."

Venus Trading Co.—122, Barbhai Moholla, Narayan Dhuru Street, Bombay 3. Phone : 32147.
Victoria Sanitary Stores.—54, 3rd Bhoiwada, Bhuleshwar, Bombay 2.
Vinubhai Chandulal & Co.—65, Nagdevi Street, Bombay 3.

PLASTIC MACHINERY MFRS.

BRIMCO PLASTIC MACHINERY CORPORATION.—Bombay, Thermoplastic Extruders, Injection moulding machines, etc. Sole Distributors : William Jacks & Co. Ltd., Bharat House, Apollo Street, Fort, Bombay.

PLASTIC MOULD MANUFACTURERS

PLASTIC DIES COMPANY.—Opp. Pashabhai Patel & Co., Ltd., Kolwada, Sion, Bombay 22. Phone : 61005. Engineers and Tool Makers. (High class finish and reliable materials) Specialists in plastic & all sorts of moulding Dies, Engravers & Die Sinkers.

PLASTIC TUBINGS

AMRATLAL CHHAGANLAL & CO.—143, Nagdevi Street, Bombay 3. Phone : 20066. Dealing in Suction, Delivery, & Fire Hoses ; Surgical, Rubber & Plastic Tubings & Sheetings.

PLASTICS

Abdul Kayam Esufally & Bros.—102, Abdul Rehman Street, Bombay 3.

ALLIED TRADERS (INDIA).—100, Masjid Bunder Road, Bombay 3. Phone C/o 30830. Grams : "HEAT PLAST." Wholesale & Retail Dealers of Polystyrene, Polyethylene Acetate and all Plastics Raw Materials.

Artbangles Private Limited.—204, Dr. Dadabhai Naoroji Road, Fort.
Associated Agencies (Bombay).—47, Podar Chambers, Parsee Bazar Street.
Aurora Toys & Novelties.—"Parimal", Kelushar Road South, Shivaji Park, Dadar, Bombay 28.

BAKER BROTHERS.—31, C.P. Tank Road, Bombay 4. Phone : 72621. Grams : "BAKERCOLOR." Suppliers of Plastic Lacquer and Chemicals for "FLEXIBLE" and Solid Plastic Products.

Balmer Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate, Fort.
Bhagwandas Chhatrabhuj & Co.—20, Hamam Street, Fort.

BOMBAY AGENCY.—95, Sarang Street, Akbar Bldg., 1st floor, near Abdul Rehman Street, Bombay 3. Phone : Office : 36117. Resi. : 71774. Godown : 242041. Sole Agents for : Bombay Plastic Industries : Moulders of B.P.I. brand plastic articles.

BRIGHT BROS. PRIVATE LTD.—156-A, Tardeo Road, Bombay 7. Grams : "BRIBOS." Phones : 71454 & 77455. Mfrs. of quality Plastic Articles for Home, Industry, Office and Gift advertising.

Chimanlal Patel & Co.—174, Hornby Road, Fort.

CIBA DYES PRIVATE LTD.—Royal Insurance Bldg., Jamshedji Tata Road, Churchgate Reclamation, Bombay 1. Phone : 37184, 37185, 37186 and 37187. Post Box 479.

DILRANJAN PLASTIC CORPORATION.—10, Churchgate Street, Fort, Bombay 1. Show rooms : 52, Abdul Rehman Street, Bombay 3. Phone : 252527. Grams : "DILIPRINT." Manufacturers of Plastic Complimentary & Stationery Articles and Plastic Inflatable Toys.

Dominion Plastic Industries.—(A Garware Concern), Chowpatty Chambers, Sandhurst Bridge, Bombay 7. Phone : 32801. Grams : "GARWARECAR."

EBRAHIM ALLIBHOY & SONS (ESTD. 1934). Importers and Exporters. 260-64, Abdul Rehman Street, Bombay 3. Phone : 35863.

EMBI DESAI & CO.—Office : Dadyseth House, Cawasji Patel Street, Fort, Post Box 1116, Bombay 1. Phone : 253082 & 253772. Depot : 108, Ardeshir Dady Street, Near C. P. Tank, Bombay 4. Process Works : 51, Bhandari Street, Near Round Temple, Bombay 4. Factory : Patel Estate, Goregaon (East), Bombay. Workshop : 8A, Dhobi Wadi, Sett M. N. Charities Compound, Thakurdwar Road, Bombay 2. Phone : 29827. Ahmedabad Office : Jaybhuvan, Inside Balahanuman, Ahmedabad. Grams : "ASHWINCO." Phone : 28182.

GREAT INDIA PLASTICS.—4, Swastik Chambers, Carnac Road, Bombay 1. Factory : Goregaon (East). Phone : 84294, manufacturers of : 'POLYETHYLENE', bags, Tubings, Rolls, Soap cases & Combs etc.

Hardcastle, Waud & Co., Ltd.—Alice Building, Hornby Road, Fort.

HINDUSTAN PLASTICS LTD.—Podar Chambers, Fort, Bombay 1. Telephone No. 259261. Telegrams : "ELECTRA" Manufacturers of JAY BUTTONS, NYLON combs, Industrial and Electrical accessories, advertising, display and decorative items, household articles such as Combs, Bowls, Soap Boxes, Toys, etc. Factory : Superibaug Road, Parel T.T., Bombay 12. Phone : 63021.

Imperial Chemical Industries (India) Private Ltd.—Imperial Chemical House, Dougall Road, Ballard Estate.
Indian Plastics Ltd.—Factory and Head Office at Kandivli, Ghodbunder Road, Pohar Bridge (Western Rly.), Bombay.
Industrial Plastics & Machinery Co.—Vithal Sayana Building No. 1, Lohar Street, Bombay 2.
Iwacom Private Limited.—204, Dr. Dadabhai Naoroji Road, Fort Bombay.

JAGDHIR DESAI & CO.—13, Gunbow Street, Fort, Bombay. Grams : "ALLNOVEL." Phone : 264363. Plastic Dealers and Manufacturers of "Exchequer" Stitchless Products

Jai Hind Plastic & Rubber Industries.—Universal Nut Bolt Factory Compound, Tardeo Road (Lower), Near Diana Cinema, Bombay 7.
Jawahar & Co.—29-31, Dhanji Street, Bombay 3.
J. J. Jhaveri Ltd.—Sir Vithaldas Chambers, Apollo Street, Fort
Kapadia & Co.—19, Sir Phiroshah Mehta Road, Fort, Bombay 1
Kisco India.—315, New Charni Road, Bombay 4.
Kosmek Private Ltd.—Cecil Court, Lansdowne Road, Apollo Bunder, Bombay 1.
Maganlal N. Manir.—63, 3rd Bhoiwada.

MARVIN & CO.—2, Modi Chambers Kennedy Bridge, Bombay 4. Phone : 49448. Grams : "VINMAR." Mfrs. of Plastic Toys & Utility Articles.

MAY & BAKER (INDIA) PRIVATE LTD.—Karimjee House, Sir Phiroozshah Mehta Road, Fort, Bombay 1. Branches : Calcutta, Gauhati, Madras and New Delhi.

M. Dialdas & Sons.—100, Princess Street, Bombay 2.

MONSANTO CHEMICALS OF INDIA PRIVATE LTD.—Wakefield House, Sprott Road, Ballard Estate, Bombay 1. Phone : 26-2624. Grams : "MONSANTO," Bombay. Branch Offices : Monsanto Chemicals of India Private Ltd., The Exchange, 5, Mission Row, 2nd Floor, Calcutta 1. (2) Monsanto Chemicals of India Private Ltd., 3/3, Ajmeri Gate Extn. Scheme, Near Turkman Gate, New Delhi.

MOTCO PLASTICS (T. MOTANDAS & CO.).—Manufacturers of Plastic Advertising Gifts. 1st Marine Street near Metro, Bombay 1. Phone : 242716. Grams : "MOTANCOY."

NATIONAL CARBON COMPANY (INDIA) LTD.—Kasturi Bldg., Jamshedji Tata Road, Bombay 1. Phone: 37684. Grams: "UNICARBIDE." For Polyethylenes, Polyvinyal Chloride, Polystyrene, Resins & Compounds.

Newpack Industries.—Lotus House, 33A, Marine Lines, Bombay 1.

NOBLE PLASTIC WORKS.—23, Mangesh Senoy Street, Fort, Bombay. Phone: 261172. Grams: "ROLLEDGOLD." Manufacturers of Plastic Umbrella Handles.

Norinco Ltd.—P.O. Box 871, Bombay 1.

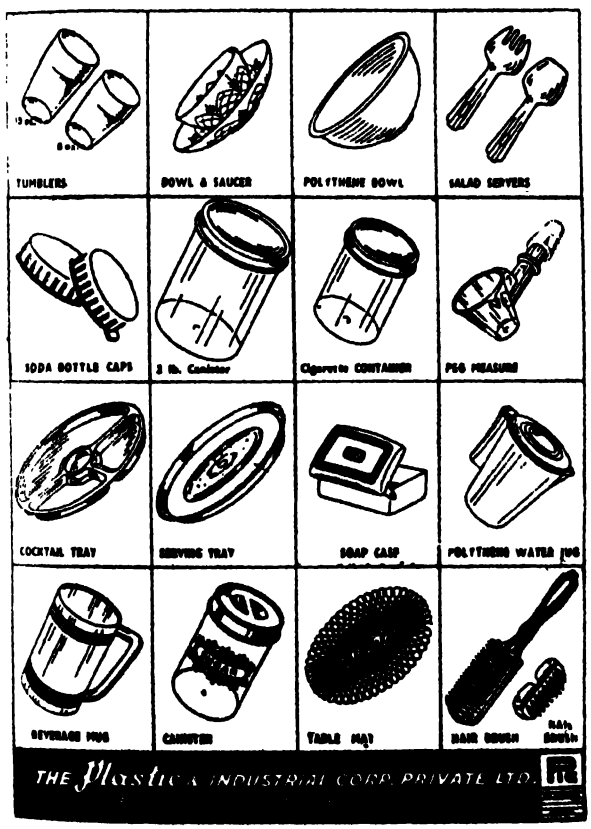
Plastic Extruders Private Ltd.—204, Dr. Dadabhai Naoroji Road, Fort.

POLYCHEM LIMITED.—46/47, Apollo Street, Bombay 1. Phones: 284250, 25-1301. Grams: "POLYCHEMIC."

POLYMER CORPORATION.—Manufacturers & Painters of 'HIPACK' brand Polyethylene bags, Tubular Film & Sheeting. The only manufacturers of Treated Polythene Film. 70, Kansara Chawl, Kalbadevi Road, Bombay 2., Phone: Office: 76457 & Factory 84131. Grams "WALKAL."

PREST-O-LITE.—104, Ghodbunder Road, Santa-Cruz, Bombay 23. Phone: 88197. 217 Cutlery Bazar, Janjikar Street, Bombay 3. Manufacturers of Combs, Toys, Utility & Industrial Articles.

RAMNIKLAL C. KOTHARI & CO.—16, Apollo Street, Bombay 1. Phone: 251632. Grams: "ASTROGEMS." Celluloid and Plastic Tubes, Sheets, Rods and Moulding Powders.



R. L. Bros. & Co.—4th Floor, "Dhan-Nur", Sir Phirozshah Mehta Road, Fort.

R. F. Shah & Co.—12, Bell Lane, Fort.

Rubako Industries.—Behramji Mansion, Sir Phirozshah Mehta Road, Fort.

SELWEL CORPORATION.—Inside Nakhuda Regbey Market, Nakhuda Mohalla, Bombay 3. Dealers in Plastic & Polythene Pipes, tubes, Sheets and Film etc.

Sohal Rangnow & Co.—41, Hamam Street, Fort.

SRINIVAS BROTHERS PRIVATE LTD.—24-B Hamam Street, Fort, Bombay. Phone: Office: 262000. Resd.: 63788. Grams: "PLASMOULD." Managing Director: J. N. Iyer. Sole Agents for B.I.P. Chemicals Ltd., London for U. F. Moulding Powders and Resins and East Anglia Plastics Ltd., London for Cellulose Acetate Moulding Powder.

Sunder Mehta & Co.—412G, Vasantwadi, Kalbadevi Road, Bombay 2.

Totaldas, T.—Botawala Building, 61, Picket Road, Bombay 2.

Trading Co., L. R.—Navsari Chambers, opp. Lloyds Bank, Fort.

TRINITY INDUSTRIAL CORPORATION.—Khandelwal Bhavan, 166 (Hornby Road) Dr. Dadabhai Naoroji, Road, Fort, Bombay 1. Phone: 261150. Grams: "PIVISIWELD." Manufacturers & Dealers of Plastics Sheetings, Complimentary gifts, Polyethelene Packagings, Penguin Brand Plastic Rainwears etc.

TRUTHFUL TRADERS.—Sitaram Buildings. 53, Hornby Road, Bombay 1. (near Crawford Market). Grams: "GOONANIDHI." Importers of Plastic Materials and Manufacturers of Plastic Rainwears, Curtains and other Household furnishings & Decorators.

United Corporation.—National Indian Life Building, 59, Forbes Street, Fort.

United Cottage Industries.—Near Central Bank of India Ltd., Abdul Rehman Street, Bombay 3.

Vibha Industries.—Arches 2-3-4 under Mahalaxmi Bridge, opp. Race Course, Bombay 11.

PLATINUM

MALGHAM BROS.—26, Old Custom House Road, Bombay 1. Phone: 25-2964. Grams: "MALGHAM." Sole Agents for Baker Platinum, London. Manufacturers of Jewellery, Platinum & Palladium, Precious Metal Alloys & Compound, Spinner, etc. Thermocouple Wire, Laboratory Ware, Gauzes, Catalysts, Contacts Pen Points, etc.

PLAYING CARD MANUFACTURERS

METRO PLAYING CARD CO.—Byculla Club, Bellasis Road, Bombay 8. Phone: 75353. Grams: "METROFFSET." Quality playing cards manufacturers.

Pavri Sons & Co.—93-97, Bazargate Street, Fort.

POPULAR FINE ART LITHO WORKS.—Suryodaya Mill Compound, Tardeo, Bombay 7. Phone: 42471. Grams: "GOOLNAR."

Sahu Printers Ltd.—15-A, Elphinstone Circle, Fort, Bombay.

S. G. Kothari & Co.—88-90, Abdul Rehman Street, Bombay 3.

Sharda Paper Box Mfg. Co.—Motiaha's Chawl, Gangadas Hall, Sheikh Memon Street, Bombay 2.

PLUMBERS

(See Coppersmiths, Plumbers, Gasfitters)

PLYWOOD MANUFACTURERS AND DEALERS

Abdoolally Noorbhoy.—122, Abdul Rehman Street, Bombay 3.

Balmer Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate, Fort.

Bawa Glass Co.—Ratan Building, Nagdevi Street, Bombay 3.

Bhimjee Poonja, C., & Sons.—20, Khoka Bazar, Bombay 3.

Bharoomal & Co.—70, Abdul Rehman Street, Bombay 3.

C. Bhimjee Poonaja & Sons.—78, Abdul Rehman Street. On Govt. & Railway List. Phones: 26163 & 22365. Grams: "Fencing."

Excel Importers.—89, Princess Street, Bombay 2.

Expanded Metal Depot.—91-93, Expanded Metal House, Abdul Rehman Street.

FAKHRUDDIN & CO.—43, Abdul Rehman Street, Post Box No. 3066, Bombay 3. Phone No. 34534. Grams: "EXMETAL."

Getz (India) Ltd.—Western India House, Sir Phirozshah Mehta Road, Fort.

INDIAN PLYWOOD MANUFACTURING CO. PRIVATE LTD.—9, Wallace Street, Fort, Bombay 1.

Kantilal Sanghvi & Co.—Mherwan Building, Sir Phirozshah Mehta Road.

Karimji Ebrahimji Arsiwala.—118-20, Abdul Rehman Street, Bombay 3.

Keshowdas Hassanand Karachiwala.—256, Masjid Bunder Road, Bombay 3.

Mahomedally Valji Arsiwala.—76, Abdul Rehman Street, opp. State Bank, Bombay 3.

Marker, S. D., & Co.—Ismail Building, 381, Hornby Road.

Mody & Co., R. E.—Reay Road, Tank Bunder, Bombay 10.

NASH & CO.—103, Abdul Rehman Street, Bombay 3. Govt. & Rly. Contractors and also Dealers in Plywood, Expanded Metal, Galvanised Brass, Copper Wire-nettings, Plain Zinc Sheets, Perforated Brass, Copper Zinc Sheets, Welded Mesh Green Wire-nettings, Asbestos Cement Sheets, Plain Corrugated Veneer Plywood, Masonite, Presswood, Woven Wire Fence and Wire-netting, Decorative Plywood for Furniture as a Teak, Mahogany, Walnut in all sizes and thickness. Phone: 34068.

National Glass House.—Showroom : 72 Abdul Rehman Street, opp. State Bank, Bombay 3. Head Office : 108, Undira Street, Choki Mohalla, Bombay 8.
National Hardware & Stores Supply Co.—30, Khoka Bazar, Sarang Street, Bombay 3.
Phoenix Plywood Depot.—Prospect Chambers Annexe, Hornby Road, Fort.
Premier Glass Traders.—74/78, Dhanji Street, Bombay 3.
Shah & Co., Jaliwala.—" Jaynivas," 36, Abdul Rehman Street, near Pydhonie, corner of Sutar Bazar, Bombay 3.
Tek Trading Corporation.—139, Abdul Rehman Street, Bombay 3.

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TRIBHOVAN NEMCHAND & CO.—51, Bazargate Street, Fort, Bombay 1. Estd. 1911. Phone : 262261. Grams : " HONEY-MOON."

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M. Dialdas & Sons.—190, Princess Street.
National Scientific Instruments Co.—257, Frere Road, Fort, Bombay 1.
Nowroji N. Vakil & Co.—Branch at Shahru Castle, Mohamedalli Road, Bombay No. 3.
Phillips & Co.—Waterloo Mansions, Mayo Road, Fort.
Scientific Instrument Co., Ltd.—Navsari Building, 240, Hornby Road, Fort.
United Potteries & Glassware Mart.—Noble Chambers, Parsi Bazar Street, Fort.

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NATIONAL SURGICAL INSTRUMENT COMPANY.—Office & Works: 301, Haines Road, Worli, Bombay 18. Phone: 40540.

PRECISION TOOLS

BHARAT ENGINEERING STORES.—113, Nagdevi Street, Bombay 3. Grams : " UNIONTOOLS."

PRESENTATION ARTICLES

Abdul Kayum Ebrahim (Estd. 1902).—64, Mohamedalli Road, Bombay 3. Phone : 31279.

BRIGHT BROS. PRIVATE LTD.—156-A, Tardeo Road, Bombay 7. Grams : "BRIBOS." Phone : 77454 55. Specialists in Plastic Gift Advertising Novelties.

CHIMANLAL MANCHAND & CO.—Silverwares, Antiques, Presentation Articles, Engine-turned Silverware. Central Government's Certified Valuers. Show Room :—Opp. Opera House, New Queen's Road. Phone : 30321. Grams : " PLATINUM."

Datta Industries.—Sitaram Bldg., Dadabhai Naoroji Road, Fort, Bombay.

EBRAHIM ALLIBHOY AND SONS (ESTD. 1934).—Importers and Exporters, 260-64, Abdul Rehman Street, Bombay 3. Phone : 38963.
Evans Fraser & Co. (India) Ltd.—Fort House, Hornby Road, Fort.
Gazdar Ltd.,—Taj Mahal Hotel, Bombay.
Grand Bazar.—25, Colaba Causeway, Bombay 1.
Hornby Fountain Pen Depot.—204, Hornby Road, Fort.
Jagatiani, M. K., & Sons.—Mooljl Jetha Market, Ganeshwadi, First Floor, Shaik Memon Street.
Jhaveri & Co., Gordhandas K.—Oomrigar Building, opp. Crawford Market.
Jhaveri Bros. & Co. Ltd. (Established 1914).—Novelties and Gift Specialists. Three showrooms in the City. (1) 345, Abdul Rehman Street, Near Crawford Market, Phone : 23523. (2) Metro Cinema Building, Dhobi Talao, Phone : 242450. (3) Medows Street, Near Flora Fountain, Phone : 251712. Grams : " GIFTS".
Kashmir Govt., Arts Emporium.—Sir P. M. Road, Bombay 1.
Lalit Jewellery Mart.—436, Lamington Road, near Opera House.
L. R. Trading Co.—Navsari Chambers, opp. Lloyds Bank, Outram Road, Fort.
Lund & Blockley Ltd.—150, Mahatma Gandhi Road, Fort, Bombay.
Madhusudan & Co.—94, 3rd Bhoiwada, Bombay 2.
Mappin & Webb, Ltd.—Central Bank Building, Mahatma Gandhi Road, Fort.
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Motilal, M. Shah & Co.—Opp. Crawford Market, Bombay.
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Noble Trading Co.—Kermani Building, Sir Phirozsha Mehta Road, G.P.O., No. 885, Fort, Bombay.
Novelties, The.—Hughes Road, Bombay.
Onward Trading Co.—262, Carnac Road, opp. Goculdas Hospital, Bombay 2.
Rallship Stores.—30, Medows Street, Fort.
Roopchand Punjab Jeweller.—French Bridge, opp. Opera House, Bombay 4.
Ruby & Co.—Opera House, Bombay No. 4.
Shahani Bros.—160, Hornby Road, Fort, Bombay.
Sharada Novelty House.—96, 3rd Bholwada, Bombay 2.
Sharda Stores.—Swadeshi Markets, Kalbadevi Road, Bombay 2.
Shewakram & Sons (Jewellers).—315-317, Prospect Chambers, Hornby Road, Fort.
S. G. Kothari & Co.—88-90, Abdul Rehman Street, Bombay 3.
Spencer & Co., Ltd.—Forjett Street, Bombay 26.
Sunder Mehta & Co.—413G, Vasantwadi, Kalbadevi Road, Bombay 2.
United Cottage Industries.—Near Central Bank of India Ltd., Abdul Rehman Street, Bombay 3.
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L. C. Trading Co. -62, Lohar Chawl, Bombay 2.
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Albert Printing Works.—Podar Chambers, Parsi Bazar Street, Fort.

Alliance Art Printing Works.—17, Benham Hall Lane.

Amrut Sagar Press.—54-58, Sheikh Memon Street.

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Bombay Printing Works.—Podar Chambers, Parsi Bazar Street, Fort.

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Caxton Printing Works.—Frere Road.

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Commercial Art Engravers Private Ltd.—Saraswati Mandir, Kennedy Bridge, Grant Road.

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COMMERCIAL STATIONERY & PRINTING MART, THE.—18-20, Cawasji Patel Street, Fort. Phone : 253175. Grams : "NOBIR," Bombay.

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Jawahir Printing Press.—234-36, Narsi Natha Street.

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Kaiser-i-Hind Printing Press.—Old Sassoon Building, Elphinstone Circle, Fort.

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Karnatak Printing Press.—Karnatak House, Chira Bazar, Bombay 2.

Kothari Printing Press.—67, Apollo Street, Fort.

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Lalit Printing Press.—Shantinath Jain Temple Building, Pydhownie, Bombay 3.

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Mehta Printing Press.—73-77, Medows Street, Fort.

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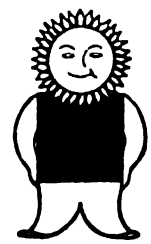
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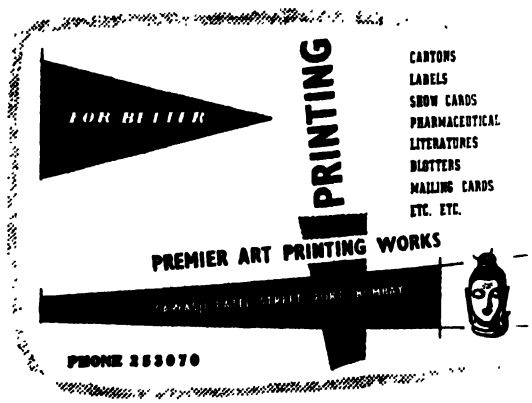


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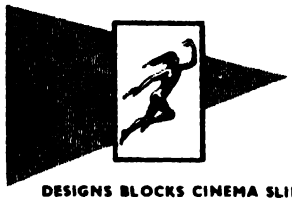
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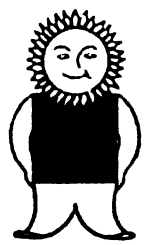
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Arvinda Bros.—156, Vithalbhai Patel Road, Bombay 4.

ASIATIC STORES.—72, Veer Nariman Road, opp. Churchgate Station, Fort, Bombay. Provision and General Merchants, Chemists, Druggists and Tobacconists. Phone: 241030. Grams: "ASIAGATE"—Bombay.

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Beardsell, W. A., & Co., Ltd.—15-16, Sir Phirozshah Mehta Road, Fort.

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Hardinge & Co.—Charni Road Junc., Grant Road.
Harilal Ishwardas & Co.—120, Girgaum Back Road.
Hemaai Bros.—Wassiamali Building, Grant Road, Bombay 7.
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Himalaya Food Products.—Himalaya Baug, Lady Jamshedji Road, Mahim.

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Kalvert, A., & Co.—90, Mazagaon Road, Bombay 10.

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K. H. SABOOWALLA.—283, Nagdevi Street, Bombay 3. Phone: 23671. Grams: "KAMARSABU."

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Laxmi General Stores.—Opp. D'Silva School, 23, Portuguese Church Street.

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Shearer, H. A., & Co.—90, Western India Building, Sir Phirozshah Mehta Road, Fort.

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Bombay Engineering Syndicate.—17, Forbes Street, Bombay 1.
British Engineering Co.—105, Apollo Street, Fort, Bombay 1.
Chimanlal Patel & Co.—174, Hornby Road, Fort.
C. Sethia & Co.—59, Forbes Street, Fort, Bombay.
Diarvi Trading Co.—78, Apollo Street, Fort.
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Investa Machine Tools & Engineering Co., Ltd.—Ewart House, Bruce Street, Bombay 1.
Jacks, William & Co., Ltd.—Hamilton House, Graham Road, Ballard Estate, Fort.
Janak Engineers.—4th Floor, Lentin Chambers, Dalal Street, Fort.
Jashwantlal Manekial & Co.—40, Churchgate Street, Fort.

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Automobile Co., Ltd.—41, Queen's Road, Bombay 2.
Bell Radio & Electric Co.—Swadeshi Mills Estate, Tata Road, Girgaum.
Bharat Electric Supply Traders.—542, Sandhurst Bridge, Chowpatty, Bombay 7.
Bharat Radio Corporation.—404, Waghwadi, Kalbadevi, Bombay No. 2.
Bombay Motors & Radios Ltd.—33, New Queen's Road.
Bombay Phono & General Agency.—520-22, Kalbadevi Road.
Bombay Radio Service.—First Floor, Prospect Chambers, Hornby Road, Fort.
British Radio & Electric Co.—Prospect Chambers, Hornby Road, Fort, Bombay.
Choice Radio.—Opp. Royal Opera House, Bombay 4.
Chopra Radio Electric Co.—Imperial Cinema Building, Lamington Road, Bombay 4.
Cinefones—Opp. Opera House, 3, New Queen's Road.

CINE RADIO SERVICE.—5, Purshottam Bldg., opp. Royal Opera House, Bombay 4. Also Importers & Repairers. Authorised Dealers for Murphy Radios.

City Radio Co.—Malabar Mansion, opp. Cusrow Baug, 37, Garden Road, Colaba.
Craftsman Electronic Corporation Ltd.—Alice Building, Hornby Road, Bombay.
Eastern Electric & Engineering Co.—127, Mahatma Gandhi Road, Bombay 1.
Eastern Radio Corporation.—99A-2, Jenabai Building, Main Road, Dadar.
Eastern Radio & Refrigeration Co.—8, Beaumon Chambers, Medows Street, Fort, Bombay.
Economic Electric Co., Ltd., The.—Jail Road (East), Dongri, Bombay 9.
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Gramophone Co., Ltd.—Sir Phirozshah Mehta Road, Fort.

Hindustan Electronics.—14, Gool Mansion, Store Lane, Fort, Bombay.

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Indo-American Radio & Electronic Corporation.—Allana Compound, Opp Agripada Police Station, Lamington Road (North), Bombay 11.

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LAKHANPAL PRIVATE LTD.—29, New Queen's Road, Bombay 4. Phone : 22473.

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Mazumdar & Co.—Opp. Krishna Cinema, Tribhuvan Road, Bombay 4.

METRO MUSICS.—545, Kalbadevi Tram Junction, Dhobitalao, Bombay 2. Phone : 23775. Grams : "METMUSICS." Distributors for METZ (German) Radios & "TRIOTRON" Radio parts & Valves.

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Monitor Radios.—24, New Queen's Road, Opp. Roxy Talkies, Bombay 4.

Motwane (Private) Ltd., Incorporating Chicago Telephone & Radio Co. Private Ltd. (Estd. 1909).- 127, Mahatma Gandhi Road, P. B. No. 1312, Fort, Bombay.

Murphy Radio of India Ltd.—Dr. Shirodkar Road, off Hospital Avenue, Parel, Bombay.

National Education and Information Films Ltd.—National House, Tulloch Road, Apollo Bunder, Bombay.

National EKCO Radio & Engineering Co. Ltd.—Ewart House, Bruce Street, Fort, Bombay.

National Radio Corporation.—141, Chuckla Street, Bombay No. 8.

N. D. Kooka & Co.—13/19, Medows Street, Fort, Bombay 1.

NAVBHARAT RADIO AGENCIES.—350, Lamington Road, Bombay 7. Phone : 40015. Grams : "SOUNDKING." Branches : Delhi-6. Madras-2. Mfrs. of Soundking Radio & Amplifier Kits. Complete with Circuit & Instructions. Distributors for Lumina Radio, Auto Torch Bulbs, Reico Coils. Ready Stocks of all Radio Parts & Public-Address Equipment.

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Paradise Radio Electric & Engineering Co.—Opp. Swimming Bath, 39, Seaface Chowpatty, Bombay.

Parakh & Sons.—483, Kalbadevi Road, Bombay 2.

Paramount Engineering Co.—Fort Chambers, Hamam Street, Fort.

PARSRAM & CO.—65, Podar Chambers, Parsee Bazar Street, Fort, Bombay. Phone : 252122. Grams : "REKAM."

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PRATAP RADIO HOUSE.—208, Hira Mahal, Station Road, Wadala, Bombay 31. G. E. C. Radio Authorised Dealers.

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Radio Services.—417-21, Lamington Road, next to Powells Ltd., Bombay No. 4.

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Rex Radio Amplifier & Cinema Service.—23, Kennedy Bridge, near Opera House.

Rhythm House Private Ltd 40, Rampart Row, Bombay

Saba Radio Company.—15, New Queen's Road, Saklat House, Bombay 4.

SPEETMAN ELECTRIC & RADIO CO.—1 1A, New Queen's Road, Bombay. Phone : 70886. Dealers in G.E.C., HGEC & Amzel Radios. Also Record Changers.

Star Radio Service.—Bhivandivala House, Gowalia Tank.

Star Radio & Engineers Ltd.—Parekh House, New Queen's Road, Bombay.

Sundarlal, C., & Co.—Manhar Building, 189, Lohar Chawl, Bombay 2.

Super Radio Corporation.—33, Hussain House, Parel, Bombay 12.

Super Simplex Radio Co.—16, Harinivas, Lady Jamshedji Road, Bombay 28.

Supreme Electrical Engineering Co., Ltd.—Lady Jamshedji Road, Mahim, Bombay 16.

Surendra Trading Corporation.—159-2, Khetwadi Back Road, Bombay 4.

Talati, A. M., & Co.—Esmail Building, Hornby Road.

TELEFLUTE RADIO AGENCY.—Homji Street, off Sir Phirozshah Mehta Road, Fort, Bombay. Phone : 253358. Authorised dealers for Philips Radios & Appliances.

Unique Trading Corporation.—Mustafa Building, Sir Phirozshah Mehta Road, Fort.

United Engineering Corporation.—Datoobhoy Building, 5, New Queen's Road.

United Radio Service.—Padhy de Wadi, Bhawani Shanker Road, Dadar.

Universal Radio Co.—6, Ranee Building, Prarthana Samaj, Bombay 4.

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Vinar Radio Electric Co.—Hassan Chambers, 1st Floor, Parsi Bazar Street, Fort. Phone : 26184.

Washington Radio Service.—Parekh House, New Queen's Road.

West End Radio.—385, Kalbadevi Road.

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READYMADE CLOTHES

Cawnpore Mills Depot.—"Churchgate House", Churchgate Street, Fort, Bombay.

Kapadia Bros.—Kalyanji Building No. 3, Kandewadi, Bombay 4.

Karnatak Concerns Ltd.—197, Shivaji Park, Bombay 28.

Khosla & Co., L. C.—39, Prospect Chambers Annexe, Hornby Road, Fort.

"Nanjis."—206-208, Carnac Road, Bombay 2.

Roxship Stores.—39, Medows Street, Fort, Bombay.

WEAR (INDIA) PRIVATE LTD.—4th Floor, Jan Mansion, Sir Phirozshah Mehta Road, Fort, Bombay 1. Grams : "READYWEAR." Sole Distributors (Bombay) for SIMSONS DRESSES.

Weadon Shop.—Oomrigar Building, opp. Crawford Market, Bombay 3.

RECTIFIERS

KAYCEE INDUSTRIES LTD.—Kamani Chambers, Nicol Road, Ballard Estate, Bombay 1. Phone : 262757. Grams : "KAYCE." Licensees in India for the manufacture of Westinghouse Metal Rectifier Equipment for Electroplating-Anodizing & Electrolytic Process.

REFRACTORIES

DATSON RAVIRAJ & CO.—43, Tamarind Lane, Fort. Phone : 254433. Grams : "DATNARE."

JONES, J. D., & CO. (BOMBAY) PRIVATE LTD.—Rustom Building, Veer Nariman Street, Fort, Bombay. Phone : 253520. Grams : "MICA."

REFRIGERATORS (DOMESTIC)

Blue Star Engineering Co.—Kasturi Building, J. Tata Road, Bombay 1.

Bombay Gas Co., Ltd.—214, Hornby Road, Fort.

Ceylon Traders Corporation—21, Forbes Street, Fort.

Choice Radios.—Opp. Royal Opera House, Bombay 4.

Craftsman Electronic Corporation Ltd.—Alice Building, Hornby Road, Bombay.

Eastern Electric & Refrigeration Co.—14, Hamam Street, Fort.

Eastern Radio and Refrigeration Co.—8, Beaumon Chambers, Medows Street, Fort.

Economic Electric Co. Ltd.—Jail Road (East), Dongri, Bombay 9.

FREEZALL.—Tribhuvan Road, Bombay 4.

Gramophone Co., Ltd.—Universal Fire & General Insurance Co.'s Building, Sir Phirozshah Mehta Road, Fort.

Manghanram & Co.—Jan Mansion, Sir Phirozshah Mehta Road, Fort.

Marks & Gilbert.—Darabshaw House, Dougall Road, Ballard Estate, Fort.

McKenzies Ltd.—Sewri.

Modern Electric Corporation.—P O. Box 20, Bombay 1. Phone : 262120.

Modern Traders.—Post Box No. 1344, Bombay.

PARSRAM & CO.—65, Podar Chambers, Parsee Bazar Street, Fort, Bombay. Phone : 252122. Grams : "REKAM."

RADIOCRAFTERS, THE.—Refrigeration Engineers, Laud Mansion, opp. Charni Road Station, 21-C-D, Queen's Road, Bombay. Phone : 23006.

Refrigeration & Appliances Co. Private Ltd.—Pravin Court, 95, Queen's Road, Bombay. Phone No. 242577. Grams : "REFRIANCES".

Rhythm House Ltd.—40, Rampart Row, Fort, Bombay 1.

Spencer & Co. Ltd.—Spencers Building, Forjett Street, Bombay 26.

STAR FREEZ INDUSTRIES.—95, Marine Drive, Parijat, behind Marine Lines Station, Bombay 2. Phone : 241332. Refrigerators, Air Conditioners & Manufacturers of Water Coolers, Ice-Cream Machines, Cold Storage rooms etc.

United Motors (India) Ltd.—Hughes Road, Bombay.

REPRESENTATIVES (MANUFACTURERS)

Acme Agencies.—20, Hamam Street, Fort.

Advani Brothers, H. B.—251, Hornby Road, Fort.

Advani, G. V., & Co.—Prospect Chambers, Hornby Road, Fort.

Advani & Co., Ltd. J. B.—Advani Chambers, Top Floor, Sir Phirozshah Mehta Road, Fort.

Ahmed Ebrahim Bros.—88, Chuckla Street, Bombay 3.

Akbarally Ebrahimji—38.C, Cowasji Patel Street, Fort, Bombay. Grams : "Tussilbar"

Akmo Trading Company.—111, Bhandari-Chuckla Street.

Allied Publishers & Stationery Manufacturers, Ltd.—15, Graham Road, Ballard Estate.

Almeida, J. C.—National Insce. Building, 27, Bastion Road, Fort.

Art Metal Works (Estd. 1882).—Office and Factory : 100, Foras Road, near Municipal Workshop, Bombay 8.

Arvinda Trading Co. Private Ltd.—105, Apollo Street, Fort.

Ashar, R. D.—10, Bruce Street, Fort.

Ashok Brothers.—327, Dr Dadabhoy Naoroji Road, Fort, Bombay.

Asian Drug Corporation.—Podar Chambers, Parsi Bazar Street, Fort.

Associated Agencies (Bombay).—47, Podar Chambers, Parsi Bazar Street, Fort.

Associated Corporation of Industries (India) Ltd.—Commerce House, Currimbhoy Road, Ballard Estate.

Automobile Co., Ltd.—41, Queen's Road, Bombay 2.

Bakshi Ram & Co.—129, Modi Street, Fort.

Batliboi, C. J., & Co.—319, Hornby Road, Fort.

Beardsell, W. A., & Co., Ltd.—Dhan-Nur Building, Sir Phirozshah Mehta Road, Fort.

Bhagwandas Chhatrabhuj & Co.—20, Hamam Street, Fort.

Bhoglal & Company, R.—261/263, Hornby Road, Fort.

Birkmyre Brothers Ltd.—12, Rampart Row, Fort.

Bock, F., & Co.—Shale Building, Bank Street, Fort, Bombay.

Brady, W. H., & Co., Ltd.—Royal Insurance Building, Churchgate Street, Fort.

British Engineering Co.—105, Apollo Street, Fort.

Budhabhoy Noorbhoy & Co.—199, Abdul Rehman Street.

Byramji, T., & Co.—Central Bank Building, Mahatma Gandhi Road, Fort.

Cambata Industries Private Ltd.—Cambata Building, 42, Queen's Road, Bombay 1.

Central Trading Co.—81, Cowasji Patel Street, Fort.

Chavannes & Co., Ltd.—Mercantile Chambers, Graham Road, Ballard Estate.

Chemicals and Machinery Ltd.—Hamam House, Hamam Street, Fort.
Chemols Supply Co.—6th Floor, People's Building, Sir Phirozshah Mehta Road, Fort.
Chimanlal Desai & Co.—Gool Mansion, Homji Street, Fort.
Choksi, H., & Co.—106, Medows Street, Fort.
Chotani Electric & Engineering Co. Ltd.—57, Apollo Street, Fort, Bombay.
Corn Products Co. (India), Ltd.—Shreenivas House, Waudby Road, Fort.
Cotton & General Produce Agency.—Sassoon Building, 141, Mahatma Gandhi Road, Fort.
Craftsman Electronic Corporation Ltd.—Alice Building, Hornby Road, Bombay.
Daiichi Bussan Kaisha Ltd.—4th Floor, Navsari Chambers, Outram Road, Fort, Bombay. Phones: 261667 and 262148. Grams: "DAITIBUSAN".
Dali B. Shroff & Co.—361, Dr. Dadabhai Naoroji Road. Phone: 21465.
Dann-Decker Company.—People's Building, Sir Phirozshah Mehta Road, Fort.
Deeth & Co., W. H.—P. O. Box 320, Bombay 1.
Deevjan Agencies.—42, Prospect Chambers Annexe, Hornby Road, Fort.
Denis Malcolm & Co., Ltd.—Kumud House, 267, Dr. Dadabhai Naoroji Road, Fort, Bombay.
Derby & Co.—P. B. Press Building, 299, Frere Road, Fort.
Dewan Raj Kumar.—78, Podar Chambers, Parsi Bazar Street, Fort.
Dhani Ram & Sons.—236, Musjid Bunder Road.
Diarvi Trading Co.—78, Apollo Street, Fort.
Dilaj & Co.—20, Hamam Street, Fort.
Dinanath Sons.—466, Kalbadevi Road, Bombay 2.
DINKAR TRADING COMPANY.—95/97, Bhandari Street, Bombay 3. Grams: "HONESTACT."
Dodsal Limited.—Mafatlal House, Backbay Reclamation, Bombay 1.
Drewet Chowna & Co.—Lentin Chambers, Medows Street, Fort.
Dubash Freres & Co.—Victoria Building, Parsee Bazar Street, Fort.
Duncan Stratton & Co., Ltd.—5, Bank Street, Fort.
Duleral & Co.—22, Apollo Street, Fort.
Dwarkadas & Sons Ltd.—Mehta House, 89, Apollo Street, Fort, Bombay.
Engineer, Eruch D., & Co.—Crossby House, Apollo Street, Fort, Bombay.
Express Corporation.—Co-operative Insurance Building, Sir Phirozshah Mehta Road, Fort.
Fairdeal Corporation Ltd., The.—Lakshmi Building, Sir Phirozshah Mehta Road, Fort.
Fazalbhoy Ltd.—16, New Queen's Road, Bombay 4.
Fell, K. M. (Successors to L. A. Bund).—Gresham Assurance House, Sir Phirozshah Mehta Road, Fort, Bombay.
Fereshaw, L., & Co.—Shirin Mansion, Sleater Road, Bombay 7.
Fleming Shaw & Co., Ltd.—Sorab House, 235, Hornby Road, Fort.
Forbes, Forbes, Campbell & Co. Private Ltd.—Forbes Building, Home Street, Fort.
Francis Klein & Co. (Bombay) Ltd.—Shale Building, Bank Street, Fort, Bombay.
Gaytee and Company.—Janmabhoomi Chambers, Fort Street, Fort. Grams: "IMPENG." Phone: 32449.
Gillanders Arbuthnot & Co., Ltd.—16, Queen's Road Estate, Bombay.
Gladwyn & Co.—Powvala Building, 251, Hornby Road, Fort.
Hallen, L. J., & Co.—275, Princess Street, Bombay 2.
Harbansial & Co.—Bell Building, Sir Phirozshah Mehta Road, Fort.
Hardacre & Co., J.—Himalaya House, Palton Road, Bombay 1.
Hardcastle, Waud & Co., Ltd.—Alice Building, Hornby Road, Fort.
Heatley and Gresham Ltd.—9, Forbes Street, Fort.
Hindustan Corporation Ltd.—Kermani Building, Sir Phirozshah Mehta Road, Fort.
Hukumchand Chanderbhan.—1st Floor, Hira Building, opp. Crawford Market, Carnac Road.
Indo-African Exporters.—Round Building, Kalbadevi Road, Bombay 2.
Indo Bobbins & Textiles Co., Ltd.—10, Bruce Street, Fort, Bombay 1.
Industrial Stores Co.—Seksaria Chambers, 139, Medows Street, Fort.
Industries Service Corporation.—11, Bruce Street, Fort, Bombay.
Iron & Hardware (India) Co.—Nagdevi Cross Lane.
Jagkumar & Co.—Prospect Chamber Annexe, 317-21, Hornby Road, Fort.
Jashwantlal Manecklal & Co.—40, Churchgate Street, Fort.
Jayant Traders.—275, Frere Road, Fort.
Jayems Engineering Co.—Warden House, Sir Phirozshah Mehta Road, Fort.
Jhaveri Brothers.—149, Shroff Bazar, Bombay 2.
J. L. Khemani & Co.—190, Princess Street, Bombay 2.
Kanakia Corporation.—168, Nagdevi Cross Lane, Bombay 8.
Keshavlal Talakchand.—India House, opp. G.P.O., Fort, Bombay. Phone: 32362. Grams: "CHANDRODAY."
Khairullah, G. D.—105, Apollo Street, Fort.
Khatau Valabhdas & Co.—Indian Globe Chambers, Fort Street, Bombay 1.
Lachmandas Ramchand.—66, Nagdevi Cross Lane, Bombay 8.
Laxmi Commercial Agency.—16, Apollo Street, Fort.
Leories Trading Co.—23, Hamam Street, Fort, Bombay.
Maharashtra Leather Works.—Opp. Dadar Station (Western Rly.), Bombay 14.
Mahindra & Mahindra Ltd.—Gateway Building, Apollo Bunder.
Mangaldas & Sons.—Lentin Chambers, Dalal Street, Fort.
Marshall Sons & Co. (India) Ltd.—Marshall Building, Ballard Estate, Fort.
Marby Sons & Co.—"R"-3, Nowroz Baug, Lal Baug, Bombay 12.
Mata Lachhmi Co.—Hussaini Chambers, Nanabhai Lane, Fort.
Mill Factors Corporation.—Advani Chambers, Sir Phirozshah Mehta Road, Fort.
Modak Agency.—Janmabhoomi Chambers, Fort Street, Fort.
Modern Trading Corporation.—79-81, Medows Street, Fort.
Muller & Phippe (India) Ltd.—Queen's Mansions, Bastion Road, Fort.
Narendra & Co.—Bansilal Mansion, 11, Bruce Street, Fort.
New Associated Commercial Enterprises, Ltd.—166, Hornby Road, Fort.
Niranjan (India) Corporation.—Wakefield House, 16, Sprott Road, Ballard Estate.
Oomedchand Kashiram & Co.—Mudi Bazar, Bombay 3.
Ormerods (India) Ltd.—Bank of Baroda Building, Apollo Street, Fort, P.O. Box No. 410.
Paramount (India) Ltd.—Kermani Building, Sir Phirozshah Mehta Road, Fort, Bombay 1.
Parry & Co., Ltd.—United India Building, Sir Phirozshah Mehta Road, Fort.
Parsee Trading Co.—Vithal Sayana Building No. 2, Lohar Chawl, Bombay 2.
Photophone Equipments Ltd.—9, Marine Lines, Bombay.
Pioneer Consolidated Co. of India, Ltd.—Botawalla Building, 11-13, Elphinstone Circle, Fort.
Plastic & Industrial Corporation Private Ltd.—Amar Building, Sir Phirozshah Mehta Road, Fort.
P. P. Corporation Ltd.—Hamam House, Hamam Street, Fort.
Prabhulal N. Anandwala.—43, Tamarind Lane, Fort.
P. R. Patell & Co. Ltd.—Mherwan Building, Sir Phirozshah Mehta Road, Fort.
Prince, H. I., & Sons.—9, Lily Court, Churchgate Reclamation, Bombay. Phone: 37441. Cable: "BRUNSVIGA."
Purushottamdas, A. H.—36, Lentin Chambers, Dalal Street, Fort.
Raj, H., & Co.—93, Princess Street, Bombay 2.
Raj-Der-Kar & Co.—Commissariat Building, Hornby Road, Fort.
Ratansi Morarji Ltd.—Prospect Chambers, 317-21, Hornby Road, Fort.
R. C. H. Barar & Co.—239, Abdul Rehman Street, Bombay 3.
Refrigeration & Appliances Co. Private Ltd.—Pravin Court, 30 Queen's Road, Bombay 1.
R. L. Bros. & Co.—4th Floor, "Dhun-Nur", Sir Phirozshah Mehta Road, Fort.
Roberts McLean & Co. Private Ltd.—Haco House, Sir Phirozshah Mehta Road, Fort.
Sarabhai & Co.—Western India House, Sir Phirozshah Mehta Road, Fort.
Scientific Instrument Co., Ltd.—Navsari Building, 240, Hornby Road, Fort.
Sethlsons Ltd.—12, Rampart Row, Fort.
Sethy, M., & Co.—29, Ismail Building, 351, Hornby Road, Fort.
Shamdas, B., & Co.—121, Himalaya House, Palton Road, Bombay 1.
Shanker Singh & Co.—10/10A, Nanabhai Lane, Bombay.
Shapurji, R. K., & Co.—Prospect Chambers, 319, Hornby Road, Fort.
Shroff & Co., Dali B.—361, Hornby Road, Fort.
Siqueira & Sons.—121, Fort Street, Fort.
Sivramakrishnan, M.—Hazi Manzil, 82-86, Abdul Rehman Street, Bombay 3.
Somani & Company Ltd.—Mehta Building, Medows Street, Fort, Bombay.
Sorabji Khursedji & Co.—Calicut Street, Ballard Estate. Phone 30562. Grams: "Adyshap."
Speciality Traders Ltd.—Imperial Chambers, Wilson Road, Ballard Estate.
Subodh Indent Agency.—44, Kumar Villas, Mangalvadi, Girgaum, Bombay 4.
Stoessel, W. R., & Co.—63, New Marine Lines, Fort. Grams. "ENTIRENESS."
Sunder Mehta & Co.—413G, Vasant Wadi, Kalbadevi Road, Bombay 2.
Turner Hoare & Co. Ltd.—Gateway Building, Apollo Bunder Fort, Bombay.
Unisales (India) Ltd.—87-93, Medows Street, Fort, Bombay.
Utoomal & Assudamal & Co.—Bombay Mutual Annexe, Gunbow Street, Fort.
Vajab & Co., M.—Podar Chambers, Parsee Bazar Street, Fort.
Vasi Bros. & Co.—Topiwala Mansion, Mahomedally Road, Bombay 3.
Vazirali Ltd.—Prospect Chambers, Hornby Road, Fort.
Vikram Padamsey & Co.—Rustom Building, 29, Veer Nariman Road, Fort.
Volkart Brothers.—19, Graham Road, Ballard Estate, Bombay.
Ward, Thos. W. (India) Ltd.—Marshall Building, Ballard Road, Fort.
Watanmal Boolchand.—P.O. Box 2333, 534, Kalbadevi Road, Bombay 2.

Western India Engineering Corp. Ltd.—Cama Chambers, 23, Medows Street, Fort.
Western Mercantile Co.—33-38, Western India House, Sir Phiroshah Mehta Road, Fort.
William Jacks & Co., Ltd.—Hamilton House, Ballard Estate, Fort.
Williams, G., & Co. Private Ltd.—Steelcrete House, Backbay Reclamation, Bombay 1.
Y. M. Pathare & Company.—Post Box 1428, 41, Medows Street, Bombay 1. Phone: 24415.
Yacob Ahmed Bros.—Topiwalla Mansion, Mahomedally Road.
Yeshanand & Co.—Podar Chambers, Parsee Bazar Street, Fort.

RESPIRATORS (DUST PROTECTION) MFRS.

VISHWA BHARATI TRADING CO.—14, Kumpta Street, Ballard Estate, Post Box No. 1082, Bombay 1. Phone: 264555. Grams: "VIBHACO." Mfrs. of Industrial Safety Equipments, such as Goggles, Gloves, Dust Masks, Gas Protection Respirators, Aprons etc.

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Abdul Sakur Umar Sahigara & Co.—Haji Habib Building, Koliwada, Mandvi, Bombay 3.
A. H. Bhiwandiwalla & Co.—93-95, Kazi Syed Street, Bombay 3.
Anandji Bhojraj & Co.—116, New Chinch Bunder Road, Bombay 9.
Atul Krishna Dutt.—1, Russel Street, Bombay 9.
Baldeoram Saligram Private Ltd.—307-309, Kalbadevi Road, Bombay 2.
Bhailal Hargovind & Co.—256, Bhat Bazar.
Bhawanji Murji & Co.—220, Narsi Natha Street, Bombay 9.
Bhpatray Chandulal & Co.—75, Javeri Bazar, Bombay 2.
Bhpatray Kalidas & Co.—195, Samuel Street, Bombay 9.
Canji Dwarkadas.—45-47, Modi Street, Bombay 1.
Chhaganlal Tribhuwandas & Co.—104-14, Frere Road, Bombay 9.
Chandulal Kantilal.—725, Cotton Exchange Building, Bombay 2.
Chandulal Mohanlal.—3, Kumbhar Tukda, Ram Building, Bombay 4.
Chaterbhoj Naranji.—108, New Chinch Bunder Road, Bombay 9.
Chunilal Ambalal Patel.—116, Keshavji Naik Road, Bombay 9.
D. H. Bharmal & Co.—27, Chinch Bunder Road, Bombay 9.
Damji Champshi & Co.—Bhat Bazar, Bombay 9.
Damji Devraj & Co.—246, Bhat Bazar, Bombay 9.
Damji Ramji & Co.—116, New Chinch Bunder Road, Bombay 9.
Damji Shamji & Co.—Ardeshir Mansion, Bhat Bazar, Bombay 9.
Devchand Gulabchand.—195, Khoja Galli Naka, Bombay 3.
Devji Khetsey & Co.—116, New Chinch Bunder, Bombay 9.
Devji Murji.—New Chinch Bunder Road, Bombay 9.
Devji Tokersey & Co.—30, Manordas Street, Bombay 1.
Devidayal Tulshiram.—Tulshiram Gupta Mill, Reay Road, Bombay 10.
Devji Dharamshi & Co.—116, New Chinch Bunder, Bombay 9.
Dharamshi Lalji.—305, Kharek Bazar, Bombay 3.
Dongersi Ganpat & Co.—229-231, Bhat Bazar, Bombay 9.
Dwarkadas & Co. Ltd.—Rajmahal, Bhuleshwar, Bombay 2.
Ebrahim Yusuf Zainal Alireza.—Sitaram Building, 'D' Block, 3rd Floor, Bombay 1.
Excellent Mercantile Bureau.—27, Chinch Bunder, Bombay 9.
Gulla Warehousing & Co.—29, Bhat Bazar, Bombay 9.
Girish M. Katira.—118, Kalbadevi, Bombay 2.
Govindji Bharmal & Co.—77, Clive Road, Dana Bunder, Bombay 9.
Hasham Premji.—5, Ghoga Street, Bombay 1.
Harakhchand Vishanji & Co.—246, Bhat Bazar, Bombay 9.
Haresh & Co.—116, New Chinch Bunder, Bombay 3.
Hathibhai Bulakhidas.—86, Masjid Bunder, Bombay 3.
Hemchand Premji & Co.—7, Keshavji Naik Road, Bombay 9.
Hirji Gelabhai & Bros.—Gaya Building, Masjid Bunder, Bombay 3.
Hirjee Ladhabhai & Co.—116, New Chinch Bunder, Bombay 9.
Indo-Asiatic Export & Import Corp.—468, Kalbadevi, Bombay 2.
J. Nagindas & Co.—36, Kazi Syed Street, Bombay 2.
J. Prabhudas & Co.—25, Dabda Galli, Masjid Bunder Road, Bombay 3.
Jamnadas Jivram & Co.—229, Kariyana Bazar, 1st Floor, Bombay 3.
Jivantilal Hansraj & Co.—220, Bhat Bazar, Bombay 9.
Jivantilal Vishanji & Co.—19, Chinch Bunder, Bombay 9.
Jiwanlal Lalubhai & Co.—Jakeria Building, Sherif Dewaji Street, Bombay 3.
Kancharia Mohanrao & Bros.—43, Princess Street, Bombay 2.
Kanji Morarji Thacker.—285-87, Narsi Natha Street, Bombay 9.
Kanji Velji.—74-76, Khasd Bazar, Bombay 3.
Khetshi Chaterbhuj & Co.—9, Chinch Bunder Road, Bombay 9.
Khimji Poonja & Co.—19-21, Dalal Street, Bombay 1.
Khimji Ranchhoddas.—Chandra Bhuvan, Narsi Natha Street, Bombay 9.
L. Thorchandra & Co.—34, Shri Ram Market, Bombay 3.
Kurpal Harsey & Co.—116, New Chinch Bunder, Bombay 9.
Laxmichandra Kirtikumar.—116, New Chinch Bunder, Bombay 9.
Lalji Devji & Co.—254, Bhat Bazar, Bombay 9.
Lalji Poonshi & Co.—3, Chinch Bunder, Bombay 9.
Manohar & Co.—229-31, Bhat Bazar, Bombay 9.
Manordas Himatlal.—104-114, Sugar Market, Bombay 9.
Mansukhlal Bhavanji & Co.—278, Narsi Natha Street, Bombay 9.
Murji Devshi & Co.—116, New Chinch Bunder, Bombay 9.
Nagindas Muljl & Co.—35, Esaji Street, Bombay 3.
Nanji Hirji & Co.—112, New Chinch Bunder, Bombay 9.
Nanji Shamji & Co.—116, New Chinch Bunder, Bombay 9.
Odhavji Shivji Joshi.—233-35, Bhat Bazar, Bombay 9.
Parekh & Co.—104-40, Sugar Market, Bombay 9.
Parasram Parumal & Co.—104-114, Frere Road, Bombay 9.
Pasu Anand & Co.—4, Chinch Bunder, Bombay 9.
Poonja Thakersey & Co.—116, New Chinch Bunder, Bombay 9.
Popatlal Dalpatlal & Co.—28, Moodi Bazar, Bombay 3.
Premji Haridas & Co.—168, Argyle Road, Bansali Chamber, Bombay 9.
Premji Karabhai Thaker.—72, Kalyan Street, Bombay 9.
Premji Pragji Dharamshi.—263, Samuel Street, Vadgadi, Bombay 3.
Purushottam Surchand.—126-34, Argyle Road, Bombay 9
Ranchhoddas Jethabhai & Co.—262-270, Narsi Natha Street, Bombay 9.
Rashiklal Chunilal & Co.—195, Samuel Street, Bombay 3.
Ratanshi Murji.—3, Chinch Bunder Road, Bombay 9.
Ravjibhai Dahyabhai & Co.—109A, Old Hanuman Galli, Princess Street, Bombay 2.
Ravji Javerchand & Co.—75, Javeri Bazar, Bombay 2.
Rawji Dhanji & Co.—21, Chinch Bunder Road, Bombay 9.
Saurashtra Trading Co.—137-141, Samuel Street, 2nd Floor, Bombay 9.
Shamji Rawji & Co.—116, New Chinch Bunder Road, Bombay 9.
Shamji Velji & Co.—228, Narsi Natha Street, Bombay 9.
Shantilal Bros.—77, Clive Road, Dana Bunder, Bombay 9.
Shantilal Hirji & Co.—110, Chinch Bunder Road, Bombay 9.
Shantilal Karamshi & Co.—69, Frere Road, Sugar Market, Bombay 9.
Shantilal Khimji.—Gaya Building, Bombay 3
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Talakshi Ramji & Co.—229-31 Bhat Bazar, Bombay 9.
Tarachand Doongersh & Co.—224, Bhat Bazar, Bombay 9.
The Motipur Sugar Factory Ltd.—164-66, Kambekar Street, Bombay 3.
Umiashanker Ramji & Co.—Rayan Grain Market, 'K' Galli, Bombay 9.
Valabdas Jeram & Co.—285, Narshi Natha Street, Bombay 9.
Vasantlal Govindji & Co.—384, Kalbadevi Road, Bombay 2.
Vasantkumar Virji & Co.—21, Keshavji Naik Road, Bombay 9.
Velji Lakhamshi & Co.—83, Clive Road, Dana Bunder, Bombay 9.
Velji Rawji & Co.—12-14, Kazi Syed Street, Bombay 3
Virji Dahya & Co.—116, New Chinch Bunder Road, Bombay 9
Virji Devji & Co.—168, Dongri Street, Bombay 9.
Vishanji Ladhabhai.—113, New Chinch Bunder, Bombay 9.
Vradhichand Shamji & Co.—Dana Bunder, 'E' Galli, Bombay 9.

RICE MILLS MACHINERY

Diarvi Trading Co.—64, Old Custom House Road, Fort.
Diwan Bros.—51, Nagdevi Street, Bombay 3
Mehta & Co., S.—Anees Chambers Annexe, Carnac Road, Bombay 1.
Paramount Industrial Stores.—15, Ropewalk Street, Bombay 1.
Shamjee Veljee & Co.—Rice Millers & Merchants, 228, Narsi Nathji Street, Bhat Bazar, Bombay 9.

ROAD ASPHALTING ACCESSORIES

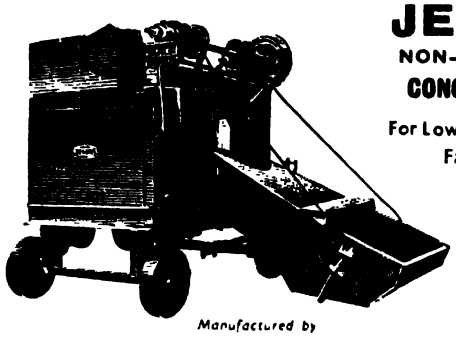
EVERGREEN CORPORATION.—Gopal Nivas, Lohar Chawl, P.O. Box No. 2733. Bombay 2. Phone: 20891. Grams: "IMPTUBE." Aprons, Gloves, Helmets, Road Boilers Spray Buckets, Ghamellas, Hammers; and other implements.

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Associated Machine & Tool Co.—130, Medows Street, Fort.
Palmer Lawrie & Co., Ltd.—Ballard Estate, Bombay 1.
Chokai, H., & Co.—106, Medows Street, Fort.
EAST ASIATIC CO. (INDIA) PRIVATE LTD., THE.—Shreenivas House, Wandby Road, Bombay. Phone: 26-2711 (8 lines). Offices at Madras, Calcutta, New Delhi, Bangalore and Secunderabad.
Great Western Engineering Works.—"Sea View," 1st Pasta Lane, Colaba, Bombay 5.
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Jacks, William & Co Ltd.—Hamilton House, Graham Road, Ballard Estate, Fort.



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MILLAR'S TIMBER & TRADING CO., LTD.—Victoria House, Victoria Road, Bombay 27.

UNITED PROVINCES COMMERCIAL CORPORATION, THE—16, Bombay Mutual Building, 3rd floor, Fort, Bombay 1. Telephone No. 261195. Telegraphic Address: "ADHERENCE". Distributors of Fordson Major Tractors, Agricultural, Road-making, Earth-moving and Haulage Equipment and Manufacturers of Malcolm-Moore Road Rollers. Head Office: 6, Ganesh Chandra Avenue, Calcutta 13. Telephone No. 232161. Tel. Address: "ADHERENCE."

Voltas Limited.—19, Graham Road, Ballard Estate.
Ward, Thos., W. (India) Ltd.—Marshall's Building, Ballard Road, Fort.

ROLLING SHUTTERS MANUFACTURERS

DIPROLLING SHUTTERS & ENGINEERING WORKS.—39, Bombay Timber Market, Signal Hill Avenue Road (near Reay Road Station), Bombay 10. Phone C o 41566. Grams: "DIPROLL".

National Engineering Works.—Khed Gully, Bombay 28.
Shaparia Dock & Steel Co., Ltd.—Sewri Fort Road, Bombay 15.
Standard Rolling Shutters & Engineering Works.—37, A.B.E. Parel Road Cross Lane, Bombay 12.
Swastik Rolling Shutters & Engineering Works.—Parel Station Road, Bombay 13.
Yahya & Co.—123, Abdul Rehman Street, Bombay 3.

ROOFING MATERIALS

WILLIAM JACKS & CO. LTD.—Hamilton House, Graham Road, Ballard Estate, Bombay. Sole Distributors for India, Tar & Bitumen Products, Calcutta. Roofing and waterproofing compounds, Fabrics, Bitumen Emulsions and Bituminous Paints and also Distributers for Madhya Pradesh for the Structural Waterproofing Co. Ltd., CICO Cement waterproofers.

ROOF WATER PROOFING

BHARAT ASPHALT INDUSTRIES.—23, People's Bldg., Sir Pherozshah Mehta Road, Bombay 1. Phone: 264067. Specialists in Roof Waterproofing, Asphalt Roads, Bituminous Industrial Tiles etc.

Cole, R. A., Private Ltd.—22, Apollo Street, Bombay 1. Phone 251517,8. Grams: "DERAC". Nagal Waterproofing Specialists Manufacturers of the dual-purpose Thermocole which insulates as it waterproofs.

GLADSTONE LYALL & CO., LTD.—Bharat Nagar, 342, Grant Road, Bombay 7. Phone: 76039. Grams: "GLADSWYLL." Bombay Manager: A. V. Ryan; Head Office: 4, Fairlie Place, Calcutta.

SHALIMAR TAR PRODUCTS (1935) LTD.—16, Bank Street, Fort, Bombay 1. Phone: 252185. Grams: "TARSTIL." Specialists in Roof Waterproofing, Damp-proofing, Flooring, Decking, Canal Linings, etc. Contracts executed under guarantee.

ROPERIES

Adamally Sons Ltd.—277, Nagdevi Street, Bombay 3.

ADAMJI KADERBHOY.—Post Box No. 5046, 337, Katha Bazar, Bombay 9. Tel. No. 39085. Grams: "RAJKOTWALA." Manufacturers and Stockists of Cordage, Manilla Coir, Hemp & Cotton Ropes. Approved Contractors to Govt., Rlys. and Steamship Companies. Exporters of Coir Products. Selling Agents for: The Ganges Rope Co., Ltd., Calcutta.

Phone: 40481 (Estd. 1912) Grams: "ROPETAPE"

G. J. RASSIWALLA ROPE FACTORY

Head Office & Factory:
44, Clare Road, Byculla
BOMBAY 8

ROPE FACTORY GJR BOMBAY 8

Market Shop:
6-7, Maskati House, Mohamedali Road, BOMBAY 3

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Manufacturers of:

- Main Driving Cotton Rope (Egyptian & Standard quality).
- Cotton Bandings (RIM Scroll & Card).
- Bundle & Spindle Bandings (Cotton & Jute).
- Heald Cord (Jute & Hemp).
- Dobby Twine Cotton (Bleached & Coloured).
- Jacquard Twine.
- Packing Thread in all varieties.
- Endless Cotton Loop Bands.
- Fishing Twines.
- Cotton, Jute and Hemp Twines.
- Kagdi Twines.
- Stitching & Binding Twines.
- Jute Ropes & Twines.
- Cotton Ropes, Grey & Coloured in all sizes.
- Kurdum Ropes, Grey & Coloured.
- Nawar Grey & Coloured (Cotton & Jute).
- Tapes—Spindle Tapes, Packing Tapes, Coloured
- Tapes, Egyptian Tapes & Zip Tapes.
- Cotton Wicks.

ALSO AVAILABLE

ALL SIZES IN MANILA & SISAL ROPE, SPUN YARN, JUTE DRESS

We also undertake Fabrication work

Apex Traders.—Advani Chambers, Sir Phirozshah Mehta Road, Fort.

CHANDULAL & CO., KATHAWALLA.—11, Kazi Sayed Street, Bombay 9. Grams: "CORDCOIR". Phone: 71298.

Fatabhai, K. S., & Co.—129, Nagdevi Street, Bombay 3.

G. J. Rassiwalla Rope Factory.—44, Clare Road, Byculla, Bombay. Phone: 40481. Grams: "ROPETAPE."

GUJRAT ROPE FACTORY THE.—57/59/61, Bhajipala Lane, Bombay 3.

Mohamedbhoy, H., & Co.—114-116, Bhajipala Lane, Bombay 3.

OCHHAVLAL CHHOTALAL & CO.—207-209, Nagdevi Street, Bombay 3. (Phone office: 34644. Residence: & 29648.) Grams: "KACHERIA," Bombay. Manufacturers and dealers in all kinds of Cotton, Hemp, Manila & Sisal Ropes, Linedori, Bendings, Twines, Tapes, Newars, Webbings, & Wicks etc.

Premji Haridas & Co.—Bhanusali Chambers, 168, Argyle Road, Bombay 9.

RASIWALLA & CO., M. M. A.—17, Janjikar Street, Huseinbhai Building, Mandvi, Bombay 3. Phone: 29550. Grams: "TWIST." Manufacturers of Cotton Ropes, Thread and Twine, and Dealing in Fish Hooks and Hemp Twine, Plastic Fishing Lines and Sail Needles.

RASIWALLA, M. A. R.—Shop No. 238, Juma Masjid, Bombay 2. Phone: 29067. Manufacturers of Ropes & Twines and direct importers of Twines.

Star Rope Works, The.—87, Sun Mill Road, Lower Parel, Bombay 13.

Talib & Co.—Talib House, 104, Nagdevi Street, Bombay 3.

THANA TEXTILE ROPE WORKS.—"Sun Brand" Pink Ply Cotton Rope Manufacturers and Merchants. Crescent Chambers, Tamarind Lane, Fort, Bombay. Works: Bombay-Agra Road, Thana (C.R.). Phone: 251853. Grams: "ROPEDRIVE".

Thanawala & Co., M. J.—47-49, Forbes Street, Fort.

Thanawala, B., & Sons, Ltd.—47, Tamarind Lane, Fort

ROSIN AND TURPENTINE MANUFACTURERS

Karikumar Chandulal & Co.—313, Samuel Street, Vadgadi, Bombay.

EMPEE CORPORATION PRIVATE LTD.—Dadyseth House, 44, Cawasji Patel Street, Fort. Grams: "ROSTURP." Phone: 251902.

RUBBER GOODS MANUFACTURERS

Apex Traders.—Advani Chambers, Sir Pherozshah Mehta Road, Fort.

Area Agencies—Ram House, Gunbow Street, Fort, Bombay 1.

Cosmos India Rubber Works, Ltd.—7, Homji Street, Fort

DIAL RUBBER WORKS.—Factory: Goregaon East, Bombay S.D., Sales Office: 12 14, Champa Galli, Zaveri Bazar, Bombay 2. Manufacturers of Acid & Alkali Proof Rubber Hand Gloves, Post Mortem Gloves, Surgeon's Gloves, Canvassed lined gloves, Rubber Coated Leather Gloves, Rubber lined Asbestos Gloves, Rubber Aprons and Transparent Rubber Teats. Grams: "QUOTATION". Phone: 38891.

DIAMOND RUBBER WORKS (PRIVATE) LTD.—276-Nagdevi Street, Bombay 3. Phone: 20719. Grams: "COMRADE." Manufacturers of Electrical Wires & Cables, rubber hose pipes: suction delivery, armoured Suction and delivery, Heel & Soles, rubber Tubings.

Dunlop Rubber Co. (India) Ltd.—Dunlop House, Hughes Road.

EBRAHIM ALLIBHOY & SONS (ESTD. 1934).—Importers and Exporters. 260-64, Abdul Rehman Street, Bombay 3. Phone: 38863.

Engine Industrial Works.—Warden House, Sir Phirozshah Mehta Road, Fort.

Excelsior Commercial Corporation.—243, Abdul Rehman Street, Bombay 3. Grams: "BIGSALES." Phone: 26463.

Ghia B. L.—Behramji Mansion, Sir Phirozshah Mehta Road, Fort.

Great Eastern Trading Co.—107, Cawasji Patel Street, Fort.

HARBO TRADING SYNDICATE.—Prospect Chambers Annexe, Dr Dadabhoy Naoroji Road, Fort. Phone: 258719. Grams: "HARBOSYN."

Harivadan S. Dholabhai.—21A, West View, 10th Khetwadi, Bombay 4. Suppliers of Rubber Stamps, Blocks, Cinema Slides and Embossing Dyes.

HIND RUBBER INDUSTRIES PRIVATE LTD.—Suryodaya Mills Compound, Tardeo Road, Bombay 7. Phone: 41509. Grams: "HINDRUBBER." Manufacturers of Rubber and Ebonite Articles such as Bicycle Pedal Rubber, Handle Grips, Brake Rubber and Seat Cover, Perambulator Tyres, Tricycle Tyres, Grips and Pedals, Solid Rubber Tyres for Trolley wheels, complete Trolley wheels and various other types of moulded and Extruded Rubber and Ebonite Articles required by Railways, Mills and other Industrial Concerns. Managing Director: Shri Shankerlal G. Jhunjhunwalla.

I.C.I. (India) Private Ltd.—P. B. No. 310, Bombay 1.

Industrial Store Agency.—59, Forbes Street, Fort.

International Rubber & General Industries Ltd.—Alkarim Manzil, 2nd Floor, Phalton Road, Bombay 1. Grams: "INRUGIN."

Jai Hind Rubber Products, Ltd.—391F, Grant Road, Bombay 7.

KAMAL RUBBER WORKS PRIVATE LTD.—71, New Citizen Bank House, Palton Road, Bombay 1. Phone: 262775. Grams: "GUBBARA." Factory: Mahul Road, Chembur. Manufacturers of Highclass rubber balloons, toys etc.

Kapadia Brothers.—Kalan Building No. 3, Kandewadi, Bombay 4.

Kishore Rubber Industries.—Suryodaya Mills Compound, Tardeo, Bombay 7.

KORULA RUBBER CO. PRIVATE LTD.—Manufacturers of Latex Foam Cushions, Telecord Cables, Automobile parts, Rubber Lined Tanks, Industrial Rubber Goods, Gloves & Gumboots & Pharmaceutical Rubber Goods. 249, Worli, Bombay 18. Phone: 41950. Grams: "ZIRCON," Bombay.

Merchant Bros.—151, Nagdevi Street.

MODAK RUBBER PRODUCTS PRIVATE LTD.—Managing Agents: Modak & Company. Registered Office & Factory: Verma's Building, Golanjee Hill Road, Sewree, Bombay 15. Phone: 62139. Grams: "MODRUB." Manufacturers of all types of Industrial & Pharmaceutical moulded and extruded Rubber goods in natural & Synthetic Rubber. Also manufacturers of Automobile requirements.

PREMIER RUBBER & CABLE INDUSTRIES.—Jamal Building, 211, Nagdevi Street, Bombay 3. Phone: 38551. Grams: "RUBERGOODS." Manufacturers of quality Rubber Goods such as 'PREMIER' Cycle Tyres and Tubes, Rubber Hose for Water, Air, Petrol & Oil Resistant Insulated Cables (V.I.R., C.T.S. Weather Proof etc.) Rubberised Textures: Rubber Beltings and Moulded and Extruded Rubber goods.

RUBBER INDUSTRIES (INDIA).—Works at Kurla Road, Andheri. Phone: 86214. Office: 243, Abdul Rehman Street, Bombay 3. Grams: "HOLYTRADE", Bombay. Phone: 39096.

SELWEL CORPORATION.—Inside Nakhuda Roghay Market, Nakhuda Mohalla, Bombay 3. Dealers in Rubber Hoses, tubes, solid insertion sheets etc.

SORABJI D. DARUWALLA.—Round Building, Kalbadevi Road. Sole Agents: East India Rubber Works Ltd., Calcutta. Manufacturers of all kinds of Rubber Goods, Ebonite Sheets and Rods, Moulded Rubber goods. Direct Importers of Surgical, Mechanical and Technical Rubber Goods. Phone: 30348. Grams: "REDCROWN."

Standard Rubber Corporation, The.—61, Esplanade Mansion, Mahatma Gandhi Road, Fort, Bombay.

Supreme Industries Ltd.—Sewree Cross Road, Wadala, Bombay.

THE HINDUSTAN TYRES PRIVATE LTD.—Manufacturers of all kinds of Rubber and Ebonite Goods and Retreaders of Tyres, Lamington Road (North), opp. Agripada Police Station, Bombay 11. Phone: 42821. Grams: "TYRES."

U. S. Trading Co.—P. O. Box No. 1213, Fort.

VIJAY BAKELITE TRADING CO.—70/72 Chakla Street, Bombay 3. Grams: "BESTCAP." Manufacturers and distributors of all kinds of Moulding Rubber Goods, Bakelite Caps, Glass Bottles and Washers.

VITHAL MAHADEO & CO., (ESTD. 1923).—109, Nagdevi Street, Bombay 3. Suppliers to Mills & Factories. Manufacturers of Industrial Rubber, Fibre, Ebonite & Leather goods. Specialists in Boiler Asbestos Rings, Leather-Ram Rings & Leather Buckets.

West India Company.—Behramji Mansion, Sir Phirozshah Mehta Road, Fort.

RUBBER STAMP MAKERS

Ghaisas, G. J., & Co.—Ramchandra Building, Tram Terminus, Girgaum.

Goonanath, P.—Nana Shankar Seth's Wadi, Girgaum Road, Thakurdwar.

Kotkar, M. B., Bros.—373, Girgaum Road, Thakurdwar.

MANKAME BROTHERS.—Rubber Stamp Manufacturers, Engravers and Die-Sinkers, 406, Kalbadevi Road, Bombay 2. Phone: 23960. Grams: "SCULPSIT."

Masani & Co.—91, Medows Street, Fort.

Stewarts Laboratories.—327, Hornby Road, Fort.

Thacker & Co. Ltd.—18-20, Rampart Row, Fort.

Young India Stationery Mart.—43, Ghoga Street, Fort.

SADDLERS AND HARNESS MAKERS

Elgin Leatherwares, Ltd.—Nawab Building, 327, Hornby Road, opp. Thos. Cook & Son, Fort, Bombay.

Kamrudin Adamjee & Co.—135, Bhendi Bazar.

Mamaji, Y. A., & Son.—Tyeb Manzil, 136-139, Bhendi Bazar.
Noorbhai Jivaji.—Tyeb Manzil, Bhendi Bazar, near Tram Junction.
Tajbhoy Allibhoy & Sons.—117, Ebrahim Rahimtulla Road, Bombay 3.

SAFETY WEAR FOR INDUSTRIAL WORKERS

VISHWA BHARATI TRADING CO.—14, Kumpta Street, Ballard Estate, Post Box No. 1052, Bombay 1. Phone: 264555. Grams: "VIBHACO." Mfrs. of Industrial Safety Equipments, such as Goggles, Gloves, Dust Masks, Gas Protection Respirators, Aprons, etc.

SAFETY MATCHES

HASSANALLY, A.—103, Mohamadali Road, Bombay 3. Grams: "FORTRAD." Agents: Hind Matches Ltd., Manufacturers of Safety Matches.

Western India Match Co., Ltd.—Indian Mercantile Chambers, Nicol Road, Ballard Estate, Bombay.

SALT MERCHANTS

BHIWANDIWALLA & CO., H. M. D. H.—583, Chira Bazar, Bombay No. 2.

ORIENTAL SALT TRADING CO.—207, Samuel Street, Bombay 3. Manufacturers and Suppliers of Common Salt to Industrial Concerns and Retail and Wholesale Dealers.

Prabhulal L. Pandya & Co.—11, Bank Street, Fort.

SAND, STONE AND CHUNAM MERCHANTS

Atmaram Bros.—Thakurdwar Mortar Mill, 340, Girgaum Road and Duncan Road.
Bharat Pulverising Mills.—Narayan Dhuru Street, Bombay 3.
Fazluddin Ibrahim Chunawala.—Near Water Pipe, Chinch Bunder.
Haji Adam Haji Abba & Co.—Reti Bunder, Masagaon.
Haji Umer Haji Musa.—Near Police Station, Pydhownie.
Harilal Tribhovandas & Bros.—161, Panjrapole Road.
Hasham Joosab.—291-A, Duncan Road.
Industrial Minerals & Chemical Co.—125, Narayan Dhuru Street, Bombay 3.
Laxmi Mortar Mills.—Portuguese Church Street, Dadar.
Mohanlal Jamnadas & Sons.—Opp. Mohan Building, Girgaum.
Nenshi Monji.—123, Mahatma Gandhi Road, Bombay 1.
Pavri, Kavasjee Bhicaji.—10, Transvaal Terrace, Falkland Road.
Stone Supplying Co. Ltd.—494, Duncan Road, Bombay 14.
Taiyabi Mortar Mills.—10, Umeria Street, Chokey Mohalla.
Tansukhlal Ratilal & Co.—15, 2nd Sutar Gali, Null Bazar.
Wagle & Sons.—Opp. Congress House, Girgaum Back Road.
Yusuf Dada Chunawalla & Co.—34, Bapu Khote Street, Bombay 3.

SANDALWOOD MERCHANTS

Bharucha, A. K., & Co.—202, Bora Bazar Street, Fort.
Edulji Rustomji Sukhadwala.—266, Thakurdwar, Bombay 2.
Mysore Products, Ltd.—191, Princess Street.
Sorabji Nowroji & Co.—16, Horniman Circle, Fort.
Sukhadwalla, Manecksha Hormasji.—Opp. Wadia's Fire Temple, 607, Girgaum Road.
Wardens (Mysore) Ltd.—378, Karanjia Building, Grant Road.

SANITARY ENGINEERS

Adamally Sons Ltd.—277, Nagdevi Street, Bombay 3.
Advance Tube Co.—99, Nagdevi Street, Bombay 3.
A. G. Karimji Calcuttawalla.—82,84, Gulalwadi, Kika Street, Bombay 4. Phone: 73636. Grams: "SANITARY."
Badrudin Hasanali & Co.—43, Gulalwadi, Kika Street.
Balsara & Co.—41-45, Medows Street, Fort.
B. BAMBOAT & CO. PRIVATE LTD.—56, Gowalia Tank Road, Bombay 26. Phone: 41917. Grams: "PILLARTAP."
Bhathena & Co.—Patel's Bungalow, 187, opp. Grant Road Railway Station (Up).
Bhathena, B. N., & Co.—100, Nagdevi Street, Bombay 3.
Bhole & Co.—Near Fire Temple, Junction of Queen's Road & Thakurdwar Road.
BOMBAY SANITARY ENGINEERING CO., THE.—204, Bazargate Street, Fort, Bombay. Phone: 261327.
Burjor Framji & Co.—Marine Mansion, Marine Lines, Off Queen's Road.
CHANDULAL VORA & CO.—(Licensed Plumbers), 61, Kika Street, Gulalwadi, Bombay 4. Phone: 72381.
CHIMANLAL VADILAL & CO.—Sanitary Engineers & Building Contractors, 473, Falkland Road, opp. 2nd Carpenter Lane, Bombay 4. Phone: 42671.
Chunilal Parikh & Co.—478, Duncan Road, Bombay 4.
Dhamankar, W., & Co.—196A, Girgaum Road, Bombay 4.
Esoofally Dawoodbhoy.—18, Doctor Street, Dhanwadi Moholla.
Esufally Adamji & Co.—134, Nagdevi Street.
Fidaali Rajabali.—165, Hill Road, Bandra.
FIDAHUSEIN HASANALI.—(Licensed Plumber), 48, Kika Street, Gulalwadi, Bombay 4. Phone: 72388.
Gagrat & Co.—160, Nagdevi Street.
Gannon, Dunkerley & Co., Ltd.—Chartered Bank Building, Mahatma Gandhi Road, Fort.
Gedbole Bros.—101-103, Mugbhat Street, Girgaum.
Jafferjee Hussonally & Sons.—68, Nagdevi Street, Bombay 3.
Jashwantlal Manecklal & Co.—40, Vir Nariman Street, Fort.
Keshavlal Lalcobhai.—87-89, Parsi Gali, Dhanji Street.
Khambati, G. L.—Hararwalla Building, 5, Ardeshir Dady Street, Sandhurst Road, Bombay 4.
MARKER, S. D., & CO. PRIVATE LTD., (ESTD. 1901).—381, Dr. Dadabhai Naoroji Road, Fort, Bombay. Phone: 253236. Grams: "MARKERCOY." Branches at: New Delhi, Chandigarh and Srinagar. Sanitary Engineers & Contractors. Specialists in Domestic Plumbing, Hot & Cold Water supply, Drainage & Sewage disposal.
Mavani, B., & Co.—187, opp. Grant Road Station (East), Bombay 7.
Minoo Cawasji Press, L. S. E.—Sanitary Engineer, Hamal Wadi, Dhobi Talao.
Mistry, P. M., & Co.—43, Tamba Kanta, Pydhonie.
Mohomedbhoy Esoofally Nulwalla.—78, Bapu Khote Street, Jamba Moholla, Null Bazar, Bombay 3.
Nanalal Ambalal & Co.—69, Nagdevi Street, Bombay 3.
Nanalal Pandya & Co.—302, Angrewada, Kalbadevi Road.
National Engineering Co.—103, Nagdevi Street.
National Sanitary Engineering Co.—88-90, Kika Street, Bombay 4. Phone: 76360.
NEW INDIA SANITATION COMPANY.—Central Bank Building, 3rd Floor, Fort, Bombay. Phone: 254122. Grams: "NISC." Sanitary Engineers, Licensed Plumbers, Contractors and Hot Water Specialists.
Patankar, B. A., & Co.—Madhav Wadi, Naigaum Cross Road, Dadar.
Parikh Brothers—12, Elphinstone Circle, Bombay 1.
Pawar, B., & Co.—Near Madhav Baug, 102, Ardeshir Dady Street.
Press Cowasji Dinshaw.—Hamal Wadi, Dhobi Talao, Bombay 2.
R. MOOLCHAND & CO.—44, Nagdevi Cross Lane, Bombay 3. Direct Importers, Sanitary Wares, Tiles, Bath Tubs, Fancy Bath-Room Fittings. Grams: "POTTERY." Phone 34207.
Ratilal & Co.—Madhavji Thakersey Building, Picket Cross Road.
Richardson & Cruddas.—Byculla Ironworks, Byculla.
RINA COMPANY.—Botawalla Bldg., 7 10, Horniman Circle Fort, Bombay 1. Grams: "RINA TILES."
SAHNI, K. L., & CO.—Central Bank Building, 3rd Floor, Fort, Bombay. Phone: 254122.
SHAH MACHINE TOOLS CO.—75, Abdul Rehman Street, Bombay 3. Phone: 23275. Grams: "SHAHTOOLS" Manufacturers of copper ball valves and galvd. Pipes and fittings merchants.
Simpson, D. B., & Co.—33, Gamdevi Road, Grant Road, Bombay 7.
THE UNIVERSAL SANITARY ENGINEERING CO.—Kitab Mahal, 1st Floor, 190-192, Dr. Dadabhai Naoroji Road (Hornby Road), Fort, Bombay 1. Phone: 26-4299.
United Tube & Hardware Co.—146, Nagdevi Street, Bombay 3.
Victoria Sanitary Stores.—54, 3rd Bholwada, Bhuleshwar, Bombay 2.
Vidya Sanitary Works.—16-24, Lohar Chawl, Bombay 2.
Y. M. Pathare and Company.—P. Box 1428, 41, Medows Street, Bombay. Phone: 24415.

SANITARY WARES, PIPES & FITTINGS

Abdulhuscin Esoofally Contractor.—91-93, Bapu Khote Street, Bombay 3.
ADVANCE TUBE CO.—99, Nagdevi Street, Bombay 3. Phone: 30822. Grams: "ELBOWS".
A. G. KARIMJI CALCUTTAWALLA.—Pipes, Fittings and Sanitarywares, 82/84, Gulalwadi, Kika Street, Bombay 4 Phone: 73636. Grams: "SANITARY."
Armstrong Smith Private Ltd.—Gresham Assurance House, Sir Phirozshah Mehta Road, Bombay 1.
Asgarali Nuruddin & Co.—95, Nagdevi Street, Bombay 3.
Badruddin Hasanali & Co.—43, Gulalwadi, Kika Street, Bombay 4.
Balsara & Co., Ltd.—43, Medows Street, Bombay 1.
Batliboi, C. J., & Co.—219, Hornby Road, Fort.
Bharucha & Co.—129, Esplanade Mansions, Mahatma Gandhi Road, Bombay.
Bombay Building Materials Trading Co.—78, Medows Street, Fort.
Bombay Potteries & Tiles Ltd.—Pipe Road, Kurla, Bombay.
Bombay Sanitaryware Association.—Jeroo Building, 1st Floor, 187, Mahatma Gandhi Road, Bombay 1.
Calcutta Iron and Steel Co.—46/D, Mohamedally Road, Bombay 3.
C. Bhoglal & Co.—Hanuman Building, Behind Reserve Bank Elphinstone Circle, Fort.

C. Tribhovandas & Co.—11, Green Street, Bombay 1.
Chunilal Parikh & Co.—478, Duncan Road, Bombay 4.
Clubwala & Co.—27-29, Hamam Street, Fort.
Crown Sanitary Suppliers.—9, 1st Cooper Street, Bombay 3.
Domestic Appliances Co., Ltd.—Forbes Building, Home Street, Bombay 1.
Esufally Adamji & Co.—134, Nagdevi Street, Bombay 3.
Fleming John & Co., Private Ltd.—P. B. No. 76, Bombay 1. Phone: 261153.
F. J. Rehmani & Co.—5, Bank Street, Bombay 1.
Garlick & Co.—Haines Road, Jacob Circle.
Geo. Service & Co.—Byculla Iron Works, Parel Road, Bombay 8.
Gigabhai, K., & Sons.—8-10, Green Street, Fort, Bombay.
Gokaldas Shivalal & Co.—76, Kika Street, Bombay 4.
Gopalchand Puri & Brothers.—70, Mahomedali Road, Bombay 3.
Gupta, D. P., & Co.—181, Nagdevi Street, Bombay 3.
Hindustan Tube Company.—163, Nagdevi Street, Bombay 3.
India House.—Prop.: Rajabali Gulamali, 85, Nagdevi Street, Bombay 3.
Jashwantlal Manecklal & Co.—40, Vir Nariman Street, Fort.
J. Champaklal & Co.—44, Nagdevi Cross Lane, Bombay 3.

JAYANTILAL GOKALDAS & SONS.—232, Masjid Bunder Road, Bombay 3. Phone: 39895. Pipe, Pipe-Fittings, Hardware & Sanitarywares.

JIVRAJ & VRAJLAL.—122, Nagdevi Street, Bombay 3. Phone: 30136. Grams: "SANIPIPES."

K. Chimanlal & Co.—107-A, Nagdevi Street, Bombay 3.
Maganlal Pranlal & Sons.—105, Nagdevi Street, Bombay 3.
Marker, S. D., & Co., Ltd.—381, Hornby Road, Fort.
Modern Tube & Sanitary Stores.—48, Nagdevi Street, Bombay 3.

NANALAL AMBALAL & CO. (Estd. 1917).—69, Nagdevi Street, Bombay 3. Phone: 728754. Grams: "VILVALHIRO." Regional Sole Distributors for (1) Parry's 'EID' brand superior Indian Sanitary Ware (2) Stone Ware pipes of Messrs. Perfect Pottery Co. Ltd., Jabalpur. Large Stockists of all kind of pipes, Fittings & Sanitaryware.

N. M. MEHTA & CO. (Estd. 1915).—4-10, Old Custom House Road, Fort, Bombay 1. Phone: 255047. Grams: "EMBOSSED."

National Sanitary Engineering Co.—88-90, Kika Street (Gulalwadi), Bombay 4.
Parikh Brothers.—12, Elphinstone Circle, Bombay 1.
P. S. Parekh & Co.—108, Nagdevi Street, Bombay 3.
Royal & Co.—21, Bank Street, Bombay 1.
Richardson & Cruddas Ltd.—Byculla Iron Works, Parel Road, Bombay 8.

RINA COMPANY.—Botawalla Bldg., 7-10, Horniman Circle, Fort, Bombay 1. Grams: "RINATILES".

R. MOOLCHAND & CO.—44, Nagdevi Cross Lane, Bombay 3. Direct Importers, Sanitarywares, Tiles, Bath Tubs, Fancy Bathroom Fittings. Grams: "POTTERY." Phone: 34207.

R. Parikh & Co.—Botawalla Building, 11-13, Elphinstone Circle, Fort, Bombay.
Sahni & Co., K. L.—Central Bank Building, 3rd Floor, Fort.
Sanity Sanitary Stores.—109/114, Nagdevi Street, Bombay 3.
Sajan & Co.—18, Custom House Road, Fort, Bombay.
Shah, A. H., & Co., Ltd.—Jan Mansion, Sir Phirozshah Mehta Road, Fort.
Shapurji & Co., B. K.—319, Hornby Road, P.B. 1065, Fort.
Universal Sanitary Engineering Co.—Kitab Mahal, 190/192, Hornby Road, Fort.
Vadilal & Co.—435, Duncan Road, Bombay 4.
Veeram & Co.—72/74, Nagdevi Street, Bombay 3.
Victoria Sanitary Stores.—54, 3rd Bholwada, Bhuleshwar, Bombay 2.
Vinubhai Chandulal & Co.—63, Nagdevi Street, Bombay 3.
Vulcan & Co.—Ash Lane, Medows Street, Fort.
W. Peeth & Co.—Aludin Building, Dhobi Talao, Bombay.
W. H. Heath & Co.—Stronach House Ballard Estate, Bombay 1.

SAW MILLS

Bombay Saw Mills Co.—Connaught Cross Lane, Ghorupdeo.
Brijmohan Banwarilal.—61, Reay Road, Mazagaon, Bombay 10.
Calder Saw Mills.—40, Victoria Road, Mazagaon, Bombay 10.
Grand Woodworks & Saw Mills.—Connaught Cross Road, Ghorupdeo.
McKenzies, Ltd.—Sewri.
Meherally Saw Mill & Timber Works.—Ghorupdeo, Connaught Road, Bombay 10.
Millar's Timber & Trading Co., Ltd.—Victoria House, Victoria Road, Mazagaon.

PODAR SAW MILLS.—61, Reay Road, Bombay 10. Phone: Office: 42203 (Res.: 60144).

Sunderdas Saw Mills.—Opp. Reay Road Station, Bombay 10.
Western Australia State Saw Mills, Perth.—Agents: Killick, Nixon & Co., Home Street, Fort.

WOOD BOX SUPPLY CO.—Sion Trombay Road, Chembur, Bombay 38. Phone: 67284. Sole Manufacturers in India of Multi Colour Printed Wooden packing cases; Stockists of Fir & Pine Wood.

SCIENTIFIC INSTRUMENTS

Ama Private Ltd.—"Photo Cine Sound," Canada Building, Hornby Road, Fort.

ASHA SCIENTIFIC COMPANY.—Lotlikar Mansion, 503, Girgaum Road, Bombay 2. Grams: "ASHACOM." Phone: 22855.

Associated Instrument Manufacturers (India) Private Ltd.—India House, Fort Street, Bombay 1.
Balmer Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate, Fort.
Bole Brothers.—49, Princess Street, Bombay 2.
Eastern Electric & Engineering Co.—127, Mahatma Gandhi Road, Bombay 1.
Gordhandas, Desai Private Ltd.—Kermani Bldg., Sir P. M. Road, Grams: "MICROSCOPY." Branches: Calcutta and Madras
Hardcastle, Waud & Co., Ltd.—Alice Building, Hornby Road, Fort.

INDIA SCIENTIFIC TRADERS.—Peerbhoy Mansion, 460, Sardar Vallabhbhai Patel Road, Bombay 4. Phone: 76336. Grams: "ESVIJACK."

Jagtiani, J. T.—National House, 6, Tulloch Road, Bombay 1.
Jagkumar & Co.—Prospect Chambers Annexe, 317-21, Hornby Road, Fort.
Larsen & Toubro Ltd.—I. C. House, Dougall Road, Ballard Estate, Fort.
Lawrence & Mayo (India) Ltd.—274, Hornby Road, Fort.

MARTIN & HARRIS (PRIVATE) LTD.—Savoy Chambers, Wallace Street, Bombay 1.

NATIONAL SCIENTIFIC INSTRUMENTS CO.—19, Bank Street, Fort, Bombay. Phone: 252198. Grams: "TELESCOPE." Importers & Manufacturers of Scientific and Medical Apparatus. Sole Agents for world renown "W. GREIFELDD" Wetzlar, German Miscroscopes, "REO" German Rheostats; Optiscope & Epidioscope, Optelma's Ltd., Switzerland.

Parekh Bros., Ltd.—65, Mahatma Gandhi Road, Fort.

PIONEER EQUIPMENT CO. PRIVATE LTD.—139, Medows Street, P.O. Box 1909, Bombay 1. Phone: 25-1882. Also at 1, Mangoe Lane, Calcutta 1. Phone: 231611 and 193, Mount Road, Madras 2. Grams: "PIOMETAL." Agents in India for Messrs. Cooke, Troughton & Simms Ltd., U.K. for Microscopes and other Optical Equipment, Tinsley (Industrial Instruments) Ltd., U.K. for Polarographs. Messrs. Harry W. Dietert Inc., U.S.A. for Sand Testing & Control Equipment, also Stockists of Pyrometers, Recorders, Controllers, Muffle Furnaces, Calorimeters and other items for Industrial and Research Laboratories.

Prabhudas & Co.—255-3/C, Mangaldas Building, Mangaldas Road, Bombay 2.

RADIO LAMP WORKS LTD.—45-47, Veer Nariman Road, Bombay 1. Phone: 25-3841. Grams: "SOFTLITE." Branches at: Calcutta, Delhi, Kanpur, Indore, Madras, Gauhati & Wardha.

RAJ-DER-KAR & CO.—Commissariat Building, Dr. Dadabhai Naoroji Road, Fort, Bombay. Phone: 262304. Grams: "TECHLAB." For Research & Industries.

REMEDIOS & SONS.—255, Dr. Dadabhoy Naoroji Road (Hornby Road), opp. Lloyds Bank Ltd., Fort. Scientific Instruments makers.

Scientific Apparatus & Chemical Works Ltd.—27, Hamam Street, Fort.
Scientific & Industrial Supplies Corporation.—Princess Street, Bombay 2.
Scientific Instrument Co., Ltd.—Navsari Building, 240, Dr. Dadabhoy Naoroji Road (Hornby Road), Fort.
Shah, M., & Co.—Kanji Mansion, Sandhurst Road, Bombay 4.
Sonai Rangnow & Co.—41, Hamam Street, Fort, Bombay.

TEMPO INDUSTRIAL CORPORATION PRIVATE LTD.—1st Floor, Devkaran Mansion, 79, Princess Street, Bombay 2. Grams: "DRIENDRUG." Phones: 39372. Factory: 86305. Manufacturers of Laboratory Equipment and Scientific Apparatus.

TECHNICAL TOOLS.—65 A, Dockyard Road, Mazagaon, Bombay 10. Thermocouples, Dial Thermometers, Ovens, Furnaces, Steam Baths, Agers, etc.

Thermo-Electric Equipment Co.—59, Commercial Chambers, Masjid Bunder Road, Bombay 3. Factory: Tripunithura, Kerala State.
Trinity Electric Syndicate.—Princess Street. (Electrical).

UNIQUE TRADING CORPORATION.—221, Shaikh Devji Street, Bombay 3. Grams: "UNILLAB." Phone: 30911.

WESTREX CO., INDIA.—Metro House, Mahatma Gandhi Road, Bombay No. 1. Grams: "WESTREX." Phone Nos. 242273 and 242274. Post Box No. 1232.

Zenith Surgical Co.—206, 2C, Mangaldas Bldg., Mangaldas Road, Bombay 2.
Zill & Co.—Princess Street, Bombay 2.

SCIENTIFIC & MARINE INSTRUMENTS

E. W. Stevens & Company Ltd.—Mackinnon Mackenzie's Building, 4, Ballard Road, Bombay. Phone : 263285.
Gaytee & Co.—Janmabhoomi Chambers, Fort Street, Bombay 1.
Gordhandas Desai Private Ltd.—Kermani Bldg., Sir P. M. Road, Bombay 1.
Hardcastle Waud & Co. Private Ltd.—Alice Bldg., Dr. D. Naoroji Road, Bombay 1.
Voltas Ltd.—Ballard Estate, Bombay 1.

SCRAP IRON

NATHANI STEEL YARD.—Opp. Sewree Police Station, Darukhana, Bombay 10.

SCRAP MERCHANTS

EAST ASIATIC CO. (INDIA) PRIVATE LTD.—Wavell House, Graham Road, Ballard Estate, Bombay. Phone : 262711. Offices at Madras, Calcutta, New Delhi.
National Hardware & Stores Supply Co.—Post Box 3146, Bombay 3. Grams : "REQUISITES."

SEEDS (DEALERS, EXPORTERS & IMPORTERS)

Chimanlal Patel & Co.—174, Hornby Road, Fort.
Laxmi Commercial Agency.—16, Apollo Street, Fort.
Poonjiajee, J. M. Jehangir.—Byramji Mansion, Sir Phirozshah Mehta Road, Fort, Bombay.
Premji Haridas & Co.—Bhanushali Chambers, Argyle Road, Bombay 9.
Tavaria Bros.—Dhun Nur, Sir Phirozshah Mehta Road, Fort.

SEWING MACHINE DEALERS

Bell & Co., Ltd.—6, Sir Phirozshah Mehta Road, Fort.
HARRISON, SEWING MACHINES & PART DEALERS.—134, New Charni Road, Bombay 4. Phone : 76467.
Imperial Sewing Machine Co.—Dhutpapeshwar Building, Mangalwadi, Girgaum.
JAYANTILAL KESHAVLAL & BROS.—Lehri Bldg., 282, Sardar Vallabhbhai Patel Road, Bombay 4. Grams : "GORDIA." Importers and Exporters. Progressive manufacturers of "JUPITER" Brand Sewing Machines and "JK" Brand Sewing Machines Parts. Pioneers in Sewing Machines Parts for every model since 1920. Branches at Ahmedabad and Rajkot.
Khurya Co. Ltd.—Head Office : Beaumon Chamber, 27/33, Medows Street, Fort.
Lalchand, R., & Co.—93, Princess Street, Bombay 2.
Mehta Bros. & Co.—Krishna Building, 306, Sandhurst Road, Bombay 4.
Pedneker & Co.—172, Girgaum Road, Bombay 4.
Shah & Co.—Opp. Prarthana Samaj, 161, Charni Road, Bombay 4.
SINGER SEWING MACHINE CO.—Singer Building, 207, Dr. Dadabhoy Naoroji Road, Fort, P.O. Box No. 441, Bombay 1. Phone : 26-3187 (3 Lines). Grams : "SISMACO."

SEWING THREAD & BUTTONS MERCHANTS

Ahmed, H., & Co.—139, Nagdevi Street.
Allied Exporters.—Kumud House, 267, Dr. Dadabhoy Naoroji Road, Fort, Bombay.
Amratlal & Co.—Sutarwala, 10, Mirza Street (Parsi Gally), Bombay 3.
Central Agency Ltd.—81, Palton Road, Fort.
Ebrahim Alibhai Bros.—15, Sutar Chawl, Bombay 2.
Fakhri Thread House.—72, Bhajipala Lane, Bombay 3.
Gulam Rasul Allahbux.—1-B, Bachooali House, Nowroji Hill Road No. 1, Bombay 9.
Kshitishkumar Das.—94, Swadeshi Market, Kalbadevi Road, Bombay 2.
Kulin Industries.—12-13, Swadeshi Market, Kalbadevi.
Lalchand, R., & Co.—93, Princess Street, Bombay 2.
Lukmanji Mussji Sutarwala.—41, Nagdevi Street, Bombay 3.
Narottamdas Bhagwandas & Sons.—32-36, Nagdevi Street, Bombay.
P. Parbhulal & Co., Ltd.—Whiteaway Laidlaw Building, Hornby Road, Fort.
Prabhabhai Nagarbhai.—386, Linking Road, Khar, Bombay 21.
Purshotam Bechar & Bros.—108-9, Swadeshi Market, Bombay 2.
Tolaram Ramdass & Co.—647, Girgaum Road, near Dhobi Talao, Bombay 2.
Vishram Bhagwandas & Co.—31, Sutar Chawl, Bombay 2.

SEWING THREAD MANUFACTURERS

Acme Thread Company Private Ltd., The—Atlas Mills, Reay Road Mazagon, Bombay 10.
C. NAROTAMDAS & CO.—185, Upper Duncan Road, Bombay 8. Phone : 40142. Grams : "BHUJWALA." Specialised in polished Threads and winding it on wooden spools (reels). Trade Mark : "TRIPPLE STAG."
HARI THREAD WORKS.—405, Duncan Road, Bombay 4. Grams : "TUBEROLLS." Leading manufacturers of all kinds of Sewing Thread and Embroidery goods.
ISHWARDAS & CO.—2, Sutar Chawl, Bombay 2. Tel. Office : 29751. Res. 34886. Grams : 'BADMINTON." Manufacturers, Exporters & Dealers of all sorts of threads. Sole Agents : Raghuvanshi Mills Ltd., for Sewing & Glazed Threads.
Jumna Thread Mills Ltd.—81, Palton Road, Bombay 1.
LAKHANI INDUSTRIES.—Office : 349, Katha Bazar, Bombay 9. Factory : 3-5, Syed Mukri Street, Bombay 9. Grams : "SIMPLEMEN." Manufacturers of "Jai Somnath Brand" Thread tubes specially made for all machines.

Insist on
Our own manufactured
LIGHT POST
MACHINE
REELS



SHAH TARACHAND SHAMJI
45, NAGDEVI STREET, BOMBAY 3
Grams : "THREAD" Estd. 1896 Phone : 38921

Thread House Limited.—Head Office : Beaumon Chambers, 27/33, Medows Street, Fort.

SHELLAC

East Asiatic Co. (India) Private Ltd.—Wavell House, Graham Road, Ballard Estate, Bombay. Phone : 262711. Offices at Madras, Calcutta, New Delhi.
Harbo Trading Syndicate.—Prospect Chambers Annexe, Hornby Road, Fort.
Kirtikumar Chandulal & Co. 313, Samuel Street, Vadgadi, Bombay
South Indian Shellac Mfg. Co., Ltd.—Jan Mansion, Sir Phirozshah Mehta Road, Fort.

SHIP BROKERS

SHIP SALES CO.—Commissariat Building, 231, Hornby Road, Bombay 1. Phone : 263598, After hours : 35070. Grams : "SHIPSALES" Bombay. (Code—New Boe). Brokers for the Sale and Purchase of Steamers and New Buildings, also Floating Equipment of every description. Towage Contractors. Advisers and Consultants on all Types of Marine Crafts including Dredgers, Tugs, Launches, Ferries, etc., Marine Insurance.
Shalebhoy Tyebjee & Sons—12, Bruce Street, Bombay 1.

SHIP BUILDERS

AFCO PRIVATE LTD.—Builders of Power and Sailing Craft, Naval Architects, Surveyors, Marine Engineers, Metal Sprayers. Office and Factory at 16, Sleater Road, near Grant Road Post Office, Bombay. Phone No. (Office & Factory) 41985. Tel. Address : "FEDACRETE" Bombay Boat Building Yard at Lakri Bunder, Bombay.
Alcock, Ashdown & Co. Ltd.—16, Bank Street, Bombay.
E. H. MARINE TRANSPORT CO.—Boat Hard Road, Coal Bunder, Darukhana, Bombay 10. Phones : 76445 & 41157. Grams : "KHICHADI" Bombay. Ship owners, Boat Builders & Repairers.
Mazagon Dock, Ltd.—Mazagaon, Bombay 10.
SHAPARIA DOCK & STEEL CO., PRIVATE LTD.—Structural Engineers and Shipbuilders of Passenger and Cargo Vessel Tugs, Barges, Launches, etc. Sewree Fort Road, Bombay 15. Phone : 60071-2,. Grams : "SHAPARIA".
Swastik Rolling Shutters & Engineering Works.—Parel State Road, Bombay 12.

SHIPCHANDLERS

Abbas, A., & Brothers.—127, Nagdevi Street, Bombay 3.

"Abco."—30, Sarang Street, Bombay 3. Phone : 39032.

ABDEALLY, B. M., & CO.—127, Sarang Street, Bombay 3. Phone : 29990. Grams : "ALERTDEAL."

ABDULHUSEIN PEERBHAI & SONS.—66-68-A, Peerbhai Bldg., Bhandari Street, Bombay 3. Phone : 22207. Grams : "STUDCHAIN". Stockists of Marine Stores, Wire Ropes, Chain Pulley Block, Ship Tackles, etc.

ADAMALLY SONS LTD.—277, Nagdevi Street, Bombay 3. Grams : "ADAMSONS." Phone : 23519.

ADAMJI KADERBHOY.—P. B. No. 5046, 337, Katha Bazar, Bombay 9. Phone : 39085. Grams : "RAJKOTWALA."

AMIRUDDIN SHALEBHOY TYEBJEE & SONS.—Shale Building, 2nd Floor, Bank Street, Fort, Bombay 1.

Associated Machine & Tool Co.—130, Medows Street, Fort.
Baker, A. M., & Co.—218, Nagdevi Street.
Bombay Shipchandlery & Engineering Mart.—Shipchandlers, Contractors and General Merchants, Mogul House, 377, Dalisle Road, Bombay 11.
Calcutta Iron and Steel Co.—68/D, Mahomedally Road, Bombay 3.
Central Engineering Co.—125, Nagdevi Street.
Chadha, B. M., & Co.—Jan Mansion, Sir Phirozshah Mehta Road, Fort, P. O. Box 671, Bombay.
Chandulal & Co.—Kathawalla, 11, Kazi Sayed Street, Bombay 9.
Chatrabhuj & Co.—Lohar Chawl.
Cooper & Co.—53, Abdul Rehman Street.
Darukhanawalla, F. E., & Co.—244, Nagdevi Street.
Dawoodi H. Vasi & Co.—104, Nagdevi Street.
Dhani Ram & Sons.—236, Masjid Bunder Road.
Doriwalla & Co.—Katha Bazar, next to Union Bank, Bombay 9.
Eastern Stores & Trading Co., Ltd.—115A, Nagdevi Street.
Edgar Handley & Co.—Saksaria Chambers, 130, Medows Street, Fort.

ESOOFALI ESMAILJI KARACHIWALLA & CO.—43-45, Bhandari Street, Koliwada, Bombay 3. Phone : 22877 Grams : "SLING". Shipchandlers and Stockists of Wire Ropes, Manila Ropes, Hardware, Ship Chains, Pulley Blocks, Shackles, Thimbles, Rope Clamps, Straining Screws, Hooks, Chain Slings, Wire Rope Slings, Wire Rope Nets, Chain Pulley Blocks, Pulley Blocks Chains, Coal Tar, Coal Pitch Felts, Marine Glue etc. Dealers in :—Marine, Mill and Factory Stores.

F. E. Darukhanawala & Co.—44, Nagdevi Street, Bombay 3.
Haiderbhoy Esmailji & Co.—168, Nagdevi Street, Bombay 3.
Hatimbhoy Goolamhusein & Bros.—193, Nagdevi Street.
Heptoola Noorudin & Co.—152-54, Nagdevi Street, Bombay 3.
Jashwantlal Manecklal & Co.—40, Churchgate Street, Fort.
Jashwantlal Manecklal & Co.—97, Nagdevi Street, Bombay 3.

JIVRAJ & VRAJLAL.—122, Nagdevi Street, Bombay 3. Phone : 30138. Grams : "SANIPIPES."

K. Chimanlal & Co.—107/A, Nagdevi Street, Bombay 3.
Kurwa & Kajiji.—142-44, Abdul Rehman Street.
Machine Tools & Implements.—24, Nagdevi Cross Lane, Bombay 3.
Mackenzies Limited.—Sewri, Bombay.

Name of SERVICE & PROGRESS

MARINE & MILLS (Agencies)

197, Nagdevi Street, Bombay 3. Phone : 28945

(On Government and Railway Lists)

Largest Stockists of:
Manila Ropes, Sisal Ropes, Wire Ropes & Wire Rope Accessories, Wire Rope Blocks for Ship's derrick & Industrial Purposes.
Makers of Cargo Lifting Gears upto 100 tons. Safe Working Load.
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Approved Stockists of M/s Imperial Chemical Industries (India) P. Ltd., for ALFLOC BOILER WATER TREATMENT & LISSAPOL-N Detergent.

SHIPCHANDLERS & CONTRACTORS

Mahruwala, C. M., & Co.—172-74, Nagdevi Street, Bombay 3.
Mohsinbhai Dawoodbhai.—171-73, Nagdevi Street, Bombay 3.
Moloobhoy, & Sons.—281, Nagdevi Street, Bombay 3.
National Hardware & Stores Supply Co.—Post Box 3146, Bombay 3. Phone : 33462. Grams : "REQUISITES."
New India Hardware Mart.—152, Narayan Dhuru Street, Bombay 3.
Noormanbhoy Abdeally & Co.—96-98, Nagdevi Street.

NOOROODIN SHAIKADAM & CO.—159, Nagdevi Street, Bombay 3. Phone : 23004.

Odhavlal, R., & Co.—86, Nagdevi Street, Bombay 3.
Radiance Trading Co.—25/47, Lohar Street, Bombay 3.

ROYAL HARDWARE MART.—108, Nagdevi Street, Bombay 3. Phone : 38621. Grams : "MANILAROPE."

Saify, T. A., & Brothers (India).—20, Sarang Street, Bombay 3.
Salebhoy Tyebbhoy & Co.—Tyebji Building, 93, Nagdevi Street, Bombay 3.

SHALEBHOY TYEBJEE & SONS.—12, Bruce Street, Fort, Bombay 1. Phone : 252357. Grams : "ROTATOR."

TALIB & CO.—Talib House, 104, Nagdevi Street, Bombay 3. Phone : 27977. Grams : "TALIBCO." Pipes, Fittings & General Hardware Merchants.

Textile Store & Hardware Mart.—32, Bibijan Lane, Nagdevi Street.
The Standard Trading Co.—Vithal Sayana Building No. 2, Lohar Street, Bombay 2. Phone : 32274. Grams : "Digvijay".
United Tube & Hardware Co.—146, Nagdevi Street, Bombay 3.
Vasi, Shums & Co., Ltd.—Vasi Building, 165-67, Nagdevi Street.
Vishwa Bharati Trading Co.—14, Kumpta Street, Ballard Estate, Bombay 1.
Y. M. Pathare and Company.—Post Box 1428, 41, Medows Street, Bombay 1. Phone : 24415.
Zaveri, C. A., & Co.—44, Abdul Rehman Street.

SHIPPING AGENTS

ABRAHAM, D., & SONS PRIVATE LTD.—Hague Building, Sprott Road, Ballard Estate, Fort.

Amar Clearing Agency.—Dabholkar Wadi, 384A, Kalbadevi Road, Bombay 2. Phone : 28930.
Anchor Line Ltd — Ballard Estate, Bombay 1.
Currimbhoy Lalljee Sajun & Co.—"Brightlands," Lansdowne Road, Apollo Bunder, Bombay 1.

DEWAN, L., & SON.—Jan Mansion, Sir Phirozshah Mehta Road, Fort. Phones : 261341 and 263469. Cable : "RAILCUMSEA."

FINLAY JAMES & CO., LTD.—Chartered Bank Building, Mahatma Gandhi Road, Fort, Bombay 1.

Forbes, Forbes Campbell & Co. Private Ltd.—Forbes Bldg, Home Street, Bombay 1.
Killick, Nixon & Co Ltd.—Killick House, Home Street, Bombay 1.

LESLIE, E., & CO.—Botawalla Bldg., 7-10, Horniman Circle, Fort. Shipping, Clearing, Forwarding, Passenger and Insurance Agents. Phone : 255540. Grams : "RITTA."

Lionel Edwards Ltd.—Nicol Road, Ballard Estate, Bombay.
M. Dharamdas & Co.—Mehta House, Calicut Street, Ballard Estate, Bombay. Phone : 33225. Clearing, Forwarding & Shipping Agents.
Manilal Patel & Co.—Kamer Building, 38, Cawasji Patel Street, Bombay.
Marine Transport Co. Private Ltd. Sprott Road, Ballard Estate, Bombay.
Narottam & Pereira Ltd.—Scindia House, Dougall Road, Ballard Estate, Bombay.
New Dholera Shipping & Trading Co. Ltd.—Bombay Mutual Building, 293, Hornby Road, Bombay 1.

SHREERAM SHIPPING SERVICE (PRIVATE) LTD.—Exporters, Importers, Shipping, Clearing, Forwarding and Steamer Agents. Grams : "SHREERAM." Phone : 610. Harbour Road, Visakhapatnam (India). Managing Agents : Rai Bahadur Shreeram Religious & Charitable Trust, P. O. Tumsar (B.S.).

Turner Morrison & Co Ltd.—16, Bank Street, Bombay 1.
Volkart Brothers—Graham Road, Ballard Estate, Bombay 1.
Wallem & Co. (India) Ltd.—India House, Fort Street, Fort, Bombay 1.

SHOE MAKING MACHINERY AND MATERIALS

E. PEERBHOY & SONS.—Prop. : Indian Durries Emporium, Shahru Castle, 64, Mohamedali Road, Bombay 3. Phone : 23806. Grams : "INDIAWEAVE".

GOWARDHANLAL SETHI & SONS.—159, Narayan Dhuru Street, Bombay 3. Phone : 30041 (Ext. 17). Grams : "MATERIAL." Specialists in Shoe-eyelets, Rivetbuttons, bifurcated Rivets, Tingles, Tacks, Hobnails, Heeltips, Sofasprings.

SIGNBOARD PAINTERS

Athavia, N. A. (Estd. 1921).—Lamington Chambers, Lamington Road, opp. West End Cinema, Bombay 4.
Bright Bros. Private Ltd.—156-A, Tardeo Road, Bombay 7. Grams : "BRIBOS." Manufacturers of Plastic Signboards, Speculator of other Advertising Novelties.
Gawade Art Service.—233, Bazargate Street, Fort.
Goonanath, P.—Nana Shankar Seth's Wadi, Girgaum Road, Thakurdwar.
Kothar, M. B., Brothers.—373, Girgaum Road, Thakurdwar.
More, S. & Co.—34-38, Hamam Street, Fort.
Nagool Bros.—100, Mint Road, Fort.
Pioneer Trading Co., The.—Kanti Bhuvan, Parel, Bombay 12.

SILK & ART SILK MILLS AND FACTORIES

A. A. Patel Wvg. Factory.—Bhiwandi (Dist. Thana).
Abdul Samad Haji Lal Muhamed Wvg. Factory—Bhiwandi (Dist. Thana).
Adarsh Textile Industries Private Ltd.—Agra Road, Bhiwandi (Dist Thana).
Aleli & Co., Private Ltd.—Agra Road, Vikhroli, Bombay 40.
Alliance Silk Mills.—Atlas Mills Compound, Reay Road, Bombay 10.
Allied Silk Mills.—C/o Hassamal Dalamal, New Silk Bazar, P.O. Box 2236, Bombay 2.
Amar Silk Mills.—New Islam Mills Compound, Currey Road, Bombay 3.
Amarchand Silk Mills.—6 A, Bruce Street, Sir Vithaldas Chambers, Fort, Bombay 1.
Amar Jyoti Silk Mills.—Nizampura, Bhiwandi (Dist. Thana).

AMBIKA SILK MILLS CO. LTD., THE.—11-12, Haines Road, Mahalaxmi, Bombay 13. Mg. Agents: Maganlal Bhagwandas & Co., Mills at Haines Road, Mahalaxmi, Bombay 13. Office on Mill premises. Phone: 42852. Grams: "QUALITYFAB". Manufacturers of Rayon and Nylon Piece-goods.

Amrit Silk Mills, Shroff Wadi, Mount Road, Mazagaon, Bombay 10.
Anil Textile Mills Private Ltd.—22, Lamington Road (North), Lal Chimney, Bombay 11.
Anis Silk Mills.—Saudagar Mohalla, Bhiwandi (Dist. Thana).
Arun Silk Mills.—Umakant Mansion, 2nd Floor, 384, Kalbadevi Road, Bombay 2.
Asha Silk Mills Private Ltd.—Agra Road, Vikhroli, Bombay.
Ashar Silk Mills.—Sonari Road, Vile Parle (East), Bombay 24.
Ashok Silk Mills.—144, Dharavi Road, Sion, Bombay 17.
Asian Rayon Mills.—New Islam Mills Compound, Curry Road, Bombay 13.
B. M. K. Industries Private Ltd.—Kalina Road, Old Kurla, Bombay 37
Bajaj Textile Mills Private Ltd.—39, Champagalli, New Silk Market, Bombay 2.
Balgopal Silk Mills.—13-D, Dhaku Parbhu Wadi, Gorupdeo, Mazagaon, Bombay 10.
Bharat Silk Mills Private Ltd.—Opp. Kurmuri Village, Agra Road, Kurla, Bombay.
Bharat Textiles.—480, Kalbadevi Road, P.O. Box 2320, Bombay 2.
Bhimanath Silk Mills.—64, Chikal Galli, M. J. Market, Bombay 2.
Bhiwandi Textile Works.—Samad Mills Compound, Kumbharwada, Bhiwandi (Dist. Thana).
Bipin Silk Mills Co., Private Ltd.—12, Dadar Road, Kasturchand Mills Compound, Dadar, Bombay 14.
Bishen Silk Mills.—Agra Road, Bhandup (Central Rly.).
Bombay Silk Mills Ltd.—Industrial Estate, Lalbaug, Bombay 12.
Bombay Textile Mills.—Survodaya Mills Compound, Tardeo Road, Bombay 7.
Bradbury Mills Ltd.—C/o Messrs. Ramnarayan Sons Ltd., Imperial Bank Bldg., Bank Street, Fort, Bombay 1.
Cadell Wvg. Mills Co., Private Ltd.—400, Cadell Road, Bombay 28.
Calico Industrial Engineers.—Sone Baug, Chakala, Andheri (B.S.D.).
Central Wvg. & Mfg. Co.—Swastik Mills Compound, Fergusson Road, Lower Parel, Bombay 13.
Champakial & Bros.—Sayee Bhuvan, 143, Princess Street, Bombay 2.
Choltram's Silk Mills.—Gandhi Mansion, New Silk Market, Bombay 2.
Chokshi Silk Mills.—61-63, Shamset Road, 1st Floor, Chhipi Chawl, Zaveri Bazar, Bombay 2.
C. & J. Silk Mills.—Nehru Road, Vile Parle, Bombay. Phone: 26783. Manufacturers of Georgette and Ninon.
D. V. Industries.—Bhau Saheb Desai Wadi, Bhavani Shankar Road, Dadar, Bombay 28.
Dinesh Silk Industries Private Ltd.—Bombay-Agra Road, Bhandup (C.R.) (Dist. Thana).
Eldee Velvet & Silk Mills, Private Ltd.—Opp. Bawala Mosque, DeLisle Road, Parel, Bombay 13.
Essardas Silk Mills.—Agra Road, Bhandup, (C. Rly.), (Dist. Thana).
Ganga Silk Mills.—C/o Satish Trading Co., Old Hanuman Lane, Parekh Building, 2nd Floor, Bombay 2.
Gautam Silk Mills.—Ishwarbhai Patel's Estate, Goregaon, Bombay.
Harichand Textile Mills Private Ltd.—Agra Road, Vikhroli, Bombay 40.
Hazari Silk Mills.—Kasara-Basin Road, Darukhana Mazagaon, Bombay 10.
Hidayatullah Textile Works.—Samad Mills Compound, Khumbharwada, Bhiwandi, (Dist. Thana).
Hind Silk Mills Private Ltd.—1st Floor, Dahanukar Building, Kalbadevi, Bombay 2.
Indianese Silk Mill Co., The.—Sewri Cross Road, Wadala, Bombay 15.
Ismail Khashal Wvg. Factory.—Thana Road Bhiwandi (Dist. Thana).
J. L. Gokani Mills.—Opp. Dak Bungalow, Bhiwandi (Dist. Thana).
Jagdamba Fabrics Wvg. Works.—Perubaug, Goregaon (East), Bombay.
Jagmohan Silk Mills Private Ltd.—9, Silk House, 1st Floor, Hamalwadi, Bombay 2.
Jaljabs Rayon.—Jai Hind Silk Mills, Opp. Hatterslay Mills, Agra Road, Ghatkopar.
Jalem Wvg. Mills.—Village Road, Kurla.
Jasmine Mills Private Ltd.—Mahim, Bombay 16.
Jyoti Silk Mills.—C/o Vanmalidas Zaverchand, 418, Kalbadavi Road, Bombay 2.
Kala Silk Factory.—Ganesh Wadi, Ganesh Building, Bombay 2.
Kamala Mills Ltd.—45-47, Apollo Street, Fort, Bombay 1.
Kapoor Wvg. Works.—Jambulwadi, Kalbadevi Road, Bombay 2.
Kathiawar Textile Mills.—C/o Hasmukh & Co., 58, Chhipi Chawl, Bombay 2.
Khaitan Silk Mills. Private Ltd.—St. Mary's Road, Mazagaon, Bombay 10.
Khetan Industries Ltd.—Khetan Bhuvan, 198, Jamsedji Tata Road, Churchgate Reclamation, Bombay 1.
Khetani Textile Industries, Private Ltd.—105/107, Bazar Ward, Old Kurla, Bombay.
Kiran Silk Mills Private Ltd.—Kasturchand Mills Compound Dadar, Bombay 14.
Kothari Silk Mills.—Atlas Mill Compound, Reay Road, Bombay 10
Kum Kum Silk Mills.—60, Chhipi Chawl, Shamset Street, Zaveri Bazar, Bombay 2.
Lahoti Wvg. Mills.—Kalyan Road, Bhiwandi (Dist. Thana).
Lajya Silk Mills.—Khatav Nivas, Jambulwadi, Kalbadevi, Bombay 2
Liberty Silk Mills Private Ltd.—106/107, Bazar Ward, Kurla.
Lotus Silk Mills.—Kumbharwada, Bhiwandi, (Dist. Thana).
M. K. Gupta Wvg. Mills.—Behind Electric Power House, Bhiwandi (Dist. Thana).
Madan Mohan Dyeing, Printing & Silk Mills.—419 D, Joshi Wadi, Kalbadevi Road, Bombay 2.
Mahajan Silk Mills.—3A, Dadaji Dhakjee Bldg., Dr. Annie Besant Road, Worli, Bombay 18.
Maharaj Silk Mills.—Gazdar House, Dhobi Talao, Bombay 2
Mahavir Silk Mills.—64, Chhipi Chawl, Opp. M. J. Market, Bombay 2
Manhar Mills Private Ltd.—Framji Petit Mills Compound, Reay Road, Bombay 10.
Model Silk Mills.—Suryodaya Mills Compound, Tardeo, Bombay 7
Modern Textile Mills.—Opp. 155, D. D. Chawl, Worli, Bombay 18
Mohanlal Silk Mills.—Atlas Mills Compound, Reay Road, Bombay 10
Moon Silk Mills.—Suryodaya Mills Compound, Tardeo, Bombay 7
Mukund Silk Mills.—Bombay Cotton Mills Compound, Kalachowki Road, Parel, Bombay 12.
Narayan Silk Mills Ltd.—34, Nesbit Road, Mazagaon, Bombay 10
Narendra Silk Mills.—Atlas Mills Compound, Reay Road, Bombay 10

NATIONAL ART SILK MILLS PRIVATE LTD., THE.—Old Kasturchand Mills Compound, Dadar, Bombay 28. Phones: 60440 & 61060. Manufacturers of High Class Rayon Fabrics.

National Industrial Works.—Palonji's Chawl, Sussex Road, Bombay 27.
National Rayon Mills.—Mogro, Off Nagardas Road, Andheri (East).
Nehru Silk Mills.—Mathuradas Mills Compound, Lower Parel, Bombay 13.
New Era Textile Mills, Private Ltd.—Tulsi Pipe Road, Matunga Road, Bombay 16.
New Hindustan Silk Mills.—Narayan Nagar, Agra Road, Ghatkopar, Bombay.
New India Rayon Mills Co., Private Ltd.—Mathuradas Mills Compound, Lower Parel, Bombay 13.
New India Textiles.—Block No. 12, Suryodaya Mills Compound, Tardeo, Bombay 7.
New Kaiser-I-Hind Spg. & Wvg. Co., Ltd.—J. K. Building, Dongri Road, Ballard Estate, Bombay 1.
New Mahalaxmi Silk Mills Private Ltd.—Mathuradas Mills Compound, Lower Parel, Bombay 13.
New Oriental Silk Mills Private Ltd.—2nd Floor, New Silk Market, Bombay 2.
New Parbhat Silk Mills.—C/o Messrs. Valiram Sons, New Silk Bazar, Kalbadevi Road, Bombay 2.
New Santosh Silk Mills.—Mahakali Chawl, 2nd Floor, Pydhonie Bombay 3.
New Shah Silk Mills Private Ltd.—88, Khed Gully, Gokhale Road (South), Dadar, Bombay 28.
New Sun Mills Co., Private Ltd.—Sun Mills Road, Lower Parel Bombay 13.
New Vinod Silk Mills Private Ltd.—12, Dadar Road, Dadar, Bombay 14.
Nitin Silk Mills.—67, Tambakanta 2nd Floor, Bombay 3.
Novelty Silk Mills.—Ghodbunder Road, Dahisar (W. Rly.), Bombay
Nutan Silk Mills.—379, Arthur Road, Bombay 11.
Orkay Industries Private Ltd.—(Subhash Silk Mills Dept.) 40, Central Bldg., Bomanji Master Road, Bombay 2.
Panaal Silk Mills Private Ltd.—Atlas Mills Compound, Reay Road Bombay 10.
Panalal Silk Mills Private Ltd. No. 2.—Bombay Cotton Mill Compound, Kalachowki Road, Parel, Bombay 12.
Paragon Textile Mills.—Opp. Century Mills, Off Globe Mills' Passage, Worli, Bombay 18.
Parekh Silk Mills.—Paranjape Scheme Plot B, Sonari Road, Vile Parle (East), Bombay 24.
Parsharam Karwa Mills.—Hafeen Ali, Bhiwandi (Dist. Thana).

Paru Silk Mills.—73-75, Sutar Chawl, Bombay 2.
Phoenix Mills Ltd.—C/o Ramnarain Sons Ltd., Imperial Bank Building, Bank Street, Fort, Bombay 1.
Pratap Silk Mills.—C/o Lallubhai Pittamber, New Silk Market, Bombay 2.
Raghuvanshi Mills Ltd.—11-12, Haines Road, Mahalaxmi, Bombay 13.
Rahath Silk Mills.—Worli, Bombay 13.
Raja Industries Private Ltd.—Parsee Panchayat Road, Andheri (East), (B.S.D.), Bombay.
Rajkamal Silk Mills.—34-42, Nesbit Road, Mazagaon, Bombay 10.
Rajaratna Silk Mills.—20, Navroji Seth Street, Thakurdwar, Bombay 2.
Ramkrishna Silk Mills.—520, Kalbadevi Road, Bombay 2.
Ramlal Silk Mills.—Plot No. 106, Sion Road, Near Koliwada Rly. station, Bombay 22.
Ramzan Naboo Wvg. Factory Bengalpura.—Bhiwandi (Dist. Thana).
Raval Textiles.—Nagardas Road, Andheri (East), Bombay.
Ravi Industries Ltd.—68, Chhipi Chawl, 1st Floor, Zaveri Bazar, Bombay 2.
Rayon Textile Mfg. Co. 771, Mogul Lane, Matunga, Bombay 16.
Rayon Wvg. Works.—Block 7-A, Suryodaya Mills' Compound, Tardeo, Bombay 7.
Reshan Textile Mills Private Ltd.—61, Government Gate Road, Lower Parel, Bombay 12.
Sadhana Textile Mills Private Ltd.—Behind "Noble Steel Products", Oil Globe Mills Passage, Worli, Bombay 18.
Samarth Eng. & Wvg. Co., Ltd.—Gandhi Mansion, New Silk Market, Bombay 2.
Samrat Silk Mills.—Agra Road, Vikhroli, P.O. Bhandup, Bombay.
Saraswati Silk Mills.—1-5, Mount Road, Mazagaon, Bombay 10.
Satraj Silk Mills.—Atlas Mills Compound, Reay Road, Bombay 10.
Suryodaya Silk Mills.—Agra Road, Old Kurla, Bombay.
Sassoon & Alliance Silk Mills, Co., Ltd. Podar Chambers, Parsee Bazar St., Fort, Bombay.
Sawlagar Textile Works.—Sawlagar Mohala, Bhiwandi (Dist. Thana).
Saurashtra Silk Mills.—C/o Kantilal Manilal Kandar, 36, Bhangwadi I Block, 1st Floor, Room No. 17, Kalbadevi, Bombay 2.
Sawder Sari Mills Bhiwandi.—(Dist. Thana).
Seksari Silk Mills.—C/o Seksaria Cotton Mills Ltd., Seksaria Chambers 139, Medows Street, Fort, Bombay 1.
Shakuntala Silk Mills Private Ltd.—Bombay Cotton Mills Estate, Kalachowki Road, Lalbaug, Bombay 12.
Shanghai Mills Private Ltd.—Great Social Bldg., 3rd Floor, Sir P M Road, Bombay 1.
Shanti Rayon Mills.—Tokershi Jivraj Road, Bombay 15.
Sharada Silk Mills Private Ltd. Dahanukar Bldg., 2nd Floor, New Silk Market, Bombay 2.
Shree Ambika Tape Mfg. Co.—2nd Floor, Hanuman Bldg., Tambakanta, Pydhoni, Bombay 3.
Shree Central Silk Mills.—Premji Bhimji, Sir Vithaldas Gally, M. J. Market, Bombay 2.
Shree Hanuman Silk Mills.—Near Powai Cross Road, Agra Road, Vikhroli, Bombay.
Shree Laxmi Silk Mills.—12, Dadar Road, Dadar, Bombay 14.
Shree Mohan Dyeing, Ptg. & Wvg. Mills.—Gandhi Mansion, New Silk Bazar, Bombay 2.
Shree Navyug Wvg. & Ptg. Mills.—C/o Popatlal, Mulchand & Co., Dharamraj Galli, M. J. Market, Bombay 2.
Shree Samrath Textile Industries.—Furgusson Road, Lower Parel, Bombay 13.
Shree Shakti Mills Ltd.—Podar Chambers, Parsee Bazar Street, Fort, Bombay 1.
Shree Shakti Mills Ltd. No. 2.—Podar Chambers, Parsee Bazar Street, Fort, Bombay 1.
Shree Shanti Silk Mills.—Lal Chimney Compound, 32F, Lamington Road (North), Bombay.
Shree Shanti Textile Mills Private Ltd.—Agra Road, Ghatkopar, Bombay 39.
Siddharth Silk Mills.—Sunder Baug, Agra Road, Near Kurmuri Road, Kurla, Bombay.
Simplex Silk Mills.—Agra Road, Kurla.
Standard Mills Co., Ltd.—29, Churchgate Street, Fort, Bombay 1.
Srinivasant Textile Mills.—Building No. 15, Bhuleshwar, Doka Galli, Bombay 2.
Swan Textiles.—Bhiwandi (Dist. Thana).
Tarun Silk Mills.—Yakub Road, Bhiwandi (Dist. Thana).
United Rayon Mills, Private Ltd.—Near Elphinstone Bridge, Parel Tank Road, Parel, Bombay.
V. R. Textile Industries.—New Chawl Street, Bhiwandi (Dist. Thana).
Venus Silk Mills.—Suryodaya Mills Compound, Tardeo, Bombay 7.
Vijay Silk Mills.—Atlas Mills Compound, Reay Road, Mazagaon.
Vikram Industries.—Bhau Saheb Desai's Wadi, Bhavani Shankar Road, Dadar, Bombay 28.
Vimal Silk Mills.—Kasturchand Mills Estate, Tulsi Pipe Road, Dadar.
Vipul Silk Mills.—Ganesh Godown No. 15, Tank Bunder Road, Bara Road, Bombay 10.
Vishnu Silk Mills Private Ltd.—49-55, Apollo Street, Fort, Bombay.
Zaveri Rayon & Silk Mills Ltd.—Darabshaw House, Ballard Road, Bombay 1.

SILK MERCHANTS

(See Textiles)

SILK MILL STORES SUPPLIERS

JAYANT MEHTA & CO.—19 21, Hamam Street, Fort, Bombay 1. Phone: 252063. Grams: "ROHIT". Branch at Bazarpeth, Bhiwandi, Dist. Thana. Silk Mill Stores Specialists.

SIZING MATERIALS

Adarsha Trading Corporation.—Ismail Building, 2nd Floor, Room No. 9-H, 381, Hornby Road, Fort, Bombay.
AMRUTLAL BHURABHAI & CO.—P.O. Box No. 2379, Anand Bhuwan, Princess Street, Bombay 2. Phone: 27773. Grams: "CHEMDRUGS." Direct Importers of all kinds of Chemicals, Drugs and Sizing materials.
Apex Traders.—Advani Chambers, Sir Phirozshah Mehta Road, Fort, Bombay.
Arvinda Trading Co. Private Ltd.—105, Apollo Street, Fort.
Associated Agencies (Bombay).—47, Podar Chambers, Parsi Bazar Street, Fort.
Bhogilal & Co.—7-10, Elphinstone Circle, Botawalla Building, Fort.
Brady, W. H., & Co., Ltd.—Royal Insurance Building, Churchgate Street, Fort.
Corn Products Co. (India), Ltd.—Shreenivas House, Waudby Road, Fort.
C. Patel & Co.—70, Podar Chambers, Fort.
Dandekar Company.—Bombay Mutual Annexe, 17, Gunbow Street, Fort, Bombay 1.
Daver, B. F., & Co.—Appa Baug Building, 41, Queen's Road.
Dhirren & Co.—Lakhani Building, 34, Cawasji Patel Street, Fort.
Express Trading Corporation.—Fateh Manzil, opp. Opera House, Bombay 4.
Gannon, Dunkerley & Co., Ltd.—Chartered Bank Building, Mahatma Gandhi Road, Fort.
General Industrial Chemicals.—Beaumon Chambers, 27,33, Medows Street, Fort.
General Textile Stores Ltd.—Beaumon Chambers, 27 33, Medows Street, Fort.
Hardcastle, Waud & Co. Private Ltd.—Alice Building, Hornby Road, Fort.
Herman & Mohatta, B. R., Ltd.—People's Building, Sir Phirozshah Mehta Road, Fort.
Imperial Chemical Industries (India), Ltd.—Imperial Chemical House, Dougall Road, Ballard Estate.
Indo-British Chemical Co.—Raja Bahadur Mansion, 11, Tamarind Lane, Fort.
Industrial Minerals and Chemical Co.—25, Narayan Dhuru Street, Bombay 3.
Industrial Trading Agency.—Tamarind House, Tamarind Lane, Fort, Bombay. Phone: 31782. (Healds, Reeds, Wire healds and Shuttles).
Javeri Traders.—Lakhmi Building, 34, Cawasji Patel Street, Fort, Bombay.
Kirtikumar & Co.—80, Bhandari Street, Mandvi, Bombay 3. Phone: 20583. Grams: "LALITKIRTI."
Kirtikumar Chandulal & Co.—313, Samuel Street, Vadgadi, Bombay.
Lalitkumar & Co.—86, Kazi Sayed Street, Bombay 3.
Latham Abercrombie & Co., Private Ltd.—Forbes Building, Home Street, Fort.
MAIZE STARCH PRODUCTS CORPORATION.—32, Apollo Street, Fort. Dealers in Sizing Materials and Industrial Chemicals. Phone: 252715. Grams: "MAIZSTARCH."
Mehta, J. H., & Co.—106-8, Bazargate Street, Fort.
Mehta, Sanghvi & Co.—303, Samuel Street, Vadgadi, Bombay 3.
Nanavati & Co., Ltd.—16, Apollo Street, Fort.
NATIONAL TRADING COMPANY, THE.—Manufacturers' Representatives & Distributors of Sizing & Furnishing Materials and Allied Auxiliaries. 263, Dr. Dadabhai Naoroji Road, P.O. Box 158, Bombay 1. Phone: 262149. Grams: "BHARAT". Branches: Ahmedabad, Calcutta, Coimbatore and Delhi.
Poonjiajee, Jehangir J. M.—Byramji Mansion, Sir Phirozshah Mehta Road, Fort.
Pravin Brothers & Co.—37, Bora Bazar Street, Bombay 1.
Premji Haridas & Co.—Bhanushali Chambers, Argyle Road, Bombay 9.
Rasiklal & Co., Ltd.—60-62, Princess Street, P. B. No. 2228, Bombay.

Sheth, S. C., & Co., Ltd.—Raja Bahadur Mansion, 14, Hamam Street, Fort.
Shree Krishna Trading Co., Ltd.—11, Alli Chambers, Tamarind Lane, Fort.
Sizing Materials Co., Ltd.—Jeroo Building, 137, Mahatma Gandhi Road, Fort.
Standard Pulverising Co.—Atlas Mills Compound, Reay Road, Bombay 10.
Waghji Lakhmidas & Co.—206, Samuel Street, Vadgadi.

SOAP FACTORIES

Allwyns Ltd.—92-94, Ardeshir Dady Street.
Auxitex.—177-179, Lamington Cross Roads and Calcutta National Bank Buildings, Sir Phirozshah Mehta Road, Fort.
Baghdad Soap Factory.—43, Foras Road.
BOMBAY SOAP FACTORY.—10, Ripon Road Cross Lane, P. B. No. 4508, Bombay 8. India's Premier Oil Millers, Soap Manufacturers & Perfumers. Phone: 77221. Showroom: 105, Abdul Rehman Street. Phone: 29989.
Chemical Engineering Corporation.—22, Apollo Street, Fort.
DIANA SOAP CO.—Behind Maratha Plague Hospital, Sussex Road, near Victoria Gardens, Bombay 27. Phone: 40709. Grams: "DISOCO." Manufacturers of Household, Laundry & Textile Soaps & Chemicals.
Empire Industrial Works.—Warden House, Sir Phirozshah Mehta Road, Fort.
GODREJ SOAPS PRIVATE LTD.—P.O. Jacob Circle, Bombay 11.

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Phone : 253080

Kosma Laboratories.—Allahabad Bank Building, Apollo Street, Fort.
Lachhmandas & Co.—21, Chinch Bunder, Bombay 9.
MANJREKAR CHEMICAL WORKS.—Haines Road, Worli, Bombay 18. Phone: 74884. Established in 1944. Manufacturers of Black Washing Soap popular amongst Dhobis, Hotels & Middle-class peoples. Economical for Washing Clothes, Utensils, Bathrooms, Kitchens & Lavatories, etc.
Mehta Soap Works.—118-D, Valpakhadi, Mazagaon Road, Bombay 9.
Mira Chemical Works.—Chinchpokli Cross Lane, Parel.

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SODIUM SILICATE
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Patanwala, Ltd.—182-84, Abdul Rehman Street.
Pearl Products Co., Ltd.—9, Kurla-Kirol Industrial Area, New Agra Road, Kurla.
Saraf Oil Mills Co., Ltd.—325, Kalbadevi Road, Bombay 2.
Swastik Oil Mills Ltd.— Saltpan Road, Wadala, Bombay 31.
Scientific Soap Works.—Hargovind Desai's Wadi, Bhuleshwar.
Simplex Chemical Co.—103-C, Chhaktewadi, Tardeo.
Tata Oil Mills Co., Ltd.—Bombay House, Bruce Street, Fort.

SOAP MACHINERY MFRS. AND IMPORTERS

Larsen & Toubro Ltd.—I. C. House, Dougall Road, Ballard Estate, Fort.
MUNSHI & CO., PRIVATE LTD.—181-83, Bapu Khote Street, Bombay 3. Phone: 73559. Grams: "SPECIALDIE."
Parekh Bros., Ltd.—65, Mahatma Gandhi Road, Fort.

SOLDERING & BRAZING EQUIPMENTS

VISHWA BHARATI TRADING CO.—14, Kumpta Street, Ballard Estate, Post Box No. 1052, Bombay 1. Phone: 264555. Grams: "VIBHACO." Manufacturers of all kinds of Metals, Welding, Brazing & Soldering requirements.

(SOLVENTS ORGANIC)

COMMERCIAL SOLVENTS CORPORATION.—Indian Globe Chambers, 4th Floor, Fort Street, Bombay 1. Phone 262418. Grams: "SOLVO."

SOUND RECORDING EQUIPMENT

Ama Private Ltd.—Hornby Road, Fort, Bombay.
Chicago Radio & Telephone Co. Ltd.—127, Mahatma Gandhi Road, Fort.
General Radio and Appliances Ltd.—16, New Queen's Road, Bombay 4.
National Education and Information Films Ltd.—National House, Tulloch Road, Apollo Bunder, Bombay. Grams: "Edufilm".
Patel (India) Ltd.—Kitab Mahal, Hornby Road, Fort, Bombay.
Western Agencies' Co.- 421, Lamington Road, Bombay 4

SPECIAL STEEL

GAYTEE & COMPANY.—Janmabhoomi Chambers, Fort Street, Fort, Bombay. Grams: "IMPENG." Phone: 26-3419

SPICES AND ASAFOETIDA

Asher & Company.—Vadgadi, Bombay 3.
Assars Syndicate.—83-85, Kazi Sayed Street, Bombay 9.
Bhanushali Brothers Ltd.—Bhanushali Chambers, 168, Argyle Road, Bombay 9.
Bombay Hing Supply Co.—Hansraj Karamsi Building, 66, Musjid Bunder Road.
Bombay Trading Co.—Dhun-Nur, Sir Phirozshah Mehta Road, Fort.
Champaklal Morarji & Co.—193, Samuel Street, Vadgadi, Bombay 3
Damji Mavji & Co.—177, Khoja Gulli, Mandvi, Bombay 9.
Dinshaw, V. N., & Co.—84, New Bardan Gali, Vadgadi, Bombay 3
Dubash Freres & Co.—Victoria Building, Parsi Bazar Street, Fort
EAST ASIATIC CO. (INDIA) PRIVATE LTD., THE.—Wavell House, Graham Road, Ballard Estate, Bombay. Phone 26-2711 (8 lines). Offices at Madras, Calcutta, New Delhi.
Ebrahim Manji & Co.—49, Pydhownie Road, Khadak, Bombay 9.
Gandhi Sons Ltd.—232, Samuel Street, Vadgadi, Bombay 3.
Gopaljee & Co.—218, Samuel Street, Vadgadi.
Gorakhram Gokalchand (Estd. 1891).—Choksi Chambers, Zaveri Bazar, Bombay 2.
Govindji Padamshi.—317, Narsi Natha Street, Kharek Bazar, Mandvi, Bombay 9.
Govindji Ratanji.—84, Mirchi Street, Vadgadi.
Gulabchand Nathalal & Co.—45, Mirchi Lane, Bombay 3.
Hashambhoy Aloo Mahomed & Son.—Dostmahomed Building, Nishanpada Road, Khadak, Bombay 9.
Hemani Bros.—Wasiamull Building, Grant Road.

Husein Mussa Virjee & Co.—Sheriff Hasam Building, Khoja Mohalla, Bombay 9.
Jehangir C. Masalawalla.—C. P. Tank Bus Stand, Vithalbhai Patel Road.
Jehangir J. M. Poonjiajee.—Byramjee Mansion, Sir Phirozshah Mehta Road, Fort.
Kanji Morarji.—285-87, Narsi Natha Street, Bombay 9.
Kikabhai Gulamhusen.—210, Samuel Street, Vadgadi, Mandvi.
Lakhmichand Vasanji & Co.—229, Samuel Street, Vadgadi.
Laljee Godhu & Co.—213, Samuel Street, Vadgadi.
MANEKJI NENSEY & CO.—Oils, Seeds, Grains, Spices and Textiles. Exporters and Importers, 172-186, Argyle Road, Bombay 9. Phone: 39318. Grams: "MANEKJIRAJ."
Merwanjee Poonjiajee & Sons.—Prince's Dock, Frere Road.
M. Dialdas & Sons.—190, Princess Street.
Narandas Kesurdas & Sons.—222-24, Vadgadi.
Narotamdas Harivalabhdas.—80, Khand Bazar, Mandvi.
New India Hing Supplying Co.—215-217, Samuel Street.
Pavri, J. K.—10, Karim Chambers, Hamam Street, Fort.
Premji Haridas & Co.—Bhanusali Building, 168, Argyle Road, Bombay 9.
Ram Agency.—200, Kazi Sayad Street, Bombay 9.
Ratanshi Assaria & Co.—240-42, Narsi Natha Street, Katha Bazar, Bombay 9.
Shah & Co.—108, New Citizen Bank House, Palton Road, Bombay 1.
Somnath Motiram.—806, Kharek Bazar, Bombay 9.
Sudan Trading Co.—Dhun-Nur, Sir Phirozshah Mehta Road, Fort.
VALABHDAS TEJPAL.—219, Vadgadi, Bombay 3. Phone: 23478. Grams: "BATTLEMENT."
Varijiwandas Hirjee & Co.—240, Samuel Street, Vadgadi.
Vasantlal Vadilal & Co.—215-17, Samuel Street, Vadgadi, Bombay 3.
Vijpl Kalidas & Son.—90-92, Khand Bazar, Mandvi, Bombay 3.
Vikaram Padamsey & Co.—Rustom Building, Veer Nariman Street, Fort.
Waghji Lakhmidas & Co.—206, Samuel Street, Vadgadi.
Y. K. Sampat & Co.—382-84, Katha Bazar, Bombay 9.

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ALFA SPORTS.—Metro House, Dhobi Talao, Bombay 1. Phone: 242549. Grams: "ALFASPORTS." Specialists in Sports and Games, Presentation Articles, Swimwear and Athletics.
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Ajit Sports Co.—Byculla Bridge, Bombay.
BOMBAY SPORTS.—Dhobi Talao, Bombay 2. Phone: 38645. Office at: New Delhi. Dealers in Sport and Educational Toys.
Bombay Sports Depot.—Jer Mahal Estate, Dhobi Talao.
D. D. SHARMA & CO.—Dhobi Talao Junction, Fort, Bombay 1. Grams: "INDOORGAME." Phone: 31623. Manufacturers, Importers and Exporters of High Class Sporting Goods. Bankers: Bank of Mysore Ltd., Sole Distributors for "Test" Cricket Balls, Sharma's "TOURNAMENT" Shuttlecocks and "SundeR" Ping Pong Bats and Tables. By appointment to General K. M. Cariappa, ex-C.-in-C. (India) Army. Sole Prop.: D. N. Mehta, Capt. T.A.
DIANA TRADERS PRIVATE LTD.—Dhobi Talao, Bombay 2. Phone: 39266. Grams: "DIANAPLAY." Sports Specialists.
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J. J. Morison Son & Jones (India) Ltd.—Ballard Estate, Bombay 1.
Jhaveri Bros. & Co. **(Estd. 1914.)—345, Abdul Rehman Street, near Crawford Market.**
Jhaveri Sports & Gifts.—Jer Mahal, Dhobi Talao, Bombay 2.
Kapur, A. N., & Co.—Court House, Dhobi Talao, Bombay 2.
Mahomedally Noorbhoy.—244-246, Abdul Rehman Street.
Marine Sports.—101, 1st Marine Street, Bombay 2.
Nulkarni & Co.—Ava Chambers, next to Metro Cinema, Dhobi Talao.
PIONEER SPORTS (INDIA) PRIVATE LTD.—Dhobi Talao, Bombay 2. Phone: 39287. Grams: "SPORTSMAN." Manufacturers, Exporters and Dealers in all Sports goods. Factories at Jullundur. Branches at New Delhi, Calcutta, Madras & Secunderabad.
SURI SPORTS INDUSTRIES.—Signal Hill Avenue Road, Reay Road Bridge, Bombay 10. Grams: "SURISPORTS." Manufacturers of Sports Goods under trade mark "SURCO" in Carrom Boards, Table Tennis Tables and Bats, Tennis and Badminton Presses and other indoor games requisites. Also importers and exporters.
United Importers Corporation.—Mistry Estate, 15/2, Palton Road, Bombay 1.
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Ashok Stainless Steel Corporation.—202A, Panjarapole Road, Bhuleshwar, Bombay 4. Phone: 72070. Manufacturers and Dealers in Stainless Steel Wares.
Bombay Steel Corporation.—241, Kumbharwada, opp. 2nd Sutar Lane, Bombay 4.
Devidayal Stainless Steel Industries Private Ltd.—Darukhana, Reay Road, Bombay 10. Phones: 70558-59, 73586. Grams: "DEVI-STEEL."
G. K. KANSARA.—118, Kansara Chawl, 1st Floor, Kalbadevi Road, Bombay 2. Phone: 22825. Manufacturers of Stainless Steel Utensils & Medical Apparatus.
Great Western Engineering Works.—Sea View, 1st Pasta Lane, Colaba, Bombay 5.
HATHIBHAI TULSIDAS & SONS.—122, Kalbadevi Road, Bombay 2. Phone: 63228. Grams: "SATYAKARMA." Manufacturers of 'Scale' brand Stainless Steelwares.
Hindustan Fabrics & Stores Ltd.—Foolchand Nivas, Chowpatty Sea Face, Bombay 7.
LALLUBHAI AMICHAND PRIVATE LTD.—Proprietors: Dun Aluminium Factory, 225-227, Tardeo Road, Bombay 7. Manufacturers of all Non-Ferrous Metal Wares and Articles. Phones: 41681 and 73220. Grams: "CYCLEBRAND."
Metal Industries.—163, Narayan Dhuru Street, Bombay 3.
METRO INDUSTRIAL AND MANUFACTURING CO.—253, Hari Har Nivas, Sandhurst Road, Bombay 4. Phone: 70603. Manufacturers of 'METRO' brand Stainless Steel Utensils.
Moosa Essa & Co.—Maniar Building, 6, Abdul Rehman Street, Bombay 3.
MULCHAND NAROTAMDAS.—Mulchand Nivas, Haines Road, Bombay 18. Phone: 76139. Grams: "KANSARA." Manufacturers of Stainless Steel Utensils & Specialists in Ferrous & non-Ferrous Metal pressing.
Oriental Metal Pressing Works.—131, Worli, Bombay 18.
PEARL STAINLESS STEEL AGENCIES.—Dandekar Bldg., 218-220, Charni Road, Bombay 4. Manufacturers of "Liberty" brand Stainless Steel Utensils.
PITAMBERDAS LALLUBHAI & CO.—86, Kansara Chawl, Kalbadevi Road, Bombay 2. Phones: 20916 (Office), 75381 (Resi). Grams: "KATORIWALA." Manufacturers of all non-Ferrous Metal Wares.
RATILAL NATHALAL & CO.—118, Kansara Chawl, Bombay 2, Phone: 30511. Manufacturers of "RAJKMAL" Brand Stainless Steel Utensils.
SHAH VRAJLAL & CO.—124-126, Kansara Chawl, Kalbadevi Road, Bombay 2. Grams: "VRAJCO." Manufacturers of 'Regal' brand Stainless Steelwares.
Sivramakrishnan, M.—Hazi Manzil, 82-86, Abdul Rehman Street, Bombay 3.

STAMP DEALERS

COOPER, JAL, F.R.G.S.—Standard Building, Hornby Road, Fort. Tel. 31971. Dealers in British Colonial Stamps, Philatelic Auctioneer and Valuer. Editor and Publisher, "India's Stamp Journal."
Federal Stamp Co.—42, Churchgate Street, Fort, Bombay 1.
Imperial Stamp Mart.—C/o Wahid Watch Co., Abubaker Mansion, Causeway.
Liberty Stamp Depot.—166, Dr. Naoroji Road, Bombay 1.
Oriental Collectors' Club.—42, Churchgate Street, Fort.

PHILATELIE ORIENT.—Post Box No. 943, Bombay 1. Stamps, Albums and Accessories (Import-Export).

STARCH

Javeri Traders.—P.O. Box No. 1977, Lakshmi Building, 34, Cawasji Patel Street, Fort, Bombay.
Lalitkumar & Co.—86, Kazi Sayed Street, Bombay 3.
Maize Starch Products Corporation. 20, Apollo Street, Bombay 1.
Narendra Starch Products Ltd.—Das Chambers, 25, Dalal Street, Bombay 1.
Pravin Brothers & Co.—37, Bora Bazar Street, Bombay 1.

STATE JEWELLERS

CHIMANLAL MANCHAND & CO.—Leading State Jewellers, under Special Appointment to Baroda, Jaipur, Jodhpur, Cooch-Behar, Palanpur, Jubbal and Indore States. Central Government's Certified Valuers. Show Room:—Opp. Opera House, New Queen's Road, Fort. Phone: 30321. Grams: "PLATINUM."

Jhaveri Bros. & Co. (Estd. 1914).—345, Abdul Rehman Street, near Crawford Market, Bombay.
Nanubhai Jewellers.—115, Mahatma Gandhi Road, Fort.
Narotamdas Bhau (Estd. 1864).—Lamington Road.

STATIONERY (MFRS. & DEALERS)

Akbarally Ebrahimji 38C, Cawasji Patel Street, Fort, Bombay 1.
Artytoys Sir Ratan Tata Road, Tardeo, Bombay 7.
Bharat (Sales) Limited.—People's Building, Sir Phirozshah Mehta Road, Fort.
B. N. MEHRA & CO.—Wholesalers & Mfgrs. 211, Abdul Rehman Street, Bombay 3. Phone: Office: 38892; Resi. 241798. Head Office: 5198, Sadar Bazar, Delhi 6. Phones: Office: 26889; Resi.: 44443.
Bombay Book Depot.—217, Charni Road, P. O. Girgaum, Bombay 4.
Bombay Importing Agency.—75, Sarang Street, Bombay 3.

MEERA

HIGH QUALITY PENCILS

Manufacturers:

BOMBAY PENCILS PRIVATE LTD.

38, Cawasji Patel Street, Fort,
BOMBAY 1

Phone: 25-2751 ● Grams: "POLESTAR"

Bombay Pencils Private Ltd.—Kamer Bldg., Cawasji Patel Street, Fort, Bombay 1. Phone: 25-2751. Grams: "POLESTAR".

BOMBAY STATIONERY MART

Proprietors:

GULAMHUSEIN AHMEDALLY & CO. PRIVATE LTD.

7A, Sir Phirozshah Mehta Road, Fort. Phones: 252573-253145

Tel. Address: PAPERWALA . . . . Estd. 1873.

Largest Stockists of:

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NO BRANCHES

Bombay Stationery Stores.—213-217, Abdul Rehman Street, Bombay 3.
Bombay Tape Distributors, 35, Vithaldas Road, Princess Street, Bombay 2.
BRIGHT BROS. PRIVATE LTD.—156-A, Tardeo Road, Bombay 7. Grams: "BRIBOS." Phones: 77494 & 77455. Plastic Stationery Articles like Desk Calendars, Memo Pads, Calendars, Novelties, etc.
Cama, Norton & Co.—23, Medows Street, Fort.
Camlin Limited.—210, Ram Baug, Lady Jamshetji Road, Bombay 28
Central Stationery Mart.—15, Bruce Street, Fort.
Chalasani & Co.—8, Noble Chambers, Parsi Bazar Street, Fort.
Champaklal & Co.—195-7, Abdul Rehman Street, Bombay 3.
CHHAGANLAL KESHAVJEE (Estd. 1913).—Stationers and Printers, 22A, Parsee Bazar Street, Fort. Phone: 253008. Grams: "STAPRI."
City Stationery Stores.—Gool Mansion, Store Lane, Parsi Bazar Street, Fort, Bombay.
CLARIDGE, G., & CO. LTD.—Caxton House, Frere Road, Fort, Bombay 1. Phone: 263201 and 263202. Grams: "BRAD."
COMMERCIAL STATIONERY & PRINTING MART, THE.—18-20, Cawasji Patel Street, Fort. Phone: 253175. Grams. "NOSHIR".
Deelip Stationery Mart.—209, Abdul Rehman Street, Bombay 3
DICKINSON, JOHN & CO., LTD.—Kumpta Street, Fort. Paper Makers, Manufacturing Stationers and Printing Material Merchants. Phone: 26-3386. Grams: "LION-BRAND."
D. Jagjivandas & Co.—177, Abdul Rehman Street, Bombay 3.
Empire Traders.—Stationers, Printers & Paper Suppliers, 18, Hassan Chambers, Parsi Bazar Street, Fort.
Enayatali & Co.—262-64, Abdul Rehman Street, Bombay 3.
EVERGREEN SYNDICATE.—19 21, Hamam Street, Fort, Bombay 1. Phone: 252641. Grams: "TAPEKING." Stationers & Printers. Importers & Stockists of all kinds of Office Stationery. Chief Stockists of Cellulose Self adhesive Tape & Brown Kraft Gummed tape.

EXCEL INDUSTRIES

MANUFACTURERS

"X-KEYS" PAPER PINS & CLIPS

421, Himalaya House,
Palton Road, Bombay 1.

Sole Distributors:

SIGMAN & CO.
302, Himalaya House,
Palton Road, Bombay 1.

EXPRESS STATIONERY SERVICE.—12-A, Gunbow Street, Fort, Bombay 1. Phone: 263987. Direct Importers, Stationers, Printers & Envelopes Manufacturers.
Gandalal & Co.—170, Abdul Rehman Street, Bombay 3.
GANDHI STATIONERY MART.—30, Dwarkadas Lane, 62, Bazargate Street, Bombay 1. Mfrs.: Comet Visiting, Invitation, Greeting, Wedding Cards, Inland Air Letters.
General Equipment Merchants, Ltd.—People's Building, Sir Phirozshah Mehta Road, Fort.
General Stationery Mart.—36, Dhanji Street, Bombay 3.
Godbole & Co., S. K.—74, Khetwadi 10th Lane, Bombay 4.
Gujarat Stationery Mart.—198, Abdul Rehman Street, Bombay 3.
Haiderison & Bros.—154, Bora Bazar Street, Fort.
Himalaya Stationery Mart.—Himalaya House, Paltan Road and Hornby Road Junction, Bombay 1.
HINDUSTAN PENCILS PRIVATE LTD.—302, Himalaya House, Palton Road, Bombay 1.
H. M. Shah & Co.—181, Abdul Rehman Street, Bombay 3.
Hornby Fountain Pen Depot.—204, Hornby Road, Fort.
IMPERIAL STATIONERY CO., THE.—Bill Chambers, 35, Medows Street, Fort. Stationers and Printers.
Indo-Stationery Mart.—Rahimtoola House, Homji Street, Fort.
International Stationery Stores.—Victoria Building, Parsee Bazar Street, Fort.
JAGJIVANDAS MANDLAL & CO.—237, Abdul Rehman Street, Bombay 3. Phone: 22873. Grams: "SWANHOUSE".

Jawahar & Company.—133, Princess Street, Bombay 2.
Jawahar & Co.—Court House, Carnac Road, Bombay 2.
Jivabhoy Latifjee.—Podar Chambers, Parsi Bazar Street.
Kale's Sales Association Limited.—Mherwan Building, Sir Phirozshah Mehta Road, Fort.
Kashyap & Sons, G. S.—40, Prospect Chambers Annexe, Hornby Road, Fort.
Kilburn & Co. Private Ltd.—Gresham Assurance House, Sir Phirozshah Mehta Road, Fort, Bombay.
Kulkarni Bros.—388-94, Sheikh Memon Street, Bombay.

KUMAR STATIONERY MART (Estd. 1942).—Podar Chambers, Store Lane, 109, Parsi Bazar Street, Fort. Importers, Stationers, Paper Merchants and Government and Railway Contractors. Manufacturers of "Stag Brand" gem clips and pins. Phone: 255303. Grams: "TRADEMOTO."

Lalwani Printing Press.—35, Mirza Street, Bombay 3.

LION PENCILS PRIVATE LTD.—Pencil Manufacturers. 95, Marine Drive, Bombay 2. Phone: 242715. Grams: "JOCELYN."

Longmans, Green & Co., Ltd.—Vulcan House, 53, Nicol Road, Ballard Estate.
Mahomedally Hebatbhoy & Co.—15, Mirza Street, Parsi Gully, Bombay.
Mazda Printers.—Next to Bharat Tiles Ltd., 32, Apollo Street, Fort.
Mazumdar & Co.—Opp. Krishna Cinema, Tribhuvan Road, Bombay 4.
Minerwa Stationery Mart.—32, Apollo Street, opp. Allahabad Bank, Fort.
Model Art Printery Private Ltd.—4, Nanabhai Lane, Fort, Bombay. Phone: 38550.
Model Stationery Mart. All Kinds of Stationery Goods and Paper Merchants. 44, Cawasji Patel Street, Fort, Bombay.

MODERN STATIONERY & PRINTING WORKS (ESTD. 1941). Sole Proprietor: Nazerhusein Kaderbhai, Bombay Mutual Annexe, 1st Floor, 17, Gunbow Street, Fort. Phone: 261986.

Mohamedali Abdulhusein.—83, Mirza Street, Bombay 3.

NATIONAL STATIONERY STORES.—Stationers, Printers and Government Contractors, Podar Chambers, 12 A, Store Lane, Fort, Bombay. Godown: 23, Parsee Bazar Street, Fort. Phone: 253416. Grams: "SERVYUTRUE."

Navalakhi & Co., J. V.—Kalbadevi Road, Bombay 2.
New Book Co. Ltd.—Kitab Mahal, 188-190, Hornby Road, Fort.
New India Stationery Mart.—9, Hummum Street, Fort.
New Popular Book Shop.—Nana's Chowk, Gowalia Tank Road, P.O. Grant Road, Bombay 7.

NOBLE STATIONERY MART.—Parsee Bazar Street, Fort, Bombay 1. Phone: 254748. Grams: "NOBLEPAPER." Importers of all kinds of Stationery and Paper. Manufacturers of Files, Envelopes and Account Books, etc. Distributors for Parker Inks.

OFFICE EQUIPMENT CO. OF INDIA.—Bombay Mutual Annexe, P.O. Box No. 712, 17, Gunbow Street, Fort, Bombay 1. Phone: 263424. Grams: "BROWNMAN". Manufacturers of Loose-leaf books, Filing system & Steel Equipment.

Paradise Agency.—75, Abdul Rehman Street, Bombay 3.
Phillips & Co.—Waterloo Mansion, Mayo Road, Fort.
Premier Stationery Mart.—106-108, Cowasji Patel Street, Fort.
Popular Book Depot.—Aabid House, Lamington Road.
Royal Stationery Stores.—Lentin Chambers, Dalal Street, Fort, Bombay 1.
Recent Stationery Stores.—Khodram House, New Parsi Bazar, Fort.
Reliable Stationery Mart.—Mherwan Building, Sir Phirozshah Mehta Road.
Reliance Agency, Ltd.—Raja Bahadur Motilal Compound, behind P.O., Apollo Street.
Renown Stationery Stores.—Byramjee Mansion, Sir Phirozshah Mehta Road, Fort.

ROWLANDSON BROS. (Estd. 1927).—Parsee Bazar Street, Fort, Bombay 1. Stationers, Printers, Paper Merchants, Dealers in Drawing Materials and Surveying Instruments. Account Book Manufacturers, Engravers, Relief Stampers. Rubber Stamp makers, State and Railway Contractors and General Order Suppliers. Phone: 251107. Grams: "TELLTRUE."

Sakhbhoy, E., & Co.—19, Mangaldas Road, Princess Street.
Sanghani & Co.—178-80, Abdul Rehman Street.
Shah A Sanghavi.—Kalam Kutir, 211-19, Frere Road, Fort, Bombay.
Sherman & Co.—Podar Chambers, 109, Parsi Bazar Street, Fort.

SIGMAN & CO.—Himalaya House, Palton Road, Bombay 1. Grams: "GOLDNIB." Phone: 26-2792. Sole Distributors for 'X Keys' Pins & Clips. Stockists of Winsor & Newton's Artists Brushes.

Social Stationery Mart.—Victoria Building, Parsee Bazar Street, Fort.
Soonabai Nowroji & Co.—Horniman Circle, Fort.
Standard Stationery Mart.—Rahimtoola House, Homji Street, Fort.

STANDARD TRADERS (INDIA).—124, Himalaya House, Palton Road, Bombay 1. Wholesale Stationers, Printing Material suppliers. Sole Agents for: SKREBBA SPHINX Standard Heavy Duty Stapling Machines & Staples Made in Germany, used by Binders, Printing Presses, Stationers, Publishers, Factories, Mills & Traders.

Stela Equipments.—327, Nawab Building, Hornby Road, Fort.

SUPERIOR STATIONERY MART PRIVATE LTD.—117, Medows Street, Fort, Bombay 1. Phone: 25-2396. Grams: "LOVELINES". Stationers, Printers and Paper Merchants.

SURESH STATIONERY MART.—285, Abdul Rehman Street, Post Box No. 3056, Bombay-3. Phone-23397. Manufacturers of "JOCKEY BRAND" Exercise-Books, Letter Books, Duplicate Books, Examination Papers, Etc.

Swastik Traders.—282, Pannalal Terraces, Lamington Road, Grant Road.
Taher T. Thingna.—73, Nagdevi Street, Bombay 3.
Taraporevala, D. B., Sons & Co.—210, Hornby Road, Fort.
Taraporevala, Phiroze & Kalkhushru, F. D. B.—Kitab Mahal, 188-190, Hornby Road, Fort.
Thacker & Co., Ltd.—Rampart Row, Fort.

"TIMES OF INDIA".—Hornby Road, Fort.

Trading Co., L. R.—Navsari Chambers, opp. Lloyds Bank, Fort.
Union Printing Works.—Jan Mansion, Sir Phirozshah Mehta Road, Fort.
United Commercial Co.—48, Mangaldas Building, 1, Princess Street.
Universal Stationery Mart.—Podar Chambers, Parsi Bazar Street, Fort.
Universal Stationery Mart.—Graham Building, 109, Parsi Bazar Street, Fort.
Universal Trading Corporation, The.—Usuf Building, Mahatma Gandhi Road, Fort.
Venus Stationery Co.—Hassan Chambers, Fort.
V. Prabha & Co.—470, Sandhurst Road, Bombay 4.
Young India Stationery Mart.—43, Ghoga Street, Fort

STEAM TRAPS AND VALVES

BOMBAY METAL & ALLOYS MFG. CO. PRIVATE LTD.—Manufacturers of "G. G." Brand Steam, Gate and Wheel Valves. Off Magazine Street, P.O. Box 6210. Bombay 10. Phone: 76104 5 6. Grams: "BOMALLOY."

Crescent Trading Co.—48, Bhajipala Lane, Bombay 3.

JIVRAJ & VRAJLAL.—122, Nagdevi Street, Bombay 3. Phone: 30138. Grams: "SANIPIPES."

KILBURN & CO. PRIVATE LTD.—Gresham Assurance House, Phirozshah Mehta Road, Fort, Bombay 1. Phone: 251908. Grams: "TASCONIUM."

MEHTA NANAVATI & CO.—96, Narayan Dhuru Street, Bombay 3. Phone: 39545. Grams: "REDJOINT."

STEAMSHIP COMPANIES

Ambica Steam Navigation Co. Ltd.—Prospect Chambers, Dr. Dadabhai Naoroji Road, Fort, Bombay 1.
Anchor Line Ltd.—Wakefield House, Sprott Road, Ballard Estate.
Bharat Line Ltd.—Bharat House, Apollo Street, Fort, Bombay 1.
Bombay Steam Navigation Co. (1953) Private Ltd.—100, Frere Road, Bombay.
Gill Amin & Co. Ltd.—People's Building, Sir Phirozshah Mehta Road, Fort, Bombay 1.
Great Eastern Shipping Co. Ltd.—Royal Insurance Buildings, 14, Jamshedji Tata Road, Churchgate Reclamation, Bombay 1.
Kamal Shipping Co. (Private) Ltd.—Scindia House, Ballard Estate, Bombay.
Killick, Nixon & Co. Private Ltd.—Killick House, Home Street, Fort.
Mackinnon Mackenzie & Co.—Ballard Road, Ballard Estate.
Malabar Steamship Co. Ltd.—Bombay Mutual Building, Dr. Dadabhai Naoroji Road, Fort, Bombay 1.
Merchant Steam Navigation Co. (Private) Ltd.—Gaumukh Bhuvan, Masjid Bridge, Bombay 9.
National Steamship Co. Ltd.—Bombay Mutual Building, Dr. Dadabhai Naoroji Road, Fort, Bombay 1.
New Dholera Steamships Ltd.—Bombay Mutual Building, Dr. Dadabhai Naoroji Road, Fort, Bombay 1.
Scindia Steam Navigation Co. Ltd.—Scindia House, Ballard Estate, Bombay 1.
South East Asia Shipping Co. (Private) Ltd.—Himalaya House, Dadabhai Naoroji Road, Fort, Bombay 1.

VICTORY NAVIGATION CO. LTD.—Pharmed House, 141, Fort Street, Post Box No. 875, Fort, Bombay 1. Phones: 264586, 264518. Grams: "VICTORLINE."

STEEL

Alsales Ltd.—9, Wallace Street, Bombay 1.

ASSOCIATED STEEL & TOOL CORPORATION., THE.—8, Central Bank Bldg., 4th Floor, Flora Fountain, Fort, Bombay 1. Phone No. 251953. Suppliers of High Speed Steel, Hot Die Steel, High Carbon and High Chrome steel, Oil Hardening and Non-Shrinking steel, Carbon Tool Steel, Nickel Chrome Steel, Stainless Steel Rods and Sheets, Bright Drawn Bars, Round, Square, Flat, Hexagon and Octagon.

F. Bock & Co., Ltd.—Shale Building, Bank Street, Bombay 1.
Guest, Keen Williams Ltd.—Ballard Estate, Bombay 1.
Richardson & Cruddas Ltd.—Byculla, Bombay 8.
STAHLUNION COMPANY LIMITED, THE.—India House, 4th Floor, Fort Street, Bombay 1. Telegraphic Address: "MARCASTEEL," Bombay. Steel Materials and Products of all kinds. Branch Offices: Calcutta and Delhi.
TIRATHRAM KASHMIRILAL.—89, Nagdevi Cross Lane, Bombay 3. Phone: 30041 (Ext. 16). Grams: "GIRDERS."
United Steel Co. (India) Private Ltd.—Himalaya House, Palton Road, Bombay 1.

STEEL CASTINGS MACHINE

GAYTEE & CO.—Janmabhoomi Chambers, Fort Street, Fort, Bombay. Grams: "IMPENG." Phone: 26-3449.

STEEL FILES

Desai Brothers.—80/90, Omrigar Bldg., Lohar Chawl, Bombay 2.
SHAH & BROTHERS.—234, Nagdevi Street, Bombay 3. Phone: 38797. Grams: "STEELGRIPS."

STEEL FURNITURE

E PEERBHOY & SONS.—Prop. Indian Durries Emporium. 64, Mohamedali Road. Shahru Castle, Bombay 3. Phone: 23806. Grams: "INDIAWEAVE."
Godrej & Boyce Mfg. Co. Private Ltd.—Lalbaug, Parel, Bombay.
Hindustan Fabrics & Stores Private Ltd.—Fulchand Nivas, Chowpatty Sea Face, Bombay 7.
KANTILAL & CO.—Jaliwala, 38-40, Abdul Rehman Street, Bombay 3. Phone: 23944. Grams: "GRILLGATE." Manufacturers of Collapsible Doors, Rolling Shutters, Compound Gates, Railings, Grills, Steel Cots & Hospital Furniture.
Khira Steel Works Private Ltd.—Ghodbunder Road, Santa Cruz, Bombay 23.
National Steel Equipment Co.—Naigaum Road, Dadar, Bombay 14.

STEEL TUBULAR POLES (MFRS.)

BOMBAY TUBES & POLES CO.—Manufacturers of Electric Tubular Poles (on Government & Municipal List). Darukhana, Mazagon, Bombay 10. Phone: 40300. Grams: "STEELKING."
INDIA ELECTRIC POLES MFG., CO.—26, Samuel Street, Hydri Manzil, Bombay 9. Phone: 73560. Grams: "MEEBOOB."

STEEL DOORS & WINDOWS

Balmer Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate, Bombay.
GODREJ & BOYCE MFG. CO. PRIVATE LTD.—Lalbaug, Parel, Bombay.
METALS PRIVATE LTD.—269, Dr. Dadabhai Naoroji Road, Bombay 1. Grams 'TRUMETAL."
Richardson & Cruddas Ltd.—Byculla Iron Works, Parel Road, Bombay 8.

STEVEDORES AND DUBASHES

Adamally Sons Ltd.—277, Nagdevi Street, Bombay 3.
ARDESHIR B. CURSETJEE & SONS (PRIVATE) LTD.—6, Rampart Row, Fort. Phones: 253103, 252543 & 254077. Grams: "GREYHOUND."
BOMANJI DHUNJIBHOY PRIVATE LTD.—B.I. Contractors since 1867. 17, Marzban Road, Fort, Bombay. Dubashes, Landing and Shipping Contractors for the Supply of all Classes of Labour, Skilled and unskilled, Estimates given for Painting Vessels, in both the Graving Docks, and for Executing work of every description pertaining to Vessels. Sole Dealers in Bombay For: The International Paint & Compositions Co. Ltd., London. Stockists of Ships Bottom Compositions and Various ready mixed Paints. Tel. Address: "SHIPWRIGHT." Phones: 261201 (Head Office); 40937 & 40927 (Mazagon Dock); 263767 (Crawford Market).
CASSINATH M. B. EDULJEE SONS.—17, Bastion Road, Fort. Phone: 261657.
Chokshi, H., & Co.—106, Medows Street, Fort.
Cawasji Behramji & Co.—City Ice Building, 298, Bazargate Street, Fort, Bombay.
Cowasjee Eduljee's Sons.—Elphinstone Circle, Fort.
Darashaw B. Cursetjee's Sons.—Darabshaw House, Ballard Road.
Eastern Bunkerers, Ltd.—Scindia House, Dougall Road, Ballard Estate.
Eastern Bunkerers (Burma) Ltd.—Scindia House, Dougall Road, Ballard Estate.
Ferns Ships Supply Company.—Post Box No. 1508, Wakefield House Ballard Estate, Bombay 1.
Hill, Son & Dinshaw Ltd.—Marshall's Bldg., Ballard Road, Bombay 1
Kanji Jadhavji & Co.—Masjid Bridge, Mandvi.
Maneckji & Jamshedji Company.—Ahmed Building, Gunpowder Road, Masagaon Tram Terminus, Bombay 10.
New Dholera Shipping & Trading Co. Ltd.—293, Dr. Dadabhoy Naoroji Road, Bombay 1.
NAROTTAM & PEREIRA PRIVATE LTD.—Scindia House Dougall Road, Ballard Estate. Phone: 26-2461. Grams. "JALATHARG."
Patel, D. C., & Co.—268, Bazar Gate Street, Fort.
Purshotamdas Madhavani & Co. Ltd.—Regd. Office: Botawalla Building, 8, Horniman Circle, P.O. Box No. 274, Bombay.
Ruttonjee Bomanjee & Co.—60, Forbes Street.
S. Dalal & Co.—1/5, Thacomal House, Banaji Street, Fort, Bombay.
Shalebhoy Tyebjee & Sons.—12, Bruce Street, Bombay 1.
Sharp, R., & Sons.—Kaiser-i-Hind Building, Ballard Estate.
Shiavax C. Cambata & Co. Private Ltd.—Cambata Building, 101, Queen's Road, Back Bay Reclamation.
Sorabji Pestonji & Co.—105, Apollo Street, Fort.
Tookaram Hariba & Sons, R. H.—Sadguru Sadan, 15, Babulnath Road, Bombay 7.

STRAW-BOARDS

Abdullabhai Fidally & Co.—24, Sutar Chawl, Bombay 2.
Advani, J. B., & Co. Ltd.—Advani Chambers, Sir Phirozshah Mehta Road, Fort.
Ambalal Dharamchand & Co.—1, Esaji Street, Vadgadi, Bombay 3.
Ashok Brothers Private Ltd.—Mubarak Manzil, 104, Apollo Street, Fort.
B. N. Trivedi & Co.—13, Hamam Street, Fort.
Bombay Paper Marketing Co.—Podar Chambers, Parsi Bazar Street, Fort.
Hardcastle, Waud & Co., Ltd.—Alice Building, Hornby Road, Fort
India Paper Corporation.—64, Sutar Chawl, Bombay 2.
International Paper Co.—26, People's Bldg., Sir Phirozshah Mehta Road, Fort.
Javeri Traders.—P.O. Box No. 1977, 34, Cawasji Patel Street, Fort.
Jayantilal J. Gandhi & Co.—45, Mint Road, near G. P. O., Fort.
Kanthawala, N., & Co.—77, Medows Street, Fort.
Kikabhoy Chandabhoy.—33-35, Mangaldas Road, Bombay 2.
Mansukhlal Sukhlal & Co.—Ghoga Street, Fort.
Mahomedally Hebatbhoy & Co.—15, Mirza Street, Bombay 3.
Pardiwala Paper Mart.—32/A, Parsi Bazar Street, Fort, Bombay
Patel, B. K., & Co.—106, Medows Street, Fort.
Prabhat Trading Company.—Vithal Sayana Building No. 2, Lohar Chawl, Bombay 2.
Shantilal Shah & Co.—Bombay Mutual Annexe, 17, Gunbow Street, Fort.
Sivramakrishnan, M.—Hazi Manzil, 82-86, Abdul Rehman Street Bombay 3.
United Import Co., The.—67-69, Mahomedalli Road.
Universal Trading Corporation, The.—43, Mahatma Gandhi Road Fort.
Yeshanand & Co.—Grahams Building, Parsi Bazar Street, Fort.

STRUCTURAL ENGINEERS & CONTRACTORS

ALCOCK, ASHDOWN & CO., LTD.—Marine, Mechanical Structural and Electrical Engineers. Defence Works Mazagaon, Bombay 10. Phones: 77211-13 (Works); 251321-27 (Office). Grams: "MORRISONS." Ramasar Works, Bhavnagar. Phone: 415. Grams: "ALCOCKS." Managing Agents: Turner, Morrison & Co. Private Ltd., 16, Bank Street, Fort, Bombay.
BHARAT TANK & STEEL CO., THE.—64, Podar Chambers Parsi Bazar Street, Fort, Bombay. Phone: 252095. Grams "BHATASCO." Steel and Stainless Steel Fabrication of Industrial Equipment for Chemical, Sugar, Cement, Oil Dyes and Dairy Industries and Structural Work.
BRIJLAL & HARGOVIND.—Iron & Brass Founders & Contractors. W. I. Split Pulley Manufacturers, 253, Duncan Road (Near BEST Power House), Bombay 8. Phone: 40668. Grams: "PULLEYS."
DIP ROLLING SHUTTERS & ENGINEERING WORKS.—39, Bombay Timber Market, Signal Hill Avenue Road (Near Reay Road Station), Bombay 10. Phone: C/o 41566. Grams "DIPROLL." Structural Engineers & Contractors. Manufacturers of Steel Structures, Rolling Shutters, Windows & Doors, Collapsible gates, M. S. Grills, and Fabricators of all types of Materials in mild Steel.
Gupta Manufacturing Works.—Works: Cotton Green, Bombay
HOLLOWAYS.—Structural Engineers & Contractors, 205, Dadar Road, Bombay 14. Phone: 63616. Manufacturers of Steel Tanks of all Types also Pressed Steel Tanks, Trusses, Chimneys, Industrial Equipment, Heavy Pressings forging & Machinery Jobs, etc., etc.

Industrial & Engineering Combing.—"Commonwealth" Flat B/1, Foreshore Road, Opp. Nariman Point, Bombay 1.

Metals Private Ltd.—269, Dr. Dadabhai Naoroji Road, Bombay 1.

NATIONAL ENGINEERING WORKS.—(Proprietors: All India Engineers Private Ltd.), Das Chambers, 25, Dalal Street, Fort, Bombay 1. Phone: 251641, Grams: "WESER-VEYOU." Factory: Khed Gully, Gokhale Road (South), Bombay 28. Phone: 62749. Structural Engineers and Builders. Specialists in the Fabrication of Structural Steel Work, Steel Windows and Doors, Rolling Shutters and Chimneys, etc.

Richardson & Cruddas Ltd.—Byculla, Bombay 8.

Steel Industries of Hindustan Ltd.—Magazine Street, Darukhana, Bombay 10.

SAURASHTRA ENGINEERING CORPORATION PRIVATE LTD.—Janmabhoomi Chambers, 29, Fort Street, Bombay 1. Phones: Office: 26-2866. Factory: 67242. Grams: "SINSANATY."

SHAKTI ENGINEERING WORKS, THE.—Manufacturers of Compound Gates, Rolling Shutters, Collapsible Gates, W.I. Grills and Water Tanks etc. 132, Reay Road, opp. Station, Bombay 10. Phone: 77069. Prof. Narsi Dharamsi.

STEEL STRUCTURES PRIVATE LTD.—Mistry House, 25, Parsee Bazar Street, Fort, Bombay 1. Phone: 253046. Grams: "ARCWELD." Fabricators of Mild Steel and Stainless Steel Tanks and Structural Works.

STRUCTURAL ENGINEERING WORKS LTD.—Managing Agents: Bhagat & Sons Private Ltd. Registered Office: Maneckji Wadia Building, 127, Mahatma Gandhi Road, Fort, Bombay 1. Grams: "BHAGATSON." Phones: 252367-68. Chairman: Mr. A. D. Shroff. Managing Director: Mr. N. B. Bhagat. Specialists in the Design and Fabrication of Water Pipes, Oil Pipes, Penstocks, Pressure Vessels, Transmission Towers, Industrial Buildings, Cranes, etc., etc. Complete Mechanised Automatic Welding.

Swastic Rolling Shutters & Engineering Works.—Parel Station Road, Bombay 12.

Western India Engineering Co., The.—Signal Hill Avenue, Sewri, Bombay 15.

STRUCTURAL WATERPROOFING

GLADSTONE LYALL & CO., LTD.—Bharat Nagar, 342, Grant Road, Bombay 7. Phone: 76039. Grams: "GLADSWYLL." Bombay Manager: S. V. Ryan. Head Office: 4, Fairlie Place, Calcutta.

STUDIO EQUIPMENT IMPORTERS

Patel India Ltd.—190, Hornby Road, Fort.

Telephone Equipments, Ltd.—9, Marine Lines, Bombay.

WESTREX COMPANY, INDIA.—Metro House, Mahatma Gandhi Road, P.O. Box 1232, Bombay 1. Phones: 242273 & 242274. Grams: "WESTREX."

SUGAR MERCHANTS

A. H. Bhiwandiwalla & Co. (Bombay) Private Limited.—93-95, Kazi Saiyed Street, Bombay 3.

Abdul Satar Mahmad.—Rehmat Bldg. 4th Floor, Kolivada, Bombay 3.

Abdul Shakur Umar.—Sahigara & Co.—Haji Habib Bldg., Kolivada, Bombay 3.

Amratlal Mohanlal & Co.—104-114, Frere Road, Bombay 9.

Anandkumar Satischandra, C/o. Jayantilal Jagjivandas & Co.—104-114, Frere Road, Bombay 9.

Anandkumar Khimji & Co.—311, Kharek Bazar, Bombay 9.

Asiatic Trading Co. Ltd. The.—81, Kazi Saiyed Street, Bombay 3.

Asiatic Electric Trading Co.—46-48, Lohar Chawl, Bombay 2.

Bhagwandas Lachmandas Menda.—104-114, Frere Road, Bombay 9.

Bharti Trading Co.—90-92, Kazi Syed Street, Bombay 3.

Bhogilal Kalidas & Co.—195, Samuel Street, Bombay 9.

Bharat Soft Sugar Co.—120, Kazi Saiyed Street, Bombay 3.

Bhikamal Prahladrai.—226, Kalbadevi Road, Bombay 2.

Bhikraj Devichand.—331, Kalbadevi Road, 3rd Floor, Bombay 2.

Bombay Sugar Trading Co.—104-114, Frere Road, Bombay 9.

Chhaganlal Tribhovandas & Co.—104-114, Frere Road, Bombay 9.

Chimanlal Vadilal.—44, Vithalbhai Patel Road, Bombay 4.

Chunilal Kanjibhai.—86, Dontad Street, Masjid Bunder Road, Bombay 3.

Chunilal Mohanlal.—Ram Bldg., 2nd Floor, Bhuleshwar, Kumbhar Wada, Bombay 4.

Chunilal Kantilal.—722, Cotton Exchange Bldg., Kalbadevi, Bombay 2.

Chunilal Rameshwardas.—Mani Mahal, 4th Floor, 353, Kalbadevi Road, Bombay 2.

Chunilal Punjalal.—29, 3rd Bholwada, Bhuleshwar, Bombay 2.

Chunibhai Ambalal & Co.—104-114, Frere Road, Bombay 9.

Chunilal Bhagwandas & Co.—26, Mudi Bazar, Mandvi, Bombay 3.

Deoji Gokaldas & Co.—Gaya Bldg., Masjid Bunder Road, Bombay 3.

Dhirajlal Amratlal.—104-114, Frere Road, Bombay 9.

Dhirajlal Manilal.—104-114, Frere Road, Bombay 9.

Dinesh Amratlal.—Anand Mahal, Babulnath Road, Bombay 7.

E. H. Kathawala & Co.—262-270, Bhat Bazar, Bombay 9.

Girijashanker Revashanker & Co.—104-114, Frere Road, Bombay 9.

Gokalchand Shetty.—54, Brahmanwada Road, Matunga (G.I.P.), Bombay 19.

Gopalshai Motiram.—326, Swadeshi Market, 1st Floor, Bombay 2.

Gordhandas Kirchand & Co.—194, Zaveri Bazar, Bombay 2.

Gordhandas Ranchhoddas.—Shakti Nivas, 287-289, Samuel Street, Bombay 9.

Gulabray Nathoobhai, C/o. Manordas Himatlal.—104-114, Frere Road, Bombay 9.

Haji Adamji Sons.—91, Mohamedalli Road, Rangoonwalla Bldg., 2nd Floor, Bombay 3.

Haji Esmail Nurmahomed Co.—Dada Manzil, 3rd Floor, 67-69, Mohamedalli Road, Bombay 3.

Haji Shakur Haji Jamal Nurmohamed.—Noor Palace, 1st Floor, 101, Mohamedalli Road, Bombay 3.

Haji Siddik Haji Karim Jiya.—104-114, Frere Road, Bombay 9.

Hansraj Hariram & Co.—Fazalbhoy Bldg., Opp. Flora Fountain, Mahatma Gandhi Road, Bombay 1.

Haridas Vishram & Co.—91, Kazi Saiyed Street, Bombay 3.

Harilal Manmohandas Parekh.—104-114, Frere Road, Bombay 9.

Hariram Velji & Co.—65-67, Damar Galli, Bombay 9.

Hemchand Mohanlal & Co.—Javeri. 20, Dhanji Street, Bombay 3.

Himatlal Dhirajlal & Co.—Laxmi Bldg., 1st Floor, 43, Nagdevi Cross Lane, Bombay 3.

Himatlal Parshotamdas Parekh.—104-114, Frere Road, Bombay 9.

Hindustan Sugar Mills, Ltd.—Jehangir Wadia Building, 51, Mahatma Gandhi Road, Fort.

Hirji Keshavji Kesarwala.—303, Kharek Bazar, Mandvi, Bombay 9.

Hollaram Bikhchand & Sons.—387-89, Narshi Natha Street, Katha Bazar, Bombay 9.

Hussenbhai Jeewanjee.—Currimjee Bldg., Kolivada, Bombay 3.

Indian Sugar Depot.—Shop No. 4, Majda Masjid, Khand Bazar, Bombay 3.

Jagdeoshanker Sharma.—Hamat Building, New Parbhadevi Road.

Jamnadas Juthabhai & Co.—217, Samuel Street, Bombay 3.

Jayantilal Jagjivandas & Co.—104-114, Frere Road, Bombay 9

Jayantilal & Co.—335, Samuel Street, Vadgadi, Bombay 3.

Jethabhai Bhanji & Co.—5, Gariadas Street, Vadgadi, Bombay 3

Jethabhai Gopalji & Co.—361, Duncan Road, Bombay 4

Jhamandas Thakurdas.—104-114, Frere Road, Bombay 9.

Jitendrakumar & Co.—232, Vadgadi, Bombay 3

Jivanlal Lallubhai.—805, Cotton Exchange Bldg., Kalbadevi Road, Bombay 2

Kalidas Harjivan.—195, Khoja Galli, Bombay 9

Kanji Velji.—74-76, Kazi Saiyed Street, Bombay 3.

Kantilal Dahyabhai.—104-114, Frere Road, Bombay 9.

Kantilal Chhaganlal Zaveri.—Gay Bldg., R. No. 52, 4th Floor, Masjid Bunder Road, Bombay 3.

Kantilal Maganlal Jhaveri.—192, Zaveri Bazar, Bombay 2.

Kantilal Vishnudas.—63-65, Cathedral Street, Bombay 2.

Kassim Haji Tayeb & Co. Ltd.—Karimji Bldg., Katha Bazar, Bombay 9

Keshavlal Parsram.—104-114, Frere Road, Bombay 9

Keshavji Dhanji & Co.—Bhailal Bhuvan, 1st Floor, 118, New Chinch Bunder Road, Bombay 9.

Kesar Sugar Works Ltd., The.—104-114, Frere Road, Bombay 9

Kikabhai Gulamhusen.—210, Samuel Street, Vadgadi.

Kilachand Devchand & Co., Ltd.—45-47, Apollo Street, Fort.

Kolhapur Sugar Mills Ltd., The.—The United Agencies Ltd. Agents Imperial Bank Bldg. Annexe, Apollo Street, Bombay 1.

Kumarpal Ratanpal, C/o. Ratanji Virpal & Co.—104-114, Frere Road, Bombay 9.

Laxmichand Dahyabhai & Co.—32, Kazi Saiyed Street, Bombay 3

Louis Dreyfus & Co.—Nicol Road, Ballard Estate.

Madhavji Harjibhai & Co.—Station Road, Kalyan.

Madhukar & Co.—311, Narsi Natha Street, Bombay 9

Maganlal Bhagwandas & Co.—104-114, Frere Road, Bombay 9.

Mahadev Rameshwarlal.—12-14, Parsi Galli, Dhanji Street, Bombay 3

Mahendrakumar Sevantilal & Co.—378-80, Narsi Natha Street, Katha Bazar, Bombay 9.

Mahipatrai Jadavji & Co.—79, Masjid Bunder Road, Bombay 3.

Manharlal Mohanlal Suratwala, Patel Bldg., 20, Dady Seth Agiari Lane, P.O. Box No. 2482, Bombay 2

Manordas Himatlal.—104-114, Frere Road, Bombay 9.

Manordas Parshotamdas Parekh.—104-114, Frere Road, Bombay 9.

Manoharlal Shersinghdas.—Jai Hind Estate No. 2, Bhuleshwar, Bombay 2.

Mansukhlal Hathising & Co.—31, Abdul Raheman Street, Bombay 3.

Motipur Sugar Factory Ltd., The.—164-166, Kambekar Street, Bombay 3.

Mohanlal Chhaganlal.—Suraj Bhuvan, 2nd Floor, 30, 2nd Bholwada, Bombay 2.

Mulji Ratanshi & Co.—334, Narsi Natha Street, Bombay 9.

Nagindas Harjivandas Shah, C/o. Harjivandas Dipchand, Dana Pith, Bhavnagar (Saurashtra).

Nanji Shamji & Co.—Ganpat Napu Bldg., 116, New Chinch Bunder Road, Bombay 9.
Nathalal Bahechardas & Co.—809, Cotton Exchange Bldg., 8th Floor, R. No. 809, Bombay 2.
National Confectionery Mfg. Co.—263, Samuel Street, Bombay 3.
Natvarlal Mohanlal & Co.—318, Kharek Bazar, Bombay 9.
Navnitrai Harivallabhdas, C/o Manordas Himatlal.—104-114, Frere Road, Bombay 9.
Navinchandra Nagardas & Co.—67, Essaji Street, Bombay 3.
Navinchandra Tulsidas, C/o Narottamdas Harivallabhdas.—80, Kazi Saiyed Street, Bombay 3.
Paira Singh Balkishen.—79, Kazi Saiyed Street, Bombay 3.
Parekh & Co.—York Building, Hornby Road, Fort.
Parikh Vrajlal Narandas.—80-84, Moti Bhuvan, Cathedral Street, Bhuleshwar, Bombay 2.
Parsram Parumal & Co.—Talreja, 104-114, Frere Road, Bombay 9.
Parsram Ramchand.—Nafees Chambers Annexe, Carnac Road, Bombay 1.
Patel Bros.—531, Cheera Bazar.
Pavri Sons & Co.—93-97, Bazar Gate Street, Fort.
Popatlal Dalpatlal & Co.—28, Mudi Bazar, Mandvi, Bombay 3.
Prabhodhan Bhujangilal & Co.—94, Kazi Saiyed Street, Bombay 3.
Punamchand Motilal.—104-114, Frere Road, Bombay 9.
Ranchhoddas Meghji.—288, Bhat Bazar, Bombay 9.
R. B. Jessaram Fatechand.—104-114, Frere Road, Bombay 9.
R. Shantilal.—15, Navi Wadi, 4th Floor, Dady Seth Agiari Lane, Bombay 2.
Rameschandra Prabhudas & Co.—104-114, Frere Road, Bombay 9.
Ramgopal Nandikishore.—Bhuleshwar, Jai Hind Bldg. No. 1, Bombay 2.
Ramniklal Vadilal & Co.—9, Chinch Bunder Road, 1st Floor, Bombay 9.
Rasiklal Himatlal.—104-114, Frere Road, Bombay 9
Ratanshi Assaria & Co.—99-103, Kazi Saiyed Street, Bombay 3.
Ratanji Virpal & Co.—104-114, Frere Road, Bombay 9.
Ratilal Bhavan & Co.—136, Kazi Saiyed Street, Bombay 3.
Ratilal Madanji.—104-114, Frere Road, Bombay 9.
Rugnath Tricumdas.—324, Kharek Bazar, Bombay 9.
Sankalchand G. Shah & Co. Ltd.—Hanuman Bldg., Tamba Kanta, Pydhonie, Bombay 2.
Sha. Harkisondas Jagjivandas.—Mukund Mansion, 105, Vithalbhai Patel Road, Bombay 4.
Shah Govindji Padamshi.—317, Kharek Bazar, Bombay 9.
Shah Kantilal Chunilal & Co.—327, Kharek Bazar, Bombay 9.
Shah Mohanlal Natvarlal Bardoliwalla.—77-79, Vithalwadi, Bombay 2.
Shah Nagindas Jechand.—118-122, Kazi Saiyed Street, Bombay 3.
Shah Pravinchandra Bhikhabhai.—Sai Bhuvan, 143, Princess Street, Bombay 2.
Shah Sevantilal Chunilal & Co.—104-114, Frere Road, Bombay 9.
Shah Sevantilal Chunilal & Co.—71-73, Essaji Street, Bombay 3.
Shankerlal Rasiklal.—Diamond Bldg., Lohar Chawl, Bombay 2.
Shantilal K. Shah & Co.—116, Narayan Dhuru Street, 1st Floor, Bombay 3.
Shantilal Maganlal Nadiadwala.—Laxmidas Chandaramji Bldg., 229-231, Kariana Bazar, Bombay 3.
Sheodialmal Surajbhan.—11-13, Malharrao Wadi, Kalbadevi Road, Bombay 2.
Shivdanmal Agarwal.—336, Kalbadevi Road, Bombay 2.
Shivlal Bhaichand Co.—45-51, Essaji Street, Bombay 3.
Sind National Sugar Mills Ltd.—B 2, Frere Road, Opp. Sugar Market Limited, Bombay 9.
Sobhachand Ramnarayan Khatod.—Gresham Building, Mahatma Gandhi Road, Fort.
Sobhagyachand & Co.—29, Bhat Bazar, Bombay 9.
Sugar Shippers & Buyers' Association.—General Assurance Co. Building, Hornby Road, Fort.
Surajmal Chandrabhan Dakle.—Anand Mahal, Babulnath Road, Bombay 7.
Swasti Produce Co. Ltd., The.—74-76, Kazi Saiyed Street, Bombay 3.
Swastik Confectionery Works, The.—108, Kazi Saiyed Street, Bombay 3.
Teckchand Lakhmichand.—179, Samuel Street, 2nd Floor, Bombay 9.
Tha. Jagjivandas Tulsidas Co.—Santokchand Bldg., 4th Floor, 318, Vadgadi, Bombay 3.
Tha. Jamnadas Haridas.—45, Mudi Bazar, Bombay 3.
Tha. Premji Pragji Dharamshi.—263, Samuel Street, Bombay 3.
Thakurdas Girdhardas.—382-384, Katha Bazar, Bombay 9.
Tricumdas & Co.—R. No. 406, East India Cotton Assn. Ltd., 4th Floor, Kalbadevi Road, Bombay 2.
Vachhraj Premchand, Bhulani & Co.—72, Marine Drive, Bombay 1.
Vashdev Dabral.—104-114, Frere Road, Bombay 9.
Vasantlal Vadilal & Co.—215-17, Samuel Street, Vadgadi.
Waghji Lakhmidas & Co.—82, Kazi Saiyed Street, Bombay 3.
Zaverilal Gordhandas.—104-114, Frere Road, Bombay 9.

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ABDEALLY, B. M., & CO.—127, Sarang Street, Bombay 3. Phone: 29090. Grams: "ALERTDEAL."
ADVANCE TUBE CO.—99, Nagdevi Street, Bombay 3. Phone: 30522. Grams: "ELBOWS."
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C. Patel & Co.—70, Podar Chambers, Fort.
Champion Trades Corporation.—9-13, Dalal Street, Fort.
ESSENTIAL ENGINEERING CO.—11, Botawala Bldg., Elphinstone Circle, Fort. Grams: "ESSENCE." Phone: 252601. Importers, Exporters, Commission Agents and Manufacturers' Representatives.
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Oriental Engineering Co.—25, Forbes Street, Fort, Bombay 1.
P. Ratilal & Co.—43, Dhanji Street, Bombay 3.
Pravin Brothers & Co.—37, Bora Bazar Street, Bombay 1.
Raj-Der-Kar & Co.—Commissariat Building, Hornby Road, Fort.
Ramesh Trading Corporation.—17, Nagdevi Street, Bombay 3.
SHALEBHOY TYEBJEE & SONS.—12, Bruce Street, Fort, Bombay 1. Phone: 252357. Grams: "ROTATOR."
Shah Engineering Stores.—88-92, Nagdevi Cross Lane, Bombay 3.
Vasi Shums & Co. Private Ltd.—165-67, Nagdevi Street, Bombay 3.

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Belapur Company Limited.—Brady House, 12-14, Veer Nariman Road, Fort, Bombay 1.
Belwandi Sugar Farm Ltd.—Industrial Assurance Building, Churchgate, Fort, Bombay 1.
Brady, W. H., & Co. Ltd.—Royal Assurance Building, Churchgate Street, Fort.
GODAVARI SUGAR MILLS LTD., THE.—Fazalbhoy Building, Mahatma Gandhi Road, Fort, Bombay. Phone: 255337-8.
Hindustan Sugar Mills Ltd.—51, Mahatma Gandhi Road, Fort.
KESAR SUGAR WORKS LTD.—45-47, Apollo Street, Fort.
Kolhapur Sugar Mills Ltd.—Fazalbhoy Building, Mahatma Gandhi Road, Bombay 1.
Kopargaon Sahakari Sakhar Karkhana Ltd.—Fazalbhoy Building, Mahatma Gandhi Road, Bombay 1.
Maharashtra Sugar Mills Ltd.—Industrial Assurance Building, Churchgate, Fort, Bombay 1.
PHALTAN SUGAR WORKS LTD., THE.—Sangli Bank Bldg., 4th Floor, 296, Bazargate Street, Bombay 1. Phone: 253339 Grams: "RISINGSUN."
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Alliance Medical Co.—Dwarkadas Building, 457, Sandhurst Road, Bombay 4.
Bombay Surgical Co.—New Charni Road, Bombay No. 4.
B. MOHANLAL & CO.—Office: 418, Kalbadevi Road, Show Room: 184, Princess Street, Bombay 2. Phone: 39965. Grams: "BICITICY".
B. PAREKH & CO.—Head Office: 383, Kalbadevi Road, Bombay. Phone: 34563. Branch: 8A, Peerbhoy Building, Princess Street, Bombay. Phone: 20608. Grams: "GUMMIWORKS." (On Government Approved List). Direct Importers and Wholesale Dealers in Surgical Rubber Goods, Instruments, Apparatus and Appliances. Sole Distributors in India for: Continental Gummi Werke, Hanover, and Nova Pressameters and Stethoscopes, Germany.
Chapman, K., & Co.—Opp. Marwadi Vidyalaya, 462, Sandhurst Road.
Dawawala Brothers.—102, Girgaum Road, Bombay.
Eyres, E., & Co.—Bellasis Road, Bombay 8.
FAIRDEAL SURGICAL CORPORATION.—106, New Citizen Bank House, Palton Road, Bombay 1. Grams: "FOLLOWER." Phone: 261340. (Surgical Instruments and Hospital Appliances).
Girdhar Javer & Co.—Devkaran Mansion, Princess Street.
Gordhandas Desai Private Ltd.—Kermani Building, Sir P. M. Road, Bombay 1.
Government Medical Stores.—Bellasis Road, Byculla.
I.C.I. (India) Private Ltd.—P.B. No. 310, Bombay 1.
IMPERIAL SURGICAL CO. PRIVATE LTD.—"India House," Opp. G.P.O., Fort, Bombay 1. Leading Manufacturers of Aseptic Hospital Furniture and Splints. Importers of Surgical Instruments, Hospital Sundries, Catguts and Ligatures, Dental Instruments, Electro-Medical Equipment, Microscopes, Glassware, Enamelware and Rubber Goods, and Laboratory Furnishers. Grams: "IMPSURGCO." Phone: 26-3468. Branches at: Hazratganj, Lucknow and Patna.

Jadavjee Goverdhandas & Co.—58-60, Princess Street, Bombay 2.
Jagjivandas & Co.—Princess Street, Bombay.
Jagtiani, J. T.—National House, 6, Tulloch Road, Apollo Bunder, Bombay 1.
J. L. Morison Son & Jones (India) Ltd.—Ballard Estate, Bombay 1.
Kapadia Brothers.—Kalau Building No. 3, Kandewadi, Bombay 4.
Mahomed Husain & Bros.—106, Kansara Chawl, Kalbadevi, Bombay 2.
Malgham Bros.—26, Old Custom House Road, Fort.
Martin & Harris Ltd.—Savoy Chambers, Wallace Street, Fort.
Modern Traders.—Dwarkadas Mansion (Entrance Benham Hall Lane), 457, Sandhurst Road, Bombay 4.

NATIONAL SURGICAL INSTRUMENT COMPANY.—Office & Works: 301, Haines Road, Worli, Bombay 18. Phone: 40540.

NATIONAL STEEL EQUIPMENT CO.—Naigaum Road (Near Spring Mills), Dadar, Bombay 14. Phone: 61755. Grams: "BEDLOCKER."

NEW SURGICAL TRADING CO., THE.—Bulakhidas Building, Mangaldas Road, Princess Street, P.O. Box 2321, Bombay 2 Dealers in Surgical Scientific and Laboratory Equipments, Hospital Steel Furniture and Sundries. Tel. No. 38138. Telegrams: "COWORKER."

Patravali, N. P., & Co.—Fort Chambers, Hamam Street, Fort.
Phillips & Co.—Waterloo Mansion, Mayo Road, Chemists and Opticians.

PRABHUDAS & CO.—27, New Hanuman Lane, Bombay 2.

Prem Motwani —70, Ebrahim Mansion, 366,68, Kalbadevi Road, Bombay 2.
Rami Industrial Corporation.—Kitab Mahal, 192, Hornby Road, Fort.
Reliance Electric & Hardware Stores.—55, Krishna Bhuvan, Lohar Chawl.
Rings Appliances Corporation Ltd —7 21A, Grants Building, Arthur Bunder Road, Colaba, Bombay 5.
Scientific Apparatus & Chemical Works Ltd.—Krishna Building, Bori Bunder.
Scientific & Industrial Supplies Corporation.—Princess Street, Bombay 2.
Scientific Instrument Co., Ltd., The.—Navsari Building, 240, Hornby Road.
Shah, M., & Co.—Kanji Mansion, Sandhurst Road, Bombay 4.
Thomson & Taylor.—119, Mahatma Gandhi Road.
Universal Supply and Trading Co.—Ismail Building, 381, Hornby Road, Fort.
Unique Trading Corporation.—51-53, New Hanuman Lane, Princess Street, Bombay 2.
Valab & Co., M.—Podar Chambers, Parsee Bazar Street, Fort.
Visso Trading Co.—462, Sandhurst Road.
Whitten, F. C., & Co.—Commissariat Building, 227, Hornby Road, Fort.

ZENITH SURGICAL CO.—206 3C Mangaldas Bldg., Mangaldas Road, Bombay 2. Grams: "INSTRUMENT". Dealers in Surgical, Scientific & Laboratory Equipment.

Zali & Co.—Princess Street, Bombay 2.

SURVEYING AND MEASURING INSTRUMENTS

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EVERGREEN CORPORATION.—Gopal Nivas, Lohar Chawl, P.O. Box No. 2733, Bombay 2. Phone: 20891. Grams: "IMPTUBE." Measuring Tapes, Chains, Refills, Precision Measuring Instruments, Theodolites, Planimeters, Stopwatches, Levels, Compasses & Rulers, etc.

Gordhandas Desai Private Ltd.—Kermani Bldg., Sir P. M. Road, Bombay 1.
Lawrence & Mayo (India) Ltd.—274, Hornby Road, Fort.
Norton & Gregory Ltd. (London).—Office of the Rep., India and Pakistan, "Commerce House," Currimbhoy Road, Ballard Estate, Bombay.
Pioneer Equipment Co. Private Ltd.—139, Medows Street, P.O. Box No. 1909, Fort, Bombay 1.

RAJ-DER-KAR & CO.—Commissariat Building, Dr. Dadabhai Naoroji Road, Fort, Bombay. For Research Industries. Phone: 268304. Grams: "TECHLAB."

Shah Engineering Stores.—88-92, Nagdevi Cross Lane, Bombay 3.

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KILBURN & CO. PRIVATE LTD.—Gresham Assurance House, Phirozshah Mehta Road, Fort, Bombay 1. Phone: 251908. Grams: "TASCONIUM."

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Beauforts Ltd.—35, Churchgate Street, Fort.
Bhatt, T. R., Co.—G. S. Mhaskar Ltd., Lady Jamshedji Road, Dadar, Bombay 14.
Cawnpore Mills Depot.—Churchgate House, Churchgate Street, Fort.
Charagh Din & Bros.—Hyder Building, 64, Wodehouse Road.
Charagh Din & Son.—Linden House, Apollo Bunder.
Dean & Sons.—Kulsum Terrace, opp. Cusrow Baug, Colaba.
Dias, A. R., & Bros.—105, Mahatma Gandhi Road, Fort.
Dias & Bros., J.—173, Princess Street.
Dias & Co., A. S.—Commissariat Building, Hornby Road Fort.
Esquire Limited.—141, Mahatma Gandhi Road, Bombay 1.
Excelsior Drapers, Ltd.—Neptune Building, 170, Hornby Road, Fort.
Gonsalves & Victor.—"Hampton Court", 125, Wodehouse Road, Bombay 5.
Ladhabhai Ravji & Bros.—41, Advani Chambers, Sir Phirozshah Mehta Road, Fort.
Laffans (India) Ltd.—Rustom Building, Churchgate Street, Fort.
Lal & Co.—Lansdowne Road, Apollo Bunder.
Narain & Company.—Opp. Churchgate Station.
New Lord & Co.—Royal Terrace, 58, Wodehouse Road, Colaba Bombay 5.
Oxford Tailors.—Majestic Hotel, Colaba Causeway, Fort.
S. V. Rao & Sons.—Parel, Bombay 12.
Tropical Tailors.—Waterloo Mansion, Wodehouse Road.

UPPALS & COMPANY.—Indian Merchants' Chamber Building, Churchgate Street Extension, Fort. Phone: 241378. Grams: "UPPALMAK."

Wassiamull Assomull & Co.—3-A, Churchgate, Fort.

TALLOW IMPORTERS, DEALERS AND MANUFACTURERS

Apex Traders.—Advani Chambers, Sir Phirozshah Mehta Road, Fort.

EAST ASIATIC CO. (INDIA) PRIVATE LTD. THE.—Wavell House, Graham Road, Ballard Estate, Bombay. Phone: 26-2711 (8 lines). Offices at Madras, Calcutta, New Delhi.

EDGAR HANDLEY & CO., PRIVATE LTD.—135, Medows Street, Fort, Bombay. Phones: 253548 and 252934. Grams: "TROJAN."

Firoz Trading Co., Private Ltd —Kamar Bldg., Cowasji Patel Street, Bombay 1

General Textile Stores, Ltd.—Beaumon Chambers, 27,33, Medows Street, Fort.

Pravin Brothers & Co.—37, Bora Bazar Street, Bombay 1.

Seth, S. C. & Co., Ltd.—Raja Bahadur Mansion, 14, Hamam Street, Fort.

TANK MANUFACTURERS

Balmer Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate, Fort.

BHARAT TANK & STEEL CO. THE.—64, Podar Chambers, Parsi Bazar Street, Fort, Bombay. Phone: 252095. Grams: "BHATASCO." Manufacturers of Steel & Stainless Steel Oil & Water Tanks, Chimneys, Pressure Vessels and Industrial Processing Equipment.

Garlick & Co.—Haines Road, Jacob Circle.
Great Western Engineering Works.—Sea View, 1st Pasta Lane, Colaba, Bombay 5.
Herman & Mohatta Ltd., B. R.—People's Building, Sir Phirozshah Mehta Road, Fort.
Industrial Machine & Tools Co.—347, Lamington Road, Bombay 7.
Reliance Trading Co.—25-47, Lohar Street, Bombay 2.
Richardson & Cruddas.—Byculla Ironworks, Byculla.
S. S. Engineering Co.—Dhan-Nur Bldg., Sir P M Road Bombay 1.
Steel Industries of Hindustan Ltd.—Magazine Street, Darukhana, Bombay 10.
Swastik Rolling Shutters & Engineering Works.—Parel Station Road, Bombay 12.

TANNERS AND TANNERIES

Belting & Leather Products Association (Division of Graton & Knight Co.).—8, Motlibai Street, Jacob Circle.
Elgin Leather Wares Ltd.—Nawab Building, 327, Hornby Road, opp. Thos. Cook.
Fakirmohamed Janmohamed.—Madina Building, Palton Road.
Lewis & Tylor, Ltd.—Sorab House, 237, Hornby Road.
Noorbhai Jivaji.—Tyebi Manzil, Bhendy Bazar, near Tram Junction.
Universal Tanneries Ltd.—Kala-Killa, Dharavi, Bombay 17.



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Khimji Velji & Co.—62, Dontad Street, Kadak, Bombay 9

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Shalebhoy Tyebjee & Sons.—12, Bruce Street, Bombay 1.

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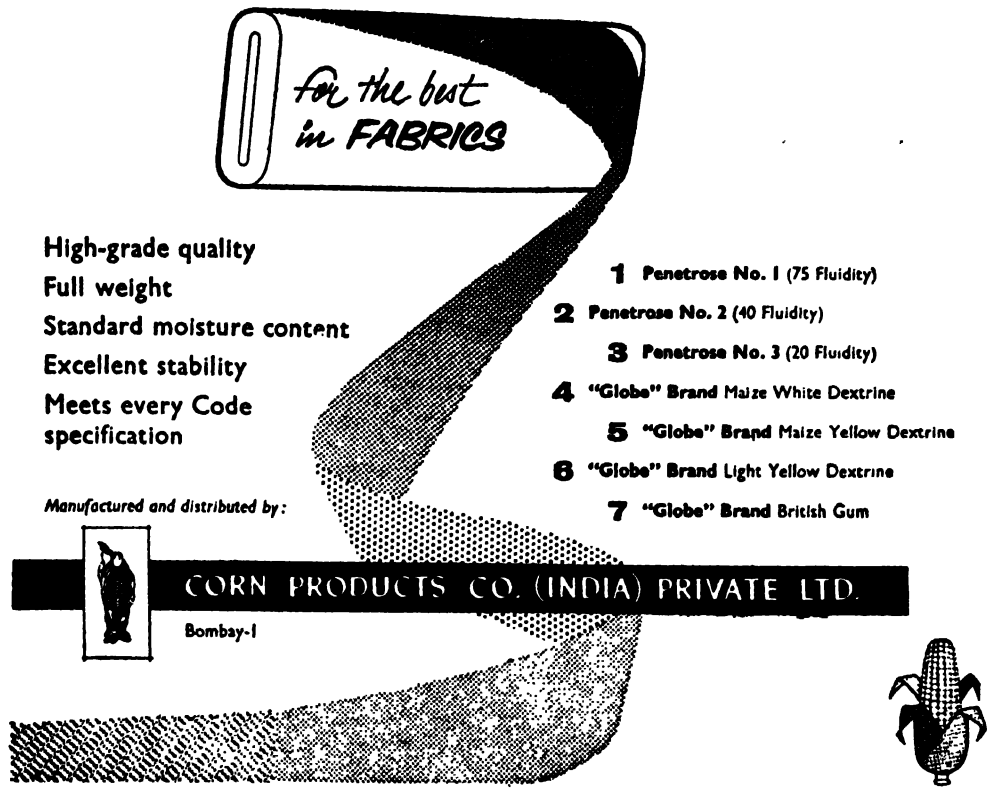
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Brooke Bond India, Ltd.—Gresham Assurance House, Sir Phirozsha Mehta Road, P.O. Box 271.

Chempaklal Morarji & Co.—193, Samuel Street, Vadgadi, Bombay 9

Desai Dalal & Co.—Duncan Road, Null Bazar.

Dwarkadas Sirandas & Co.—233, Jumma Musjid.



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Himatlal Jamnadas Dani.—Mandvi, New Bardan Gully, Bombay 3.
Hiralal Raichand & Co.—85, New Bardan Gully.
India Tea Corporation.—176, Dongri Street, Bhat Bazar, Bombay 9.
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Mehta & Co., F. D.—Standard Building, Hornby Road, Fort.
MODY & COMPANY.—313, Sandhurst Road, Bombay No. 4. Wholesale Tea Merchants and Exporters. Phone No. 70983. Grams: "SAUGAND."
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Titus George & Co.—45, Pasar Market, Kandivli, Bombay (S.D.).
Vasantlal Vadilal & Co.—215-17, Samuel Street, Vadgadi.

TELEPHONE ENGINEERS AND CONTRACTORS

British Radio & Electric Co.—Prospect Chambers, Hornby Road, Fort, Bombay.
Eastern Radio & Refrigeration Co.—6, Beaumon Chambers, Medows Street, Fort.
Hind Industrial & Mercantile Corp. Ltd.—27, New Queen's Road, Bombay 4.
India Traders.—101-B, Girgaum Terrace, Bombay 4.
Super Services (India).—Parekh Building, 18, New Queen's Road, Bombay.
Western Agencies Co.—421, Lamington Road, Bombay 4.

TEXTILE AUXILIARIES MANUFACTURERS AND DEALERS

Ahura Chemical Products Ltd.—84, Sion Road, Bombay 22.
Amritlal & Co., Private Ltd.—Sprott Road, Ballard Estate, Fort.
Anvar Textile Mills Ltd.—Bundeally Building, Sandhurst Road East, Dongri, Bombay 9.
ASAVE MEHTA & CO.—24-B, Raja Bahadur Compound, Hamam Street, Fort, Bombay. Phone: 253473. Grams: "ASAMEC." Mill Machineries and Accessories Suppliers. Specialists in Winding Machines and Spares.
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Bakubhai Ambalal Private Ltd.—Wittet Road, Bombay 1.
Bhogilal & Company, R.—261/263, Hornby Road, Fort.
Bhukhanwala & Sons.—Medows House, Medows Street, Fort.
Brady, W. H., & Co., Ltd.—Royal Insurance Building, Churchgate Street, Fort.
CHEMIDYE TRADING CO., LTD.—Kamer Building, Cawasji Patel Street, Fort, Bombay 1. Phone: 251034.
CIBA DYES PRIVATE LTD.—Royal Insurance Bldg., Jamshedji Tata Road, Churchgate Reclamation, Bombay 1. Phones: 37184-87. Post Box 479.
C. Patel & Co.—70, Podar Chambers, Fort.
Dhirren & Co.—Lakhani Building, 34, Cawasji Patel Street, Fort, Bombay. Gums, Starches, Oils, Chemicals and Manufacturers of Textile Auxiliaries. Phone: 62620. Grams: "AUXILIARY"
Durga Laboratories.—71, Bhandari Street, Vadgadi, Bombay 3.
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Fires Trading Co. Ltd.—Kamar Building, Cawasji Patel Street, Fort.
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Greentose Corporation (India).—24-26, Dalal Street, Fort, Bombay.
Harchandani & Sons.—229, Musjid Bunder Road, Bombay 3.
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Lalitkumar & Co.—86, Kazisayed Street, Bombay 3.
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NATIONAL TRADING COMPANY, THE.—Manufacturers' Representatives & Distributors of Sizing & Finishing Materials and Allied Auxiliaries. 263, Dr. Dadabhai Naoroji Road, P.O. Box 158, Bombay 1. Phone: 262149. Grams: "BHARAT." Branches: Ahmedabad, Calcutta, Coimbatore and Delhi.
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Textile Machinery Corporation, Ltd.—Annie Besant Road, Bombay 18.
Wallace, J. P., & Co.—Shale Building, 28-32, Bank Street, Fort.

TEXTILE ENGINEERS AND MACHINERY IMPORTERS

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Anglo-American Dyestuff Corporation Ltd.—Prospect Chambers, Hornby Road, Fort.
Apollo Engineering Company.—84, Apollo Street, Fort.
Arvinda Trading Co. Private Ltd.—105, Apollo Street, Fort.
Aspdens Ltd.—Prince's Chambers, Colaba Road, Colaba.
Associated Machine & Tool Co.—130, Medows Street, Fort.
Autogenous Welding & Repair Co. Private Ltd.—63, Ferguson Road, Bombay 13.
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Bracewell Private Ltd.—50, 56, Custom House Road, Fort, Bombay.
Brady, W. H., & Co., Ltd.—Royal Insurance Building, Churchgate Street, Fort.
Collinson & Co., Ltd.—Standard Building, Hornby Road, Fort.
Diarvi Trading Co.—64, Old Custom House Road, Fort, Bombay.
DUESBERG-BOSSON FILS PRIVATE LTD.—Eruchshaw Building, Dr. Dadabhai Naoroji Road, Fort, Bombay. Phone: 263010. Grams: "DUBOSS."
Duncan Stratton & Co., Ltd.—5, Bank Street, Bombay 1.
EDGAR HANDLEY & CO., PRIVATE LTD.—135, Medows Street, Fort, Bombay. Phones: 253548 & 252934. Grams: "TROJAN."
Engineering & Agencies Ltd.—Karim Chambers, Hamam Street, Fort.
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Gannon, Dunkerley & Co., Ltd.—Chartered Bank Building, Mahatma Gandhi Road, Fort.
Greentose Corporation (India).—24, Dalal Street, Fort, Bombay.
Gujarat Trading Syndicate.—41, Medows Street, Fort, Bombay 1. Grams: "GUTRASY."
Hardacre & Co., J.—41, Hamam Street, Fort.
HARKISHANLALL SOMNATH & CO.—5, Dhobi Street, Masjid Bunder Road, Bombay 3. Grams: "CHUCKS."
Hindustan Export & Import Corporation Ltd.—Albert Building, Hornby Road, Fort.
INDIA RAW PRODUCTS SUPPLY CO.—65, Alli Chambers, Tamarind Lane, Fort, Bombay 1. Textile Machinery & Equipment. Phone: 254645. Grams: "KATANKUM."
Indian Commercial Agency.—Regd. Office: Rahimtoola House, 7, Homji Street, Fort.
Industrial Equipment Mfg. Co.—Kasturchand Mills Estate, Bhavani Shankar Road, Dadar, Bombay 28.
Industrial Trading Agency.—Tamarind House, Tamarind Lane, Fort, Bombay. (Healds, Reeds, Wire healds and Shuttles.)
Industrial Engineering Co.—45-47, Apollo Street, Fort.
KOTAK & CO.—Navsari Building, Dr. Dadabhoy Naoroji Road, Fort, Bombay. Grams: "KOTAKANDEO." Phone Nos. 263331-263332-263333.
Laxminarayan Mill Supply Co.—Noble Chambers, 116, Parsi Bazar Street, Fort.
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Mangaldas Jesingbhai & Co.—49, Tamarind Lane, Fort.
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Mehta Parikh & Co.—45-47, Apollo Street, Fort.
Narotamdas Chunilal & Co.—51, Tamarind Lane, Fort, Bombay.
Ormerods (India) Ltd.—Bank of Baroda Building, Apollo Street, Fort, P. O. Box No. 410, Bombay.
Paramount Textile Agency.—45-47, Apollo Street, Fort, Bombay.
Paramount Traders.—Noble Chambers, 1st Floor, Parsee Bazar Street, Fort, Bombay.
Parekh Bros.—Sangli Bank Building, 296, Bazargate Street, Fort, Bombay.
P. & Hart Brothers.—65, Podar Chambers, Parsi Bazar Street, Fort.
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SHAMA ENGINEERING PRIVATE LIMITED.—Textile Engineers, Suppliers of Textiles Machineries & Auxiliaries of German, Danish and Indian Make. (Sub-Agents in every Important Textile Centres). Fort House, Dr. Dadabhoy Naoroji Road, Fort, Bombay 1. Phone: 263751. Grams: "SHAMATEX."
Shree Vijay Trading Corporation.—71/73, Apollo Street, Fort.
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Swastik Oil Mills Ltd.—Saltpan Road, Wadala, Bombay 31.
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Wallace, J. P., & Co.—Shale Building, 28-32, Bank Street, Fort.

Y. M. Pathare and Company.—Post Box 1428, 41, Medows Street, Bombay 1. Phone: 24415.

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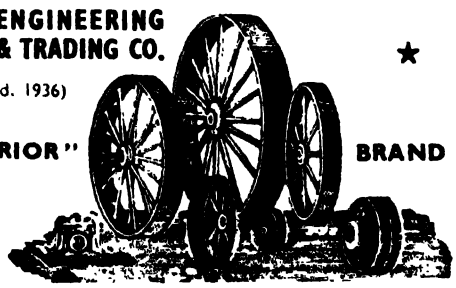
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Arvinda Trading Co. Private Ltd 105, Apollo Street, Fort.

Askay & Co., Ltd.—Great Social Building, Sir Phirozshah Mehta Road, Fort, Bombay.

Aspdens Ltd.—Prince's Chambers, Colaba Road, Colaba, Bombay 5.

Babubhai Choonilal & Bros.—Next to Swadeshi Market, Kalbadevi Road.

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Batlibol, C. J., & Co.—319, Hornby Road, Fort.

Beardsell & Co., Ltd., W. A.—15-16, Sir Phirozshah Mehta Road, Fort.

Bettmann & Kupfer Private Ltd.—Forbes Building, Home Street, Fort, Bombay.

Bhagwandas Chatrabhuj & Co.—20, Hanam Street, Fort.

Bhathena & Co., Pirojshah Burjorji.—4-5, Edrus Building, New Charni Road.

Bheroomall Ghanoomall.—Dahanukar Building, Kalbadevi Road, Bombay 2.

Bombay Co., Ltd.—9, Wallace Street, Fort.

Bombay Swadeshi Co-operative Stores Co., Ltd.—Western India House, Sir Phirozshah Mehta Road.

Bulchand Co. L.—Moos Building, 510, Kalbadevi Road, Bombay 2.

Cawnpore Mills Depot.—Churchgate House, Churchgate Street, Fort.

Chotirmall & Co., K. A. J.—Krishna Nivas, New Silk Bazar, Bombay 2.

Chinoobhai & Bros., Ltd.—Churchgate House, Churchgate Street, Fort.

Chunilal Mulchand & Co.—Waterloo Mansions, Mayo Road, Fort.

Commercial Traders.—23-25, Old Hanuman Lane, Bombay 2.

David Sassoon, J., & Co., Ltd.—143, Mahatma Gandhi Road.

D. Patel & Co. (Estd. 1916).—Gaumukh Gully, Mulji Jetha Market, Bombay No. 2.

Dubash Freres & Co.—Victoria Building, Parsi Bazar Street, Fort.

Dulabhdas Manilal & Co.—New Silk Bazar, Kalbadevi.

Durlabhji & Co., B.—Shri Krishna Nivas, Kalbadevi Road.

Ebrahim Manji & Co.—49, Pydhownie Road, Khadak, Bombay 9.

Essardas & Sons.—74, Carnac Road, Bombay 2.

Evans Fraser & Co. (India) Ltd.—Fort House, Hornby Road, Fort.

FINLAY, JAMES, & CO., LTD.—Chartered Bank Building, Mahatma Gandhi Road, Fort, Bombay 1.

FORBES FORBES CAMPBELL & CO. PRIVATE LTD.—Forbes Building, Home Street, Fort, Bombay.

Framji Ardaseer Davur & Sons.—Navsari Chambers, Outram Road, Fort.

Gaganmal Ramchand.—P. O. Box No. 2133, New Silk Bazar, Bombay 2.

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Godame Bros.—Buona Casa, Sir Phirozshah Mehta Road, Fort.

Gorakhram Gokalchand (Estd. 1891).—Chokai Chambers, Zaveri Bazar, Bombay 2.

Gore & Co.—Great Social Building, Sir Phirozshah Mehta Road, Fort.
Grand Bazar.—25, Colaba Causeway, Bombay 1.
Haji Esmail Haji Oomer & Co.—50-56, Chakla Street (Jackeria Musjid), Bombay.
Haji Janmohamed Moosa.—27-29, Zakaria Bazar, Sheriff Devji Street.
Harchandani Sons.—229, Musjid Bunder Road, Bombay 3.
Hasanali Saleh Mahomed & Co.—Bundeally Building, Sandhurst Road East, Dongri, Bombay 9.
Hassamal Bros.—538, Kalbadevi Road, P. O. Box No. 2236, Bombay 2.
Hassaram & Co., K.—New Silk Bazar, Kalbadevi Road, Bombay 2.
Hazrat & Co.—Warden House, Sir Phirozshah Mehta Road, Fort.
Hindustan Fabrics & Stores Ltd.—Foolchand Nivas, Chowpatty Sea Face, Bombay 7.
Holland-Bombay Trading Co., Ltd.—E. D. Sassoon Building, Dougall Road, Ballard Estate.
Hoosein, M. A., & Bros.—Lakshmi Building, Sir Phirozshah Mehta Road, Fort.
Hotchand Motumal.—331, Hornby Road, Fort, Bombay.
Hukamchand Chanderbhan.—1st Floor, Hira Building, opp. Crawford Market, Carnac Road.
Husein Ebrahim.—75. Mahomedally Road, Bombay 3.
H. V. M. Moosa Motiwalla & Sons, Ltd.—91, Mahomedalli Road, Bombay 3.
India Corporation Ltd.—Indian Globe Chambers, Fort Street, Fort, Bombay.
Indian Art Museum.—Carnac Bridge, Bombay 3.
Italindia Cotton Co. Ltd.—Indian Globe Chambers, Fort Street, Bombay.
Jamnadas, B.—Mulji Jetha Market, Gaumukh Gully, Bombay 3.
Jamnadas Nanjee Mangrolwalla.—83-85, Bazar Gate Street, Fort, Bombay.
Jassawalla, R. M., & Co.—105, Apollo Street, Fort.
J. A. Thadani & Co.—People's Building, Sir Phirozshah Mehta Road, Fort.
Jeramdas Naumal.—371, Hornby Road, Fort, Bombay.
Jewan Bukhsh Mohammed Jan.—99, Chakla Street, Bombay 3.
Jivandas Bhansji & Co. (Estd. 1925).—Dwarkesh Gully, Mulji Jetha Market, Bombay 2.
Kala Niketan.—Pravin Court, Queen's Road, Bombay.
Kanshi Ram Kidar Nath.—Vulcan Insurance Bldg., Veer Nariman Road, Bombay 1.
Kantilal Sanghv & Co.—Mherwan Building, Sir Phirozshah Mehta Road, Fort. Phones: 28185 & 34261. Grams: "EXPIM."
Kapadia Trading Co.—Botawalla Building, New Silk Bazar, Kalbadevi Road, Bombay 2.
Kapur & Sons, Ltd.—Chandra Chowk, 8th Lane, Muljee Jetha Market.
Karanjia & Co., Ltd.—Sukhadwala Buildings, 172, Hornby Road, Fort.
Karanjia Bros., Ltd.—17-19, Bomanji Master Road.
Kashmir Govt. Arts Emporium.—Sir P. M. Road, Bombay 1.
Kavarana, E. F., & Co.—Botawala Building, Bomanji Master Road, Bombay 2.
Kavarana Muncherji Heerjibhoy.—New Silk Bazar, opp. Kalbadevi P.O., Kalbadevi.
Kavarana, R. S., & Co.—635, Mistry Building, Girgaum Road, Dhobi Talao.
Kedarnath Singhee & Co.—233-34, Sheikh Memon Street, Bombay 2.
Keshavlal Talakchand (Private) Ltd.—Post Box No. 1472, India House, opp. G.P.O., Bombay. Phone No. 261982. Grams: "CHANDRODAY".
Kewalram & Bulchand.—Shree Krishna Nivas, Kalbadevi Road, Bombay 2.
Kidarnath Kishanchand.—106, Medows Street, Fort, Bombay.
Kilachand Devchand & Co., Ltd.—45-47, Apollo Street, Fort.
Kimatrai, J., & Co.—Mistry Building, Bomanji Master Road.
Kirtikumar & Co.—80, Bhandari Street, Mandvi, Bombay 3.
Kishinchand Chellaram.—Gusdar House, Dhobi Talao.
Kishinchand & Co. (India).—138, Hornby Road, Fort.
K. Metharam.—491-3, Kalbadevi Road.
KOTAK & CO.—Navsari Building, Dr. Dadabhoy Naoroji Road, Fort, Bombay. Grams: "KOTAKANDCO." Phone Nos. 263331-263332-263333.
Kros & Co.—Podar Chambers, Parsi Bazar Street, Fort.
Kumudchandra & Co.—Examiner Press Building, Dalal Street, Fort.
Kundanmal Ramlal.—78/80, New Hanuman Lane, Bombay 2.
Ladhabhai Ravji & Bros.—41, Advani Chambers, Sir Phirozshah Mehta Road, Fort.
L. N. Mehta & Sons.—Laxmi Building, Sir Phirozshah Mehta Road, Fort.
Madhavdas Raghunathdas & Co.—172, Hornby Road.
Madhusudan Gordhandas & Co.—Ganeswadi, Mulji Jetha Market, P.O. Box No. 2110, Bombay 2.
Mahendrakumar & Co.—Central Bank Building, Mahatma Gandhi Road, Fort.
MAHENDRALAL, B.—Dwarkesh Lane, Muljee Jetha Market, Bombay 2. Phone: 34235. Grams: "SELFHELP", Direct Importers of Woollen & Art Silk & Cotton piecegoods.
Mansukhlal Kantilal & Co.—185, Mulji Jetha Building, Princess Street.
Mohanlal & Co.—Chhotalal Bhuvan, 3rd Floor, Kalbadevi Road, Bombay 2.
Mohanlal, D., & Co.—Bomanji Master Lane, near Kalbadevi P.O., Bombay 2.
Mohanlal Gosuldas.—Laisingh Building, opp. Crawford Market.
Moosa Shariff Sons (Estd. 1933).—77, Mohamedali Road, Bombay 3.
Morarji Velji & Sons.—7, Kolbhat Street, Post Box No. 2001, Bombay 2.
MUSRY, G. N., PRIVATE LTD.—Canada Building, Horne Street, Fort. Phone: 26-1435. Grams: "DANDELION." Importers and Exporters.
Mysore Silk Depot.—112, Swadeshi Market, Kalbadevi Road, Bombay 2.
Narandas Girdhardas.—Chandra Chawk Lane, Mulji Jetha Market.
Navnitlal Dayalal.—68, Swadeshi Market, Kalbadevi Road.
N. M. Brothers Co.—Shreeji Bhuvan, Lohar Chawl, Post Box No. 2163, Bombay.
Noormohamed Haji Mohamed Mukatey.—Wassiamull Building, 184, Musjid Bunder Road, Bombay 3.
Panalal Silk Mills Ltd.—Atlas Mills Compound, Reay Road, Mazagaon, Bombay 10.
Pavri Sons & Co.—93/97, Bazargate Street, Fort.
Popatlal Ghelabhai & Co.—104, Chuckla Street, Bombay 3.
Popular (Imp. & Exp.) Trading Co.—Javeri House, 110, Medows Street, Bombay 1.
Pragjee Vandrawan & Co.—Pragraj Lane, Mulji Jetha Market.
Premchand Trading Ltd.—7, Dhanji Street, Bombay 3.
P. R. Patell & Co. Ltd.—Mherwan Building, Sir Phirozshah Mehta Road, Fort.
Purshotam Govindjee & Co.—Mulji Jetha Market.
Rajsi Bros.—Opp. B.E.S.T. & Co., Colaba Causeway.
Ralli Brothers, Ltd.—21, Ravelin Street.
Ramchandra Gopal & Co.—Parsi Galli, Dhanji Street.
Ramdas Khimji Bros.—Warden House, Sir Phirozshah Mehta Road, Fort.
Ramkisandas Sagarmal.—Kalyan Bhuvan, 354, Kalbadevi Road.
Ramkishen & Sons.—Opp. Post Office, Kalbadevi.
Rangoonwala, H. N.—Rangoonwalla Building, 91, Mohamedalli Road.
Rasiklal Nagindas & Co.—Dadar Galli, 4th Shop, M. J. Market.
R. Bagoomal.—57, Churchgate Street, Fort.
Roop Kala.—Queen's Chambers, Queen's Road, opp. Marine Bridge.
Roshanali D. Nasser & Co.—69/72, Champa Gully, Mulji Jetha Market.
Rowe & Rowe.—38, Hornby Road, Fort.
Ruby Trading Co.—Sambava Chambers, Sir Phirozshah Mehta Road, Fort.
Rylands & Sons (Overseas) Ltd.—Cook's Building, Hornby Road.
Saleem Hafiz & Brothers.—94, Modi Street, Fort.
Sassoon, E. D., & Co., Ltd.—E. D. Sassoon Building, Ballard Estate.
Shah Chhaganlal Sevachand.—504, Kalbadevi Road, New Silk Bazar.
Shah, L. P., & Sons.—Central Building No. 2, New Silk Bazar, Opp. Kalbadevi P.O., Bombay 2.
Shapurji & Co., R. K.—319, Hornby Road, P. B. No. 1065, Fort
Shri Laxmi Cloth Trading Co.—135, Zaveri Bazar, Bombay 2.
Spinner, E., & Co.—8, Tamarind Lane, Fort.
Sorabji Nowroji & Co.—16, Horniman Circle, Fort, Bombay
Standard Trading Agency Ltd.—Seksaria Chambers, 139, Medows Street, Fort.
Subodhchandra Popatlal (Estd. 1915).—Exporters & Importers, 223-25, Sheikh Memon Street, Bombay 2.
Tirathdas Sons.—New Silk Bazar, Kalbadevi Road, Bombay 2.
Tod & Co.—41, Hamam Street, Fort.
Tulsidas V. Patel.—Morarji Goculdas Road, Bombay 2; Kalbadevi Road, Bombay 2. Phone: 21238. Grams: "Vividea".
Unimen Industrial Corporation.—5, Parker Building, 10, Cawasji Patel Street, P.B. No. 1179, Bombay 1.
Utoomal & Assudamal Co.—Bombay Mutual Annexe, Gunbow Street, Fort.
Vadilal Vrajlal & Co.—Peerbhoy Building No. 2, 80, Princess Street.
Valia & Co.—Harganga Mahal, Tram Terminus, Dadar, Bombay 14.
Valibhai Kamruddin.—101, Abdul Rehman Street, Bombay 3.
Valiram Sons.—Patel Building, Bomanji Master Road, Kalbadevi.
Vasi Bros. & Co.—Topiwalla Mansion, Mahomedalli Road.
Vasudev Girdharlal.—Central Building No. 2, New Silk Bazar, opp. Kalbadevi P.O., Bombay 2.
Vaswani, D. W.—11, Bharat Bhuwan, New Silk Bazar, 468, Kalbadevi Road, Bombay 2.
VASWANI (INDIA) PRIVATE LTD.—Proprietors of Pohoomull Brothers (India), 495, Kalbadevi Road, Bombay 2. Phone: 23267. Grams: "VASWATRAD."
Vaswani, K. D., & Co.—New Silk Bazar, 499, Kalbadevi Road, Bombay 2.
Volkart Brothers.—19, Graham Road, Ballard Estate.
Windmere (India) Ltd.—Exporters of Indian Cotton Piecegoods and Yarn, 110, Sir Vithaldas Chambers, 16, Apollo Street, Fort, Bombay. Tel. Address: "WINDMERE."
Yacoob Ahmed Brothers.—Topiwalla Mansion, Mahomedalli Road.

TEXTILES (HANDLOOM)

INDIAN TEXTILES CO., PRIVATE LTD., THE.—Manufacturers & Exporters of Handwoven Sarees, Brocades, Silks, Cottons, Prints, Woollens, Embroideries, etc. Bombay Office: Taj Mahal Hotel, Bombay 1. Phone: 35771. Grams: "HANDICRAFT." Head Office: Varanasi (U.P.), Phone: 1087. Branches: Great Eastern Hotel, Calcutta, Phone: 231843; Grand Hotel, Calcutta. Ambassadors Hotel, New Delhi, Phone: 45121/10. Grams: "HANDWOVEN" and Maidens Hotel, Delhi.

THREAD CUTTING TOOLS

EVERGREEN CORPORATION.—Gopal Nivas, Lohar Chawl, P.O. Box No. 2733, Bombay 2. Phone: 20891. Grams: "IMPTUBE." U.S.A. & English make B.S.W., B.S.F., M M & B.A. Taps and Dies, Twist Drills, Reamers, Cutters and other Thread Cutting Tools.

TIMBER MERCHANTS

Abba Gani & Co.—Victoria Road, Mazagaon.
Abbaskhan Mahamood Khan & Co.—Ghodbunder Road, Andheri.
Abdul Gani Abdul Latif.—99, Kolwada, Sewri.
Abdulhussain Allibhai.—Tank Bunder, opp. Reay Road Station, Mazagaon.
Aboobakar Mohamed Chhapra & Co.—Islami Bazar, 7, Victoria Road, Byculla.
Alimohammed Ahmed & Co.—55, Dontad Street, Khadak, Bombay 9.
Amratlal, M., & Co.—Tank Bunder, Reay Road.
Andheri Saw Mill & Timber Works.—Ghodbunder Road, Andheri, Bombay. Timber Merchants and Government Contractors. Phone: 86437.
Barodawalla, A. S., & Co.—Altamont Road, Cumballa Hill.
Bejanji Kerbadji & Sons.—Victoria Road, Tank Bunder.
Bharat Timber Mart.—Jambli Moholla, Panjrapole.
Bombay-Burma Trading Corporation, Ltd.—9, Wallace Street.
Bombay Saw Mills Co.—Connaught Cross Lane, Ghorupdeo.
Bombay Timber Importing & Landing Co.—148, Middle Colaba.
Brijmohan Banwarilal.—61, Reay Road, Mazagaon, Bombay 10.
Chunilal Maganlal.—Reay Road, Tank Bunder, Bombay 10.
D. P. CAWASJI & CO.—Connaught Saw Mill Compound, Dhaku Prabhuwadi, Ghorupdeo, Bombay 10. Tel. Address: "JUNGLEWOOD." Timber Merchants.
EAST ASIATIC CO. (INDIA) PRIVATE LTD., THE.—Wavell House, Graham Road, Ballard Estate, Bombay. Phone: 26-2711 (8 lines). Offices at Madras, Calcutta, New Delhi.
Famous Ladders Mfg. Co.—13, Khadak, Dontad Street, Bombay 9.
Laramroze & Co.—Reay Road, Bombay 10.
Fateh Saw Mill & Timber Works.—51, Ismail Curtay Road, Bombay 3.
Fatemahomed Osman Parekh & Co.—77, Victoria Road, Byculla.
Gilder, S. D. D., & Co.—40, Victoria Road, Byculla.
Grand Wood Works & Saw Mill.—Connaught Cross Road, Ghorupdeo.
Gulam Husein Meherally & Co.—Ghorupdeo, Connaught Road, Bombay 10.
Haji Ebrahim Haji Oomer.—65, New Kazi Street, Bombay 3.
Haji Ebrahim Haji Suleman Darweah & Co.—8, Islami Bazar, Victoria Road.
Haji Ebrahim Karim Mohamed & Sons.—64, New Kazi Street.
Haji Janmahomed, H. A., & Co.—Tank Bunder, Reay Road, Bombay 10.
Hargovindas Shivlal & Co.—Opp. Reay Road Station, Tank Bunder, Bombay 10.
HINDUSTAN TIMBERS.—Saraf Saw Mills Compound, Ghorupdeo Cross Road No. 1, Reay Road, Bombay 10. Grams: "HINDTIMBER". Phone: C/o 74658. Manufacturers of all types of packing cases. Stockists of Himalayan Timbers, i.e. FIRPINE, CHIRPINE, DEODAR, etc.
Janmohamed Habib.—Mustafa Bazar, Victoria Road, Byculla.
Janmahomed Haji Moosa.—Victoria Road, Byculla.
Janmahomed Mcledina.—50, Dontad Street, Khadak.
Kanti Wood Works.—Office, Saw Mills, Factory: Quay Street, Darukhana, Bombay 10.
Kantilal Bhaichand & Co.—Opp. Silk Mill, 68, Victoria Road.
Kantilal Ramanlal & Co.—Reay Road, Tank Bunder.
Kassam Abdulla & Co.—Victoria Road, Mustafa Bazar, Byculla.
Kazi, Ebrahim Dawood.—59, Victoria Road.
Khan Bahadur S. B. Mody.—No. 24, Colaba Chambers, Colaba Road.
Kohinoor Timber Mart.—Reay Road, Tank Bunder, Bombay 10.
Lalji Dewji Mehta.—Victoria Road, Byculla.
Lumber Industries Limited.—Victoria Road, Byculla.
MADHORAM & SONS.—Forest Contractors, 136, Tank Bunder, Reay Road, Bombay 10. Stockists: Chil Pine, Fir Pine, Shisham Wood, Teak Wood, Jungle Wood, etc.
Maganlal Nagardas & Co.—126-B, Victoria Road.
Mahomed Janmahomed.—68, Pydhoni Road, Khadak, Bombay 9. Call on 70663. Scaffolding materials as Bamboos Ballies folding ladders, wooden planks, etc. Can be had on hire & sale.
Malabar Timber Supplying Co.—Opp. Masina Hospital, Victoria Road, Byculla.
McKenzies, Ltd.—Sewri.
Meherally Saw Mill & Timber Works.—Connaught Road, Ghorupdeo.
MERWANJI KOLLABHAI & SONS.—Victoria Road, Bombay 10.
MILLAR'S TIMBER & TRADING CO., LTD.—Victoria House, Victoria Road, Bombay 27.
MODY, R. E., & CO.— Timber Merchants, Saw Millers, Railway Contractors and General Commission Agents, Reay Road, Bombay 10. Phone: 41186. Grams: "TIMBERS."
Noormahomed Osman.—New Kazi Street.
Northern India Timber Corp.— 63, Reay Road, Bombay 10.
Parekh & Co.—77, Victoria Road, opp. Silk Mills, Bombay 10.
Patell, P. R., & Co., Ltd.—Mherwan Building, Sir Phirozshah Mehta Road, Fort.
Pestonji Jamasji & Co.—Reay Road, Tank Bunder.
PODAR SAW MILLS.—61, Reay Road, Bombay 10. Phone: (Office) 42203. (Res.) 60144.
Popatlal Parbhudas.—Near Reay Road Station, Tank Bunder.
Potia, Fidaalli Mohamedally & Bros.—51, Husseiny Lakda Bazar, Bellasis Road.
Quality Timber Trading Co.—The Bombay Timber Market Ltd., Shop No. 78, Signal Hill Avenue, Reay Road, Bombay 10.
Ravishanker P. Acharya.—Reay Road, Tank Bunder.
S. D. D. Gilder & Co.—40, Victoria Road, Mazagaon, Bombay 10. Grams: "TREETOP."
Simplex Timber Mart.—66, Pydhonie Road, Khadak, Bombay 9. Phones: 70663. Grams "LADDERMAN". Manufacturers of all kinds of Single, Folding, Sliding Extension and Wheeled tower ladders, boat oars and flag poles, etc.
Standard Timber Trading Co.—Islami Bazar, Victoria Road, Byculla.
Sunderdas Saw Mills.—Opp. Reay Road Station, Bombay 10.
TEXTILE & TIMBER TRADERS.—Medows House, Medows Street, Fort. Phones: 252051 and 252666.
Timber Trading Corporation —Tank Bunder Reay Road, Bombay 10.
Timber Wood Syndicate.—All kinds of Timber, Bullies, Mundas, Rafters, Bamboos, etc., available in Big Stock. Ghodbunder Road, Andheri, Bombay 41.
Trinity Timber Syndicate.—57, Dontad Street, Khadak.
Vaid & Co.—26, New Kazi Street, Null Bazar.
Vishnoo Ballal & Co.—Opp. Reay Road Station, Bombay 10.
WADIA, B. F., & SONS.—Reay Road, Bombay 10. Phone: 40234. Grams: "TIMBERSALE."
Wallace & Co.—9, Wallace Street.
West Coast Timber & Plywoods.—57, Victoria Road, Mazagaon.
Western Australia State Saw Mills, Perth.—Agents: Killick, Nixon & Co., Home Street, Fort.
WESTERN INDIA TIMBER TRADING CO.—Reay Road, Tank Bunder, Bombay 10. Phone: 40558. Grams: "BURMATEAK."
WOOD BOX SUPPLY CO.—Sion Trombay Road, Chembur, Bombay 38. Phone: 67284; Sole Manufacturers in India of Multi Colour Printed Wooden Packing Cases; Stockists of Fir & Pine Wood.
Zakriya & Dawood Co.—37, Dontad Street, Khadak, Bombay 9.

TIN BOX MANUFACTURERS

THE METAL BOX COMPANY OF INDIA LTD.—Factory and Sales Office at 249, Worli Road, Bombay 18, Post Box No. 544, Bombay 1. Tel. Address: "METABOXES". Tel. No. 73311 14. Head Office: Barlow House, 59C, Chowringhee Road, Calcutta 20. Branches also at Calcutta, Madras and Delhi. Specialists in tinprinting, and the production of Open Top Cans for processed foodstuffs; plain and lithographed General Line tinplate containers; Composites; Collapsible and Rigid Tubes; Polyethylene Bags; Calendars, Advertising Show Cards and Novelties; Insecticide Sprayers; Trays, Toys and other Hardware; Crown Corks, Screw Caps, Pilferproof and other Closures; Industrial Components, particularly deep stampings. Manufacturers of Can and Bottle Closing Equipment. Suppliers of Can Reforming and Can and Bottle Closing Equipment manufactured by The Metal Box Company Limited, and Bottling Equipment manufactured by Meyer Liquid Limited.

TIN PRINTERS & BOX (CONTAINERS) MANUFACTURERS

Bombay Tin Printers.—221/223, Thakurdwar Road, Bombay.
INDIAN METAL CAN MFRS. PRIVATE LTD.—13, Noble Chambers, 116, Parsee Bazar Street, Bombay. Phone: 251603. Grams: "MYRABOLANS."

KIV TRADING CO.—17, 1st Parsiwada, Khetwadi, Bombay 4. Phone : 72180.

POYSHA INDUSTRIAL CO. PRIVATE LTD.—Manufacturers of Lithographed and Plain Tin Cans, Containers, Closures, Crown Corks, Caps and Open Top Sanitary Cans. Messent Road, Sewri, Bombay 15. Phone : 72863. Grams : "SAN-CANS."

Grams : "METALPRINT"

THE METAL PRINTERS COMPANY

Specialists in :

All Types of Metal Printing by Deep Etch Process & Silk Screen Printing, Etc.

Manufacturers of :

Printed Tin Containers, Trays, Metal Posters, Screw Caps in different types and sizes.

Office: Aga Khan Building, 9, Dalal Street, P. B. No. 411, Bombay 1

Factory : Marol Naka, Andheri-Kurla Road, Bombay 41

New Trinity Metal Works Ltd.—39-43, Nesbit Road, Bombay 10.

SAIFY TIN FACTORY.—Manufacturers of Tin Containers. Upper Duncan Road, Bombay 8. Phone : 42398.

THE ORIENTAL CAN MANUFACTURING CO.—1076, Haines Road, Worli, Bombay 18. Phone : 41185. Manufacturers of Lithographed Tin Containers and Packing Materials.

Zenith Tin Works.—Opp. Race Course, Mahalaxmi, Bombay 11.

TOBACCO DEALERS AND MANUFACTURERS

Behram Bros.—Oomrigar Building, opp. Crawford Market.

BYRAM & CO.—Wakefield House, 11, Sprott Road, Ballard Estate, Bombay.

Dilaj & Co.—20, Hamam Street, Fort.

Godfrey Phillips (India) Ltd.—Kurla Road, Chakala, Andheri, Greater Bombay.

Golden Tobacco Co.—Tobacco House, Ghodbunder Road, Vile Parle.

Hiralal Panachand Shah.—Office : Jai Hind Estate No. 1, Cathedral Street, Bhuleshwar, Bombay 2.

IMPERIAL TOBACCO COMPANY OF INDIA, LTD., THE.—Factory : P.O. Box No. 6002, Parel, Bombay 12. Phone No. 62521 (3 lines). Tel. Address : "BACCYMAKE."

Khodadad Sheriar & Co.—No. 2, Crawford Market.

Macropolo, D., & Co., Ltd.—Kermani Building, Hornby Road, Fort.

Mooljee Sicka & Co.—Patel Road, Bombay 4. Branches at Gondia (M.P.), Darjeeling, Champa (M.P.), Aurangabad (Murshidabad), Lucknow, Kanpur, Ambala. Head Office : 51, Ezra Street, Calcutta.

Olympia Cigarette Co. & General Stores.—Metro House, Dhobi Talao.

Phillips & Co.—Waterloo Mansion, Mayo Road, Fort.

Pioneer Industrial Tobacco Works.—Imamwada Road, Bombay 9.

Spencer & Co., Ltd.—Spencer's Building, Forjett Street, Bombay 26.

Star Beedi Works.—Kesnav Bhuwan, 1st Sutar Gully, Bombay 4.

TOILETRIES

Abdulla A. Baker & Co.—89, Bhajipala Street, Bombay 3.

Akbarally Ebrahimji.—38/c, Cawasji Patel Street, Fort, Bombay. Grams : "Tussibar."

Alimohamed Hussein & Co.—329, Jumma Masjid, Bombay 4.

Bhimjee & Co., Ltd.—11, Elphinstone Circle, Fort.

Budroodin Mahomedally & Sons.—238, Nagdevi Street, Bombay 3.

Chesebrough—Pond's Inc.—(Incorporated in U.S.A. with Limited Liability), 13, Gunbow Street, Fort, Bombay 1.

Derby & Co.—P. B. Press Building, Frere Road, Fort.

Ebrahim Alibhoy & Sons.—260-64, Abdul Rehman Street, Bombay 3.

GODREJ SOAPS PRIVATE LTD.—P.O. Jacob Circle, Bombay 11.

Hasanali Kamroodin.—19, Shamset Street, Bombay 3.

Hebertsons Ltd.—11-13, Elphinstone Circle, Fort.

HIRA, P. H., & CO.—18-20, Princess Street, Bombay 2. Perfumers, Stationers, Cutlery, Chemists & Druggists. Toilet Articles. Phone : 29480. Grams : "PERFUMES." Branches : Calcutta, Madras and Delhi.

I.C.I. (India) Private Ltd.—P.B. No. 310, Bombay 1.

Jadavji, R., & Sons.—Harbour View, Colaba Causeway.

Jhaveri Bros. & Co.—Metro Cinema House, Dhobi Talao.

Komal Manufacturing Chemists, Ltd.—23-36, Imperial Chambers, Ballard Estate, Fort.

Lever Bros. (India) Ltd.—Sewri, Bombay.

Madon, M. T., & Co.—The "Corner-Shop", 346, Abdul Rehman Street, Bombay 3.

Modi Gandevia & Co.—Western India House, Sir Phirozshah Mehta Road, Fort.

Muhammed Ahmed & Bros.—22, Cutlery Bazar, Bombay 3.

New India General Stores.—33, Medows Street, Fort, Bombay.

Pearline (Paris).—Rehman Building, Churchgate Street, Fort.

Phillips & Co.—Waterloo Mansions, Mayo Road, Fort.

Smith, Stanistreet & Co., Ltd.—Stan House, Barrack Road, Fort, Bombay 1.

Sultanali Mohamadali (Estd. 1895).—148, Sarang Street, Bombay 3.

Swastik Oil Mills Ltd.—Saltpan Road, Wadala, Bombay 31.

Tata Oil Mills Company Ltd.—Bombay House, Bruce Street, Fort, Bombay.

Universal Perfumery Works, The.—95, Kambekar Street, Bombay 3

Yacoob Ahmed Bros.—Topiwalla Mansion, Mahomedally Road.

TOOL & ALLOY STEEL

HARISHANKER NARBHERAM & CO., D. M.—94, Kansara Chawl, Kalbadevi Road, Bombay 2. Phones : Office : 29794 & Res. : 88031. Grams : "BAKULBAUGH." Importers of Tool, Alloy & Special Steel.

TOOL MANUFACTURERS AND MERCHANTS

Abdeally, B. M., & Co.—127, Sarang Street, Bombay 3. Phone 31790.

Abdool Hoosein Jiwajee & Co.—241, Nagdevi Street.

Abdulkhadar Shamsuddin & Co.—48, Khoka Bazar, Bombay 3.

Abdullabhai Faizullabhai Ltd.—Khoka Bazar, Bombay 3.

Adamally Gulamhusein.—191, Khoka Bazar, Sarang Street, Bombay 3.

Adamally Sons Ltd.—277, Nagdevi Street, Bombay 3.

AGARWAL COMMERCIAL CORPORATION.—35, Bibijan Street, Barbai Mohalla, Bombay 3. Phone : 30041 Ext. 11. Grams : "HACKSAW".

Ahmedally Jiwabhai & Co.—86-88, Lohar Chawl, Bombay 2.

Akbarally & Co., F. H.—58, Bhajipala Lane, Bombay 3.

Akbarally Mohamedally & Co.—316, Abdul Rehman Street, Bombay 3.

Alfred Herbert (India) Ltd.—Kaiser-i-Hind Building, Sprott Road, Ballard Estate, Bombay 1.

Asian Textile Engineering Corporation.—Kermani Building, Sir Phirozshah Mehta Road, Fort.

Asiatic Engineers.—Mehta House, Medows Street, Fort.

Atlas Engineering Co.—Laigir Chambers, Tamarind Lane, Fort, Bombay.

Automotive Hardware Corp.—93, Narayan Dhuru Street, Bombay 3.

Baboolal Kela & Co.—General Assurance Building, Hornby Road, Fort.

BABULAL & BROS.—28, Nagdevi Cross Lane, Bombay 3. Phone : 30930. Grams : "FIREFLY".

Bashimal Kanahyalal.—124, Narayan Dhuru Street, Bombay 3.

Batliboi & Co.—Engineers & Machinery Importers. Head Office : Forbes Street, Fort, Bombay. Phone No. 25545-55 Grams : "BATLIBOICO". Branches : Madras, Calcutta, Delhi, Ahmedabad, Kanpur, Coimbatore, and Vijayvada. Associates : Bangalore and Secunderabad.

BHARAT ENGINEERING STORES.—113, Nagdevi Street, Bombay 3. Grams : "UNIONTOOLS."

Bhasin Brothers.—Court House, 1st Floor, Dhobi Talao, Bombay 2.

Bhogilal & Co., R.—261/263, Hornby Road, Fort, Bombay.

Bombay Steel Corporation.—241, Kumbharwada, opp. 2nd Sutar Lane, Bombay 4.

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Kashmir Govt. Arts Emporium.—Sir P. M. Road, Bombay 1
Railship Stores.—39, Medows Street, Fort.

TURPENTINE AND ROSIN (*See* Rosin & Turpentine)

TYPE MANUFACTURERS AND DEALERS

Gujarati Type Foundry.—196-B, Gaiwadi, Girgaum, Bombay 4.
Nirnaya Sagar Press & Jawaji Dadaji Type Foundry.—26-28, Kolbhat Street, Bombay 2.
Star Type Foundry.—Anees Chambers, Carnac Road, Bombay 1.

TYPE METAL

METALLICA WORKS PRIVATE LTD.—11, Worli Road, Bombay 18. Phones: 78432, 78483, 78434. Makers of Non-Ferrous Metals. Sole Agents & Stockists: "COMPO" (London) Oil Retaining Bearings. "Silvercrown" (London) Electroplating Materials. "Delta" (London). Bronze Welding Rods.

TYPEWRITERS

ASHOK TYPEWRITERS.—40, Cawasji Patel Street, Savla Chambers, Fort, Bombay 1. Dealers in all kinds of Typewriters. Speciality: Sales, Services, Repairs & Hires.

Blackwoods India Ltd.—Kasturi Building, Jamshedji Tata Road, Churchgate, Bombay 1.

BOMBAY TYPEWRITING INSTITUTION.—(Recognised by Government). Typewriting Taught, Typewriters & Duplicators bought, sold, repaired & hired, Type-Copying & Duplicating Work undertaken. Opp. The General Post Office, Bhatia Mitra Mandal, Fort Street, Fort, Post Box No. 936, Bombay 1. Phone: 26-2484. Grams: "SAXENA."

General Equipment Merchants Ltd.—People's Building, Sir Phirozshah Mehta Road, Fort.

General Typewriters (Bombay) Co.—375, Hornby Road, Fort.

GODREJ & BOYCE MFG. CO. PRIVATE LTD.—Lalbaug, Parel, Bombay.

Jagmohandas Mangaldas & Co.—Lentin Chambers, Dalal Street.

KOTAK BROTHERS.—59, Forbes Street, G.P.O. Box No. 1838, Fort, Bombay. Phone: 252963. Grams: "BROSKO." Dealers in new-recondition Typewriters. Typewriters, are Bought, Sold, Hired, Exchanged, Repaired and Serviced, under guarantee. Also executing excellent Cyclostyling (duplicating) jobs. Approved Government Contractors. Also dealing in Duplicating Machines.

LAINEZ MARSHAL (TYPEWRITER EXPERT), "JIFFY".—62, Karwar Street, Room No. 4, Above Persian Restaurant, Fort, Bombay 1.

LATHAM ABERCROMBIE & CO. PRIVATE LTD.—Forbes Building, Home Street, Fort.

MOTOR HOUSE LTD. (Estd. 1927).—Halda-Facit: Office Equipment Division: Admn. Offices, Show Rooms & Service Station: "House of Mehta", Hughes Road, Bombay 7. P.B. No. 6546, Bombay 26. Cables: "MOTORHOUSE", Bombay; Telephone Nos. 77435, 77436. Branches: Bombay (Fort), Nagpur, Poona, Hubli, Ahmedabad, New Delhi, Jaipur, Chandigarh, Simla, Patiala, Ludhiana, Jullundur, Amritsar, Bhopal, Gwalior, Indore. Exclusive Sole & Service Concessionaires of HALDA Typewriters, Facit calculators, FACTA Adding & Listing Machines & other specialized office Equipment. Town Sales Office: DHAN-NUR, Sir P. Mehta Road, Fort, Bombay 1.

NICOLLS & CO.—Typewriter Experts, Typewriter Sales, Service & Repairs, Carbon and Ribbons. Kermani Building, Sir Phirozshah Mehta Road (above Macropolo's), Fort, Bombay. Phone: 253523.

Office Appliance Corporation.—Hassan Chambers, Parsee Bazar Street, Fort.

Oliver Typewriter Agency.—Hasaan Chambers, Parsee Bazar Street, Fort.

Olympia Typewriters.—Ramchandra Building, Carnac Road.

Premier Typewriter Co.—235, Hornby Road, above Kemp & Co., Fort.

REMINGTON RAND OF INDIA LIMITED.—Manufacturers of Remington Rand Business Equipment. Thackersey House, Graham Road, Ballard Estate, Bombay. Phone: 261196 (2 lines). Grams: "REMINGTONS."

Roneo, Ltd.—Navsari Chambers, 39, Bastion Road, Fort.

Sind Typewriting Co.—242, Abdul Rehman Street.

Standard Typewriting Co.—Cama Building, 257, Hornby Road, Fort.

SUNBEAM CO.—29, Ismail Bldg., 381, Hornby Road, Bombay 1. Phone: 251673. Grams: "TYPEWRITER.". Typewriters Bought, Sold, Repaired, Given on Hire.

UNIVERSAL TYPEWRITER CO.—31, Nawab Bldg., 327, Hornby Road, Bombay 1. Phone: 251949. Grams: "REFMANSALE". Dealers in Typewriters, Accessories and Spare parts. Specialists in Repairs of all makes of Typewriters.

Voltas Limited.—19, Graham Road, Ballard Estate, Fort.

Western India Typewriter Co.—General Assurance Building, Hornby Road, Fort.

TYRE MANUFACTURERS AND DISTRIBUTORS

Bombay Garage Ltd.—Meher Building, Chowpatty, Bombay 7.

Dunlop Rubber Co. (India) Ltd.—Dunlop House, Hughes Road.

Firestone Tyre and Rubber Co. of India Ltd.—Hay Bunder Road, Sewree, Bombay.

Foreign Products Distributing Co.—Ramchandra Mansion, 491, Sandhurst Road.

Goodyear Tyre & Rubber Co. of India Ltd.—7-9, Mathew Road.

India Tyre & Rubber Co. (India) Ltd.—Spencer's Building, Forjett Street, Cumballa Hill, Bombay 26. Phones: 73157-8-9.

Mehta Motor Stores.—Banji Nivas, Sandhurst Road.

New Eastern Traders (India) Private Ltd.—16, Avantikabai Gokhale Street, Bombay 4.

TYRESOLES CONCESSIONAIRES PRIVATE LTD.—Sayani Road, Bombay 28. Tel.: 60377. Managing Agents: The Anglo-Thai Corporation Ltd., Retreading and repairs of tyres of all sizes.

Universal Service Corporation Ltd.—457-9, Sandhurst Road, Bombay.

UMBRELLAS, UMBRELLA PARTS, MANUFACTURERS & MERCHANTS

Akbarally Ebrahimji.—38,c, Cowasji Patel Street, Fort, Bombay. Gram: "Tussibar."

ARCO AGENCIES.—Bam House, Gunbow Street, Fort, Bombay 1. Phone: 26-1208.

Ashok Overseas Trading Co.—543, Kalbadevi Road, Bombay 2.

Asiatic Umbrella Manufacturing Co.—Dev Karan Mansion, 22, Mangaldas Road, Bombay 2

BHARAT UMBRELLA MFG. CO.—65, New Hanuman Lane, Bombay 2. Grams: "DHARUV." Exporters, Specialists in "Umbrella" Cloth.

Bombay Umbrella Manufacturers.—Bombay Mutual Building, 2nd Floor, Sir Phirozshah Mehta Road, Fort. Grams: "GAISAN."

Cawnpore Mills Depot.—Churchgate House, Churchgate Street, Fort.

EBRAHIM CURRIM & SONS.—Rahim Building, Princess Street. Umbrella Merchants & Manufacturers of "STAG" Brand Umbrellas. Tel. No. 22238. Grams: "CANOPY."

Iwatom Private Ltd.—204, Dr. Dadabhai Naoroji Road, Fort, Bombay

Maharashtra Leather Works.—Opp. Dadar Station (Western Rly.), Bombay 14.



M. L. Mansukhani & Co.—36, New Hanuman Lane, Bombay 2.

NARESHCHANDRA PRIVATE LTD.—543, Kalbadevi Road, Bombay 2. Phone: 30924. Manufacturers and Direct Importers of Umbrellas and Accessories.

NOBLE PLASTIC WORKS.—22, Mangesh Senoy Street, Fort, Bombay 1. Phone: 261172. Grams: "ROLLED GOLD". Manufacturers of Plastic Umbrella Handles.

OSWAL UMBRELLA MANUFACTURING CO.—57-B, New Hanuman Lane, Bombay 2. Grams: "CRADLE". Dealers in Umbrellas & spare parts.

RAJASTHAN TRADING CO.—419-C, Joshi Wadi, Kalbadevi, Bombay 2. Manufacturers and Dealers in Umbrellas and Parts. Exporters and Importers. Grams: "REPUTATION." Phone: 39653.

Ramniklal Harilal & Co.—86-90, Sutar Chawl, Bombay 2.

SAIT NAGJEE PURUSHOTHAM & CO., PRIVATE LTD.—94/96, Princess Street, Bombay 2. Phone: 34668. Grams: "LIMDA". Umbrellas, Textiles, Soaps, Glycerine & Plastic.

SENAJI SOBHAJI & CO.—65, New Hanuman Lane, Bombay 2.
SOMANI & COMPANY PRIVATE LTD.—Industrial Estate, Lal Baug, Bombay 12. Phone: 70592. Manufacturers of Umbrella Sticks, handles (all types of Nickle Sandow and its component parts).
Suleman Nasir.—Souter Street, Bombay 11.
SURAJMAL KAPURCHAND & CO.—51-53, New Hanuman Lane, Bombay 2. Phone: 39157. Grams: "CHHATAS-TIC".

UNDERTAKERS AND MONUMENTAL SCULPTORS

Annunciation William & Co.—425-425A, Girgaum Road, opp. Dukerwadi Lane.
Douglas James & Co.—7, Clare Road, Byculla.
Frank Binks.—Opp. Alexandra Cinema, 246, Bellasis Road, Byculla.
George F. Baptista.—165, Hill Road, Bandra.

UPHOLSTERY MATERIAL MFRS.

Bhor Industries Ltd.—Ganesh Prasad, 10, Sleater Road, Bombay 7.
DHARAMPUR LEATHER CLOTH CO., LTD.—10, Chowpatty Seaface, Opp. Tilak Statue. Bombay 7, India. Phone: 40516. Grams: "PUNEM." Manufacturers of P.V.C. Coated Fabrics for Heavy Upholstery.
Gandhi, R. & Co.—Kitchen Garden Lane, Bombay 2.
I.C.I. (India) Private Ltd.—Crescent House, Ballard Estate, Bombay 1.
Leather Cloth Processors & Printers.—Moghul Lane, Matunga, Bombay 16.
Truthful Traders.—Sitaram Buildings, 53, Hornby Road, Bombay. (Near Crawford Market.)

VACUUM CLEANING MACHINERY

Batliboi & Co.—Engineers & Machinery Importers. Head Office: Forbes Street, Fort, Bombay. Phone No. 255451-55 (4 lines). Grams: "BATLIBOICO". Branches: Madras, Calcutta, Delhi, Ahmedabad, Kanpur, Coimbatore, and Vijayvada. Associates: Bangalore and Secunderabad
General Radio & Appliances Private Ltd.—16, New Queen's Road, Bombay 4.

VACUUM FLASKS



Sales Depot: **G. M. DHANJI**
165-67, Chukla Street, Bombay 3.
Phone: 39313, 67380 - Grams: "CROCKERY"

VACUUM VESSELS AND PUMPS MFRS.

Bijlani Shah & Co.—50, Nesbit Road, Bombay 10.
Light House.—51, Kitchen Garden Lane, Shrijee Bhavan, Bombay 2
Mehta Nanavati & Co.—Barbhai Moholla, 96, Narayan Dhuru Street, Bombay 3.
Shivji, K. S., & Co.—144-46, Sheriff Devji Canji Street, Bombay 3.
Western Manufacturing Co.—Hassan Chambers, Parsi Bazar Street, P.O. Box No. 1230, Fort.

VALUERS (Machinery, Building & Lands)

DINSHAW, M.H., & CO.—105, Apollo Street, Fort, P.O. Box 448, Bombay. Gram: "AHOORAT." Phone: 24088. Managing Director: H. Dinshaw Dungor, M.I.S.E., M.M.E.A. (Ind.), A.S.E. (Lond.), Managing Partner: Dinshaw H. Dungor, A.M.I.E.T. (Lond.), Residence, Victory Villa, Turner Road, Bandra.

VALVES (SLUICE)

CALCUTTA IRON & STEEL CO., PRIVATE LTD.—68 D, Mohamedally Road, Bombay 3. Grams: 'RIVETBOLT'.

VEE-BELTS

"Abco."—30, Sarang Street, Bombay 3. Phone: 39032.
Babulal & Bros.—26, Nagdevi Cross Lane, Bombay 3.
Batliboi & Co.—Engineers & Machinery Importers. Head Office: Forbes Street, Fort, Bombay. Phone No. 255451-55. Grams: "BATLIBOICO". Branches: Madras, Calcutta, Delhi, Ahmedabad, Kanpur, Coimbatore and Vijayvada. Associates: Bangalore and Secunderabad.
Bharat Engineering Stores.—113, Nagdevi Street, Bombay 3
Bombay Engineering Syndicate.—17, Forbes Street, Bombay
Diarvi Trading Co.—64, Old Custom House Road, Fort.
Diwan Bros.—51, Nagdevi Street, Bombay 3
EDGAR HANDLEY & CO. PRIVATE LTD.—135, Medows Street, Fort, Bombay. Phones: 253548 and 252934. Grams: "TROJAN."
Greentose Corporation (India).—24-26, Dalal Street, Fort, Bombay
Industrial Stores Agency.—59, Forbes Street, Fort.
James Tools & Hardware Co.—109-11, Nagdevi Street, Bombay 3
Jhala, R. T., & Co.—9, Forbes Street, Fort, Bombay 1.
Lewis & Tylor (India) Ltd.—Sorab House, 237, Dr. Dadabhoy Naoroji Road, Bombay 1.
N. MOHANLAL & CO.—124, Nagdevi Street, Bombay 3. Phone: 27545. Grams: "JEPIBELT."
Paramount Textile Agency.—45 47, Apollo Street, Fort Bombay.
PATEL TRADING CORPORATION.—443, Lamington Road, 1st Floor, opp. J. V. Mehta & Co. (Opera House), Bombay 4
P. Ratilal & Co.—43, Dhanji Street, Bombay 3.
R. B. ISHWARDAS & CO.—79, Nagdevi Cross Lane, Bombay 3. Phone: 29015. Grams: "STOREWALA". Mill Gin Stores and Hardware Suppliers, everything in rubber, moulding goods, Industrial Vee-Belts, Vee pulleys and Link belts.
V. S. & COMPANY.—140, Commerce House, 302, Medows Street, Bombay. Grams: "MANDEVIACO". Phone: 254966. Distributors for 'Dunlop' Industrial Products such as V-Belts, Transmission Belting and Hoses.

VEE ROPES

Arvinda Trading Co. Private Ltd.—105, Apollo Street, Fort.
Associated Machine & Tool Co.—130, Medows Street, Fort.
Balmer Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate, Fort
Batliboi & Company.—40, Forbes Street, Fort.
EDGAR HANDLEY AND COMPANY PRIVATE LIMITED.—135, Medows Street, Fort, Bombay. Phones: 253548 & 252934. Grams: "TROJAN."
Greaves Cotton & Crompton Parkinson Private Ltd.—Forbes Street Bombay 1.
Greentose Corporation (India).—24-26, Dalal Street, Fort.
Jhala, R. T. & Co.—9, Forbes Street, Fort, Bombay.
Lewis & Tylor (India) Ltd.—Sorab House, 237, Dr. Dadabhoy Naoroji Road, Bombay 1.
Roberts, McLean & Co. Private Ltd.—Ilaco House, Sir Phirozshah Mehta Road, Fort.
Sizing Materials Co., Ltd.—Jeroo Building, 187, Mahatma Gandhi Road, Fort.
Y. M. Pathare and Company—Post Box 1428, 41, Medows Street Bombay 1.

VEGETABLE PRODUCTS (GHEE)

Aboobaker Ebrahim.—Dongri Street, Bhimpura, Bombay 9.

Amrit Banaspati Co. Ltd. Ghaziabad (U.P.).—19, Amrit, East & West Building, Apollo Street, Bombay 1.

Borar Swadeshi Vanaspati.—357, Kalbadevi Road, Bombay 2.

EAST ASIATIC CO. (INDIA) PRIVATE LTD. THE.—Wavell House, Graham Road, Ballard Estate, Bombay. Phone: 26-2711 (8 lines). Offices at Madras, Calcutta, New Delhi.

Hindustan Levers Ltd.—Office: Scindia House, Ballard Estate. Factory at Sewri.

Palanpur Vegetable Products Ltd.—Ewart House, Bruce Street, Fort. Factory: Palanpur (N. Gujerat).

Tata Oil Mills Co. Ltd.—Bombay House, Bruce Street, Bombay 1.

Vegetable Vitamin Foods Co.—Plot No. 109, Sion, Bombay 22.

Western India Vegetable Products Ltd.—5, Ghoga Street, Fort.

VENTILATION

Automachines (India) Private Ltd.—111-A, Mahatma Gandhi Road, Bombay 1.

INDUSTRIAL AIR CONTROL (INDIA) PRIVATE LTD.—Karimjee House, 2nd Floor, 59, Sir Phirozshah Mehta Road, Fort, Bombay 1. Phone: 262474. Grams: "COOLAIR." Specialists in all Air Handling Equipments, Textile Dust and Fume Removal and Oil Spraying.

VISUAL EDUCATION

Film Club. National House, Tulloch Road, Apollo Bunder, Bombay.

National Education & Information Films, Ltd.—National House, Tulloch Road, Apollo Bunder. Grams: "Edufilms."

Orbis (India) — 144, Mody Street, Fort, Bombay.

Photo, Cine & Sound Private Ltd.—12, Rampart Row, Bombay 1.

WASHING AND DYEING COMPANIES

Bharat Laundry (Estd. 1934).—Gulam Mahomed Building, Nowroji Hill Road No. 7, Bombay 9.

Comet Cleaners.—Park House, 81, Wodehouse Road, Colaba.

Diamond Jubilee Washing Company.—Hamam Street, Fort.

Ebrahim Alibhai Bros.—15, Sutar Chawl, Bombay 2.

GARMENT CLEANING WORKS.—Head Office: 36, Gowalia Tank Road, Bombay 26. Phone Nos. Office: 74187 and Works: 74110. The Largest Power Laundry in India. Laundry Contractors—all leading Shipping Companies, Railways and Hotels. Dry Cleaners and Dyers. Same day Dry Cleaning Service. 26 Branches throughout the City.

Royal Laundry Co.—25, Hamam Street, Fort.

Vacuum Dry Cleaning Co.—Elysium Mansion, Colaba Causeway.

Vasudev Dyeing Works.—318, Dr. Cowasji Hormusji Street, opp. Sonapur Church, near Marine Lines Railway Station, Bombay 2.

WASTE PAPER

MANIAR BROS.—6th Duncan Road Cross Lane, Bombay 3. Phone: 41716. Grams: 'RAOOF'. Dealers in Waste paper, Press cuttings, old Records (Account, Bill books, Letter Files and Documents to be destroyed) and all other Paper Industry Raw Materials.

P. CARLTON & CO.—Calcutta National Bank Bldg., 26-A, Sir Phirozshah Mehta Road, Bombay 1. Phone: Office: 261880. Grams: "BROADSIDE."

WATCH AND CLOCK IMPORTERS AND DEALERS

Arvecht, Ch. Omega & Tissot Agents.—269, Dadabhai Naoroji Road, Fort, Bombay.

ACHARATLAL K. PAREKH.—372, Masjid Bunder Road, Bombay 3. Grams: "AKKDPI". Direct Importers & Wholesalers of Watches, Timepieces and Clocks.

All India Watch Co.—Opp. Bhangwadi, 446/51, Kalbadevi Road, Bombay 2.

ALPHA WATCH CO.—Ranade Road, Dadar, Bombay 28. Grams: "CLOCKTICK". Direct Importers & Wholesalers. Sole Agents for EASTFAIR & JOKBOY.

Bhagat & Company, L.—Abdul Rehman Street, Bombay 3.

Bullion Watch Co.—215-17, Kalbadevi Road.

Insist on our Trade Marks :

VISCOUNT

VANGUARD & CENTILLA

CENTRAL WATCH & GRAMOPHONE CO.

Direct Importers of :

WATCHES, CLOCKS & TIME PIECES

Opp. Western Railway Station, Dadar, Bombay-28

Checker Brothers.—Coronation Building, Gunbow Street, Fort.

CHHEDA WATCH MART.—39-41, Dhanji Street, Bombay 3.

Columbia Watch Co.—20, Prospect Chambers Annexe, P. Box No. 780, Fort, Bombay.

Crown Watch Co.—Nanavati Building, 16/18, Abdul Rehman Street, Bombay 3, near Pydhownie.

D. P. Pundole & Co.—44, Nagdevi Street, Bombay 3.

D. R. PUNDOLE & SONS.—369-371, Dr. Dadabhai Naoroji Road, Fort, Bombay. Sole Manufacturers of "Beaumont" Watches and Clocks and also Agents for 'Cyma' Watches.

EASTERN WATCH.—231-3, Hornby Road, Fort. Clocks and Watches, Electric Clocks Specialists. P. O. Box 263. Phone: 261962.

E. M. M. GHADIALI & SONS (REGD.) ESTD. 1860.—59, Abdul Rehman Street, Bombay 3. H.O. Ahmedabad. Importers of Watches & their parts.

EXCELSIOR WATCH CO. PRIVATE LTD.—64/64A, Abdul Rehman Street, P. O. Box No. 3001, Bombay 3. Grams: "EXCELWATCH." Phone: 34085. Dealers in Watches, Clocks, Timepieces, Watch Materials, Watchmaker tools, etc. Sole Distributors for Well-known "AWCO" Minister & Norexa Watches.

EXPRESS WATCH COMPANY.—78, Abdul Rehman Street, Bombay 3. Importers, Wholesalers and Retailers of Watches, Clocks and Timepieces. Telegrams: "PRIMEWATCH." Phone: 23838.

FAVRE-LEUBA & CO. PRIVATE LTD.—211-219, Dr. Dadabhoy Naoroji Road, Fort, P.O. Box 846, BOMBAY. N.E. Corner Dalhousie Square, P.O. Box 474, CALCUTTA. 525, Chandni Chowk, P.O. Box 2016, DELHI. Telegraphic Address: "FAVRELEUBA." Merchants, Manufacturers, Importers and Distributors—Repairers—Indentors and Commission Agents. Watches and Clocks, Stop Watches, Watchmen's Clocks and Instruments and Allied goods. Representing: Patek Philippe—Vacheron and Constantin—Jaeger—Le Coultre—I. W. C.—Zenith—Eterna—Favre-Leuba Geneve—Bovet—Sandow—John Barrel—Jaz (alarm timepieces and wall clocks) Favag (electric clock installation).

Franklin J. D'Souza & Sons.—26F, Gunbow Street, Fort.

Ganesh Watch Co.—Mayor Building, Tulsi Pipe Road, opp. Western Rly. Station, Dadar.

Geneva Watch Co.—97, Abdul Rehman Street, Bombay 3. Grams: "ZEILER."

H. S. CHHATWAL.—11, Tamarind Lane, Fort, Bombay. Phone: 262174. Grams: "COLWATCH." Representative: BADER AND HAFNER, Switzerland. One of the largest Swiss Manufacturers of Rockopf Watches. Representative: ELOGA LTD., Switzerland. Manufacturers of Gents' Calendar Watches with moon face and Ladies' Calendar Watches and other Novelties in the Watch line. Representative: Messrs. Bechtold & Harter, Pforzheim, Western Germany, the largest Manufacturers of lever Watches. Representative: Messrs. Peter-uh-Rea, Rottweil, West Germany, one of the leading Alarm Clocks Manufacturers of Germany.

Phone : 29342 Grams : "TIMEHOUSE"



PRIVATE LTD.

90, Abdul Rehman Street, BOMBAY 3

Leading Importers, Wholesalers and Retailers of

★ WATCHES, CLOCKS & TIME-PIECES

Agents for : **German Watch Cleaning Machines**

TRADE ENQUIRIES INVITED

Jamshedji Nowroji & Co.—90, Abdul Rehman Street, Bombay 3. Phone : 33082. Grams : "TIMEHOUSE".

Jawahir Watch Co.—Opp. Western Rly. Station, D'Silva Road, Dadar, Bombay 14.

Jayco Watch Co.—Opp. Crawford Market, Oomrigar Building, Bombay 3.

Jhaveri Bros. & Co.—Medows Street, Fort.

Jhaveri Watch Co.—62, Abdul Rehman Street, Bombay 3.

Kerala Watch Co.—King Edward Road, Parel, Bombay 12.

KOTHARI WATCH CO.—199A, Princess Street, Bombay 2. Manufacturers' Representatives and Importers of Watches, Timepieces, Clocks and Spare Parts.

LAWRENCE WATCH CO.—211, Bazargate Street, Near Parsi Temple, Fort, Bombay 1. Phone : 264318. Grams : "HAIR-SPRING". Repairing is our Speciality.

Leon Watch Co.—20, Abdul Rehman Street.

LOKAMANYA WATCH CO.—26-C, Gunbow Street, Fort. Importers of Lowaco & Kisan Watches. Phone : 264378.

Lund & Blockley Ltd.—Sassoon Institute Building, 150-154, Mahatma Gandhi Road, Fort.

Maganbhai & Lallubhai.—184-186, Sheikh Memon Street, Bombay 2. Phone : 23785. Grams : "MOTIBUTTON."

MERIDIAN WATCH CO.—269, Dr. Dadabhai Naoroji Road, Fort, Bombay 1. Phone : 263096. Grams : "MERIDIAN." Official Agents for "OMEGA" and "TISSOT" Watches.

Nazar Watch Co.—320, Abdul Rehman Street, Bombay 3.

Novelties, The.—Hughes Road, Bombay.

ORIENTAL WATCH & GRAMOPHONE CO., THE.—218E, Tulsi Pipe Road, Opp. Western Rly. Station, Dadar, Bombay 28. Phone : 62039. Grams : "TIKAM", Bombay-Dadar.

Packard Watch Co.—52-54, Nakhoda Street, near Pydhownie.

Parekh Watch Service.—375-77, Sandhurst Road, Bombay.

PARSRAM & SONS.—Nafees Chambers Annexe, Carnac Road, Fort, Bombay 1. Phone : 26-3056. Grams : "REFERFEE". Direct Importers, Wholesalers and Retailers of Watches, Clocks, Timepieces & spare parts.

Peoples Watch Co., Ltd.—177, 179A, Dr. Dadabhai Naoroji Road, Fort, Bombay 1. Direct Importers of Watches, Clocks and Alarm Clocks, Spare Parts and Straps. Branch : Rathikatra, Nai Sadak, Delhi. Grams : "SUNDIAL."

PHOENIX WATCH CO. (Estd. 1930).—Showroom : 169, Dr. Dadabhai Naoroji Road. Office : 166, Dr. Dadabhai Naoroji Road, Fort, Bombay 1. Phone : 263433. Grams : "NEWTEX." Branches : Calcutta 1 ; Delhi 6. Representatives in India for : Enicar, S.A., Longman, Switzerland, Buren Watch Co. S.E., Buren S./A., Switzerland, Wehrle Uhrenfabrik, G.m.b.H., Schoenwald, Black Forest, West Germany. (for famous Wehrle alarm Clocks and Clocks).

Pioneer Watch Co.—89, Abdul Rehman Street, Bombay 3.

Popular Watch Co.—Near Western Rly. Station, Ranade Road, Dadar, Bombay 14.

Prabhat Watch Co.—Prarthana Samaj Corner, Bombay 4.

Precious Watch.—233, Hornby Road, next to Kemp & Co., Fort.

Pundole Watch Co.—Opp. Lloyds Bank, 268, Hornby Road, Fort. Dealers in Watches, Clocks, Timepieces and Jewellery.

Record Watch Company.—167, Hornby Road, Fort, Bombay.

REPUBLIC WATCH CO.—93, Narayan Dhuru Street, Bombay 3. Grams : "TRADETELL."

Rogers Watch Co.—Prospect Chambers, Hornby Road, Fort, Bombay.

Rolex Watch Company (Eastern) Ltd.—123, Mahatma Gandhi Road, Fort.

SANGHVI WATCH CO.—Khandelwal Bhavan, 170, Dr. Dadabhai Naoroji Road (Hornby Road), Fort, Bombay 1. Phone : 263738. Grams : "DICTATOR." Branch : 47, Abdul Rehman Street, Bombay 3. Phone : 22964. Direct Importers, Wholesalers and Retailers in Watches, Clocks and Timepieces.

Saxonia Watch Co.—Kermani Building, Sir Phirozshah Mehta Road, Fort.

Shakti Watch Co.—48, Abdul Rehman Street, Bombay 3.

SHREE BOMBAY WATCH CO.—160, Dr. Dadabhai Naoroji Road, Bombay 1. Phone : 262694. Grams : "SHRIBOW." Our famous Trade Marks : Shritex, Selecta, Shribow-Alarm-Sovereign, Clocks-Shriman-Seven Stars, Sundar, Sparrow-Saturn, Jalpari.

Spencer Watch Co.—Mehta Building, Medows Street, Fort.

SWISS INDIA WATCH CO.—(Props. : G. Bhagat & Sons), 457, Kalbadevi Road, Bombay 2. Phone : 23732. Grams : "WATCHDEPOT". Direct Importers & Wholesale Dealers in Watches, Clocks & Timepieces.

Trinity Watch Co.—46A, Abdul Rehman Street, Bombay 3.

Unita Watch Co.—37, Yusuff Building, Mahatma Gandhi Road, Fort.

Vaswani (India) Ltd.—496, Kalbadevi Road, Bombay 2.

VOG & CO.—Empire Building, Dr. Dadabhai Naoroji Road, Bombay 1. Phone : 264108. Grams : "VOGSTRAPS." Manufacturers of quality Watch Straps, Bracelets in Nylon, Stainless Steel & Rolled Gold & Clocks.

West End Watch Co.—49, Mahatma Gandhi Road, Fort, Bombay. Tel. Address : "HOROLOGY," Phone No. 255641 (Bombay).

WILSON WATCH CO.—144, Hornby Road, Fort, Bombay. Phone : 261333. Grams : "WILSONTIME".

WATCH STRAPS & BRACELETS MANUFACTURERS

REFLEX SALES CORPORATION.—31/33, Khara Kuwa, Zaveri Bazar, Bombay 2. Grams : "PRABHUMAYA" Manufacturers & Distributors of 'Reflex' brand Stainless Steel & Rolled Gold Watch Bracelets.

VOG & CO.—Empire Bldg., Dr. Dadabhai Naoroji Road, Bombay 1. Phone : 264108. Grams : "VOGSTRAPS". Manufactures of quality Watch Straps, Bracelets in Nylon, Stainless Steel & Rolled Gold & Clocks.

WATER COOLERS

STAR FREEZ INDUSTRIES.—98, Marine Drive, Parijat, Behind Marine Lines Station, Bombay 2. Phone : 241332. Refrigerators, Air Conditioners & Manufacturers of Water Coolers, Ice-Cream Machines, Cold Storage rooms, etc.

WATER METERS

Fleming, John, & Co., Private Ltd.—P. B. No. 76, Bombay 1. Phone : 261153.

GAYTEE & COMPANY.—Janmabhoomi Chambers, Fort Street, Fort, Bombay. Grams : "IMPENG." Phone : 26-3449.

Glenfield & Kennedy Ltd.—198, Jamshedji Tata Road, Bombay 1.

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James Finlay & Co., Ltd.—Mahatma Gandhi Road, Bombay 1.

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Himco (India) Private Ltd.—Kurla Road, Andheri, Bombay 41.

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Kantilal Sanghvi & Co.—Mherwan Building, Sir Phirozshah Mehta Road, Fort.

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Laxmi Engineering Stores.—154, Kadakia Mansion, Narayan Dhuru Street, Bombay 3.

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RELIABLE ENGINEERING CO.—132, Reay Road, Bombay 10. Manufacturers of all sorts of Woodworking Machineries, Band Saws, Planers, Sharpeners etc.

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Bombay Co., Ltd.—9, Wallace Street, Fort.

Faiz & Company.—75, Abdul Rehman Street, Bombay 3.

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Hashambhoy Aloo Mahomed & Son.—Doshmahomed Building, Nishanpada Road, Khadak, Bombay 9.

Husein Mussa Virjee & Co.—Sheriff Hasam Building, Khoja Moholla, Bombay 9.

Mahomedali Esmail.—Stock Exchange Building, Apollo Street, Fort.

Premji Haribas & Co.—Bhanushali Chambers, Argyle Road, Bombay 9.

Sethia R. K. (India) Ltd.—Himalaya House, Palton Road, Bombay 1.

Sheralli Nanjee.—178, Samuel Street, Vadgadi, Bombay 9.

Shree Krishna Trading Co. Ltd.—11, Alli Chambers, Medows Street, Fort.

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Nagpal Woollen Mills.—Darukhana, Reay Road, Mazagaon.

P. Parbhulal & Co. Ltd.—Metropolitan Assurance Building, Hornby Road, Fort.

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Arvinda Trading Co. Private Ltd.—105, Apollo Street, Fort.

Askay & Co. Ltd.—Great Social Building, Sir Phirozshah Mehta Road, Fort.

Beardsell, W. A., & Co., Ltd.—15-16, Sir Phirozshah Mehta Road, Fort.

Cawnpore Mills Depot.—Churchgate House, Churchgate Street, Fort.

Dadiani Silk Stores.—24, Lansdowne Road, near Regal Cinema, Apollo Bunder.

Eastern Woollen Mills Ltd.—Bhavanishanker Road, Dadar, Bombay.

Godambe Bros.—Buona Casa, Sir Phirozshah Mehta Road, Fort.

GOOLAMALLY HASANJEE (ESTD. 1889).—76, Sheriff Dewjee Street, Bombay 3. Phone: 30960. Grams: "WARMCLOTH."

Gore & Co.—Great Social Building, Sir Phirozshah Mehta Road, Fort.

Grand Bazar.—25, Colaba Causeway, Bombay 1.

Hardacre & Co., J.—41, Hamam Street, Fort.

Hasarat & Co.—People's Building, Sir Phirozshah Mehta Road, Fort.

Jagkumar & Co.—Prospect Chambers Annexe, 312/19, Hornby Road, Fort.

Jivandas Bhanaji & Co. (Estd. 1925).—Dwarkesh Galli, Mulji Jetha Market, Bombay 2.

Jivraj, A. M., & Co.—171, Khoja Mohalla, Bombay 9.

Kanshi Ram Kidar Nath.—Vulcan Insurance Bldg., Veer Nariman Road, Bombay 1.

Kapaid & Co.—19, Sir Phirozshah Mehta Road, Fort, Bombay 1.

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K. Metharam.—490-8, Kalbadevi Road.

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Mansukhlal & Co.—Chandra Chowk, 2nd Lane, Mulji Jetha Market, Bombay 2.

P. Parbhulal & Co., Ltd.—Whiteaway Laidlaw Building, Hornby Road, Fort.

P. R. Patell & Co., Ltd.—Mherwan Building, Sir Phirozshah Mehta Road, Fort.

Raymond Woollen Mills Ltd., The.—Thana (C.R.), Bombay.

Roshanalli D. Nassur & Co.—68-72, Champagalli.

Rowe & Rowe.—381, Hornby Road, Fort.

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SHARAFALLY LOOKMANJI & SONS (ESTD. 1898)—67, Chakla Street, Bombay 3. Phone: 30810. Grams: "SARAFSO".

Shree Krishna Trading Co., Ltd.—11, Alli Chambers, Tamarind Lane, Fort.

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V. JAMNADAS & CO.—91-92, Mangaldas Market, 2nd Lane, Bombay 2. Phone: 28789. Grams: "VIJAWOOL". Direct Importers, Wholesale & Retail dealers in woollen, Cotton & Silk Piecegoods.

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Agra Engineering Co.—84, Apollo Street, Fort, Bombay 1

HINDUSTAN ENGINEERING CO.—(Machinery Dept.) 25, Ropewalk Street, Rampart Row, Fort, Bombay 1. Telephone: 253583. Grams: "VIDOOALL". Dealers in Imported and Indigenous Lathes, Lathe Chucks, Drilling, Hacksaws, Grinding, Shaping, Shearing Machines and Power Press, etc.

X-RAY AND ELECTRO-MEDICAL EQUIPMENT

Craftsman Electronic Corporation Ltd.—Alice Building, Hornby Road, Bombay.

EAST ASIATIC CO. (INDIA) PRIVATE LTD., THE.—Sole Agents: Siemens, Reiniger Werke AG. Germany. Shreenivas House, Waudby Road, Bombay. Phone: 26-2711 (8 lines). Offices at Madras, Calcutta, New Delhi, Nagpur, Lucknow, Bangalore, Secunderabad, Trivandrum.

Fairdeal Corporation Ltd., The.—Lakshmi Building, Sir Phirozshah Mehta Road, Fort.

Forbes, Forbes Campbell & Co. Private Ltd.—Forbes Building, Home Street, Fort.

Gordhandas Desai Private Ltd.—Kermani Bldg., Sir P. M. Road, Bombay 1.

Malgham Bros.—26, Old Custom House Road, Fort.

Sethisons International Ltd.—12, Rampart Row, Fort.

SHAH, M., & CO.—Kanji Mansion, Sandhurst Road, Bombay 4.

X-RAY FILMS AND ACCESSORIES

EAST ASIATIC CO. (INDIA) PRIVATE LTD., THE.—Sole Agents: Siemens Reiniger Werke AG. Germany. Shreenivas House, Waudby Road, Bombay. Phone: 26-2711 (8 lines). Offices at Madras, Calcutta, New Delhi, Nagpur, Lucknow, Bangalore, Secunderabad, Trivandrum.

ILFORD-SELO (INDIA) PRIVATE LIMITED.—Cook's Building, Dr. Dadabhai Naoroji Road. Branches: Calcutta, Madras, New Delhi.

X-RAY MACHINERY IMPORTERS

Craftsman Electronic Corporation Ltd.—Alice Building, Hornby Road, Bombay.

EAST ASIATIC CO. (INDIA) PRIVATE LTD., THE.—Sole Agents : Siemens Reiniger Werke AG. Germany. Shreenivas House, Waudby Road, Bombay. Phone : 262711 (6 lines). Offices at Madras, Calcutta, New Delhi, Nagpur, Lucknow, Bangalore, Secunderabad, Trivandrum.

Gordhandas Desai Private Ltd., Kermani Bldg., Sir P. M. Road, Bombay, 1.

General Radio & Appliances, Ltd. (Formerly Fazalbhoy Ltd.).—16, New Queen's Road, Bombay 4.

YARN MERCHANTS & EXPORTERS

Ahmed Ebrahim Bros.—88, Chuckla Street, Bombay 3.

Allied Exporters.—Kummud House, 267, Hornby Road, Fort.

Almeida J. C.—National Insurance Building, 1st Floor, 27, Bastion Road, Bombay.

Amratlal Hiralal & Co.—37-41, New Vora Building, Tambakanta, Bombay 3.

Arthur Import Export Co. 166, Hornby Road, Fort, Bombay. Phone : 33076. Gram : "FABYARN."

Arvinda Trading Co. Private Ltd.—105, Apollo Street, Fort.

Asahi Chemical Distributing Company National Insurance Building, 1st Floor, 27, Bastion Road, Fort, Bombay. Phone : Office : 263708

Askay & Co. Ltd.—Great Social Building, Sir Phirozshah Mehta Road, Fort.

Aspdens Ltd.—Prince's Chambers, Colaba Road, Colaba.

Beardsell & Co., Ltd., W. A.—15/16, Sir Phirozshah Mehta Road, Fort.

DARSHNIMAL TANDON & CO.—Victoria Building, Parsee Bazar Street, Fort, Bombay. Grams : "SEWAKUNJ." Phone : 254995. Importers of all Kinds of Yarns. Specialists in all Kinds of Woollen Yarns and Silk Yarns Indian and Foreign. Exporters of Silk Wastes and Goat hair, Cotton Waste, Rayonwaste & Hides & Skins & all types of Textiles. Branch : Tandon Building, Bazar Sabunian, Amritsar.

David Sassoon & Co., Ltd.—Manekji Wadia Building, 127, Mahatma Gandhi Road, Fort.

Eastern Trading Co.—Mahakali Chawl, Pydhonie, Bombay 3.

Firoz Trading Co. Ltd.—Kamar Building, Cawasji Patel Street, Fort.

Gorakhram Gokalchand (Estd. 1891).—Chokal Chambers, Zaveri Bazar, Bombay 2.

Gore & Co.—Great Social Building, Sir Phirozshah Mehta Road, Fort

Gurdial Naraindass & Co.—Patel Building, New Silk Bazar, Bombay 2.

Harbaeri & Co., J. Himalaya House, Palton Road, Bombay 1

Hazarat & Co.—Warden House, Sir Phirozshah Mehta Road, Fort

Herbertsons Ltd.—11/13, Elphinstone Circle, Fort.

Hindersingh & Co.—36, Abdul Rehman Street, Bombay 3.

Hind Trading Co.—Alli Chambers, Tamarind Lane, Fort.

Hindustan Export & Import Corpn. Ltd.—Albert Building, Hornby Road, Fort.

H. V. M. Moosa Motiwalla & Sons, Ltd.—91, Mahomedally Road, Bombay 3.

Indindia Cotton Co., Ltd.—(Estd. 1922), Indian Globe Chambers, Fort Street, Fort, Bombay.

Jay Bharat Yarn Trading Co.—Tambakanta, Pydhonie, Bombay 3.

Jayashankar Nathalal & Co.—5, Alli Chambers, Tamarind Lane, Fort.

Jehangir J. M. Poonjiajee.—Byramjee Mansion, Sir Phirozshah Mehta Road, Fort

Kanshi Ram Kidar Nath.—Vulcan Insurance Building, Churchgate Street, Bombay.

Kapadia Trading Co.—Botawalla Building, New Silk Bazar, Kalbadevi Road, Bombay 2.

Kavarana, E. F., & Co.—Botawala Building, Bomanji Master Road, Bombay 2.

Keshavji Virji & Co.—8, Elphinstone Circle, Fort.

KESHAVLAL TALAKCHAND (PRIVATE) LTD.—India House, Opp. G.P.O., Fort, Bombay 1. Phone : 261982. Grams : "CHANDRODAY." Branches at Ahmedabad, Sholapur, Coimbatore, Madras and Salem. Agencies at London, Manchester and Addis Ababa.

Khurya Company Ltd.—Head Office : Beaumon Chambers, 27/33, Medows Street, Fort.

Kilachand & Co. (India).—138, Hornby Road, Fort.

Kusk & Co.—Menkwa Building, Outram Road, Fort.

Kuz & Co.—Podar Chambers, Parsi Bazar Street, Fort.

K. Motilal & Co.—Sayee Building, 143, Princess Street, Bombay 2.

Latham Abercrombie & Co. Private Ltd.—Forbes Building, Home Street, Fort.

L. N. Mehta & Sons.—Laxmi Building, Sir Phirozshah Mehta Road.

Mehta & Co., P. N.—Cook's Building, 324, Hornby Road, Fort.

Madhavlal, S., & Co.—Noble Chambers, Parsi Bazar Street, Fort.

Maganlal Parbhudas.—Nakhoda Street, Pydhonie.

Mahendrakumar & Co.—Central Bank Building, Esplanade Road, Fort.

Manekji & Co.—17, Gunbow Street, Fort.

Manubhai Gokaldas.—89, Old Vora Mala, Tambakanta, Bombay 3.

Moosawalla, H. V. M., & Sons, Ltd.—Rangwalla Building, 91, Mahomedally Road, Bombay 3.

Morarji Veljl & Sons.—7, Kolbhat Street, Post Box 2001, Bombay 2.

Pannalal Ramdaval Chindak.—153, Princess Street, Bombay 2.

Pavri Sons & Co.—93/97, Bazargate Street, Fort.

Pestonjee, B. N.—Halcyon Lodge, Vaccha Gandhi Road, New Gamdevi, Bombay 7.

Podar Trading Co., Ltd.—Podar Chambers, Parsi Bazar Street, Fort.

Prabhadbhai Nagarbhai.—386, Linking Road, Khar, Bombay 21.

Ramchand Ambiram.—Above Govind Chowk, M. J. Market, Bombay 2.

Ramdas Khimji Bros.—Warden House, Sir Phirozshah Mehta Road, Fort.

Ramkisandas Sagarmal.—Kalyan Bhuvan, 354, Kalbadevi Road.

Rangoonwalla, H. N.—Rangoonwalla Building, 91, Mohammedally Road.

Ratilal Dahyabhai Shah.—Hanuman Building, Tambakanta, Pydhonie, Bombay 3.

SANKALCHAND G. SHAH & CO. PRIVATE LTD.—Hanuman Building, Tambakanta, Bombay No. 3. Tel. Nos. 20765 & 23353. Grams : "FORCE". All kinds of yarns including cotton yarns, woollen yarns, artificial silk yarns. Branches : Ahmedabad, Amritsar, Ludhiana, Hoshiarpur, Madras, Calcutta, London, etc.

Sapt Textile Products (India) Ltd.—Sapt Building, Graham Road, Ballard Estate.

SHAMSUNDER KHANNA & SONS PRIVATE LTD.—81, Dadaji Dackjee Bldg., Worli, Bombay 18. Phone : 75282. Grams : "NYLOCREPE". Importers, Exporters & Agents. Dealing in Cotton, Rayon & Synthetic Yarns.

Sorabji Nowroji & Co.—16, Horniman Circle, Fort.

Star Rope Works, The.—87, Sun Mill Road, Lower Parel, Bombay 13.

Subodhchandra Popatlal.—(Estd. 1915) Exporters & Importers, 223-25, Sheikh Memon Street, Bombay 2

Suchin & Co.—65, Lakshmi Building, Sir Phirozshah Mehta Road, Fort.

Surat Yarn Exchange Co.—141, Princess Street, Bombay 2.

Tavaria Brothers.—Dhun Nur, Sir Phirozshah Mehta Road, Fort.

Textile Works Ltd.—49-55, Apollo Street, Fort.

Vadilal Vrajlal & Co.—Peerbhoy Building No. 2, 89, Princess Street, Bombay 2.

Western Link Co.—19, Bank Street, Fort.

Yacoob Ahmed Brothers.—Tojiwalla Mansion, Mohamedally Road.

Yarn Trading Co.—95, Tamba Kanta, Bombay 3.

ZINC SHEET

Non-Ferrous Metal Refinery.—5, Chintamani Temple Building, 2nd Bhojwada, Bombay 2.

ZIP FASTENER MFRS.

FLEET FASTENERS (PRIVATE) LTD.—Dahanukar Building, 480, Kalbadevi Road, Bombay 2. Phone : 27-511. Grams : "FLEET FAST". Manufacturers of Fleet—the Quality Zipper.

HOME INDUSTRIES CORPORATION.—64, Commercial Chambers, Masjid Bunder Road, Bombay 3. Phone : 34997. Grams : "DESIHUNAR." Mfrs. of Zip Fasteners of all sizes and lengths.

L. R. TRADING CO.—Manufacturers of 'FLASH' Zip Fasteners, Navsari Chambers, Outram Road, Fort, Bombay 1. P.O. Box 72. Phone : 263141 & 264073. Grams : "SHAMANICO".

Madhu Fasteners Co.—Sanghavi Chambers, 27, Ghoga Street, Fort, Bombay.

AHMEDABAD DISTRICT

Headquarters : Ahmedabad.

Talukas or Mahals : Daskroi, Dhandhuka-Ranpur, Dholka, Dehgam, Viramgam, City Taluka, Sanand.

A District in Gujarat belonging to the Gujarat Division of Bombay State it lies between North Latitude 28° 23' and 23° 37' and East Longitude 71° 21' and 70° 28'. It is bounded on the north by Mehsana and Sabarkantha Districts, on the west by Zalawad District, on the south by Gohilwad District and on the east by Kaira. The total area of the District is 3,529 sq. miles. The population is 1,685,630. The language spoken is Gujarati.

In the extreme south of the District and also just beyond the northern boundary are a few rocky hills. But between these two points the whole District forms a level plain, gradually rising towards the north and east. The chief physical feature is the river Sabarmati which rises in the north-east, near the extremity of the Aravalli Range and flows towards the south-west falling finally into the Gulf of Cambay.

The District as a whole is open and poorly wooded. The chief trees are mango, rayan, mahua and nim. Many of the trees and shrubs supply food, medicines and material for dyeing and tanning.

The rainfall varies but slightly between the central portions of the District and the outlying tracts. The annual rainfall averages about 30 inches.

The principal towns in the District are besides Ahmedabad, Viramgam, Dholka, Daskroi, Dhandhuka, Dholera, Dehgam and Sanand. Dehgam taluka has been selected for development under the village extension services scheme.

The chief food crops are wheat, jowar and bajra and the chief money crop, cotton. The best rice is grown in Daskroi and the next best in Sanand and Dholka. The cotton which has a good staple is mainly grown in the Dhandhuka and Dholka Talukas. In Daskroi and Dholka many garden crops are also grown.

Ahmedabad city which is the second biggest textile centre in India is the only large industrial area in the District. The number of textile mills and factories is about 150 including 71 textile mills. Ahmedabad is also a centre of railway communications. One line from Ahmedabad goes south-east to Baroda and Bombay; another goes south to Dholka; a third goes west to Viramgam where it joins the Saurashtra railway system; a fourth goes north-east through Parantij; and a fifth north through Palanpur and Ajmer. Ahmedabad has also a number of archaeological landmarks.

With the establishment of the Gujarat University, Ahmedabad has become an important educational centre. It has over 21,000 alumni in Gujarat, Saurashtra and Kutch. The Ahmedabad Textile Industry's Research Association is the first institute of its kind in the whole of India. Ahmedabad is linked by air with Bombay, Jaipur, Delhi and Karachi.

The population of Ahmedabad City according to the 1951 census is 788,333. Ahmedabad Corporation was established in 1950

OFFICIALS

District Magistrate and Collector, Ahmedabad, F. J. Heredia, I.A.S.
Additional Collector, K. J. Dewan, I.A.S.
District and Sessions Judge, L. P. Dave.
District Superintendent of Police (City), N. H. Sethna, I.P.S.
District Superintendent of Police (Rural), J. A. Fanse.

AHMEDABAD MUNICIPAL CORPORATION

Mayor : Chinubhai Chimanlal Seth, B.A.
Deputy Mayor : Chandrakant Chhotalal Gandhi, B.A., LL.B.

Ward numbers and the names of members representing those Wards :

Ward No. 1 : Occhavlal S. Talati ; Krishnalal T. Desai ; Ramniklal S. Inamdar ; *Ward No.* 2 : Jesingbhai B. Vakil ; Martandrai G. Shastri ; Ramanlal Vadilal ; *Ward No.* 3 : Chinubhai Chimanlal Seth (*Mayor*) ; Chandrakant C. Gandhi (*Deputy Mayor*) ; Daudbhai Hasambhai ; Narottam Chandulal ; Prabodhchandra C. Rawal ; *Ward No.* 4 : Ghulam Mohiuddin; Rajabhai Munshi ; Natwarlal Nathalal ; Narottamdas K. Zaveri ; Maneklal N. Patel ; Somabhai Chhakadbhai ; *Ward No.* 5 : Manubhai H. Palkhiwala ; Vishwabandhu P. Desai, Jafferhussein Ismailbhai ; Bhagwatiprasad Ranchhodlal ; Chimanlal Maneklal ; *Ward No.* 6 : Punjalal Jethalal ; Smt. Kusumben Panachand ; Vasudev N. Tripathi ; Ishwerlal M. Bhavsar ; Samsuddin Gulamnabi ; *Ward No.* 7 : Atmaram Lallubhai ; Hariprasad N. Vyas ; Kantilal L. Parikh ; Ganibhai Sultanji ; Kasamji Jamalji ; *Ward No.* 8 : Nechardas V. Chavda ; Ranjankumar K. Nanavaty ; Ibrahim Rehmanji ; Rajnikant Chandulal ; *Ward No.* 9 : Jayantilal Bhikabhai ; Dahyabhai Kalidas ; Somabhai Lallubhai ; *Ward No.* 10 ; Gemarbhai Ranchhodbhai ; Smt. Pushpavati Kantilal ; Mulsingh Dhulaji ; Lakhaji K. Thakore ; *Ward No.* 11 : Ganpatbhai T. Jadhav ; Prahladbhai Jijibhai ; Madhavlal M. Patel ; Jhinabhai T. Patel ; Mangaji Mathurji ; *Ward No.* 12 : Ramanlal M. Parkar ; Harilal Ranchhodlal ; Budhabhai Chimanlal ; Natwarlal Chunilal ; Shambhubhai S. Patel ; *Ward No.* 13 : Laibhai Fakirbhai ; Jethalal Narsibhai ; Jeevanlal Jamnadas ; Udaising Dhansing ; *Ward No.* 14 : Magan M. Parmar ; Kantilal N. Patel ; Ismailbhai B. Mansuri ; Umarbhai Yakubbhai ; *Ward No.* 15 : Virsinh Muljibhai Jadhav ; Smt. Kusumben Manilal ; Alabaksh Noorbhai ; Arvindkumar J. Saheba.

The civic elections in Ahmedabad are held quadrennially. The first elections were held in March 1952, the second in April 1957.

The electorate of 3,79,000 is divided into 15 wards. The percentage of votes cast was 44, in the elections. The ruling party, the Congress did not contest the elections. The Nagrik Paksh, obtained 47 out of the 64 seats, Independents got 17.

CHAIRMEN OF THE COMMITTEES

Standing Committee, Ramniklal Sundarlal Inamdar ; *Education and Cultural Committee*, Natverlal Nathalal Vakil ; *Refuse and Scavenge Committee*, Jesingbhai Bhogilal Vakil ; *Health Committee*, Jayantilal Bhikhabhai Sheth ; *Public Works Committee*, Narottamdas Keshavlal Zaveri ; *Town Planning Committee*, Dahyabhai Kalidas Patel ; *Legal Committee*, Chandrakant C. Gandhi ; *Transport Committee*, Narottamdas C. Sheth ; *Chairman, School Board*, Krishnalal T. Desai.

ADMINISTRATIVE PERSONNEL

Municipal Commissioner : K. M. Kantawala, B.S.E. (Class I)
Deputy Municipal Commissioners : A. S. Thakore, B.A. ; N. H. Thakkar, M.Com., LL.M.
Municipal Secretary : M. K. Adhyaru, B.A. (Hons.), L.S.G.D.
Chief Accountant : N. V. Parikh, B.Com.
Town Development Officer : P. J. Patel, B.E. (Civil).
Estate and City Improvement Officer : J. T. Patel, B.E. (Civil).
City Engineer : M. J. Kakkad, A.M.I.C.E.
Medical Officer of Health : Dr. A. P. Dikshit, M.B.B.S., D.Ph.
Chief Auditor : S. K. Patel, B.Sc.
Maintenance Engineer and P. A. to City Engineer : Manibhai M. Patel, B.E. (Civil), A.M.I.E.
Supdt., Seth Lallubhai Gordhandas General Hospital : Dr. N. R. Desai, M.B.B.S., F.R.C.S.
Supdt., Sheth Vadilal Sarabhai General Hospital : Dr. M. D. Desai, M.D.
Chief Officer, Fire Brigade : J. K. Munshi, A.G.I.C.D.

EDUCATIONAL INSTITUTIONS

GUJARAT UNIVERSITY

(Ahmedabad)

The Gujarat University is a Teaching and Affiliating University established in 1949 under an act of the State Legislature and incorporated by the Bombay Government in November 1950.

The Affiliated Colleges and Recognised Institutions are:—The H. L. College of Commerce, Navrangpura, Ahmedabad 9; The L. D. Arts College and M.G. Science Institute, Navrangpura, Ahmedabad9; The L. M. College of Pharmacy, Navrangpura, Ahmedabad 9; The L. D. College of Engineering, Navrangpura, Ahmedabad 9; The Gujarat College, Ellis Bridge, Ahmedabad 6; Sir Lallubhai Shah Law College, Ellis Bridge, Ahmedabad 6; The B. J. Medical College, Asarwa, Ahmedabad 11; The J. & J. College of Science and C. B. Patel Arts Institute, Nadiad; The Petlad College, Petlad; The S. B. Garda College and B. P. Barla Science Institute, Navsari; The M.T.B. College, Athwa Lines, Surat; The K. P. College of Commerce, Athwa Lines, Surat; The Sarvajanik Law College, Civil Lines, Surat; The M. N. College, Visnagar, Dist. Mehsana, N. G.; The Samaldas College, Bhavnagar; The Bahauddin College, Junagadh; The Dharmendrasinhji College, Rajkot; The M. J College of Commerce, Bhavnagar; Lukhdhirji Engineering College, Morvi, Saurashtra; A. G. Teachers' College, Navrangpura, Ahmedabad 9; Darbar Gopaldas Mahavidyalaya, Aliabada (Halar); The Ramji Ravji Lalan Intermediate College, Bhuj (Kutch); The Intermediate College for Women (Mahila Maha Vidyalaya), Porbandar; The Jayendrapuri Arts and Science College, Broach; The Ramanand Mahavidyalaya (Arts College) "Shantisadan", Mirzapur Road, Lal Darwaja, Ahmedabad; The Shreyas Arts and Science College, Khajuri Bunglow, Shahibag Ahmedabad; The St. Xavier's College, Ellis Bridge, Ahmedabad 6; The A. M. Parekh Law College, Rajkot; The M. P. Shah Medical College, Jamnagar; The Ranuba Graduate Teachers' College, Porbandar; The Balabhai Damodardas Arts College, Sankdi Sheri, Ahmedabad 1; The Sarvodaya Kelavani Mandal Arts College, City Mill Compound, Kankaria Road, Ahmedabad; The B. M. Shah Intermediate Arts College, Bhavnagar; The D. K. V. Arts and Science College, Jamnagar; The M. P. Shah Arts and Science College, Surendranagar; The Sheth H. A. College of Commerce, Ellis Bridge, Ahmedabad 6; The Prakash Arts College, Tilak Road, Ahmedabad; The Ayurvedic Mahavidyalaya, Jamnagar; The P. W. Malaviya College of Commerce, Rajkot; Shri Nutan Kalarani Mandal Arts and Science College, Bulsar.

Recognised Institutions:—Sheth Bholabhai Jeshingbhai Institute of Learning and Research, Bhadra, Ahmedabad; The Physical Research Laboratory, Navrangpura, Ahmedabad 9; Sheth Vadilal Sarabhai General Hospital and Sheth Chinai Maternity Home, Ellis Bridge, Ahmedabad; The Ahmedabad Textile Industry's Research Association, Navrangpura, Ahmedabad 9; The B. M. Institute of Psychology and Child Development, Ellis Bridge, Ahmedabad.

The Senate ordinarily meets once a year on a date fixed by the Chancellor and at such other times, as may be convened by the Vice-Chancellor. A meeting of the Senate must also be convened on a requisition by twenty-five members of the Senate.

There are eight Faculties, *viz.*, Arts including Education, Science, Technology including Engineering, Agriculture, Law, Medicine, Commerce and Ayurvedic Medicine. The executive powers vest in the Syndicate and the Academic Council is the chief Academic body of the University.

Ordinarily the period of the tenure of office of members of the Senate is five years, and that of the members of the Syndicate and the Academic Council is three years.

Chancellor.—Sri Prakasa, B.A. (Allahabad), B.A., LL.B. (Cantab.), Bar-at-Law.

Vice-Chancellor.—M. P. Desai.

Registrar.—K. C. Parikh, M.A., LL.B.

Librarian.—K. R. Desai.

Accountant.—B. M. Patel, B.Com., A.C.A.

Chief Medical Officer.—K. A. Shah, M.B.B.S.

Director of Physical Education.—V. P. Mehta, B.Sc., Dip. Phy. Ed.

Director, University School of Social Sciences.—B. R. Shenoy, M.A. (Banaras), M.Sc. (Econ.) (Lond.).

Director, University School of Gujarati Language and Literature.—Umashanker J. Joshi, M.A.

Deans.—Prin. K. L. Desai, M.A., LL.B., B.A. (Cantab.), *Faculty of Arts including Education*; Dr. A. M. Trivedi, M.Sc., Ph.D. (Edin.), *Faculty of Science*; Prin. T. A. Desai, B.Sc. (Eng.), A.M.I.E., M.E.A., *Faculty of Technology including Engineering*; H. P. Shukla, B.A., LL.B., *Faculty of Law*; Dr. N. R. Desai, M.B.B.S. (Bom.), F.R.C.S. (Eng.), *Faculty of Medicine*; Prin. D. R. Samant, M.A., *Faculty of Commerce*; V. V. Vaidya, *Faculty of Ayurvedic Medicine.*

SENATE

EX-OFFICIO

Sri Prakasa, B.A. (Allahabad), B.A., LL.B. (Cantab.), Bar-at-Law (*Chancellor*); M. P. Desai (*Vice-Chancellor*); H. V. Divatia, M.A., LL.B. (*Ex-Vice-Chancellor*); Vacant (*Rector*); K. C. Parikh, M.A., LL.B. (*Registrar*); Mr. Justice J. C. Shah (*Nominated by the Chief Justice of Bombay*); Hitendra K. Desai, B.A., LL.B. (*Minister of Education, Bombay*); T. M. Advani, M.A., LL.B. (*Vice-Chancellor, University of Bombay*); Dr. R. P. Paranjpye, M.A. (Cantab.), D.Sc., D.Litt. (*Vice-Chancellor, Poona University*); Dr. J. M. Mehta, (*Vice-Chancellor, M. S. University of Baroda*); Dr. Premlila V. Thackersey, D.Litt. (*Vice-Chancellor, S. N. D. T. Women's University*); Bhailalbhai D. Patel, L.C.E. (*Vice-Chancellor, Sardar Vallabhbhai Vidyapith*); S. S. Bhandarkar, B.A. (Bom. and Lond.) (*Director of Education*); T. N. Tolani, B.E. (Mech.), M.I.E. (Ind.), M.R. San. I. (Lond.), (*Director of Technical Education*); Dr. D. P. Sethna, M.B.B.S. (Bom.), L.R.C.P. (Lond.), M.R.C.S. (Eng.) (*Surgeon-General*); S. P. Mohite, I.A.S. (*Director of Agriculture*); Dr. M. R. Mandlekar, D.I.C. Ph.D. (Lond.), (*Director of Industries*); C. J. Bhatt, B.E., S.M. (Civil) (*Chief Engineer with the Govt. of Bombay*); R. D. Joshi, B.Sc., A.I.F.C. (*Conservator of Forests*); Morarji R. Desai (*Vice-Chancellor, Gujarat Vidyapith*).

Heads of University Departments.—Prof. B. R. Shenoy, M.A. (Banaras), M.Sc. (Econ.) (Lond.) (*Director, University School of Social Sciences*).

Prof. Umashanker J. Joshi, M.A. (*Director, University School of Gujarati Language and Literature*).

The Principals of affiliated colleges are also ex-officio. For the list of affiliated colleges, see above.

Heads of Recognised Institutions.—R. C. Parikh, B.A. (Hons.); Dr. K. R. Ramanathan, M.A., D.Sc., F.N.I., Dr. M. D. Desai, M.S., F.R.C.S., M.Ch. (Orth.); Dr. T. S. Subramaniam, D.Sc.; Dr. H. P. Maiti, M.A. (Phil.), M.A. (Psy.)

Class II—Ordinary Members.—(*a*) (i) *Elected by Secondary Teachers of High Schools* (4), J. L. Mistry; G. B. Oza; J. D. Desai, B.Sc., B.T.; D. M. Shah, B.A., LL.B., B.T.; (*a*) (ii) *Elected by Headmasters of High Schools* (2), C. C. Shah, M.A., B.T., LL.B.; C. P. Patel, B.A. (*a*) (iii) *Elected by teachers in the Faculty of Arts including Education* (6), V. M. Shah, M.A.; J. S. Jetly, M.A., Ph.D., C. J. Patel, M.A.; Vishnuprasad R. Trivedi, M.A.; H. G. Shastri, M.A., Ph.D.; P. G. Mavlankar, M.A.; (*b*) *Elected by teachers in the Faculty of Science*, (6), Dr. Chhotubhai M. Desai, B.Sc., Ph.D.; Dr. Ashvinkumar M. Trivedi, M.Sc. (Bom.), Ph.D. (Edin.); Dr. C. D. Desai, M.Sc., Ph.D.; P. D. Pathak, M.Sc.; Vasudev A. Vyas, M.Sc.; Smt. Hemlata J. Kazi, M.Sc., Ph.D., F.A.I.C. (Lond.); (*c*) *Elected by teachers in the Faculty of Technology including Engineering* (4) P. S. Lele, B.E. (Mech.), B.E. (Elect.), A.M.I.E.; P. S. Kalwachwala, B.E. (Civil), A.M.I.E.; T. M. Parikh, B.E. (Civil), A.M.I.E.; M. M. Patel, B.E. (Mech.), B.E. (Civil), A.M.I.E. (India), A.M.E.A. (India); (*d*) *Elected by teachers in the Faculty of Agriculture* (2), Vacant; Vacant; (*e*) *Elected by teachers in the Faculty of Law* (2), M. S. Pandit, B.A., LL.B.; D. D. Desai, B.A., LL.B.; (*f*) *Elected by teachers in the Faculty of Medicine* (4), Dr. Sarosh P. Ankleseria, M.B.B.S., M.D.; Dr. Motibhai D. Patel, M.B.B.S., F.R.C.S. (Eng.), D.L.O. (Lond.); Dr. A. Daniel Joseph, M.B.B.S., F.C.P.S., M.D.; Dr. C. R. Mehta, M.Sc., Ph.D.; (*g*) *Elected by teachers in the Faculty of Commerce* (2), G. R. Desai, M.A.; K. M. Talati, M.A.; *Elected by Municipal School Boards of Authorised Municipalities* (2), C. C. Desai, A. B. Pandya; *Elected by District School Boards* (2), Vacant; Lallubhai H. Patel, M.A., LL.B.; *Elected by the Bombay Legislative Assembly* (4), R. T. Maniar, B.A. (Hons.), LL.B.; J. G. Dalal; J. G. Vaidya, B.A., LL.B.; K. V. Mehta, *Elected by the Bombay Legislative Council* (1), Prabhudas B. Patwari; *Elected by the Ahmedabad Millowners' Association* (1), Sheth Navnitlal S. Shodhan; *Elected by the Registered Trade Unions* (1), Somnath P. Dave, B.A., LL.B. *Elected by the Registered Graduates* (i) *under the Faculty of Arts including Education* (4), Sankalchand M. Shah, M.A.; Devendra J. Joshi, M.A.; Vacant; J. R. Desai; (ii) *under the Faculty of Science* (2), Yeshwant H. Divan, B.Sc.; Ranjit G. Shastri, B.Sc.; (iii) *under the Faculty of Technology including Engineering* (2), M. M. Patel, B.E. (Civil), A.M.I.E.; S. S. Divatia, B.E., I.C.E.; (iv) *under the Faculty of Agriculture* (2), D. J. Jhala, M.Sc. (Agri.); Vacant; (v) *under the Faculty of Law* (2), Batubhai H. Desai, B.A., LL.B.; Himatlal P. Shukla, B.A., LL.B.; (vi) *under the Faculty of Medicine* (2), Dr. Nanubhai R. Desai, M.B.B.S. (Bom.), F.R.C.S. (Eng.); Dr. Jitendra J. Desai, M.B.B.S.; (vii) *under the Faculty of Commerce* (2), Ambalal M. Naik, M.Com., LL.B.; Hariprasad V. Vasa, B.Com., LL.B., A.C.A.; *Elected by Donors* (5), B. K. Mazumdar, M.A., B. Com. (Lond.); B. Harivallabhdas; Mumubhai C. Patel; Arvindbhai N. Sheth, B.Sc. (Bom.); Shrenikbhai K. Sheth, B.S. (M.I.T., U.S.A.), M.B.A. (Harvard); *Elected by the Ahmedabad Municipal Corporation* (1), K. T. Desai, B.A., LL.B.

Nominated by the Chancellor (20).—Dr. R. M. Parikh, M.S., F.I.C.S.; Jadavbhai Keshavji Modi, B.A., LL.B.; G. C. Oza, B.A.; Balwantrai Gopalji Mehta, B.A.; Dr. Pranjivan M. Mehta, M.D., M.S., F.C.P.S., F.I.C.S.; Sheth Kasturbhai Lalbhai; Sheth

Amritlal Hargovandas, B.A., LL.B.; Popatlal G. Shah, M.A., B.Sc.; T. M. Desai, B.A.; Dr. Vikram A. Sarabhai, Ph.D.; Dr. Bhasker R. Patel, M.D., M.R.C.P., T.D.D.; Muldas B. Vajshya; Vallabhram V. Vaidya; N. L. Ahmed, M.A., B.Litt.; Prof. A. M. Raval, M.A.; L. C. Gandhi, M.A., LL.B., B.Sc.; Dr. N. H. Desai, M.B.B.S. (Bom.), M.D. (Lond.), M.R.C.P. (Lond.); B. P. Shah, B.A., LL.B.; Dr. H. D. Sankalia, M.A., LL.B., Ph.D. (Lond.); S. R. Vasavada, M.L.A.

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Elected by the Heads of the University Departments (1), Prof. U. J. Joshi, M.A.

Principals elected by the Principals of Colleges in the Gujarat University Area (4), L. R. Desai, B.A., B.T. (Bom.), T.D. (Lond.); S. V. Desai, M.S. (Columbia); Dr. K. G. Naik, M.A. (Bom.), D.Sc. (Lond.), F.R.I.C., F.N.I.; M. M. Thakore, B.A., LL.B. (O. S.).

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Other Members.—(i) *Three Representatives of Principals of Colleges in the Gujarat University area*, Prin. K. V. Desai, M.Sc.; Prin. J. B. Saudil, M.Sc.; Prin. M. M. Thakore, B.A., LL.B. (O.S.); *Three Representatives of Heads of Recognised Institutions*, Dr. K. R. Ramanathan, M.A., D.Sc., Director, Physical Research Laboratory; Dr. M. D. Desai, M.S., F.R.C.S., M.Ch. (Orth.), Superintendent, Sheth Vadilal Sarabhai General Hospital; R. C. Parikh, B.A. (Hons.), Director, Sheth B. J. Institute of Learning and Research.

BUDGET—1957-58

Income: Rs. 10·00 lakhs (Recurring).
Rs. 9·08 lakhs (Non-recurring).
Expenditure: Rs. 20·17 lakhs (Recurring).
Rs. 15·53 lakhs (Non-recurring).

B. J. MEDICAL COLLEGE
Ahmedabad

Principal & Professor of Anatomy: Dr. G. V. Barve, M.S., F.C.P.S.

GUJARAT COLLEGE
Ahmedabad

Oldest college in Gujarat; Government institution. Munificently donated by Sir Chinubhai Madhavlal, Baronet. Provides instruction in all courses leading up to M.A. and B.Sc. examinations, guides research for M.Sc. and Ph.D. students.

Principal: Dr. Y. G. Naik, M.Sc., Ph.D.

GUJARAT LAW SOCIETY H. A. COLLEGE OF COMMERCE
Ahmedabad

Principal: Mukundray C. Desai, B.A., LL.B., M.A. (Michigan—U.S.A.).

GUJARAT LAW SOCIETY LAW COLLEGE
Ahmedabad

Principal: Madhavprasad S. Pandit, B.A., LL.B., Advocate.

GUJARAT VIDYAPITH
Ahmedabad 13

Founded by Mahatma Gandhi in 1920. The Vidyapith strives to make basic education popular and was founded with the aim of providing university instruction in the mother tongue.

Chancellor: President Dr. Rajendra Prasad; *Vice-chancellor*: Morarji Desai, Minister for Finance, Govt. of India.

HARGOVANDAS LAKHMICHAND COLLEGE OF COMMERCE
Navrangpura, Ahmedabad 9

This college, started in 1956, is permanently affiliated to the Gujarat University for:—(*a*) Intermediate Commerce Examination; (*b*) B. Com. Examination in all subjects except Actuarial Science; (*c*) M. Com. Examination, and (*d*) Ph.D. in Economics.

Principal: S. V. Desai, M.S. (Columbia).

HAROLD LASKI INSTITUTE OF POLITICAL SCIENCE
Mavalankar's Haveli, Bhadra, Ahmedabad 1.

The Institute was inaugurated by late G. V. Mavalankar, Speaker of the Lok Sabha on 15th August 1954. It is an educational and non-partisan body, founded to encourage and facilitate the scientific study of political questions and problems. The Institute, as such, does not express an opinion on any aspect of political theory or practice. It conducts a Reference Library, a Lending Library and Reading Rooms, and holds monthly seminars and discussions and arranges talks with a view to better understanding the various issues of past and current political problems. In pursuance of these aims, the Institute brings out publications from time to time and also runs a bi-annual journal 'Laski Institute Review'.

Hon. Director: Prof. P. G. Mavalankar.

LALLUBHAI MOTILAL COLLEGE OF PHARMACY
Navrangpura, Ellis Bridge, Ahmedabad 9.

Principal: Dr. R. P. Patel, M.Sc., Ph.D. (Pharm. Chem.) (London).

PHYSICAL RESEARCH LABORATORY
Navrangpura, Ahmedabad 9.

Chairman Council of Management, Kasturbhai Lalbhai.

Director and Professor of Atmospheric Physics, Dr. K. R. Ramanathan, D.Sc.

Professor of Cosmic Ray Physics, Dr. Vikram Sarabhai, M.A., Ph.D.; *Reader in Electronics*, Dr. U. D. Desai, M.Sc., Ph.D.; *Reader in Cosmic Ray Physics*, Dr. R. P. Kane, M.Sc., Ph.D.; *Reader in Theoretical Physics*, Dr. S. P. Pandya, M.Sc., Ph.D.; *Registrar*, Jagmohandas H. Parekh.

PREMCHAND RAICHAND TRAINING COLLEGE FOR MEN
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It is a Government training institution whose object is to train teachers for primary schools.

Principal : **P. B. Kothari.**

SCHOOL FOR DEAF-MUTES AND SCHOOL FOR THE BLIND
Navrangpura, Ellis Bridge, Ahmedabad 9.

An aided residential charitable institution.

Separate arrangements for boys and girls. There are 150 deaf-mutes (boys and girls) and 42 blind (boys and girls).

Free education in reading, writing, useful crafts like tailoring, composing and printing and weaving for deaf-mutes, and re-caning, music, weaving and massage for blind is given. Boarding fee according to the means of the guardians.

President : **Sheth Madanmohan Mangaldas Parekh ;** ***Vice-President,*** **Sheth Ramanlal Lallubhai ;** ***Secretaries,*** **P. P. Desai ; B. D. Lala.**

SETH BHOLABHAI JESHINGBHAI INSTITUTE OF LEARNING AND RESEARCH, GUJARAT VIDYA SABHA
Bhadra, Ahmedabad.

Director : **R. C. Parikh.**

LALBHAI DALPATHBHAI ARTS COLLEGE
Ahmedabad 9.

Ag. Principal : **V. M. Shah.**

M. G. SCIENCE INSTITUTE
Ahmedabad 9.

Principal : **Dr. R. D. Desai.**

SHREYAS SCIENCE AND ARTS INTERMEDIATE COLLEGE
Ahmedabad.

Principal : **Smt. Bharatidevi Ambalal Sarabhai, B.A. (Hons.) (Bom.), B.A. (Hons.) (Oxon.).**

SIR LALLUBHAI SHAH LAW COLLEGE

Principal : **Mukundray M. Thakore, B.A., LL.B., Advocate (O.S.).**

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[illegible] D. K. Thaker, *Hon. Secy.* ; Khadia, Char Rasta, Ahmedabad.

AHMEDABAD BUILDERS' ASSOCIATION
Kankaria Road, Ahmedabad.

President : Babubhai R. Zinzuvadia ; *Vice-President :* Bachubhai H. Joshi ; *Hon. Secretary :* Jayantilal G. Shah.

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President : Ratilal V. Shah ; *Hon. Secretary :* Manibhai V. Patel.

AHMEDABAD COLOUR MERCHANTS' ASSOCIATION
Astodia Road, Ahmedabad.

President : P. G. Amin ; *Chairman :* S. P. Munshi ; *Secretary :* Jayantilal C. Gandhi.

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THE AHMEDABAD ENGINEERING FACTORY OWNERS' ASSOCIATION
Ghee Kanta Road, Ahmedabad.

President : Mohanlal Ishwarlal Panchal ; *Vice-President .* Mohanlal G. Panchal ; *Hon. Secretary :* Chinubhai C. Shah.

THE AHMEDABAD IRON, HARDWARE & PAINT MERCHANTS FEDERATION
Bala Hanuman, Kaveshwar's Pole, Ahmedabad.

President : Surendra Manilal ; *Hon. Secretary :* Premchand Gokaldas.

THE AHMEDABAD MILL & GIN STORES MERCHANTS ASSOCIATION
Reid Road, Railwaypura Post, Ahmedabad 2.

President . Narottambhai P. Hutheesing ; *Vice-President :* Rohitbhai C. Mehta ; *Hon. Secretary :* Champaklal P. Mehta ; *Secretary :* Dr. Indra H. Sutaria, M.A., LL.B., Ph.D.

AHMEDABAD MILLOWNERS' ASSOCIATION
Post Box No. 7, Navrangpura, Ahmedabad 9.

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Vice-President : Ranjitlal C. Nagri.
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905-Khadia, Char Rasta, Ahmedabad.

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675, Chinubhai Building, Sakar Bazar, Cross Lane, Ahmedabad.

President : Chhotabhai K. Shah ; *Hon. Secretary :* Hasmukhlal Manekial ; *Joint Hon. Secretary :* Gordhandas Somabhai Patel.

THE AHMEDABAD SHARE & STOCK BROKERS' ASSOCIATION
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President : Nandulal Manchharam ; *Vice-President :* Amratlal Dalsukhbhai Haji ; *Secretary :* Dwarkadas Mohanlal Akruwala.

THE AHMEDABAD SUGAR MERCHANTS ASSOCIATION
Sakar Bazar, Ahmedabad.

President : Indulal Dahyabhai Shah ; *Vice-President :* Jivabhai Ranchheddas Thakkar.

AHMEDABAD SUTAR MAHAJAN
Sakar Bazar, Ahmedabad 2.

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President . Dasharathlal Chinubhai ; *Vice-President :* Somabhai Hargovandas ; *Hon. Secretary .* Kantilal Balabhai.

THE AHMEDABAD TOBACCO MERCHANTS ASSOCIATION
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THE ALL INDIA PICKER & TEXTILE LEATHER MANUFACTURERS' ASSOCIATION
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Nature of work : Research.
Chairman, Governing Body : **Gautam Sarabhai ;** ***Director :*** **Prof. H. P. Maiti ;** ***Psychiatrist :*** **Dr. B. Gupta.**

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There are eight local Mahajans in the Federation, namely :

The Fuvara Kapad Mahajan ; Prem Darwaja Kapad Mahajan ; Saraspur Kapad Mahajan; Swaminarayan Kapad Mahajan ; Delhi Chakla Kapad Mahajan ; Gomtipur Kapad Mahajan ; Asarwa Kapad Mahajan and Naroda Kapad Mahajan.

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THE ELECTRICAL MERCHANTS & CONTRACTORS ASSOCIATION

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(Gujarat Chamber of Commerce)

Gujarat Samachar Bldg , Khanpur P O. Box No. 162, Ahmedabad 1.

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President : Sheth Chandulal Bhikhabhai Satia ; *Vice-President :* Sheth Ratilal Manilal Kapadia ; *Hon. Secretary :* Sheth Hiralal Harilal Bhagwati.

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518, Panchkuva, Ahmedabad.

President : Premchand Balabhai Shah ; *Vice-President :* Anubhai Chimanlal Shah ; *Hon. Secretary :* Chandulal Jamnadas Shah ; *Hon. Jt. Secretary* . Mansukhlal Maganlal Shah

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The Clinic was started by the Ellis Bridge Arogya Samiti, a non-official body devoted to providing medical assistance. Preliminary physio-therapy treatment is provided in the Clinic.

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President : Nareshchandra M. Shah ; *Secretary :* Maneklal V. Shah.

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(Ahmedabad Branch)

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Ahmedabad Cotton Brokers' Association, Richey Road, Ahmedabad.

Ahmedabad Education Society, Lal Bhuvan, Bhadra, Ahmedabad.

Ahmedabad Printing Press Owners' Association, C/o Kumar Karyalaya Ltd., 1454, Raipur, Ahmedabad.

Ahmedabad Bullion Exchange Association Ltd., Manek Chowk, Ahmedabad.

Indian Share and General Exchange Association, Nagarshet Market, Ratanpole, Ahmedabad.

Bombay Share and Stock Brokers Association, Gujerat Cotton Hall, Manek Chowk, Ahmedabad.

Ahmedabad Shroff Mahajan, Manek Chowk, Opp. Share Bazar, Ahmedabad.

Ahmedabad Hessian Association, Arenda Hall, Kapasia Bazar, Ahmedabad 2.

Machinery Merchants' Association, 661 9, Kanuga Mansion, Kapasia Bazar, Ahmedabad 2.

Ahmedabad Automobile Dealers' Association, Bombay Motor Stores, Kapasia Bazar, Ahmedabad 2.

Ahmedabad Electrical Merchants & Contractors' Association, R. G. Bhow & Co , Opp. Jama Masjid, Ahmedabad 1.

Ahmedabad Chamber of Commerce, Old Nagarseth Market, Ratanpole, Ahmedabad.

Ahmedabad New Madhavpura Mahajan, Madhavpura, Ahmedabad

Ahmedabad Pharmaceutists' Association, Three Gates, Ahmedabad

Ahmedabad Grain Merchants' Association, Chokha Bazar, Railwaypura, Ahmedabad 2.

Ahmedabad Chemical Merchants' Association, Kapasia Bazar Ahmedabad 2.

Sakar Bazar Mahajan, Sakar Bazar, Ahmedabad.

Bonafide Charcoal Merchants' Association, C o D. K. Thakar, Khadia Char Rasta, Nawadarwaza Road, Ahmedabad.

Brick Merchants' Association, C o Nowrojee Vakil & Co , Nehru Road, Ahmedabad.

Ahmedabad Hand-Printers' Association, Rangali Cloth Bazar Astodia, Ahmedabad 2.

Grain Merchants' Association, Railwaypura Rice Market, Ahmedabad.

Gujarat Cotton Brokers' Association, Manek Chowk, Ahmedabad.

"Junior Chamber," Ambawadi, Ahmedabad. *President*, Mrs Manorama Udayan Chiunbhai.

National Rifle Association, India : Sir Chinubhai's Bangalow No 3, Khanpur, Ahmedabad.

Patron-in-Chief, Dr. Rajendra Prasad ; *President*, Govind Ballabh Pant ; *Vice-Presidents*, Sardar Surjit Singh Majithia , V D Pandit ; Col. H. H. Maharana Virbhadra Sinh of Lunavada ; H. N. Sircar, I.C.S. ; H.H. Maharaja Karni Singh of Bikaner ; P M. Reddy ; S. N. Chatterjee ; *Hon. Treasurer*, Babubhai Gulabchand ; *Hon. Secretary*, K. G. Prabhu.

Textile Labour Association, Bhadra, Ahmedabad. *General Secretary* Khandubhai Desai.

Western India Automobile Association, Lal Darwaja, Ahmedabad.

HOTELS

Anand Nivas, Zaveriwad (*Indian style*).
Ashok Nivas, Relief Road (*Indian style*).
Bombay Hotel, Shahibag (*European style*).
Chandra Vilas, Gandhi Road (*Indian style*).
Grand Hotel, Lal Darwaja (*European style*).
Havmor, Relief Road (*Indian style*).
Laxmi Vilas, Gandhi Road (*Indian style*).
Naaz, Relief Road (*European style*).
Niros, Relief Road (*European style*).
Purnima, Gandhi Road (*Indian style*).
Ritz Hotel, Lal Darwaja (*European style*).

CLUBS

Gujarat Club.
Ahmedabad Gymkhana.
Parsi Gymkhana.
Reform Club.
Rajnagar Club.
Merchants' Club.
Hindu Gymkhana.
Railwaymen's Institute.
Postal Union.
Baronet Gymkhana.
Orient Club.
Rotary Club.
Shahibag Club.

NEWSPAPERS & PERIODICALS

"ARAM"	Weekly	Gujarati.
"CONGRESS PATRIKA" ..	Do.	Do.
"GUJARAT SAMACHAR" ..	Daily	Do.
"HINDU"	Do.	Do.
"IMAN"	Monthly	Do.
"JAIN PRAVACHAN"	Weekly	Do.
"JANSATTA"	Daily	Do.
"JYOTIRDHAR"	Fortnightly	Do.
"KEDI"	Do.	Do.
"KUMAR"	Monthly	Do.
"MAHILA JAGAT"	Fortnightly	Do.
"MAJUR SANDESH"	Twice a week	Do.
"MODHENDU"	Monthly	Do.
"NAUSAURASHTRA"	Weekly	Do.
"NAVJIVAN"	Monthly	Do.
"NAYAGAMANA"	Weekly	Do.
"NUTAN PRAKASH"	Monthly	Do.
"PRABHAT"	Daily	Do.
"PRAGATI"	Fortnightly	Do.
"PRAJA BANDHU"	Weekly	Do.
"PRATHMIK SHIKSHAK" ..	Fortnightly	Gujarati
"PREKSHAK"	Weekly	Do.
"SAMAJ PATRIKA"	Fortnightly	Marathi.
"SANDESH"	Daily	Gujarati.
"SANDESH-GUJARATI PUNCH"	Weekly	Do.
"SANSKRUTI"	Monthly	Do.
"SEVAK"	Daily	Do.
"SHRIGAUD PRAKASH" ..	Monthly	Do.
"SHRI JAIN SATYA PRAKASH"	Do.	Do.
"SHRIMALI SHUBHECHHAK"	Do.	Do.
"SHRI TRIVEDI MEWADA VARTAMAN"	Do.	Do.
"STHANAKWASI JAIN" ..	Fortnightly	Do.
"STRI JIVAN"	Monthly	Do.
"VIDYARTHI"	Do.	Do.
"VIKAS"	Fortnightly	Do.
"VIRSHASAN"	Weekly	Do.
"VISHWAVATSALYA"	Fortnightly	Do.
"YUVAK"	Monthly	Do.

COMMERCIAL FIRMS

A. B. Brothers, 129, Ghee Kanta Road, Ahmedabad.

A Bhaderbhai Kishore & Sons, Ghee Kanta Road, Ahmedabad.

A Hasmukh & Co., Dyestuff, L. K. Trust Building, Reid Road, Ahmedabad.

Acme Agencies, Mfgrs. of High Grade Pencils, Motilal Mansion, Kapasia Bazar, Ahmedabad.

Ahmedabad Chrome Tanning Co., Peermohamedshah Road, Ahmedabad.

Ahmedabad Cotton Manufacturing Co., Ltd., Sarangpur, Ahmedabad.

Ahmedabad Electricity Company, Ltd., Electricity House, Lal Darwaja, Post Box No. 37, Ahmedabad 1.

Ahmedabad General Engineering Works, 522 1, Outside Panchkuva Gate, Ahmedabad 2

Ahmedabad Hardware Stores, Relief Road, Ahmedabad 1.

Ahmedabad Laxmi Cotton Mills Co., Ltd., Kankaria Road, Ahmedabad.

Ahmedabad Motors Ltd., The Lal Darwaja, Ahmedabad

Ahmedabad New Cotton Mills Co., Ltd., 500 1, Kankaria Road, Outside Raipur Gate, Ahmedabad.

Ahmedabad New Textile Mills Co., Ltd., Outside Raipur Gate, Ahmedabad.

Ahmedabad Oil Mills, Gopal Krishna Flour Mills Compound, Outside Raipur Gate, Ahmedabad.

Ahmedabad Peoples' Co-operative Bank Ltd., Karanj, Bhadra, Ahmedabad.

Ahmedabad Pressing, Ginning and Manufacturing Co., Naroda Road, Ahmedabad.

Ahmedabad Stationery Mart, 42, Nagarseth Market, Ratan Pole, Ahmedabad.

Ahmedabad Victoria Iron Works Co., Ltd., Agents: Messrs. Vakil Desai & Co., Dudheshwar, Ahmedabad.

Ajit Mills Ltd., Rakhial Road, Ahmedabad

Ajanta Kalaghar, 155, Ajanta House, Madalpur, Ellis Bridge, Ahmedabad.

Alliance Stores Trading Co., Ltd., Station Road, Ahmedabad.

Allied Engineers, Hardware & Paint Merchants, Reid Road, Ahmedabad.

American Oil Trading Company, The, Revdi Bazar, Ahmedabad 2.

A. Raman & Co., Kapasia Bazar, Ahmedabad 2.

Arvind Electric & Textile Stores, 611 Near Balahanuman Gandhi Road Ahmedabad

ARVIND MILLS LTD., THE, Naroda Road, Ahmedabad Messrs. Narottam Lalbhai & Co. Spindles, 62 448, Looms, 1,216

Argus Insurance Co., Ltd., 269, Gandhi Road, Ahmedabad.

Asarva Mills Co., Ltd., Asarva Road, Ahmedabad, Manufacturers of Superior Cotton Textiles.

Ashara Electric Co., 120, Dhinkwa Chowkey, Near Doshiwada's Pole, Ahmedabad.

Ashok Brothers, outside Sarangpur Gate, Old Navivan Press Compound, Ahmedabad.

Asian Brush Co., Industrial & Textile, Brush Manufacturers, Reid Road, Ahmedabad.

Babu & Company Ghee Kanta Road, Ahmedabad

Babubhai N Chokshi, Motilal Mansion, 1st floor Cross Lane, Ahmedabad

Balabhai Chhaganlal Katputia, Railwaypura Post, Ahmedabad

Baldevdas Motilal & Co., Gandhi Road, opp. Mahavir Swami's Temple, Ahmedabad.

Bechardas Hargovandas Patel, Lokhand Bazar, Ahmedabad.

Bhagyodaya Electric Company, Gandhi Road, Near Post Office, Ahmedabad.

BHALAKIA MILLS CO., LTD., Cotton Cloth Manufacturers, P. B. No. 29, Kankaria Road, Ahmedabad.

Bharat Insurance Co., Ltd., Dudhia Building, Richey Road, Ahmedabad.

Bharat Paints & Hardware Agency, Dhansantav Pole, Relief Road, Ahmedabad.

Bharat Rope & Lace Mfg. Co., Kapasia Bazar, Ahmedabad.

Bharat Traders, 572-A, Reid Road, Railwaypura, Ahmedabad 2.

Bharat Suryodaya Mills Co., Ltd., Kankaria Road, Ahmedabad

Bhaya, C., & Co. (Estd. 1931), Gandhi Road, Ahmedabad.

Bhikhalal Chhaganlal Desai, Chemists & Druggists, 3078, Three Gates, Ahmedabad.

Bhogilal Tricumlal & Co., Sugar Lane, Ahmedabad.

Bhogilal & Co., 673-7, Cross Lane, Ahmedabad.

Bholabhai Bhogilal, Sakar Bazar, Ahmedabad 2.

Bihari Brothers, Mill Stores Stockists, Reid Road, Ahmedabad 2.

B Lalbhai & Co., 2675, Pankore Naka, Ahmedabad.

Bhow & Co., S. P., Jumma Masjid, Pankore Naka, Ahmedabad.

B M. Shah & Co., Motilal Mansion, Kapasia Bazar, Ahmedabad.

Bombay Garage (Ahmedabad) Ltd., Shahibag Road, Ahmedabad.

Bombay Sanitary Engineering Works, 1119, Pankore Naka, Ahmedabad.

Brady & Co., Ltd., W. H., Railwaypura Post, Reid Road, Ahmedabad.

B. P. Engineering Works, Gheekanta Road, Ahmedabad

B. Ramanlal & Co., Kapasia Bazar, Ahmedabad.

British India General Insurance Co., Ltd., Mirzapur Road, Ahmedabad.

Caltex (India) Ltd., Asarwa Station Yard, Ahmedabad.

Cama Motors Ltd., The, Lal Darwaja, Ahmedabad.

C. Bangdiwala & Co., Ltd., Reid Road, Ahmedabad.

C. B. Sataria Bros., Engineers & Contractors, Cross Lane, opp. Railway Station, Ahmedabad

C. DOCTOR & CO. PRIVATE LTD., Ahmedabad 8 : Bombay 1 ; Calcutta 1

Central Watch Co., Richey Road, Ahmedabad.

Chandrakant Navsukhlal & Co., Three Gates, Ahmedabad.

Chandulal & Brothers, Motilal Hirabhai Market, Ahmedabad.

Chandulal Premchand, Three Gates, Ahmedabad

Chaturbhai Valabhai & Co., Kalupur, Baluchawad, Khojas Haveli, Ahmedabad.

Chhotalal Balabhai & Brothers, Narottam Building, Kapasia Bazar, Ahmedabad.

Chhotalal Jamnadas & Co., opp. Swaminarayan Temple, Ahmedabad.

Chimanlal Chhotalal & Co., near Fernandez Bridge, Kalupur Road, Ahmedabad.

Chinubhai Manubhai & Co., Maskati Market, Ahmedabad.

Chokshi & Co., H., Kapasia Bazar, Ahmedabad.

C. Hiralal & Co., 273, Sarangpur Chakla, Ahmedabad.

Chunilal Mayachand Mehta (Chasmawala), Three Gates, Ahmedabad.

C. K. Vohra & Co., Iron & Steel Merchants, Revdi Bazar, Ahmedabad 2.

C. Lakshmichand & Co., Revdi Bazar, Ahmedabad.

Commercial Ahmedabad Mills Co., Ltd., Dariapur, Ahmedabad. Cotton Textile Manufacturers.

Commercial Union Assurance Co., Ltd., Nataiwala Building, Khadia, Char Rasta, Ahmedabad.

Commonwealth Assurance Co., Ltd., Reid Road, Ahmedabad.

Continental Trading Syndicate, 649-1, Kapasia Bazar, Ahmedabad.

C. S. Vohra & Co., Paint Merchants, 1171, Pankore Naka, Ahmedabad 1.

Dahyabhai Nanalal & Co., Kapasia Bazar, Ahmedabad 2.

Deepak General Insurance Co., Ltd., Khadia, Char Rasta, Ahmedabad.

Deepak Radio Electric Stores, Panchkuwa Mehta Building, Ahmedabad.

Deepak Textile Industries Ltd. (Kalyan Mills), Naroda Road, Railwaypura, Ahmedabad.

Devico Engineering Works, Shahibag, Ahmedabad.

Devkaran Nanjee Banking Co., Ltd., near Post Office, Richey Road, Ahmedabad.

DIAMOND SILK & RAYON MILL, Madhowlal Ranchhodlal Colony, Railwaypura, Ahmedabad 2. Silk & Art Silk Cloth Manufacturers.

Diarvi Trading Co., near Panchkuwa, Ahmedabad.

Dinubhai G. Desai & Co., Motilbai Road, Madhav Baug, Ahmedabad.

D. Prajapati & Co., Near Tarkas Building, Relief Road, Ahmedabad.

Dudhia Oil Mills Ginning and Pressing Factory, near Chamundamata, Naroda Road, Ahmedabad.

E. A. Latif & Son, Revdi Bazar, Latif Building, Ahmedabad.

Eastern Federal Union Insurance Co. Ltd., 2, Pritamnagar, Ahmedabad.

Eastern Iron & Steel Traders, Relief Road, Ahmedabad.

Eastern Trading Agency, The, Achratlal Haridas Building, Kapasia Bazar, Ahmedabad, 2.

Ekiera China Clay Works, 1117, Salvini Pole, Jamalpur, Ahmedabad.

Electric Benefit Service, 816, Gandhi Road, Char Rasta, Ahmedabad.

Empire Motor Stores, Lal Darwaja, Ahmedabad.

Expert Battery Charging & Repairing Works, near Victoria Gardens, Ahmedabad.

F. Deen, Panchkuva Road, Ahmedabad.

Fadia Bros., 1099, Pankore Naka, Ahmedabad 1.

Fozdar & Co., N. M., opp. Fuvara, Gandhi Road, Ahmedabad.

Frion & Company, Reid Road, Ahmedabad.

Fulchand Chhaganlal & Co., Gujrat Cotton Hall, Manek Chowk, Ahmedabad.

Ganjwala & Co., Tayeb Bldg., near Zakaria Masjid, Relief Road, Ahmedabad.

Gannon Dunkerley & Co., Ltd., Railwaypura Post, Ahmedabad.

General Engineering Stores, Kapasia Bazar, Kalupur, Ahmedabad.

GENERAL COMMERCIAL AGENCY, THE, Cross Lane, Railwaypura Post, Ahmedabad 2. Hardware, Tools & Millstore Merchants.

GENERAL ELECTRIC CO. OF INDIA PRIVATE LTD., THE, Magnet House, Tilak Road, P.O. Box No. 224, Ahmedabad. Phone : 3317, Grams : "KILOWATT". Resident Representative : L. J. Fern.

General Electric Works, Relief Road, opp. Jakaria Masjid, Ahmedabad.

General Motors Agency, Bhadra, Ahmedabad. Phone : 2441.

Girdharilal Damodordas Ltd., 691, Reid Road, Railwaypura Post, Ahmedabad.

Girdharlal, C. & Co., 483, Revdi Bazar, Ahmedabad.

G. M. Gandhi, New Madhopura, Ahmedabad.

Gopaldas and Sons, Bala Hanuman Kavishwar's Pole, Ahmedabad.

Gopal Krishna Flour & Pulse Mills, outside Raipur Gate, Ahmedabad 1.

Gopaldas Khemchand & Sons (Tijoriwala), Outside Delhi Gate, Ahmedabad.

Gopaldas Rajendraprasad & Co., Sir Chinubhai Building, Revdi Bazar, Cross Lane, Ahmedabad.

Gordhandas Chatrabhuj & Co., Cross Lane, Chinubhai Building, Ahmedabad.

Grand Hotel, Lal Darwaja, Ahmedabad.

GREAVES COTTON & CO., LTD., Vishnu Bhuvan, Relief Road, Kadia Kui, Ahmedabad.

Gujarat Corporation (India) Ltd., Harisadan, Char Rasta, Ahmedabad.

Gujarat Ginning and Manufacturing Co., Ltd., Prem Gate, Ahmedabad.

GUJARAT PAPER MILLS LTD., 653, Sakar Bazar, Ahmedabad 2. Manufacturers of Papers & Boards.

Gujrat Automobiles, Motilal Hirabhai Market, Ahmedabad.

Gujrat Electric Co., The, Richey Road, Ahmedabad.

Gujrat Oil Mills and Manufacturing Co., Ltd., Asarva, Ahmedabad 11.

Gujarat Paper Mills Ltd., 653, Sakar Bazar, Ahmedabad 2.

Gujrat Transport Services Ltd., Raikhad, Ahmedabad.

Haji Nanna Master & Co., Jamalpur Chakla, Ahmedabad.

Hansraj Ratanlal & Co., Rangwala Market, Ahmedabad.

Harilal Brothers, 656-4-4, Patel Market, Kapasia Bazar, Ahmedabad.

Harilal Mulchand Nagori, Timber Merchant, Outside Sarangpur Gate, Ahmedabad 2.

Harivallabhdas Mulchand Mills Co., Ltd., Dariapur, Ahmedabad.

Hathising Manufacturing Co., Ltd., Saraspur Road, Ahmedabad.

H. Bansidhar & Co., Railwaypura Post, Kapasia Bazar, Ahmedabad.

H. Chokshi & Co., Kapasia Bazar, Ahmedabad.

Himabhai Manufacturing Co., Ltd., Saraspur, Ahmedabad.

Hind Sewing Machine Works, opp. Vijay Mills, Naroda Road, Ahmedabad.

Hiralal B. Trivedi & Co., Gandhi Road, Ahmedabad.

Hiralal Panchal & Co., Lunsawada, Golwad, Ahmedabad.

Hiralal & Co., opp. Jumma Masjid, Ahmedabad.

Hukumchand Insurance Co., Ltd., Reid Road, Ahmedabad.

Humidifying Vacuum Cleaning Plant Factory & Textile Mills Machinery Manufacturers, Ghee Kanta Road, Ahmedabad.

Ideal Motors Ltd., The, Lal Darwaja, Ahmedabad.

Imperial Chemical Industries (India) Ltd., Dyes Dept., Girdharlal's Mangaldas Bungalow, Lal Darwaja, Ahmedabad.

Imperial Soda Factory, The, Haripura Road Asarva, Ahmedabad 11.

India Engineering Corporation, Sir Chinubhai Compound, Shahpur, Ahmedabad.

India Metal Works, 1758/1-2, Mirzapur Road, Ahmedabad.

India Starch Trading Co., Mill Gin Stores Merchants, opp. Madhu Bag, Ahmedabad 2.

Indo-British Chemical Co., Astodia Chakla, Ahmedabad.

Indravadam Maneklal & Co., Bombay Shop Building, Ahmedabad.

International Electrical Equipment Co., Reid Road, Ahmedabad.

International Textile Corporation, 696, Reid Road, Ahmedabad 2.

International Trading Co., Station Road, Ahmedabad.

Jagdish Straw Products, Ltd., outside Jamalpur, Ahmedabad.

Jaihind Leather Industries Ltd., Reid Road, Ahmedabad.

Jashvantlal & Co., Manek Chowk, opp. Vegetable Market, Ahmedabad.

Jayantilal Pranlal & Co., Karna Mukteshwar Mahadev, Outside Sarangpur Gate, Ahmedabad.

Jayantilal Ratilal & Co., Dariapur, Lunsawada, Khadia Naka, Ahmedabad.

Jayems Engineering Co., Lal Darwaja, Ahmedabad.

J. C. Engineer & Co., 27, Shrimali Society, Ellis Bridge, Ahmedabad.

Jehangir Brothers, opp. Railway Station, Ahmedabad.

J. F. Patel & Co., Reid Road, Ahmedabad

Jones Textilatics Export Co., Ltd., Kapasia Bazar, Ahmedabad.

J. Ramanlal & Co., 675-1, Sakar Bazar, Cross Lane, Ahmedabad.

Jupiter General Insurance Co., Ltd., Khadia, Char Rasta, Ahmedabad.

Kanaiyalal Harilal Nagori, Revdi Bazar Ahmedabad 2.

Kanchan Brothers Co., Reid Road, Ahmedabad.

Kantilal Jivanlal & Co., Reid Road, Ahmedabad.

Kantilal M. Modi & Co., 484, Revdi Bazar, Ahmedabad.

Kantilal S. Mehta, Mill Stores Merchant, 1711/5, Gandhi Road, Ahmedabad.

Karaka, D. C., & C., Madalpur, Ellis Bridge, Ahmedabad.

K. C. Mashruwala & Co., Reid Road, Ahmedabad.

K. Damodardas & Co., Singapurwalla Building, Khadia, Char Rasta, Ahmedabad.

Keshavlal Lalchand & Co., Ratan Pole, Baleli Haveli, Ahmedabad.

Kikabhai Gulam Husain & Sons, near Fernandes Bridge, Ahmedabad.

Kilachand Devchand & Co., Ltd., Manek Chowk, Ahmedabad.

K. Shah & Co., 91, Ratan Pole, Ahmedabad, Advertising Agents.

Lakmi Vijay Brass & Iron Works, Ghee Kanta Road, Ahmedabad.

Lalbhai, B., & Co., 111-B, Pankore Naka, Ahmedabad.

Lallubhai Haribhai Panchal, Ghee Kanta Road, opp. R. C. High School, Ahmedabad.

Laxmandass Sejram, Mohamedi Market, Ahmedabad 2.

Legal and General Assurance Society Ltd., 1761, Gandhi Road, Ahmedabad.

Leophone Talking Machine Co., Gandhi Road, Ahmedabad.

L. N. Gadodia & Sons Ltd., opp. Maskati Market, Sakar Bazar, Ahmedabad.

Lords Dairy Farm Ltd., West View, Kanpur, P.O. Box 114, Ahmedabad.

Machine Tools and Hardware Corporation, Reid Road, Railwaypura Post, Ahmedabad.

Machinery Supplying Co., Kankaria Road, Ahmedabad.

Madhavdas Manilal & Co., Astodia Road, Ahmedabad.

Madhavlal & Co, Pankore Naka, Ahmedabad.

Mafatlal Mohanlal & Co., Haribhai Market, Cross Lane, Ahmedabad.

Malik Kartarsingh & Co., Sarkhej Road, Lilis Bridge, Ahmedabad.

Manekchock and Ahmedabad Manufacturing Co., Ltd., Asarva, Ahmedabad 11.

Manilal & Co., 649, Nanavati Building, Richey Road, Ahmedabad.

Mansukhlal Maganlal Kapadia, Outside Maskati Market, Ahmedabad.

Manubhai Parikh & Co., Dr. Motibai Road, opp. Madhav Baug, Ahmedabad.

Martatia & Co., Naushir M., Valanda's Haveli, opp. Fuvara, Ahmedabad.

MASTURLAL CHUNILAL & CO., Kapasia Bazar, Ahmedabad 2. 73, Apollo Street, Fort, Bombay. Textile Stores Importers.

Mehta Brothers & Co., 698, Reid Road, Ahmedabad.

Mehta Parikh & Co., Kapasia Bazar, Ahmedabad.

Mercury Enamel Works, Enamel Sign Manufacturers, Maninagar, Ahmedabad 8.

Metal Moulders Ltd., Dudheshwar Road, Ahmedabad.

Mistri Ambalal Jetharam Iron & Brass Factory, Ghee Kanta Road, Ahmedabad.

Mistri Mangaldas Jethabhai & Brothers, Dariapur, Chakla, Ahmedabad.

Mistry and Gajjar (India) Ltd., Sarkigarani Wadi, Outside Sarangpur Gate, Ahmedabad.

Mody & Co., 629-2-3, Companywala Market, Kapasia Bazar, Ahmedabad.

Mohanlal Chunilal & Co., Manek Chowk, Ahmedabad.

Mohanlal & Co., Pankore Naka, Ahmedabad.

Monogram Mills Co. Ltd., Rakhial Road, Gomtipur, Ahmedabad 10.

Motiji Bhabhutmal & Co., B-8, Maskati Market, Ahmedabad.

Motor Union Insurance Co., Ltd., Cross Lane, Station Road, Ahmedabad.

Morris Transport Service Ltd., Biradari Compound, Lal Darwaja, Ahmedabad.

Mujabhai Tayebjee & Sons, Three Gates, Ahmedabad.

Muljibhai Shivji & Co., behind Gujrat College, near Sharda Mandir, No. 354/1, Ahmedabad.

M. B. Patel & Co., Shop No. 2734, Lokhand Bazar, Ahmedabad.

M. C. Shah & Co., Bombay Mutual, 54, Gandhi Road, Richey Road, Ahmedabad.

M. Kantilal & Co., Pankore Naka, above Ghanchi's Wadi, Ahmedabad.

M. Parikh & Co., Laishanker's Compound, Ellis Bridge, Ahmedabad.

M. Sharma & Co., No. 1779, Gandhi Road, opp. Chaturbhuj Mandir, P. O. Box No. 71, Ahmedabad.

M. Vadilal & Co., Tankshal, Kalupur, Ahmedabad.

Nagardas & Co., Dhanlaxmi Market, Ahmedabad.

Nagindas Kilabhai & Co., 697/14, Reid Road, Ahmedabad.

Nagri Mills Co., Ltd., Gomtipur Road, Ahmedabad.

Nanavati & Co., Ltd., Maskati Market, Ahmedabad.

NANIKRAM SOBHRAJ MILLS PRIVATE LTD., Madhowlal Ranchhodlal Colony, Railwaypura, Post Box No. 1041, Ahmedabad. Phone: 2728; Grams: "KINCHICRAP." Silk & Art Silk Cloth Manufacturers.

Narendra & Co., Dalal Building, Kapasia Bazar, Ahmedabad.

Narotamdas Chunilal & Co., Motilal Mansion, Kapasia Bazar, Ahmedabad 2.

National Coal Supplying Co., below Saraspur Railway Bridge, Hasumiya Laimiya's Compound, Ahmedabad.

National Fire and General Insurance Co., Ltd., 3105-2-3, Gandhi Road, Ahmedabad.

Natwarlal Shamaldas & Co., Golwad Naka, Khadia, Ahmedabad.

Navinchandra C. Jhaveri & Co., Fani Bunda Building, Railwaypura, Ahmedabad.

Neptune Assurance Co. Ltd., Branch Office: Panchkuva, Ahmedabad 2.

New General Publicity (Private) Ltd., 1889 4, Gandhi Road, near Pada Pole, Ahmedabad.

NEW GUJRAT COTTON MILLS LIMITED
Naroda Road
AHMEDABAD 2.
QUALITY TEXTILE MANUFACTURERS
GREY—BLEACHED—DYED
Dhoties, Saries, Shirtings, Sheetings, Mulls, Crepe, Poplins, Drill & Herringbone Coating, etc., etc.
FOR EXPORT AND HOME

New India Assurance Co., Ltd., opp. Fuvara, Gandhi Road, Ahmedabad.

New Way Publicity Co., Mirzapur Road, Ahmedabad.

New Zealand Insurance Co., Ltd., Sir Chinubhai Building, Revdi Bazar Cross Lane, Ahmedabad.

NIMA TRADING COMPANY, Cross Lane, Ahmedabad 2. Phone: 3644. Importers, Manufacturers' Representatives & Stockists of Mill Stores, Machinery, Electrical Goods, Chemicals, Lubricants & Fertilizers.

Noorbhoy & Co., Saraspur Road, Valiulla Compound, Ahmedabad.

N. MANSUKHRAM & CO. (Estd. 1923), Opp. Maskati Market, Ahmedabad. Exporters of Cotton Textiles & Handloom Textiles.

N. M. Shah & Co., opp. Jumma Masjid, Ahmedabad.

Oghadlal Lallubhai Shah & Co., Inside Panchkuva, near Char Rasta, Ahmedabad.

Panchal Keshavlal Ambaram & Bros., Ghee Kanta, Pitalia Bumba, near Dabadia Kuva, Ahmedabad.

Panchal Poonjabhai Vanmali & Sons, Ghee Kanta Road, Ahmedabad.

Pandit Shah & Co., Three Gates, Ahmedabad.

Pandyan Insurance Co., Ltd., 1761, Gandhi Road, Ahmedabad.

Parikh & Parikh, Mill Gin Store Suppliers, Reid Road, Ahmedabad.

Pathak & Co., Bhadra, Mission Road, Ahmedabad.

P. Chhotalal Shah & Co., 3084, Three Gates, Ahmedabad. Phone: 3838.

Pearl Assurance Company Ltd., 649, Nanavati Building, Richey Road, Ahmedabad.

Pereira Fazalbhoy & Co., Allahabad Bank Building, Pankore Naka, Ahmedabad.

Pickers Ltd., Ellis Bridge, Manufacturers of quality Pickers, Ahmedabad 6.

Pioneer Manufacturing Co., Haripura Road, Asarva, Ahmedabad 11. Manufacturers of Distempers, Paints, Coloured Clays, etc.

Pioneer Textiles Co., Hari Sadan, Panchkuva, Char Rasta, Ahmedabad.

Pupatlal Girdharilal & Co., Hava Building, Kapasia Bazar, Ahmedabad.

Provincial Construction Co., Ltd., Building Contractors, Kankaria Road, Ahmedabad.

Prem Roy Bros., Mill Store Suppliers, L. K. Trust Building, Panchkuva, Ahmedabad 2.

Purshottamdas G. Gajjar, 500, Reid Road, Ahmedabad.

P. Dass & Co., Pankore Naka, opp. Ghanchi's Wadi, Ahmedabad.

RADIANT ELECTRIC & MACHINERY CO., Mangal Bhavan, 2750, Relief Road, Ahmedabad Phone: 3272

Rajendra Patel & Co., H. A. Cloth Market, Kapasia Bazar, Ahmedabad 2.

Rajkamal Transport Company, Relief Road, Ahmedabad.

Rajnagar Electric Co., opp. Richey Road, Ahmedabad.

Rajnikant Hasmukhlal & Co., Cross Lane, Ahmedabad.

Rally Metal Works, Relief Road, Patharkuva, Ahmedabad.

Ramanlal G. Shah & Co., Sankdi Sheri, Ahmedabad.

Ramanlal Nagindas Shah & Co., Ghee Kanta Road, opp. Pitalia Bumba in Vanda, Ahmedabad.

Ramanlal Sankalchand & Co., 572, Reid Road, Railwaypura Post, Ahmedabad.

Ramvijay Iron Works, 664, Ghee Kanta Road, Ahmedabad.

Rasiklal D. Gandhi & Co., Hari Sadan Khadia, Char Rasta, Ahmedabad.

Ratanchand Chunilal & Co., Maskati Market, Ahmedabad.

Ratilal M. Parikh & Co., Kapasia Bazar, Ahmedabad.

Reliable Cycle and Motor Co., Khadia, Char Rasta, Ahmedabad.

Reliance Electric Co., Gandhi Road, Ahmedabad.

Royal Insurance Co., Ltd., Tayed Bldg., Near Zakaria Masjid, Relief Road, Ahmedabad.

Rubber Products Ltd., Dudheshwar Road, Ahmedabad.

Ruby General Insurance Co., Ltd., Karanj, Bhadra, Ahmedabad.

Rustom Sons Ltd., Grand Hotel Building, Lal Darwaja, Ahmedabad.

R. C. Sonawala & Sons, Khadia, Char Rasta, Ahmedabad.

R. G. Bhow & Co., Gandhi Road, Jumma Masjid, Ahmedabad.

R. Jehangir Darashaw & Co., Relief Road, Ahmedabad.

R. Mehta & Co., Fernandez Bridge, Ahmedabad.

R. Nagindas & Co., Lunsawada, Shamal Bechar's Dehla, Ahmedabad.

R. Ramanlal & Co., opp. Railway Station, Ahmedabad.

Sankalchand G. Shah & Co., Latif's Dehla, Sakar Bazar, Ahmedabad.

Sarabhai Ratilal & Co., Revdi Bazar, Ahmedabad.

Sarangpur Cotton Manufacturing Co., Ltd., Kankaria, Ahmedabad.

Satilal C. Chokshi & Co., Manek Chowk, Ahmedabad.

Scientific Printers' Materials Manufacturing Co., Ltd., Mirzapur Road, Ahmedabad.

Sentinel Assurance Co., Ltd., R-695, Reid Road, Ahmedabad 2.

Shah Construction Co., Manilal Mansion, Cross Lane, Ahmedabad.

Shah Transport Service Co., Sheth's Pole, Ratan Pole, Ahmedabad.

Shankerlal & Co., 2727/1, Lokhand Bazar, Ahmedabad.

Shantilal & Co., Kanuga Mansion, Kapasia Bazar, Ahmedabad.

Shemosize Agency, 566, Reid Road, Ahmedabad.

Sheth Stores Trading Co., Deepak Chambers, Station Road, Ahmedabad.

Shri Krishna Roller Flour Mills, opp. Tella Mills, outside Kalupur Gate, Ahmedabad.

Shri Mahaluxmi Engineering Works, outside Delhi Gate, opp. Painter Garden, Ahmedabad.

Shri Shakti Timber Mart, near Gita Mandir, Ahmedabad.

Shri Vivekanand Mills Ltd., Rankhial Road, P.O. Gomtipur, Ahmedabad 10.

Shums Trading Co., The, Pankore Naka, Bangdi Bazar, Ahmedabad.

Silver Cotton Mills Co., Ltd., Kankaria Road, near Jaganath Mahadev, Ahmedabad.

Standard Materials Co., Narottam Building, Kapasia Bazar, Ahmedabad.

Standard Sales Agency, 1952,11, Khadia, Char Rasta, Ahmedabad.

Star Radio Electric Co., Ghee Kanta, Ahmedabad.

Studebaker & Morris Agency (Gujrat), Lal Darwaja, Ahmedabad.

Subodhchandra Popatlal, opp. Maskati Market, P. O. Box No. 1014, Ahmedabad.

Sultanali Gulamhussen & Sons, Fernandez Bridge, Ahmedabad.

Sutaria & Co., S., Reid Road, Ahmedabad 2.

Swastik Textile Trading Co., Ltd., Motilal Hirabhai Market, Railwaypura Post, Ahmedabad 2.

S. D. Patel & Co., Bhadra, Ahmedabad.

S. G. Hussain & Sons, Sakar Bazar, Ahmedabad.

S. Master & Sons, Station Road, Ahmedabad.

S. Shantilal & Co., Ghee Kanta Road, Pankore Naka, Ahmedabad.

Taj Mahal Trading Co., Mirzapur, Ahmedabad.

Tata Iron and Steel Co., Ltd., (Sales Branch Office), Relief Road, P.O. Box No. 130, Ahmedabad 1.

Textile Works Ltd., The, Hava Building, Kapasia Bazar, Ahmedabad.

Trikamlal Mahasukhram & Co., 20, Rangwala Market, Ahmedabad.

Tropical Insurance Co., Ltd., The, 571/2, Reid Road, Ahmedabad.

T. Mahadovio & Co., Railwaypura Post, Ahmedabad.

Umedram K. Mistri & Sons, City Danapith, Ahmedabad.

Union Coal Co., opp. Aryodaya Ginning Mills, Asarva Road, Ahmedabad.

United Commercial Bank Ltd., Bhadra, Karanj Building, Ahmedabad.

United India Life Assurance Co., Ltd., Inside Panchkuva, Ahmedabad.

United Trading Co., The, Dr. Motibai Road, Ahmedabad.

Universal Watch Co., Richey Road, Ahmedabad.

Vijava Mills Co., Ltd., Naroda Road, Ahmedabad.

Vinubhai & Co., Kapasia Bazar, Ahmedabad

Vulcan Insurance Co., Ltd., Karanj, Bhadra, Ahmedabad.

Wadia, A. D., & Sons, Kankaria Road, Ahmedabad.

Warden Insurance Co., Ltd., The, Bellentine Haveli, Three Gates, Ahmedabad.

Welspun Bobbin Co., 689, Reid Road Ahmedabad 2.

Zenith Assurance Co., Ltd., 1711 5, Gandhi Road, Ahmedabad.

CLASSIFIED LIST OF TRADES & PROFESSIONS

ABRASIVES

Ahmedabad Hardware Stores, Relief Road, Ahmedabad.
Behari Bros., Outside Panchkuva, Ahmedabad.

ADVERTISING AGENTS AND CONSULTANTS

K. Shah & Company, 91, Ratan Pole, Ahmedabad.
New General Publicity Ltd., Gandhi Road, near Padu Pole.

AERATED WATER MANUFACTURERS

Imperial Soda Factory, near Aryodaya Spinning Mills, Haripura, Asarva, Ahmedabad.
Munshi & Co., Mirzapur Road.
Natwarlal Nathalal & Co., Gandhi Road, Ahmedabad.
Patel Soda Water Factory, opp. Navi Pole, Shahpur, Ahmedabad.
P. Dhanjibhoy & Sons, Old Post Office, Ahmedabad.
Shaheo Aerated Water Factory, Outside Saraspur Gate, Patalia Talao, Ahmedabad.
Taj Mahal Trading Co., Mirzapur Road, Ahmedabad.

AERATED WATER REQUISITES

Bhikhalal Chhaganlal Desai, 3078, Three Gates, Ahmedabad.
Taj Mahal Trading Co., Mirzapur Road, Ahmedabad.

AGRICULTURAL IMPLEMENTS

Jagdish Textile & Engineering Co., Relief Road, Kadiakui, Ahmedabad.
Metal Moulders Private Ltd., Dudeshwar Road, Ahmedabad.
Mistry Ambalal Jetharam, Gheekanta Road, Ahmedabad.
M. H. Brothers, Kalupur Road, P.O. Box No. 81, Ahmedabad
Modern Engineering & Moulding Co., Shahpur Mills Compound, Ahmedabad.
Rajkamal Transport Company, Relief Road, Ahmedabad. Phone 3785.

WELLKNOWN BROTHERS, Relief Road, Near Zakaria Masjid, Ahmedabad 1 (India). Phone: 4784; Grams: "WELKNOWN."

AIR COMPRESSORS

Radiant Electric & Machinery Co., Mangal Bhavan, 2750, Relief Road, Ahmedabad; Phone: 3272; Vithaldas Chambers, Bruce St., Fort, Bombay 1.

ASBESTOS PRODUCTS

Ahmedabad Hardware Stores, Relief Road, Ahmedabad.
Behari Bros., Outside Panchkuva, Ahmedabad.

AUTOMOBILE ENGINEERS

BOMBAY GARAGE (AHMEDABAD) LTD., Shahibag Road, Ahmedabad 4. Grams: "PARKCHIN." Phone: 4615.

AUTOMOBILE PARTS AND ACCESSORIES

Alladeen Pirbhai Mistry, Relief Road, Ahmedabad.
Alliance Motor Co., Mirzapur Road, Ahmedabad.
Aruna Automobiles, Station Road, Ahmedabad.
Associated Auto Parts Ltd., Relief Road Cross Lane, Ahmedabad.
Associated Motor Ltd., Mirzapur Road, Ahmedabad.
Battery Charging and Repairing Works, Station Road, Ahmedabad.
Battery Charging Service Station, Kapasia Bazar, Ahmedabad.

BOMBAY GARAGE (AHMEDABAD) LTD., Shahibag Road, Ahmedabad 4. Grams : "PARKCHIN." Phone : 4615.
Bombay Motor Stores, Kapasia Bazar, Ahmedabad.
B. S. Shah & Co., Outside Sarangpur Gate, Bhadra, Ahmedabad.
Cama Motors Ltd., Lal Darwaja, Ahmedabad.
Eastern Automobiles, Reid Road, Ahmedabad.
Empire Motor Stores, Outside Sarangpur Gate, Bhadra, Ahmedabad.
Expert Battery Charging and Repairing Works, Near Victoria Garden, Ahmedabad.
F. P. Wadia Bros. Ltd., Mirzapur Road, Ahmedabad.
GENERAL MOTOR AGENCY, THE, Proprietors : B. S. Shah & Co., Bhadra, Ahmedabad. Pioneer Dealers in Automobile Renowned Spare Tyres, Tubes, Batteries, Petrol and Motor Oil. Stockists : Ferodo, Brake and Clutch Linings. Phone : 2441. Grams : "AUTOMOBILE."
Gujarat Automobiles, Station Road, Ahmedabad.
Gujarat Motor Stores, Reid Road, Ahmedabad.
Hasanbhai Jivabhai, Outside Sarangpur Gate, Bhadra, Ahmedabad.
Ideal Motor Ltd., Lal Darwaja, Ahmedabad.
Jashbhai Patel & Co., Delhi Gate, Shahpur Road, Ahmedabad.
Jayant Motor Stores, Station Road, Ahmedabad.
Karmali Jannahomed & Co., Kapasia Bazar, Ahmedabad.
Lakhia Brothers, Lal Darwaja, Ahmedabad.
Metro Motors (Ahmedabad) Ltd., Mirzapur Road, Ahmedabad.
Modern Automobiles (Guj.), Ltd., Lal Darwaja, Ahmedabad.
Mody Automobiles, Mission Road, Bhadra, Ahmedabad.
Noor Motor Stores, Relief Road Cross Lane, Ahmedabad.
New Motor House, Station Road, Ahmedabad.
R. Ramanlal & Co., Station Road, Ahmedabad.
S. D. Patel & Co., Outside Sarangpur Gate, Bhadra, Ahmedabad.
The Ahmedabad Motor Ltd., Lal Darwaja, Ahmedabad.
The Gujarat Vulcanizing Works, Station Road, Ahmedabad.
The New International Motor Ltd., Opp. Station & Mirzapur Road, Ahmedabad.
Vadwala Motor Stores, Kerosene Bazar, Ahmedabad.

BALL & ROLLER BEARINGS

Ahmedabad Hardware Stores, Relief Road, Ahmedabad.
Atmaram Mohanlal Panchal, Rantiwadi, Mirzapur, Ahmedabad.
I. D. A. Company, Gheekanta Road, Ahmedabad.
Jethabhai Bros., Outside Panchkuva, Ahmedabad.
Kevco Engineering Works, Nishat Shibag, Ahmedabad. Phone 2676 Grams : "VIVA." Works at Khanpur.
Lory Engineering Corporation, Behind Central Fire Brigade, Ahmedabad.
Natverlal M. Fadia & Co., Kapasia Bazar, Ahmedabad.
Nima Trading Co., Cross Lane, Ahmedabad.
SHETH STORES TRADING CO., Deepak Chambers, Station Road, Ahmedabad. Phone : 3470; Grams : "LUCID"; Stockists of NBC, RIV Hoffman; R & M Ball & Roller Bearings.

BANKS

Ahmedabad Central Co-operative Bank Ltd., Near Relief Cinema, Relief Road.
Ahmedabad Mercantile Co-operative Bank Ltd., 5426, Astodia Road.
Ahmedabad People's Co-operative Bank Ltd., Karanj, Bhadra.
Allahabad Bank Ltd., Pankore Naka.
Bank of Baroda Ltd., Premabhai Hall, Bhadra.
Bank of Bikaner Ltd., Cross Lane, Railwaypura.
Bank of India Ltd., Bhadra.
Central Bank of India Ltd., 86, Parimal Society, Ellis Bridge, Ahmedabad.
Devkaran Nanjee Banking Co., Ltd., Manek Chowk, Municipal Building.
Gadodia Bank Ltd., Maskati Market.
Hind Bank Ltd., Maskati Market.
Hindustan Commercial Bank Ltd., Astodia, Chakla.
Industrial Bank of Western India Ltd., Lal Darwaja.
Jodhpur Commercial Bank Ltd., Revdi Bazar.
Punjab National Bank Ltd., 8, Swastik Society, Ellis Bridge.
State Bank of India, Bhadra, Ahmedabad.

BATTERIES

BOMBAY GARAGE (AHMEDABAD) LTD., Shahibag Road, Ahmedabad 4. Grams : "PARKCHIN." Phone : 4615.

BELTINGS (TEXTILE) MANUFACTURERS AND SUPPLIERS

Ahmedabad Hardware Stores, Relief Road, Ahmedabad.
Allied Engineers, Reid Road, Ahmedabad.
Behari Bros., Outside Panchkuva, Ahmedabad.
Gujarat Corporation (India) Ltd., Harisadan, Char Rasta, Ahmedabad.
H. Chokshi & Co., Kapasia Bazar, Ahmedabad.
Nima Trading Co., Cross Lane, Ahmedabad.

BOBBINS

Asarwa Bobbin Works, Nilkanth Mahadev, Asarwa.
Bharat Bobbins Ltd., Grand Hotel Building, Lal Darwaja.
National Bobbin Co., 456, Panchkuva.
Nima Trading Co., Cross Lane, Ahmedabad.
Panchal Keshavlal Ambaram & Bros., Gheekanta, Pitalia Bumba, Near Dabadia Kuva, Ahmedabad 1.
Shree Krishna Textile Works, Salapose Road.
SWASTIK TEXTILE TRADING CO., PRIVATE LTD., Motilal Hirabhai Market, Railwaypura Post, Ahmedabad 2.
Welspun Bobbin Company, Reid Road, Ahmedabad 2.

BOILER ACCESSORIES

C. B. Sutaria & Bros., Cross Lane, Opp. Railway Station, Ahmedabad
E. A. Latif & Son, Revdi Bazar, Railwaypura Post, Ahmedabad.

BOLTS, NUTS AND SCREWS

Ahmedabad Hardware Stores, Relief Road, Ahmedabad.
Allied Engineers, Reid Road, Ahmedabad.
Behari Bros., Outside Panchkuva, Ahmedabad.
H. Chokshi & Company, Kapasia Bazar, Ahmedabad.

BUILDERS AND CONTRACTORS

Advance Construction Co., Dariapur, Lunsawada, Ahmedabad.
Ahmedabad Iron & Hardware Mart, 304, Lokhand Bazar, Ahmedabad.
Ahmedabad General Engineering Works, 522 1, Outside Panchkuva Gate, Ahmedabad.
Cama Construction Co., Gujarat Stores Building, Relief Road, Ahmedabad.
Fabricated Steel & Construction Co., Ltd., Civil Hospital Works, Jehangirpura, Ahmedabad.
Free India Construction Co., Shrinagar Colony, Gita Mandir Road, Ahmedabad.
Hindustan Cement Pipes and Concrete Construction Co., Khadia, Char Rasta, Ahmedabad.

CABLES & INSULATION MATERIALS

Radiant Electric & Machinery Co., Maneck Bhavan, 2759, Relief Road, Ahmedabad. Phone : 6272 A, Dalal Chambers, Bruce St., Fort, Bombay 1.

CEMENT

Bharat Cement Depot, Char Rasta, Gandhi Road, Ahmedabad.
CEMENT MARKETING CO. OF INDIA PRIVATE LTD., Bombay Mutual Building, Tilak Road, Ahmedabad.
Venkatesh Cement Depot, 1448, New Madhupura, Ahmedabad.

CENTRIFUGAL PUMPS

Forge and Blower Co., Naroda Road, Ahmedabad.
Jagdish Textile & Engineering Co., Relief Road, Kadiakui, Ahmedabad.
Mistry Ambalal Jetharam, Iron & Brass Factory, Gheekanta Road, Phone. 3083. Grams : "CLOTHPRINT."
Modern Engineering & Moulding Co., Shahpur Mills Compound Phone : 2624. Grams : "Helical."
Panchal Engineering Works, Dariapur, Char Rasta, Ahmedabad Phone : 4136. Grams : "Nozzles."
Wellknown Brothers, 2414/B-2, Relief Road, Ahmedabad.

CHEMICALS AND DYESTUFFS

Amalgamated Chemicals and Dyestuffs Co., Ltd., Opp. Patharki Masjid, Astodia, Ahmedabad.
Amritlal & Co., Ltd., Prajapati Building, Khadia, Char Rasta, Ahmedabad.
Capco Ltd., Capco House, Khanpur, Ahmedabad.
Ciba Dyes Ltd., Relief Road, Ahmedabad.
Commercial Chemical Industries, Gheekanta Road, Ahmedabad.
Emery Chemical Co., 328, Asarwa Chakla, Ahmedabad.
French Dyes & Chemical (India) Ltd., Kavas Villa, Salapose Road, Ahmedabad.
Imperial Chemical Industries (India) Ltd., Mangaldas Girdhardas Bungalow, Lal Darwaja, Ahmedabad.
Indo-British Chemical Co., Astodia Chakla 1, Ahmedabad.
Indokem Ltd., Gujarat Samachar Building, Khanpur, Ahmedabad.
Jayant Chemical Co., Haridas Acharatial Building, Kapasia Bazar, Panchkuva, Ahmedabad 2.

PHOENIX COLOUR CO., Dalal Wada, opp. Electricity House, Relief Road, Lal Darwaja, Ahmedabad (India).

Prem Roy Bros., L. K. Trust Buildings, Panchkuva, Ahmedabad 2.
Tex Dyes & Engineers, L. K. Trust Buildings, Revdi Bazar, Ahmedabad.

CHEMICAL MANUFACTURERS, IMPORTERS AND STOCKISTS

AHMEDABAD MANUFACTURING AND CALICO PRINTING CO., LTD., THE, (Calico & Jubilee Mills). Post Box Nos. 12 & 173, Ahmedabad; Manufacturers of Organdie, Prints, Saris, Voils, Lawn, Handkerchiefs, Towels, Mosquito Netting, Poplins, Shirtings, Dhoties, Longcloth, Drills, Blankets, Sewing thread and Caustic Soda, Liquid Chlorine, Calcium and Sodium, Hydrochlorites, Hydrochloric Acid, etc. Managing Agents: Karamchand Premchand Private Ltd., Phone: 51001.

Alarakh Haji Kadarbux Gulwala, Astodia Road, Ahmedabad.
Badridas Wishwanath Khanna, 1/19, Astodia, Darwaja, Ahmedabad.
Bhagwanlal Tejaji Kharawala, Astodia Road, Ahmedabad.
Capco Limited, Capco House, Khanpur, Ahmedabad.
C. B. Sutaria Bros., Cross Lane, Opp. Railway Station, Ahmedabad.
Gujarat Corporation (India) Ltd., Harisadan, Char Rasta, Ahmedabad.
Harilal S. Doshi, Kapasia Bazar, Opp. Haridas Market, Ahmedabad.
L. K. Trivedi & Co., Astodia, Ahmedabad.
Sharma Trading Corporation, Astodia Road, Ahmedabad.
Tefaji Faraaram Kharawala Ltd., Astodia Road, Ahmedabad.
Textile Dyechem Corporation, Astodia Road, Ahmedabad.
U. K. Aniline Dyes Auxiliaries and Machinery, 138-40, Princess Street, Ahmedabad.
Umesh Trading Co., Chhotalal Building No. 1, Relief Road, Kadiakui, Ahmedabad.

CHEMISTS AND DRUGGISTS

Ahmedabad Alumbic Depot, Three Gates, Ahmedabad.
All Traders, Ellis Bridge, Ahmedabad.
American Oil Trading Co., The, Revdi Bazar, Ahmedabad 2.
Amrutlal M. Modi, Three Gates, Ahmedabad.
B. C. Saraiya & Co., Three Gates, Ahmedabad.
Bhanuprasad & Co., S. S., Three Gates, Ahmedabad.
Bharat Medical Stores, Gandhi Road, Ahmedabad.
Bhikhalal Chhaganlal Desai, 3078, Three Gates, Ahmedabad.
Bhogilal Brothers, Gandhi Road, Ahmedabad.
B. Nagindas & Co., Raipur Chakla, Ahmedabad.
B. Parikh & Co., Gandhi Road, Ahmedabad.
C. B. Shah & Co., Near Civil Hospital, Asarva, Ahmedabad.
Chandrakant Navsukhlal & Co., Three Gates, Ahmedabad.
Chandulal M. Desai, Gandhi Road, Ahmedabad.
Chandulal Premchand, Three Gates, Ahmedabad.
Chimanlal Kuberdas Modi, Three Gates, Ahmedabad.
Chimanlal Madhavlal & Co., Three Gates, Ahmedabad.
Chimanlal Sankalchand, Pankore Naka, Ahmedabad.
Chinubhai Motilal Saraiya, Three Gates, Ahmedabad.

CHUNILAL MAYACHAND MEHTA (Chasmawala), Three Gates, Ahmedabad. Chemist, Druggist & Optician. Phone: 2563. Grams: 'EYEDROPS'.

C. R. Balkrishna & Co., Three Gates, Ahmedabad.
C. S. Patel & Co., Ramakada Market, Ahmedabad.
Dahyabhai Nanaa & Co., Three Gates, Ahmedabad.
Dahyabhai Sakalchand & Bros., Three Gates, Ahmedabad.
D. P. Dave & Co., Raipur, Ahmedabad.
Himatlal Ratilal, Pankore Naka, Ahmedabad.
Hind Medical and General Stores, Gandhi Road, Ahmedabad.
Hiralal Bhagwandas Saraiya, Three Gates, Ahmedabad.
H. Pandit & Co., Three Gates, Ahmedabad.
H. T. S. Attarwala, Three Gates, Ahmedabad.
Indulal H. Shah, Gandhi Road, Ahmedabad.
Jayantilal H. Shah, Ellis Bridge, Ahmedabad.
Jayant Medical Stores, Ramakada Market, Ahmedabad.
J. B. Shah & Co., Pankore Naka, Ahmedabad.
Jivanlal T. Bhatia, Dhikwa Chowki, Ahmedabad.
J. J. Parikh & Bros., Three Gates, Ahmedabad.
J. N. Patel & Co., Gandhi Road, Ahmedabad.
J. S. Brothers, Delhi Chakala, Ahmedabad.
Kamalesh Corporation, Reid Road, Ahmedabad.
Kantilal Jesingbhai & Co., Three Gates, Ahmedabad.
K. A. Vakil & Co., Three Gates, Ahmedabad.
Krishna Medical Stores, Sarangpur Chakla, Ahmedabad.
Mahesh Medical Stores, Raipur, Ahmedabad.
Manubhai Jamnadas Sanghavi, Three Gates, Ahmedabad.
Mehta Medical Stores, Delhi Chakala, Ahmedabad.
M. Narandas & Co., Raipur Chakla, Ahmedabad.
Mohanlal & Co., Pankore Naka, Ahmedabad.
Mohanlal Shankarlal, Three Gates, Ahmedabad.
Nagindas Dahyabhai, Kalupur Road, Ahmedabad.
Naresh Medical Stores, Ghee Kanta Road, Ahmedabad.
National Drug Agency, Gandhi Road, Ahmedabad.
National Medical Stores, Gandhi Road, Ahmedabad.
Natvarlal & Brothers, Pankore Naka, Ahmedabad.
Natvarlal C. Desai, Gandhi Road, Ahmedabad.
Nerol Agency, Three Gates, Ahmedabad.
Orient Medical Agencies, Fuvara, Gandhi Road, Ahmedabad.
Pandit Shah & Co., Three Gates, Ahmedabad.
Panvel Pharmacy, Gandhi Road, Ahmedabad.
Parekh Brothers, Gandhi Road, Ahmedabad.
Parekh Medical Stores, Gandhi Road, Ahmedabad.
Parmanand Sheth & Co., Gandhi Road, Ahmedabad.
Patel Brothers, Gandhi Road, Ahmedabad.
P. Chhotalal Shah & Co., 3084, Three Gates, Ahmedabad.
Popatlal Manilal, Delhi Chakala, Ahmedabad.
Ramanlal Bhagat & Bros., Raipur Chakla, Ahmedabad.
Ramanlal B. Shah, Dandigarani Pole, Ahmedabad.
Rasiklal Mulshankar & Co., Chandla, Ahmedabad.
Rasik Stores, Three Gates, Ahmedabad.
R. Raman & Co., Gandhi Road, Ahmedabad.
Sagunraj Mehta, Gandhi Road, Ahmedabad.
Sankalchand Chunilal Gandhi, Three Gates, Ahmedabad.
Shah Medical Stores, Relief Road, Ahmedabad.
Shantilal Ambalal, Gandhi Road, Ahmedabad.
Shantilal Bhogilal & Co., Three Gates, Ahmedabad.
Swaminarayan Medical Stores, Pankore Naka, Ahmedabad.
Thakore Stores, Khadia, Ahmedabad.
Trikamlal Mohanlal & Co., Three Gates, Ahmedabad.
Union Traders, Three Gates, Ahmedabad.
Universal Pharmacy, Gandhi Road, Ahmedabad.
V. Mansukhlal & Co., Raipur, Ahmedabad.
Vora Brothers, Relief Road, Ahmedabad.

CINEMAS AND THEATRES

Advance Talkies, Lal Darwaja, Ahmedabad.
Ashok Talkies, Santi Bhavan Theatre, Gheekanta Road, Ahmedabad
Bharat Bhuwan Theatre, Gheekanta Road, Ahmedabad.
Central Talkies, Richey Road, Ahmedabad.
Cinema de France, Richey Road, Ahmedabad.
Grand Theatre, Panchkuwa Gate, Ahmedabad.
Krishna Cinema, Zaveriwad, Ahmedabad.
Laxmi Talkies, Gheekanta Road, Ahmedabad.
L. N. Talkies, Gheekanta Road, Ahmedabad.
Model Theatres Ltd., Gandhi Road, Ahmedabad.
Novelty Talkies, Gheekanta Road, Ahmedabad.
Parimal Talkies, Opp. Pitalia Bumba, Gheekanta Road, Ahmedabad
Pratap Talkies, Gandhi Road, Opp. Fuvara, Ahmedabad.
Rajnagar Talkies, Outside Gomtipur Gate, Ahmedabad.
Regal Talkies, Gheekanta Road, Ahmedabad.
Relief Cinema, Jalapose Road & Relief Road Corner, Ahmedabad
Rosy Talkies, Outside Sarangpur Gate, Opp. Madhav Bang, Ahmedabad.
Rupam Theatre, Nagorishala, Patanpole, Ahmedabad.
Saraswati Talkies, Opp. Railway Station, Ahmedabad.
Vasant Talkies, Outside Prem Darwaja, near Idgah Police Chowky, Ahmedabad

CLEARING & FORWARDING AGENTS

EASTERN STORES CO., Kerosene Bazar, Ahmedabad.

COCKS, VALVES & GUN METAL WATER & STEAM FITTINGS

M. H. Brothers, Kalupur Road, P.O. Box No. 81, Ahmedabad.

WELLKNOWN BROTHERS, Relief Road, Near Zakariya Masjid, Ahmedabad 1 (India). Phone: 4784; Grams: WELL-KNOWN."

COTTON MILLS

Ahmedabad Advance Mills Ltd., Spindles 49,144, Looms 1,016 (Mg. Agents: Tata Industries, Ltd., Bombay House, 24, Bruce Street, Fort, Bombay), Mill at Shahibag Road, outside Delhi Gate, Ahmedabad.

Ahmedabad Cotton Mfg. Co., Ltd. (Bagicha Mill), Spindles 25,260, Looms 516. Agents: Amritlal Hargovandas & Bros., Ltd., Office on Mill Premises, outside Sarangpur Gate, Ahmedabad.

Ahmedabad Jaybharat Cotton Mills Ltd. (formerly Bharat Laxmi Cotton Mills Ltd.), Spindles 46,508, Looms 810. Managed by Board of Directors. Mill beyond Kankaria Railway Siding, Mithipur, Ahmedabad.

AHMEDABAD JUPITER SPG., WVG. & MFG. CO., LTD., Spindles 34,488, Looms 667. Agents: M. Parekh & Co., Private Ltd., 28, Apollo Street, Fort, Bombay. Mills at Dudheshwar Road, Ahmedabad. Manufacturers of Medium, Fine and Superfine cloth, Poplins, Shirtings, Sarees, Dhoties, Voils, Table cloth, Servettes and Handkerchiefs. WELL KNOWN FOR REINFORCED POPLINS.

Sheth Chamanlal Group of Mills

THE RAJNAGAR SPG., WVG. & MFG. CO., LIMITED

Near Idgah Gate, Post Box No. 124
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Always Select

"RAJCORIZED" PRE-SHRUNK SHIRTINGS, COATINGS AND POPLINS

MERCERISED AND DYED POPLINS, DHOTIES, LONG CLOTH, SHIRTINGS, DORIAS, PRINT LAWN, VOILES, POPLINS, ETC.

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G. H. QUALITY YARN

DOUBLING, GREY, MERCERISED STAPLE FIBRE

FOR SUPERIOR WEAVES

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Telegrams : **"GRACIOUS"**

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Office :
BHARAT HOUSE
APOLLO STREET
BOMBAY 1

Telephones :
251398 & 253081

Telegrams : **"VICTOMILL"**

MILLS:
Sewri, Bombay

★

Specialities

DHOTIES, SHIRTINGS

GADLAPATS

Telephone : **71142**

Telegrams : **"JUBILANT"**

Ahmedabad Kaiser-I-Hind Mills Co., Ltd. (formerly Ahmedabad Merchants Spinning Mills Co., Ltd.), Spindles 21,796, Looms 486. Agents: Ramanlal Kanaiyalal & Co. Ltd., outside Raipur Gate, Ahmedabad.

Ahmedabad Laxmi Cotton Mills Co., Ltd., Spindles 28,604, Looms, 570. Agents: Hariprasad Jayantilal & Co., Ltd., outside Raipur Gate, Ahmedabad.

AHMEDABAD MANUFACTURING AND CALICO PRINTING CO., LTD. THE, (Calico and Jubilee Mills); Post Box Nos. 12 & 173, Ahmedabad; Manufacturers of Organdie, Prints, Saris, Voils, Lawn, Handkerchiefs, Towels, Mosquito Netting, Poplins, Shirtings, Dhoties, Longcloth, Drills, Blankets, Sewing thread and Caustic Soda, Liquid Chlorine, Calcium & Sodium, Hydrochlorites, HydrochloricAcid, etc., Managing Agents: Karamchand Premchand Private Ltd. Phone: 51001.

Ahmedabad New Cotton Mills Co., Ltd., Spindles 22,516, Looms 488. Agents: Narottam Chandulal & Co., Ltd., Mills near Khokra, Mehemdabad, Ahmedabad.

Ahmedabad New Textile Mills Co., Ltd., Nos. 1 & 2 (formerly Javeri Spg. & Mfg. Co., Ltd.), Spindles, 37,660, Looms 902. Agents: Narayanlal Jivanlal & Co., Ltd., outside Raipur Gate, Ahmedabad.

Ahmedabad Sarangpur Mills Co., Ltd., Spindles 30,992, Looms 560. Agents: Himatlal Motilal & Co., Ltd., outside Raipur Gate, Ahmedabad.

Ahmedabad Shri Rama Krishna Mills Co., Ltd., Spindles 28,744, Looms 502. Agents: Chimanlal Manekial & Co., Ltd., Gomtipur Road, Ahmedabad.

Ajit Mills Ltd., Rakhial Road, Ahmedabad, Spindles 25,068, Looms 513. Agents: Chinubhai Naranbhai & Co., Ltd. Office on Mill premises

Ananta Mills Ltd., Spindles 20,888, Looms 438. Agents: Jayantilal Amratlal Ltd., Post Box No. 42, Ahmedabad. Mill at Rakhial Road, Ahmedabad.

Aruna Mills Ltd., Spindles 42,768, Looms 912. Agents: P. M. Hutheesingh & Sons Ltd., Post Box No. 1,053, Ahmedabad; Mills at Naroda Road, Ahmedabad.

Arvind Mills Ltd., Spindles 62,448, Looms 1,216. Agents: Narottam Lalbhai & Co., Naroda Road, Ahmedabad.

ARYODAYA GINNING AND MFG. CO., LTD. (formerly Ahmedabad Vyapar Ootejack Spinning & Mfg. Co. Ltd.), Spindles 35,908, Looms 892. Agents: Mangaldas & Brother Private Ltd., Asarva Road, Ahmedabad 11.

Aryodaya Spinning and Weaving Co., Ltd. (Nos. 1 & 2), Spindles 46,620, Looms 974. Agents: Mangaldas & Balabhai & Co., P.O. Box No. 146, Ahmedabad. Mills at Asarva Road, Ahmedabad.

Asarwa Mills Ltd., Spindles 27,836, Looms 594. Kodak House, Hornby Road, Fort, Bombay. Mills at Asarwa Road, Ahmedabad.

Asoka Mills Ltd., Spindles 37,368, Looms 914. Agents: Lalbhai Dalpatbhai & Co., Post Box No. 55, Ahmedabad; Mills at Naroda Road, Ahmedabad.

Bechardas Spg. & Wvg. Mills Co., Ltd., Spindles 19,320, Looms 455. Agents: Durgaprasad S. Lashkari & Co., Rakhial, Ahmedabad.

Bhalakia Mills Co., Ltd., Spindles 18,580, Looms 500. Agents: Chandulal & Co., Ltd., Kankaria Road, Ahmedabad.

Bharat Suryodaya Mills Co., Ltd. (formerly India Spg. & Wvg. Co., Ltd.), Spindles 17,372, Looms 412, Agents: Chaturbhujdas K. M. & Co., Managing Agents, Post Box No. 125, Ahmedabad.

Bharatkhand Textile Mfg. Co., Ltd., Nos. 1 & 2, Spindles 35,696, Looms 854. Agents: Jivanlal Girdharlal & Co., Private Ltd., Post Box No. 30, Ahmedabad. Mills at Camp Road, Ahmedabad.

Bihari Mills Ltd., Spindles 25,172, Looms 440. Agents: Motilal Harilal & Co., Ltd., P.O. Box No. 4, Ahmedabad. Mills near Khokra, Mehmedabad, Ahmedabad.

City of Ahmedabad Spg. & Mfg. Co., Ltd., Spindles 24,376, Looms 867. Agents: Chamanlal Mangaldas & Sons, Kankaria Road, Ahmedabad.

Commercial Ahmedabad Mills Co., Ltd., Spindles 32,168, Looms 618. Agents: Dhanjibhai & Tricumlal & Co., Ltd., near Idgah Chowki, Asarwa, Ahmedabad.

Fine Knitting Co., Ltd., Spindles 9,000. Agents: H. Keshavlal & Co., near Chamunda Mata, Post Asarwa, Ahmedabad.

Girdhardas Harivallabdas Mills Ltd. (formerly Rajnagar Mills No. 2), Spindles 21,808. Agents: Chamanlal Mangaldas & Co., near Idga Gate, Ahmedabad.

Gujarat Hosiery Factory, Spg., Mill, Spindles 12,268. Owners: C. C. Dalal & Co., Rakhial Road, Ahmedabad.

Harivallabhdas Mulchand Mills Co., Ltd., Spindles 21,376, Looms 451. Agents: Girdharlal Harilal & Co., outside Dariapur Gate, Ahmedabad.

Hathisingh Mfg. Co., Ltd., Spindles 13,384. Agents: Manekial Mansukhbhai & Co., Post Box No. 2, Ahmedabad. Mills near Saraspur Gate, Ahmedabad.

Himabhai Mfg. Co., Ltd., No. 1, Spindles 18,760, Looms 436. Agents: Dhirajlal Khushaldas & Bros., near Saraspur Gate, Ahmedabad.

Jehangir Vakil Mills Co., Ltd., Spindles 37,092, Looms 761. Agents: Rustomji Mangaldas & Co., Ltd., outside Delhi Gate, Ahmedabad.

Kalyan Mills Ltd. (Deepak Textile Industries Ltd.), Leaseholders, Spindles 14,448, Looms 393. Director-in-Charge: H. A. Mehta, 10 Camp, Ahmedabad. Mills at Naroda Road, Ahmedabad.

Lalbhai Tricumlal Mills Ltd., Spindles 29,936, Looms 786. Agents: Chinubhai Lalbhai & Bros. Ltd., Rakhial Road, Ahmedabad.

Maheshwari Mills Ltd. (formerly Ahmedabad Cotton & Waste Mfg. Co., Ltd.), Spindles 13,808, Looms 519. M s. T. C. Munshaw & K. C. Munshaw, Directors-In-charge, Post Box No. 79, Ahmedabad Mill at Shahibaug Road, Ahmedabad.

Manekial Harilal Spg. & Mfg. Co., Ltd., Spindles 10,168, Looms 736. Agents: Harilal Harivallabhdas & Co., Ltd., Ahmedabad.

Manekchowk & Ahmedabad Mfg. Co., Ltd., Nos. 1 & 2, Spindles 31,128, Looms 812. Agents: Hiralal Tricumlal & Sons, Outside Dariapur Gate, Ahmedabad.

Marsden Spg. & Mfg. Co., Ltd., Spindles 23,508, Looms 482. Agents Marsden Brothers & Co., Ltd, Rakhial Road, Ahmedabad.

Monogram Mills Co., Ltd., Spindles 26,228, Looms 528. Agents: Manilal Marsden & Co., Ltd., Rakhial, Ahmedabad.

Nagri Mills Co., Ltd., Spindles 23,432, Looms 500. Agents: Popatlal Chimanlal & Co., Rajpur, Gomtipur Road, Ahmedabad.

New Asarwa Mills Private Ltd., The (formerly Asarva Mills Ltd No. 2): Spindles: 18,812, Looms, 436. P.O. Railwaypura Ahmedabad 2.

New Commercial Mills Co., Ltd., Spindles 45,836, Looms 866. Agents Trikamlal Bhogilal & Co., Ltd., Naroda Road, Ahmedabad.

New Gujarat Cotton Mills Ltd., (formerly Gujarat Cotton Mill) Spindles 30,590, Looms 606. Agents: Kanoria & Co Ltd., 8 Royal Exchange Place, Calcutta, Naroda Road, Ahmedabad.

New Manekchowk Spg. & Wvg. Co., Ltd., Spindles 20,656, Looms 628. Agent, Shoth Bharat Kumar Chinubhai, Near Idga, at Asarwa, Ahmedabad

New National Mills Ltd., Spindles 22,980, Looms 472. Agents Trikamlal Bhogilal Sons & Co., Rakhial Road, Ahmedabad.

New Rajpur Mills Co., Ltd. (formerly Rajpur Mill Ltd.), Spindles 26,784, Looms 524. Agents: Bhikhabhai Jivabhai & Co., Privat Ltd., Gomtipur Road, Ahmedabad.

NEW SWADESHI MILLS OF AHMEDABAD, LTD., Naroda Road, Ahmedabad; Phone: 2828; Gram: "NEWSWADESI"; Spindles 39,280, Looms 848.

Nutan Mills Ltd., Spindles 24,840, Looms 572. Agents: Jagabhai Bhogilal Nanavaty & Co., Ltd., Anil Road, viz Vora's Roja, Railwaypura Post, Ahmedabad.

Patell Mills Co., Ltd. (formerly Gomtipur Spg., Wvg. and Mfg Co Ltd.), Spindles 13,824, Looms 356. Agents: Dhirajlal Chunilal & Co., Gomtipur Road, Ahmedabad.

Raipur Mfg. Co., Ltd., Spindles 31,120, Looms 636. Agents: Lalbhai Dalpatbhai & Co., Post Box No. 54, Ahmedabad. Mills outside Saraspur Gate, Ahmedabad.

RAJNAGAR SPG., WVG. & MFG. CO., LTD., THE, Nos. 1 & 2, Spindles 48,088, Looms 1,095. Agents: Mangaldas Girdhardas Parekh Private Ltd., near Idgah Gate, Post Box No. 124, Ahmedabad.

Rohit Mills Ltd., Spindles 33,156, Looms 648. Agents: Lallubhai Gordhandas Ltd., office on mill premises. Mills, Kokhra Mehmedabad, Mithapur, Ahmedabad.

Rustom Jehangir Vakil Mills Co., Ltd., Spindles 23,256, Looms 406. Agents: Kantilal Shantilal & Co., outside Delhi Gate, Ahmedabad.

The Sarangpur Cotton Mfg. Co., Ltd., No. 1 & No. 2 Mills - Ahmedabad.

THE
SARANGPUR COTTON MFG. CO., LTD.
Phones: 51118, 51524 & 51488. Grams: "MOTOR"
No. 1 & No. 2 Mills, AHMEDABAD.
Managing Agents:
Sakarlal Balabhai & Co. Ltd., Manufacturers of High Class Saries, Dhoties, Prints, etc.

Saraspur Mills, Ltd. (formerly Saraspur Manufacturing Co., Ltd.), Spindles 36,044, Looms 846. Agents: Lalbhai Dalpatbhai Sons & Co., near Saraspur Gate, Ahmedabad.

Shorrock Spg. & Mfg. Co., Ltd., Spindles 36,648, Looms 720. Agents: Mafatlal Chandulal & Co. (Ahmedabad) Ltd., Asarwa Road, Ahmedabad.

Shri Ambica Mills Ltd., Nos. 1 & 2 (formerly Chandrakant Mills Ltd.), Spindles 74,484, Looms 1,325. Agents: Harivallabhdas Kalidas & Co., Kankaria Loco Siding, Ahmedabad.

Silver Cotton Mills Co., Ltd., Spindles 23,592, Looms 506. Agents: Gopalbhai Balabhai & Co. Ltd., Kankaria Loco Siding, Ahmedabad.

SRI VIVEKANAND MILLS LTD., Spindles 25,928, Looms 456. Agents: Nanubhai Manekla! & Co. Ltd., Railwaypura, Rakhial Road, Ahmedabad. Managing Directors: C. N. Munshaw, B. N. Munshaw.

Tarun Commercial Mills Ltd., (formerly Gujarat Spg. & Wvg. Co., Ltd.), Spindles 28,792, Looms 640. Managed by Board of Directors, office on mill premises. Mills at outside Kalupur Gate, Ahmedabad.

Vijay Weaving Works (Vijay Fabrics), 676 12, Railwaypura, Ahmedabad.

Vijaya Mills Co., Ltd., Spindles 40,176, Looms 780. Agents: Haridas Achratlal & Co., Ltd., Naroda Road, Ahmedabad.

Vikram Mills, Ltd., Spindles 35,340, Looms 805. Agents: Ramanlal Lallubhai, Ltd., outside Saraspur Gate, Post Railwaypura, Ahmedabad.

CYCLES AND CYCLE ACCESSORIES

Ahmedabad Cycle and Motor Trading Co., Ltd., Richey Road, Ahmedabad.

Allies Cycle & Motor Co., Inside Panchkuva, Ahmedabad.

All India Cycle & Motor Co, Inside Panchkuva, Ahmedabad

Bhagwati Cycle Stores, Inside Panchkuva, Ahmedabad

Bhailal & Co, Khadia Char Rasta, Ahmedabad.

Bharat Cycle & Motor Co., Richey Road, Ahmedabad

Gujarat Cycle & Motor Co, Richey Road, Ahmedabad.

Jain Brothers, Outside Panchkuwa, Ahmedabad.

Jitendra Trading Co, Old Mahajanwada, Ahmedabad.

Kalpana Cycle Co. Inside Panchkuva, Ahmedabad.

Manubhai Patel & Co., Inside Panchkuva Ahmedabad

Model Cycle Co, Khadia Char Rasta, Ahmedabad.

Modern Cycle Stores, Relief Road, Ahmedabad

National Cycle & Motor Co., Khadia Char Rasta, Ahmedabad

Natwerlal B. Dave & Co., Ltd., Khadia, Char Rasta, Ahmedabad

New Imperial Cycle Works, Inside Panchkuva, Ahmedabad.

Niranjan Cycle Co., Richey Road, Ahmedabad

Popular Trading Co., Inside Panchkuva, Ahmedabad.

Rajnagar Cycle Stores, Reid Road, Ahmedabad.

Royal Cycle Importing Co., Pankore Naka, Ahmedabad.

Sarabhai & Co., Richey Road, Ahmedabad.

Sarabhai, C., & Co., Richey Road, Ahmedabad.

Shah Brothers, Pankore Naka, Ramakada Market, Ahmedabad.

Shah Cycle Stores, Richey Road, Ahmedabad.

Shah Trading Co., Ltd., Khadia Char Rasta, Ahmedabad.

Sun Saddle Cover Works, Khadia Char Rasta, Ahmedabad.

United Cycle & Motor Co., Inside Panchkuva, Ahmedabad.

Universal Cycle & Motor Co., Richey Road, Ahmedabad.

Vijay Cycle Co., Richey Road, Ahmedabad.

DAMPCOURSING

GLADSTONE LYALL & CO., LTD., Agency Office: Prajapati Laladas Bldg., Khadia, Char Rasta, Ahmedabad. Bombay Manager: A. V. Ryan, Head Office: 4, Fairlie Place, Calcutta.

DIESEL ENGINES

Feroze P. Chalewalla, Kastoorbhai Blocks, Khanpur, Ahmedabad.

Hind Hardware Stores, Kadia Building, Relief Road, Ahmedabad.

Mistry Ambalal Jetharam, Iron and Brass Factory, Gheekanta Road, Ahmedabad.

Moulding Engineering Co, Shahpur Mills Compound, Ahmedabad.

Nima Trading Co., Cross Lane, Ahmedabad.

Ranjit Electric and Engineering Corporation, Madina House, Near Jakaria Masjid, Relief Road, Ahmedabad.

S. Sutaria & Co, 697 32-6, Reid Road, Ahmedabad.

DYEING AND PRINTING COMPANIES

Ahmedabad Dyeing and Printing Ltd., Dudeshwar Road, Ahmedabad.

Ahmedabad Textile Engraving Works, New Cotton Mills Compound, Ahmedabad.

Hindustan Calico Engraving Works, 1332, Tajpur, Nadiawad, Ahmedabad.

Honesty Calico Printers, New Cotton Mills No 1, Kankaria Road, Ahmedabad.

Mehta Dyeing & Printing Works, New Cotton Mills No 1, Raipur Gali, Ahmedabad.

P. R. Dyeing and Printing Works, Dasha Disha Wadi, Astodia Chakla, Ahmedabad.

Rajendra Dyeing and Printing Mills, Madhubhai Colony, Saraspur, Ahmedabad.

Shree Laxmi Vijay Dye Works, 190, Gallar's Street, Raipur, Ahmedabad.

Shri Arunodaya Dyeing Works, Dudeshwar Road, Ahmedabad.

ELECTRIC MOTORS, GENERATORS & SETS

Radiant Electric & Machinery Co., Mangal Bhavan, 2750 Relief Road Ahmedabad; Phone 3272 Vithaldas Chambers Bruce St., Fort, Bombay.

ELECTRICAL CONTRACTORS AND ELECTRIC GOODS DEALERS

A. B. H. Trades Agencies, Richey Road, Ahmedabad.

Ahmedabad Electric Equipment Co., Hanmanwali Pole, Ahmedabad.

Ahmedabad Electric Stores, Richey Road, Ahmedabad.

Amers Engineers, Relief Road, Ahmedabad.

Asara Electric Co., Richey Road, Ahmedabad.

Bhagyodaya Electric Co., Gandhi Road, Near Post Office, Ahmedabad.

Bharat Electric Stores, Sakar Bazar Cross Lane, Ahmedabad.

British Insulated Callenders Cable Co., Ltd., Electricity House, Lal Darwaja, Ahmedabad.

CHITRA ELECTRIC TRADING CO., Dealers in Philips Lamps & Lighting; Everything Electrical & Contractors, Vasulaxmi, 15, Bharat Colony, P.O. Navjivan, Ahmedabad 14; 123, Mahatma Gandhi, Road, Bombay 1.

Choksbi Trading Co., Relief Road, Ahmedabad.

C. J. Patel & Co, Richey Road, Opp. Pada Pole, Ahmedabad.

Deepak Radio Electric Stores, Panchkuva, Mehta Building, Ahmedabad.

E. A. Latif & Son, Revdi Bazar, Railwaypura Post, Ahmedabad.

Empire Electric Co, Richey Road, Ahmedabad.

Empire Electric Stores, Richey Road, Ahmedabad.

Fine Electric Co., Richey Road, Ahmedabad.

Gopani Electric Co., Four Roads, Khadia, Ahmedabad.

Gujarat Electric Co., Ltd., Richey Road, Ahmedabad.

Hathising Engineering, Ghee Kanta, Ahmedabad.

Indian Electric Co., Richey Road, Ahmedabad.

Indo British Chemical Co., Astodia Chakla, Ahmedabad.

International Electric Equipment Co., Reid Road, Ahmedabad.

Jaya Bharat Electric Co., Pankore Naka, Ahmedabad.
Jaya Bharat Electric Syndicate, Relief Road, Ahmedabad.
Jaya Hind Electric Co., Mandvini Pole, Ahmedabad.
Jayahind Electric Corp., Ghee Kanta, Ahmedabad.
Jayant Electric Machinery Co., Raypur Chakla, Ahmedabad.
J. Bodiwala & Co., Richey Road, Opp. Pada Pole, Ahmedabad.
Jupitar Electric Co., Sarangpur, Talia's Pole, Ahmedabad.
Jwahar Electric Co., Dhikava Choki, Ahmedabad.
Jyoti Electric Trading Co., Richey Road, Ahmedabad.
Kapadia Electric Works, Richey Road, Ahmedabad.
Kevalchand & Co., Richey Road, Ratan Pole Naka, Ahmedabad.
Krishnakumar & Co., Relief Road, Ahmedabad.
Madan Electric Co., Delhi Chakla, Ahmedabad.
Mahalaxmi Electric Stores, Sarangpur, Dukharani Pole, Ahmedabad.
Mahalaxmi Trading Syndicate, Richey Road, Ahmedabad.
Mehta Electric Co., Richey Road, Ratan Pole Naka, Ahmedabad.
M. Shukla & Co., Delhi Chakla, Ahmedabad.
National Electric Stores, Richey Road, Ahmedabad.
National Electric Trading Co., Richey Road, Ahmedabad.
Noble Trading Agency, Richey Road, Ahmedabad.
Patel Bros., Bhadra, Ahmedabad.
P. G. Ghandhi & Co., Reid Road, Ahmedabad.
Prabhat Electric Syndicate Ltd., Jain Wadi, Ahmedabad.
Premier Electric Agency, Ratan Pole, Gowad, Ahmedabad.
Radiant Electric Machinery Co., Four Roads, Khadia, Ahmedabad.
Rajendra Electric Stores, Panchkuva, Ahmedabad.
Rajnagar Electric Co., Richey Road, Ahmedabad.
Ranjit Electric Co., Bala Hanuman, Ahmedabad.
Regal Trading Co., Richey Road, Opp. Pada Pole, Ahmedabad.
R. G. Bhow & Co., Opp. Jumma Masjid, Ahmedabad.
Royal Electric Stores, Relief Road, Ahmedabad.
Sardar Electric Co., Richey Road, Ahmedabad.
S. B. Bhow & Co., Opp. Jumma Masjid, Ahmedabad.
Standard Electric Works, Outside Three Gates, Ahmedabad.
Star Electric Co., Richey Road, Ahmedabad.
Star Radio & Electric Co., Ghee Kanta, Ahmedabad.
Sun Electric & Motor Stores, Richey Road, Ahmedabad.
Sun Electric Stores, Richey Road, Ahmedabad.
Suresh Electric Co., Relief Road, Ahmedabad.
Surti Electric House, Richey Road, Ahmedabad.
Tarun Electric Co., Richey Road, Opp. Pada Pole, Ahmedabad.
The Reliance Electric Co., Opp. Jumma Masjid, Ahmedabad.
Trikamlal K. Mehta, Sankdi Sheri, Ahmedabad
Trivedi Electric Co., Richey Road, Opp. Pada Pole, Ahmedabad.
Union Electric Co., Ltd., Ghee Kanta, Ahmedabad.
Venus Electric Co., Richey Road, Ahmedabad.
Vinayak Electric Co., Reid Road, Ahmedabad.
Vyas Electric Works, Madalpur, Ahmedabad.

ELECTRICAL ENGINEERS & DEALERS IN ELECTRICAL GOODS

Arvind Electric & Textile Stores, 611, Near Balahanuman, Gandhi Road, Ahmedabad.

E. A. Latif & Son, Revdi Bazar, Railwaypura Post, Ahmedabad.

General Electric Works, Relief Road, Opp. Jakaria Masjid, Ahmedabad.

Gujerat Electric Co. Ltd., The, Gandhi Road, Ahmedabad.

Radiant Electric & Machinery Co., Mangal Bhavan, 2750, Relief Road, Ahmedabad. Phone : 3272. Vithaldas Chambers, Bruce St., Fort, Bombay 1.

R. G. Bhow & Co., opp. Juma Masjid, Ahmedabad.

ELECTRICAL GOODS & APPLIANCES

Chitra Electric Trading Co., Dealers in Philips Lamps & Lighting; Everything Electrical & Contractors. Vasulaxmi, 15, Bharat Colony, P.O. Navjivan, Ahmedabad 14; 123, Mahatma Gandhi Road, Bombay 1.

STAR RADIO ELECTRIC CO.
Star House, Relief Road, AHMEDABAD
Phone : 4363 Grams : "EKCO"
Electric Engineers & Contractors.
Authorised Dealers for :
Philips Lamps, Industrial, Fancy Fittings, Radio, Hospital Equipment, Amplifier, etc., N.C.L. pipes and all electrical items.

ELECTRICAL INDUSTRIES

THE AHMEDABAD ELECTRICITY COMPANY, LTD.
Agents : Messrs. Killick Industries Ltd., Home Street, Fort, Bombay 1.
Office : "Electricity House", Lal Darwaja, Post Box No. 37, Ahmedabad 1.
K. N. Paulin, M.I.E.E., Resident General Manager.
C. J. Scudamore, M.I.E.E., M. Inst. F., Chief Engineer.
R. R. Ferris, Assistant Chief Engineer and Manager.
Brig. N. D. Bilimoria, Administration Manager.
J. G. Patel, A.M.I.E.E., Commercial Engineer and Manager.
B. S. G. Acharya, B.Sc., A.M.I.E.E., Mains Engineer.
H. D. Mehrotra, M.A., B.Com., Chief Accounts Officer.
H. G. Rees, Generatjon Engineer.
Power House : Sabarmati, Ahmedabad 5.
Central Administration Dept. : First Floor, Sorab Mansion, 38, Murzban Road, Fort, Post Box No. 109, Bombay 1.

ENGINEERING STORES

Ahmedabad Hardware Stores, Relief Road, Ahmedabad.
Allied Engineers, Reid Road, Ahmedabad.
Behari Bros., Outside Panchkuwa, Ahmedabad.
H. Chokshi & Company, Kapasia Bazar, Ahmedabad.
S. Sutaria & Co., 697,32-6, Reid Road, Ahmedabad.

ENGINEERING WORKSHOPS

Jagdish Iron & Brass Factory, 1175, Pankore Naka, Ahmedabad
Mistry Ambalal Jetharam, Gheekanta, Ahmedabad.

ENGINEERS AND CONTRACTORS

Ahmedabad General Engineering Works, 522/1, Outside Panchkuva Gate, Ahmedabad 2. Phone : 5690.

C. B. Sutaria Bros., Cross Lane, Opp. Railway Station, Ahmedabad.

Radiant Electric & Machinery Co., Mangal Bhavan, 2750, Relief Road, Ahmedabad. Phone : 3272. Vithaldas Chambers, Bruce St., Fort, Bombay 1.

Shree Mahalaxmi Engineering Works, Outside Delhi Gate, Opp. Painter Garden, Ahmedabad 1.

FIRE-FIGHTING DEALERS

M. H. Brothers, Kalupur Road, P.O. Box No. 81, Ahmedabad.

WELLKNOWN BROTHERS, Relief Road, Near Zakariya Masjid, Ahmedabad 1 (India). Phone : 4284. Grams : "WELLKNOWN."

GENERAL MERCHANTS

Associated Traders, Sethia Bldg., Relief Road, Ahmedabad.

Bharat Traders, General Merchants & Commission Agents. Phone : 7791, P.O. Box No. 1095, Ahmedabad 2.

Kishore Trading Corporation, 702/5, Revdi Bazar, Ahmedabad.

Navnitlal & Co., 485/3, Revdi Bazar, Railwaypura Post, Ahmedabad.

GRAMOPHONE DEALERS

LEOPHONE TALKING MACHINE CO., THE, 46, Gandhi Road, Ahmedabad 1. Estd. 1908. Biggest & Cheapest Wholesaling Gramophone House in India. Grams : "LEOPHONE."

HANDLING EQUIPMENT MANUFACTURERS

TEXTILE MACHINERY MANUFACTURING COMPANY, Engineers and Merchants, Lal Cinema Compound, Gomtipur Road, Ahmedabad 10.

HARDWARE MERCHANTS

A. Raman & Co., Kapasia Bazar, Ahmedabad.
A. B. Engineers, Kapasia Bazar, Ahmedabad.
A. B. Shah & Co , Revdi Bazar, Ahmedabad.
Ahmedabad Hardware Stores, Relief Road, Ahmedabad.
Allied Engineers, Reid Road, Ahmedabad
Babu & Co., Ghee Kanta Road, Ahmedabad.
Ball Bearing & Machinery Syndicate, Kapasia Bazar, Ahmedabad.
B Jhavery & Co., Relief Road, Ahmedabad.
Batliboi & Co., Reid Road, Ahmedabad.
Bihari Bros., Outside Panchkuwa, Ahmedabad.
C Vadilal & Co., Reid Road, Ahmedabad.
Eastern Hardware and Millstore Co., Reid Road, Ahmedabad.
General Commercial Agency, The, Cross Lane, Ahmedabad.
Harry Engineering Corp., Danapith, Ahmedabad.
H. Chokshi & Company, The, Kapasia Bazar, Ahmedabad.
Hutheesing Engineering Co., Ghee Kanta Road, Ahmedabad.
Jayant Radio Corporation, Bhadra, Ahmedabad.
Kamlesh Corporation, Kapasia Bazar, Ahmedabad.
Kant Engineering Co., Kapasia Bazar, Ahmedabad.
Kantilal & Co., Bhagat Niwas, Ghee Kanta Road, Ahmedabad.
Kirtilal & Co., Lunawad, Ahmedabad.
Kirtilal Nanalal & Co., Reid Road, Ahmedabad.
Laxmandas Vithaldas, Mandvi's Pole Ahmedabad
Machine Products (India) Ltd., Revdi Bazar, Ahmedabad.
Machine Tools & Hardware Corpn., Reid Road, Ahmedabad.
Manilal & Bros., Companywala Market, Kapasia Bazar, Ahmedabad.
M. D. Shah & Co., 570/1, Reid Road, Railwaypura Post, Ahmedabad.
Model Machinery Ltd., Kapasia Bazar, Ahmedabad
Natverlal M. Fadia & Co., Kapasia Bazar, Ahmedabad.
N. K. Fadia & Co., Kapasia Bazar, Ahmedabad.
Nima Trading Co., Cross Lane, Ahmedabad.
P Chandra & Co., Cross Lane, Ahmedabad.
Radiant Electric & Machinery Co., Khadia, Char Rasta, Ahmedabad.
Ranjit Electric & Eng. Corpn , Relief Road, Ahmedabad.
Regal Trading Co., Khadia Char Rasta, Ahmedabad.
Standard Materials Co., Kapasia Bazar, Ahmedabad.
S. K. Ghose & Co., Kapasia Bazar, Ahmedabad.
Satish Stores Trading Co., Kapasia Bazar, Ahmedabad.
Shah Patel & Co., Kapasia Bazar, Ahmedabad.
Shreth Stores Trading Co., Station Road, Ahmedabad.
Shivlal Virchand, Contractor, Bhut's Ambli, Ghee Kanta Road, Ahmedabad
S. Sutaria & Co., Reid Road, Ahmedabad.
Star Radio Electric Co., Ghee Kanta Road, Ahmedabad.
Swastik Eng. Works, Ghee Kanta, Ahmedabad.
Tubewells Ltd., Vishnu Bhuvan, Relief Road, Ahmedabad.
U. D Dave & Co., Relief Road, Ahmedabad.
Universal Syndicate Agency, Dariapur, Ahmedabad.

WELLKNOWN BROTHERS, Relief Road, Near Zakariya Masjid, Ahmedabad 1 (India). Phone : 4784. Grams: "WELLKNOWN."

HOSIERY MANUFACTURERS

Fine Knitting Co., Ltd., Naroda Road, Ahmedabad.

Shree Ambica Hosiery Works, New Cotton Mill No. 1 Compound, Kankaria Road, Ahmedabad.

HOTELS AND RESTAURANTS

Anand Nivas, Guest House, Opp. Krishna Cinema, Relief Road, Ahmedabad.
Bombay Hotel, Shahibaug, Ahmedabad.
Grand Hotel, Lal Darwaja, Ahmedabad.

HAV-MOR RESTAURANT, Opp. Krishna Cinema, Relief Road, Ahmedabad.

Imperial Restaurant, Relief Road, near Electric House, Ahmedabad.
Jawahar Hindu Hotel, Gandhi Road, Ahmedabad.
Jawahar Hotel, Outside Kalupur Darwaja, Ahmedabad.
Laxmi Villas Hindu Hotel, Gandhi Road, Ahmedabad.
Modern Cold Drink House, Bhadra, Ahmedabad.
Naaz Restaurant, Near Relief Cinema, Relief Road, Ahmedabad.
Niros Restaurant, Relief Road, Ahmedabad.
Patel Soda Fountain and Restaurant, 1093, near Dhana Suthar's Pole, Relief Road, Ahmedabad.
Radio Hindu Hotel, Delhi Chakla, Ahmedabad.
Railway Cold-drink & Tea House, Opp. Railway Station, Ahmedabad.
Ritz Hotel, Lal Darwaja, Ahmedabad.
Vina Restaurant, 482, Revdi Bazar Cross Lane, Ahmedabad.

ICE FACTORIES

Agarwal Ice Factory, Dudeshwar Road, Ahmedabad.
City Ice Factory, Gomtipur Road, Ahmedabad.
Gajendra Ice Depot, Bholwada's Pole, Kalupur, Ahmedabad.
Solid Ice and Coldstorage Co., near Dariakhan Gumat, Shahibaug, Ahmedabad.

IMPORTERS & STOCKISTS

H. CHOKSHI & COMPANY (CHOKSHI & CO.), Kapasia Bazar, Ahmedabad 2.

INSURANCE COMPANIES

All India General Insurance Co., Ltd., Dhanlaxmi Market, Ahmedabad.
Anand Insurance Co., Ltd., 619, Reid Road, Ahmedabad
Argus Insurance Co., Ltd., 269, Gandhi Road, Ahmedabad.
Asian Assurance Co., Ltd., Seth Haridas Bldg., Cross Lane, Station Road, Ahmedabad.
Bharat Insurance Co. Ltd., near Fuvara, Gandhi Road, Ahmedabad.
Bombay Fire Insurance Assoc., The Cellar, Khampur, Ahmedabad.
British India General Insurance Co., Ltd., Mirzapur Road, Ahmedabad.
Commercial Union Assurance Co., Ltd., Natalwala Bldg., Khadia, Char Rasta, Ahmedabad.
Commonwealth Assurance Co., Ltd., Reid Road, Ahmedabad.
Concord of India Insurance Co. Ltd., Sir Chinubhai Bldg., Revdi Bazar, Cross Lane, Ahmedabad.
Deepak General Insurance Co , Ltd., Khadia, Char Rasta, Ahmedabad.
Eastern Federal Union Insurance Co. Ltd., Lal Darwaja, Ahmedabad.
General Assurance Society Ltd., Near Model Talkies, Gandhi Road, Ahmedabad.
Hindustan Co-operative Insurance Society Ltd., Relief Road, Ahmedabad.
Home Insurance Co. Ltd., Revdi Bazar, Cross Lane, Ahmedabad.
Indian Trade and General Insurance Co. Ltd., Kapasia Bazar, Ahmedabad.
Industrial and Prudential Assurance Co , Ltd , Bhadra, Ahmedabad.
Jayabharat Insurance Co. Ltd , Vakil Bldg , Khadia, Char Rasta, Ahmedabad.
Jupiter General Insurance Co Ltd , Khadia, Char Rasta, Ahmedabad
Kaiser-I-Hind Insurance Co. Ltd. Khadia, Char Rasta Ahmedabad
National Fire and General Insurance Co , Ltd., Gandhi Road, Ahmedabad.
National Insurance Co. Ltd., Gandhi Road, Ahmedabad.
Neptune Assurance Co. Ltd , Outside Panchkuva Gali, Ahmedabad.
New Asiatic Insurance Co. Ltd., Next to Model Talkies, Gandhi Road, Ahmedabad.
New Great Insurance Co. of India Ltd., Allahabad Bank Bldg., Pankore Naka, Ahmedabad.
New India Assurance Co. Ltd., Gandhi Road, Opp. Fuvara, Ahmedabad.
New Zealand Insurance Co. Ltd., Revdi Bazar, Cross Lane, Ahmedabad.
Oriental Fire and General Insurance Co. Ltd., Relief Road, Ahmedabad.
Oriental Govt. Security Life Assurance Co., Ltd., Relief Road, Ahmedabad.

Pearl Assurance Co. Ltd., 649, Nanavati Bldg., Richey Road, Ahmedabad.

People's Insurance Co. Ltd., Richey Road, Ahmedabad.

Royal Insurance Co. Ltd., Near Zakaria Masjid, Relief Road, Ahmedabad

Ruby General Insurance Co. Ltd., Karanj, Bhadra, Ahmedabad.

Sentinel Assurance Co., Ltd., Reid Road, Ahmedabad.

South British Insurance Co. Ltd., Near Electric House, Lal Darwaja, Ahmedabad.

Standard General Insurance Co. Ltd., Khadia, Char Rasta, Ahmedabad.

Tropical Insurance Co. Ltd., 571-2, Reid Road, Ahmedabad.

Universal Fire and General Insurance Co. Ltd., Near Post Office, Gandhi Road, Ahmedabad.

Vulcan Insurance Co. Ltd., Bhadra, Ahmedabad.

Warden Insurance Co. Ltd., Three Gates, Ahmedabad.

IRON, STEEL AND BRASS WORKS

C. K. Vohora & Co., Revdi Bazar, Ahmedabad 2.

Eastern Iron & Steel Traders, The, Relief Road, Ahmedabad.

Kashiparekh Bros., 564, Reid Road, Ahmedabad.

Laxmi Vijaya Brass & Iron Works, Ghee Kanta Road, Pitalia Bamba, Ahmedabad 1. Tel. No. 3008.

Tata Iron and Steel Co. Ltd., Co-operative Bank Bldg., Near Relief Cinema, Ahmedabad.

IRON & STEEL MERCHANTS

J. RAMANLAL & CO., Estd. 1939, 675, Sakar Bazar, Cross Lane, Ahmedabad 2. Phone: 3143. Grams: "IRON."

LATHE MANUFACTURERS

RALLY METAL WORKS

(Estd. : 1939)

Relief Road, Patherkuva, AHMEDABAD.

ELECTRO-PLATERS

Manufacturers of.

Lathe Machine and Modern Construction Fittings.

LEATHER GOODS

Frion & Co., Reid Road, Ahmedabad.

H. Mansuri & Sons, Post Box 84, Ahmedabad.

Jaihind Leather Industries Ltd., Reid Road, Ahmedabad 2.

Leather Textilities Ltd., Ellis Bridge, Ahmedabad.

SWASTIK TEXTILE TRADING CO., PRIVATE LTD., Motilal Hirabhai Market, Railwaypura Post, Ahmedabad 2.

LUBRICATING OILS AND GREASES

Ahmedabad Hardware Stores, Relief Road, Ahmedabad.

American Oil & Trading Co., Jekerl Building, Revdi Bazar, Ahmedabad 2. Phone: 3709. Grams: "OILS."

Bihari Bros., Outside Panchkuva, Ahmedabad.

G. M. Patel & Sons, Kapasia Bazar, Ahmedabad.

Nima Trading Co., Cross Lane, Ahmedabad.

Ranjeet Electric & Engineering Corporation, Madina House, Near Jakaria Masjid, Relief Road, Ahmedabad.

MACHINERY IMPORTERS, DEALERS, MANUFACTURERS, ETC.

Acme Agencies, Motilal Mansion, Kapasia Bazar, Ahmedabad.

A. Bhuderbhai Kishor & Sons, Gheekanta Road, Ahmedabad.

Ahmedabad Iron & Brass Factory, Bharatkhand Mills Compound, Ahmedabad.

Ahmedabad Victoria Iron Works & Co., Ltd., The, Dudheswar Road, Ahmedabad.

A. R. Engineering Works, Near Munshi Soda Factory, Mirzapur, Ahmedabad.

Ashok Vijay Engineering Works, Delhi Darwaja, Ahmedabad.
Asiatic Bolt & Engine Ring Works, Rakhial Road, Ahmedabad.
A. Vadilal & Co., Mirzapur Road, Near Haji Building, Ahmedabad.
B. A. Panchal & Co., Gosaiji's Wanda, Gheekanta Road, Ahmedabad.
Bharat Iron & Brass Factory, Sarva, Haripur Road, Ahmedabad.
B. Kapasi & Co., Khodi Ambli, Harmanwali Pole, Ahmedabad.
B. M. Panchal & Co., Gheekanta Road, opp. Masjid, Ahmedabad.
B. P. Engineering Works, Gheekanta Road, Ahmedabad.
Brass & Iron Works, Sarangpur, Madhubhai Colony, Ahmedabad.
C. C. Mashruwala, Kapasia Bazar, Ahmedabad.
C. C. Ranchhodlal & Co., Chamunda Road, Naroda, Ahmedabad.
C. V. Engineer, Gheekanta Road, Dudhwai Pole, Ahmedabad.
Dalpatram Girdharlal & Co., Lunsawad Nariawad, Ahmedabad.
D. P. Mistry & Sons, Santram Road, Nadiad.
D. Shantilal & Co., Gheekanta Road, Bhutni Ambli, Ahmedabad.

E. A. LATIF & SON

(Estd. 1934)

Revdi Bazar, Latif Building, Ahmedabad 2.

Phone : 2226. Grams : "DIGNITY."

Specialists in Pumping Machinery and Electrical Appliances etc.

Sole Agents for India : F. & W. (Hoosier) Water Systems and "SCALOFF" Boiler Paint.

Engineer & Sons, Dariapur, Char Rasta, Ahmedabad.
Forge & Blower Co., Under Sarangpur Bridge, Ahmedabad.
G. A. Latif & Sons, Latif Bldg., Revdi Bazar, Ahmedabad
Gopaldas Khemchand Tijoriwala, Delhi Darwaja, P.O., Ahmedabad.
Govindlal Keshavlal, Gheekanta Road, Bhutni Ambli, Ahmedabad
Gujarat Engineering Co., Bava's Dehla, Prem Darwaja, Ahmedabad.
Gujarat Iron Works, Gheekanta Road, Ahmedabad.

H. CHOKSHI & COMPANY (CHOKSHI & CO.), Kapasia Bazar, Ahmedabad 2.

Harshad Iron & Brass Factory, Dariapur, Changi's Pole, Ahmedabad.
Herold Metal Corporation, Salapose Road, Near G.P.O., Ahmedabad
Hind Hardware Stores, Kadia Bldg., Relief Road, Ahmedabad
Hind Sewing Machine Works, Salapose Road, Corner Lane, Ahmedabad.
India Metal Works, Mirzapur Road, near I.T.O., Ahmedabad
Indian Engineering Works, Astodia, near Anjuman H.S., Ahmedabad
Indian Iron & Brass Works, The, City Danapith, Ahmedabad.
Indian Textile Works, The, Sarangpur, Madhubhai Colony, Ahmedabad.
Industrial Engineering Works, The, Sarangpur, Madhubhai Colony Ahmedabad.
Jagdishchandra & Brothers, Delhi Chakla, Shak Market, Ahmedabad.
Jagdish Engineering Works, Dariapur, behind Tower, Ahmedabad
Jagdish Industrial Works, outside D. G., Chhotalal's Chali, Ahmedabad.
Jagdish Iron & Brass Factory, Pankore Naka, Ahmedabad.
Joitaram Bechardas & Co., Saraspur, Ambliwad, Ahmedabad.
Jubilee Iron Works, Dariapur, Rupapari, Ahmedabad.
Karsandas Bechardas & Sons, Amdupura, Saraspur, Vora's Roja, Ahmedabad.
Kasturbhai Ramchandra & Bros., Pankore Naka, Ghanchi's Wadi, Ahmedabad.
Keshavlal Ambaram & Brothers, Gosaiji's Wanda, Gheekanta Road, Ahmedabad.
Kirtilal Nanalal & Company, Reid Road, Railwaypura Post, Ahmedabad.
Krishna Sahay Brass Factory, Delhi Chakla, Bhojwada, Ahmedabad.
Large Engineering Corporation, Revdi Bazar, Ahmedabad.
Lavjibhai Mavjibhai & Sons, City Danapith, Ahmedabad.
Laxmi Moulding Works, Asarva, Haripur Road, Ahmedabad.
Laxminarayan Sharma & Co., Lunsawada, Kumbharwada, Ahmedabad.
Laxmi Vijay Iron & Brass Works, The, Gheekanta Road, Pitalia Bumba, Ahmedabad.
Machinery Manufacturing Works, The, Khodi Anuil, Ahmedabad.
Machinery Stores Traders, 661, Kapasia Bazar, Ahmedabad.
Machinery Supplying Co., The, Kankaria Road, Ahmedabad.

Machine Tools & Hardware Corporation, Reid Road, Railwaypura, Post Box No. 1002, Ahmedabad.
M. D. Shah & Co., 570/1, Reid Road, Railwaypura Post, Ahmedabad.
Mahavir Iron & Brass Factory, Dariapur, near Ghanchi's Wadi, Ahmedabad.
Manilal & Brothers, 626, Reid Road, Ahmedabad 2.
METAL MOULDERS PRIVATE LTD., Dudheshwar Road, Ahmedabad.
Metropolitan Engineering Works, Delhi Chakla, Gheekanta Road, Ahmedabad.
Mistry, Ambalal Jetharam, Gheekanta Road, Ahmedabad. Phone: 3083. Grams: "CLOTH PRINT."
Mistry, Chhaganlal Govindlal, Lunsawada, Kumbharwada, Ahmedabad.
Mistry, Damodardas Himatlal & Co., Kalupur, Panchpati, Ahmedabad.
Mistry, Jivanlal Dhanjibhai, Gheekanta Road, opp. Masjid, Ahmedabad.
Mistry, Khodidas Motiram, Mirzapur, Rentiawadi, Ahmedabad.
Mistry, Mangaldas Jethabhai I. & B. F., Dariapur, Char-rasta, Ahmedabad.
Mistry, Mohanlal Veldas & Co., Sankadi Sheri, Dedka's Gali, Ahmedabad.
Mistry, Popatlal Narsibhai, Gheekanta Road, Bhutni Ambli, Ahmedabad.
Mistry, Shivram Ganesh & Sons, Astodia Chakla, Ahmedabad.
Mistry, Somnath Girdhardas, Tajpur, Tadni Sheri, Ahmedabad.
Mistry, Zaverbhai Rudabhai, Khadia, Wada Pole, Ahmedabad.
M. M. Panchal, City Danapith, Ahmedabad.
Modern Engineering & Moulding Co., Shahpur Mills Compound, Ahmedabad.
Monesty Engineering Works, Dariyapur, Char Rasta, Ahmedabad.
Narandas Bechardas & Bros., Dariyapur, Char Rasta, Ahmedabad.
N. Mohanlal & Co. Pankore Naka, Ahmedabad.
Navatsing Rupram I. & B. F., opp. R. C. High School, Ahmedabad.
Omkar Iron & Brass Factory, Dariapur, Char Rasta, Ahmedabad
Oriental Engineering Works, Sarangpur, Madhubhai Colony, Ahmedabad.
Padshah Brothers, Khodi Ambli, Harmanwali Pole, Ahmedabad.
Pahelwan Rustamkhan Nawabkhan, Gheekanta Road, Bhutni Ambli, Ahmedabad.
Panchal Atmaram Ishwardas, Dariapur, Rupapari, Ahmedabad.
Panchal Atmaram Mohanlal, Mirzapur, Retiawadi, Ahmedabad.
Panchal Babulal & Brothers, Dariapur, Rupapari, Ahmedabad.
PANCHAL ENGINEERING WORKS, Dariapur, Char Rasta, Ahmedabad. Phone: 4136. Grams: "NOZZLES." Manufacturers of: Diesel Engines, Centrifugal Pumps, Heavy Duty Lathes, Shaping Machines, Drilling Machines, Cloth Folding Machines, Fire Extinguishers, Fire Fighting Appliances and Textile and other Machinery Spare Parts.
Panchal Fakirchand Hirachand, Gheekanta Road, opp. Masjid, Ahmedabad.
Panchal Hirachand Revandas, Gheekanta Road, Bhutni Ambli, Ahmedabad.
Panchal Iswardas Harjivandas, Dudheshwar Road, Ahmedabad.
Panchal Jatashankar Ambalal, Golwad, M. G. Road, Viramgam.
Panchal Jivanlal Mepabhai, Gosalji's Wadis, Gheekanta Road, Ahmedabad.
Panchal Kalidas Ranchhoddas, Gheekanta Road, Hargovan Keval Street, Ahmedabad.
Panchal Kalidas Raghnath, near Munshi Soda Factory, Mirzapur, Ahmedabad.
Panchal Keshavlal Laxmichand, Dariapur, Ghanchi's Wadi, Ahmedabad.
Panchal, Lallubhai Hirabhai, Gheekanta Road, Bhutni Ambli, Ahmedabad.
Panchal, Manilal Maganlal, Rentiawadi, Mirzapur Road, Ahmedabad.
Panchal, Mathurdas Shankarlal & Bros., Gheekanta Road, Ahmedabad.
Panchal, Shivram Bhuderdas, Gheekanta Road, Dabhadia Kuva, Ahmedabad.
Panchal, Somnath Kalidas, Gheekanta Road, Ahmedabad.
Panchal, Somnath Ranchhoddas, Gheekanta Road, Butni Ambli, Ahmedabad.
Panchal, Trikamlal Maganlal, Gheekanta Road, Bhutni Ambli, Ahmedabad.
Panjab Raiht Factory, Chokha Bazar, Ahmedabad.
P. A. Panchal, Dariapur, Changis Pole, Ahmedabad.
Patel, Ambalal Narottamdas, Shahpur Nagoriwad, Ahmedabad.
Popular Textile Company, Bharatkhand Mills Compound, Ahmedabad.
Prabhudas & Co., Rentiawadi, Mirzapur Road, Ahmedabad.
Prem Roy Bros., L. K. Trust Bldg., Panchkuva, Ahmedabad 7. Grams: "SULATA."
Punjabhai Vanmalidas & Sons, Gheekanta Road, Mendi's Khancha, Ahmedabad.
Radiant Electric & Machinery Co., Mangal Bhavan, 2750, Relief Road, Ahmedabad. Phone: 3272. Vithaldas Chambers, Bruce St., Fort, Bombay 1.
Rally Metal Works, Patthar Kuva, Relief Road, Ahmedabad.
Ramchandra Iron & Brass Works, Lunsawada, Golwad, Ahmedabad.
Ramvijay Iron Works, 664, Gheekanta Road, Ahmedabad
Ranjeet Electric & Engineering Corporation, Relief Road, Near Jakaria Masjid, Ahmedabad.
Rastriya Iron Works, outside Dariapur Darwaja, Ahmedabad.
R. Keshavlal & Bros., Lunsawada, Kumbharwada, Ahmedabad.
R. Maganlal & Co., Kapasia Bazar, Ahmedabad.
Rohit Iron & Brass Factory, Delhi Chakla, Gheekanta Road, Ahmedabad.
Royal Iron Works, Kankaria Road, N. C. Mills, Ahmedabad.
Sabarmati Engineering Works, Sabarmati Railway Oil Mills, Sabarmati.
Sanchal Kalidas Ranchhodas, Gheekanta Road, Hargovan Keval Street, Ahmedabad.
Saraswati Moulding Works, Shahpur Darwaja, Marwadi Chali Ahmedabad.
Sattle Trunk Workshop, outside Prem Darwaja, Ahmedabad.
Shantilal & Co., Kalupur, Panchpati, Navgaja Pir, Ahmedabad.
Sheth Stores Trading Co., Deepak Chambers, Station Road, Ahmedabad 2. Phone: 3470
Shree Ambika Vijay & Co., Gheekanta, Gosalji's Ullada, Ahmedabad.
Shree Ambika Vijay Iron & Brass Factory, Lunsawada, Chhagara's Pole, Ahmedabad.
Shree Hanumant Vijay Iron & Brass Factory, Dariapur, Ghanchi's Wadi, Ahmedabad.
Shree Jagdish Rajnagar Iron & Brass Factory, City Danapith, Ahmedabad.
Shree Krishna Iron & Brass Factory, Lunsawada, Kumbharwada, Ahmedabad.
Shree Ramkrishna Engineering Works, Outside Dariapur Gate, Ahmedabad.
Shree Satyanarayan Iron & Brass Factory, Dariapur, Ahmedabad.
Shree Shakti Iron Works, Delhi Darwaja, Hathibhai's Wadi, Ahmedabad.
Shree Shakti Vijay Brass & Iron Works, Lunsawada, Kumbharwada, Ahmedabad.
Sitaram Iron & Brass Works, Lunsawada, Golwad, Ahmedabad.
Smith Engineering Works, Dariyapur Rupapari, Ahmedabad.
Surendra & Co., Lunsawada, Harmanwali Pole, Ahmedabad.
Swastik Engineering Works, Gheekanta, near Dudhwali Pole, Ahmedabad.
Tankalchand Raghunath Iron & Brass Factory, Gheekanta Road, Ahmedabad
The Shetna Iron Works & Co., Kankaria Road, N. C. Mills, Ahmedabad.
The Star Engineering Works, outside Prem Darwaja, Ahmedabad.
U. D. Dave & Co., Chhotalal Building, Relief Road, Ahmedabad.
Umedram K. Mistry, City Danapith, Ahmedabad.
Vinus Engineering Co., Kankaria Road, opp. Laxmi C. Mills, Ahmedabad.
Zenith Engineering Works, Kalupur Tankshal, Ahmedabad.

MARBLE AND TILES MERCHANTS

Ahmedabad Stone Supplying Co., 995, Khadia, Char Rasta, Ahmedabad.
Bharat Tiles & Marble Co., Ahmedabad.
Garlick & Co., Maskati Market, Ahmedabad.
Gupta Tiles & Marble, Raipur, Ahmedabad.
Ramanlal Motilal Shah, inside Panchkuva, Ahmedabad.
Sompura & Co., 1955, Panchkuva Road, Ahmedabad.

MATERIAL HANDLING & CONVEYORS

Radiant Electric & Machinery Co., Mangal Bhavan, 2750 Relief Road, Ahmedabad. Phone: 3272 Vithaldas Chambers, Bruce St., Fort, Bombay 1.

MILL GIN STORES SUPPLIERS

A. H. & Co., Reid Road, Ahmedabad.
A. Hasmukh & Co., L. K. Trust Building, Reid Road, Ahmedabad.
Ahmedabad Hardware Stores, Menit House, Relief Road, Ahmedabad 1.
A. K. Shah & Co., Revdi Bazar, Ahmedabad.
Alliance Stores Trading Co., Ltd., Station Road, Ahmedabad.
A. M. Shaw & Co., Kapasia Bazar, Ahmedabad.
Arvind Gunvant & Co., Motilal Haribhai Market, Kapasia Bazar, Ahmedabad.
B. C. Mashruwala & Bros., Kapasia Bazar, Ahmedabad.
Bhagubhai M. Shah, 48, Pritamnagar, Ellis Bridge, Ahmedabad.
Bihari Brothers, Reid Road, Ahmedabad 2.
B. Ramanlal & Co., Kapasia Bazar, Ahmedabad.

C. A. Galiakotwala & Co., Ltd., Kapasia Bazar, Ahmedabad.
C. B. Sutaria Bros., Cross Lane, Railwaypura Post, Ahmedabad.
C. Bangadiwala & Co., Kapasia Bazar, Ahmedabad.
C. C. Mashruwala, Kapasia Bazar, Ahmedabad.
C. Doctor & Co., Ltd., Khokhara Mahemdabad, Maninagar, Ahmedabad.
Chandabhai Bros., Panchpati, Dabgarwad, Ahmedabad.
Chandrakant Ratilal & Co., Khatarpal's Pole, Manekchowk, Ahmedabad.
Chandulal Vadilal & Co., Reid Road, Ahmedabad.
Chhotalal Keshavlal, Kapasia Bazar, Ahmedabad.
Chimanlal Amichand, Khas Bazar, Three Gate, Ahmedabad.
Chimanlal B. Mehta, 648, Kapasia Bazar, Ahmedabad.
Chimanlal & Sons, Railwaypura Post, Ahmedabad.
Chimanlal Vadilal & Co., Sankadi Sheri, Nanshajivan's Pole, Ahmedabad.
C. K. Vohara & Co., Kapasia Bazar, Ahmedabad.
C. Nanavati & Co., Reid Road, Ahmedabad.
C. Parikh & Co., Kapasia Bazar, Ahmedabad.
Dahyabhai Nanalal & Co., Kapasia Bazar, Ahmedabad.
Dasharathlal Chimanlal, Sarangpur, Sarkiwad, Ahmedabad.
Dhuldhoya Sons & Co., Reid Road, Ahmedabad.
Diarvi Trading Co., outside Panchkuva Gate, Ahmedabad.
Dinubhai G. Doshi Co., Reid Road, Ahmedabad.
Eastern Trading Agency, Kapasia Bazar, Ahmedabad.
Express Trading Corporation, Reid Road, Ahmedabad.
Frion & Co., Reid Road, Ahmedabad 2.
General Engineering Stores, Kapasia Bazar, Ahmedabad.
GIRDHARLAL DAMODARDAS PRIVATE LTD., 691, Reid Road, Ahmedabad.
H. Bansidhar & Co., Kapasia Bazar, Railwaypura Post, Ahmedabad 2.
H. CHOKSHI & COMPANY (CHOKSHI & CO.), Kapasia Bazar, Ahmedabad 2.
Hirachand Ranchhodadas, Reid Road, Ahmedabad.
Indequip Limited, Reid Road, Railwaypura Post, Ahmedabad.
International Traders Ltd., Kapasia Bazar, Ahmedabad.
INTERNATIONAL TRADING CO., Station Road, Deepak Chambers, Railwaypura Post, Ahmedabad. Phone : 3971. Grams : "INTER". Mill Stores & Machinery Merchants.
Ishwarlal Harjivandas & Co., Jardon Road, Dudheshwar, Ahmedabad.
J. Tribhovandas & Co., C/o Granwood Works, Reid Road, Ahmedabad.
Jayantilal & Co., Reid Road, Ahmedabad.
Jayantilal Chimanlal & Co., Kapasia Bazar, Ahmedabad.
Jayantilal Pranlal & Co., Reid Road, Ahmedabad.
Jayantilal S. Gandhi & Co., opp. Madhav Baug, Ahmedabad.
Jitendra Ramniklal & Co., opp. Madhav Baug, Ahmedabad.
K. A. Shah & Co., opp. Madhav Baug, Ahmedabad.
K. C. Mashruwala & Co., Reid Road, Ahmedabad.
K. Damodardas & Co., Singapurwalla Building, Khadia, Char Rasta, Ahmedabad. Phone : 3677. Grams : "ROTATION."
K. H. Nawab & Co., Kapasia Bazar, Ahmedabad.
K. Ratikial & Co., Cross Lane, Railwaypura Post, Ahmedabad.
Kamlesh Corporation, Motilal Mansion, Kapasia Bazar, Ahmedabad.
Kanchan Bros. & Co., Reid Road, Ahmedabad.
Kantilal Chimanlal, Kapasia Bazar, Ahmedabad.
Kantilal Jivanlal & Co., Reid Road, Ahmedabad.
Karmali Janmahamad & Co., Kapasia Bazar, Ahmedabad
M. M. Shah & Co., 2610, Devas's Pada, Ahmedabad.
M. Sharma & Co., Post Box No. 71, Gandhi Road, Ahmedabad.
Machine Tools & Hardware Corporation, Reid Road, Ahmedabad.
Mangaldas Jeshingbhai & Co., Cross Lane, Railwaypura Post, Ahmedabad.
Manubhai Parikh & Co., opp. Madhav Baug, Ahmedabad.
Masturlal Chimanlal & Co., Kapasia Bazar, Ahmedabad.
Mehta Bros. & Co., Reid Road, Ahmedabad.
Mehta Parikh & Co., Kapasia Bazar, Ahmedabad.
Metal Moulders Ltd., Dudheshwar Road, Ahmedabad.
Modern Mill Stores Agency, Gheekanta Road, Jeshingbhai's Wadi, Ahmedabad.
Mohanlal Jamnadas Patel, Revdi Bazar, Ahmedabad.
Mohanlal Prabhudas & Co., Reid Road, Ahmedabad.
Motilal Harilal Jagabhaiwala, Pipin Villa, Ellis Bridge, Ahmedabad.
Mulchand Jekishandas & Co., Reid Road. Ahmedabad.
N. M. Oza & Co., Kapasia Bazar, Ahmedabad.
N. Parikh Sons & Co., 533, Mulchand Asharam Building, opp. Madhav Baug, Ahmedabad.
NAGINDAS KILABHAI & CO., Reid Road, Ahmedabad.
Nanavati & Co., Ltd., Kapasia Bazar, Ahmedabad.
Narotamdas Chunilal & Co., Motilal Mansion, Kapasia Bazar, Ahmedabad 2. Phones . 2140, 3773, 3146. Grams : "HINDUNAR."
National Trading Co., Reid Road, Ahmedabad.
Natwarlal A. Shah & Co., Ltd., opp. Madhav Baug, Ahmedabad.
Navnitlal B. Chokshi & Co., 1635, Dhal's Pole, Jagabhai Seth's Pole, Ahmedabad.
New India Trading Co., Vakil Building, Char Rasta, Ahmedabad.
Nidravadan Maneklal & Co., (Estd. 1944), Bombay Shop Building, Railwaypura Post, Ahmedabad 2. Phone : 2496.
P. M. Shah & Co., Janiwada, Gandhi Road, Ahmedabad.
P. M. Hutheesing & Sons, Gheekanta Road, Ahmedabad.
Panalal Umabhai & Co., Fatasa's Pole, Gandhi Road, Ahmedabad.
Parikh & Parikh, Mill Gin Stores Suppliers, Reid Road, Ahmedabad 2.
Patel Brothers Syndicate, opp. English Cinema, Panchkuva, Ahmedabad.
Pioneer Textile Trading Co., Harisadan, Char Rasta, Ahmedabad.
Popatlal Girdharlal, Kapasia Bazar, Ahmedabad.
Prem Roy Brothers, L. K. Trust Bldg., Panchkuva, Ahmedabad 2.
Prion & Co., Reid Road, Ahmedabad.
R. M. Shaw & Co., Motilal Mansion, Kapasia Bazar, Ahmedabad.
Ramanlal Pitambardas Mashruwala, 1314, Rajamehta's Pole, Kalupur, Ahmedabad.
Ramanlal Sankalchand, Reid Road, Ahmedabad.
Ramanlal Vrijvallabhadas & Co., Cross Lane, Railwaypura Post, Ahmedabad.
Ramchandra & Co., Kapasia Bazar, Ahmedabad.
Ranchhodalal Amratlal Vasa, Maskati Market, Ahmedabad.
Rasiklal D. Gandhi & Co., Harisadan, Char Rasta, Ahmedabad.
Ratilal M. Shah & Co., Reid Road, Ahmedabad.
S. Mehta & Co., Kapasia Bazar, Ahmedabad.
S. N. Shah & Co., Station Road, Ahmedabad.
Seth Stores Trading Co., Station Road, Ahmedabad.
Spencer Trading Co., Sir Chinubhai Building, Revdi Bazar, Ahmedabad.
Supreme Mill Stores Co., opp. English Cinema, Panchkuva Gate, Ahmedabad.
Textile Commercial Co., Haridas Achratlal Market, Ahmedabad
Textile Stores Co., Kapasia Bazar, Ahmedabad.
The Ahmedabad Crom Tanning Co., Piramshah Road, Ahmedabad.
The Gopal Textile Trading Co., Ltd., Kapasia Bazar, Ahmedabad
The International Textile Corporation, Reid Road, Ahmedabad
The Laxmi Commercial Ltd., near Panchkuva Gate, Ahmedabad
The Mill Stores & Metal Mart, Kapasia Bazar, Ahmedabad.
The Standard Materials Co., Kapasia Bazar, Ahmedabad.
The Swastik Textile Trading Co., Ltd., Motilal Haribha Market, Station Road, Ahmedabad.
United Stores Trading Co., Station Road, Ahmedabad.

OFFICE EQUIPMENT

Gopaldas Khemchand & Sons, Estd. 1912, Tijoriwalla, outside Delhi Gate, Ahmedabad.
Harihar Research Works, Mander's Street, Ahmedabad.
S. Sutaria & Co., 697/32-6, Reid Road, Ahmedabad.

PAINTS, ENAMELS AND VARNISHES

Allied Engineers, Reid Road, Ahmedabad.
Bharat Paints & Hardware Agency, Relief Road, Ahmedabad
C. S. Vohra & Co., (Estd. 1938), Pankore Naka, Ahmedabad 1 Phone : 3027.
D. Prajapati & Co., Near Tarkos Bldg., Relief Road, Ahmedabad 1
Hind Corporation, near Takaria Masjid, Relief Road, Ahmedabad
L. G. Amin & Co., Menil House, Kadia-Kui, Relief Road, Ahmedabad
N. M. Shah & Co., opp. Jumma Masjid, Ahmedabad.
Pioneer Manufacturing Co., Haripura Road, Asarva, Ahmedabad 16
Sultanally Gulamhusen & Sons, 289, Fernandis Bridge, Ahmedabad
S. Shantilal & Co., Pankore Naka, Ahmedabad.
United Trading Co., 1943, Near Allahabad Bank, Pankore Naka, Ahmedabad.

PAPER MERCHANTS

A. K. Shah & Co., Revdi Bazar, Ahmedabad.
Good Luck Paper Mart, 1951/4/6, Panchkuva, Char Rasta, Ahmedabad.
Manohar Paper Stores, near Telegraph Office, Bhadra, Ahmedabad
R. Ochhavlal & Co., 694, Char Rasta, Nava Darwaja Road, Ahmedabad.
S. Sutaria & Co., 697/32-6, Reid Road, Ahmedabad. Phone : 2378
Vinod Paper Mart, 649, Char Rasta, Nava Darwaja Road, Ahmedabad.

PERFUMERS

Bikhulal Chhaganlal Desai, 2078, Three Gates, Ahmedabad.
Saurashtra Sagandhi Stores, 1655/1, Khajuri Pole, Kalupur Road, Ahmedabad.

PETROLEUM PRODUCTS

American Oil & Trading Co, Jekor Building, Revdi Bazar, Ahmedabad.
Burmah-Shell Oil Storage & Distributing Co, of India Ltd., Mission Road, Bhadra, Ahmedabad.
Caltex (India) Ltd., Asarwa Station Yard, Ahmedabad.
Gulf Oil Co., Ltd., Co-operative Bank Building, Relief Road, Ahmedabad.
Standard-Vacuum Oil Co., Oriental Building, Relief Road, Ahmedabad.

PICKERS AND BUFFERS

D C. Karaka & Co., Ellis Bridge, Ahmedabad.
Frion & Co., Reid Road, Ahmedabad.
H. Mansuri & Sons, Post Box 84, Ahmedabad.
Jalbind Leather Industries Ltd., Reid Road, Ahmedabad 2.
Nima Trading Co., Cross Lane, Ahmedabad.
Pickers Ltd, Ellis Bridge, Ahmedabad.

PIPES AND FITTINGS MERCHANTS

Ahmedabad Sanitary Stores, Khadia, Char Rasta, Ahmedabad.
B. C. MASHRUWALA & BROS., 667, Kapasia Bazar, Ahmedabad 2. Importers & Stockists: All sorts of Pipes, Pipe-fittings, Boiler Tubes, Steam Pipes, Hopkinsons Bronze Valves & Boiler Mountings, etc. Agents: G. M. "Venus" Valves. Branch: 87/91, Dhanji St., Bombay 3.
Gujarat Tube & Sanitary Stores, Khadia, Char Rasta, Ahmedabad.
H. CHOKSHI & COMPANY (CHOKSHI & CO.), Kapasia Bazar, Ahmedabad 2.
H Khericha & Co., opp. Jumma Masjid, Ahmedabad.
Kantilal & Co., Ramakda Market, Pankore Naka, Ahmedabad.

Phone : 2459. Grams : "GLANDCOCK".
(Estd. 1890)
M. H. BROTHERS
Successors to ABDULKADAR ABDULSATTAR & SONS
Kalupur Road, P. B. No. 81, Ahmedabad 1.
Sanitary Engineers & Pipe Fittings Manufacturers.
Specialists in :
Cocks, Valves, Fire Hydrants, G. M. Water & Steam Fittings, etc., etc.

Ochhavlal Gordhandas Shah, Vakil Building, Khadia, Char Rasta, Ahmedabad.
Radiant Electric & Machinery Co, Mangal Bhavan 2750, Relief Road Ahmedabad. Phone 3272. Vithaldas Chambers, Bruce St, Fort, Bombay 1
Shuma Trading Co., Pankore Naka, Ahmedabad.
Wellknown Brothers, 2414/B-2, Relief Road, opp. Makerwad, Ahmedabad.

PRINTING PRESS MATERIAL & MACHINERY

GUNVANTRAY & CO., Khadia, Char Rasta, Nava Darwaja Road, Ahmedabad 1. Phone: 4068. Grams: "GRAYCO". Dealers in Letter Press, Litho Offset, Process, Machineries Materials & Rubber Rollers.

PRINTING PRESSES

Advance Printery, 860, Panchkuva, Ahmedabad.
Ajay Printery, Nav Bharat Mill Premises, Naroda Road, Ahmedabad.
Desai Printing Press, Panch Patil, Kalupur, Ahmedabad.
Kesariaji Printing Press, Gheekanta Road, Ahmedabad.
New City Printing Press, Dhalgarwad, Ahmedabad.
Ramesh Printery, opp. Mahavir Swami's Temple, Gandhi Road, Ahmedabad.
Rasik Printery, Khodia, Golwad, Ahmedabad.

PROVISION MERCHANTS

Allarally & Co., Three Gates, Ahmedabad.
Jehangir Brothers, opp. Rly. Station, Ahmedabad.
Madonna Stores, Lal Darwaja, Ahmedabad.
Prince Stores, opp. Telegraph Office, 1161, Bhadra, Ahmedabad.
Relief Provision Stores, Relief Road, opp. Relief Cinema, Ahmedabad.

MAIZE PRODUCTS, Props.: Sayaji Mills Ltd., P.O. Kathwada —Maize Products, Ahmedabad 2.
R. Jehangir Darashaw & Co, Relief Road, Ahmedabad.
Wadia Brothers Ltd, F. P., Mirzapur Road, Ahmedabad.

PUMPS & PUMPING SETS MFRS. & DEALERS

Radiant Electric & Machinery Co, Mangal Bhavan, 2750, Relief Road, Ahmedabad. Phone 3272. Vithaldas Chambers, Bruce St, Fort, Bombay 1

RADIO MFRS., DEALERS AND PART SUPPLIERS

Ahmedabad Radio & Electric Corporation, Panchkuva, opp. School, Ahmedabad.
Amin Gramophone Mart, Near Bridge, Gandhi Road, Ahmedabad.
Allied Radio Company, Near Fuvara, Gandhi Road, Ahmedabad.
Arun Radio Electric Co., Near Dhana Suthar's Pole, Relief Road, Ahmedabad.
Bharat R. Electric Co, Near Arun Society, Ellis Bridge, Ahmedabad.
BOMBAY GARAGE (Ahmedabad) LTD., Shahibag Road, Ahmedabad 4. Tel. Address: "PARKCHIN." Phone: 4615.
Bynks Elec. Industries, Bala Hanuman, Gandhi Road, Ahmedabad.
Chitra Electric Trading Co, Panchkuva, Ahmedabad.
Cine Radio Laboratory, Near Cinema, Panchkuva, Ahmedabad.
Dalal & Co, opp. School, Panchkuva, Ahmedabad.
Dave Radio Corporation, Near Town Hall, Ellis Bridge, Ahmedabad.
Deepak Radio Electric Co, Panchkuva, Ahmedabad.
Eastern Radio Service, Panchkuva, Ahmedabad.
Emergency Radio House, Near Model Talkies, Gandhi Road, Ahmedabad.
Erose Sound, opp. Cinema-De-France, Gandhi Road, Ahmedabad.
Fadia Radio Crafts, opp. School, Panchkuva, Ahmedabad.
Gandhi & Sons, Pankore Naka, Ahmedabad.
Geeta Radio Corporation, Near Pada Pole, Gandhi Road, Ahmedabad.
Golden Radio Service, opp. Kothari Pole, Gandhi Road, Ahmedabad.
General Radio Stores, opp. Advance Cinema, Bhadra, Ahmedabad.
Gupta Radio Service, opp. Noyri Mills, Rajpur, Ahmedabad.
Hillmens Stores, Near Pritamnagar Dhal, Ellis Bridge, Ahmedabad.
Hiralal B. Trivedi & Co, Near Bridge, Gandhi Road, Ahmedabad.
Imperial Radio House, opp. School, Panchkuva, Ahmedabad.
International Electric Equipment Company, opp. Police Station, Reid Road, Ahmedabad.
J. K. Radio Electric & Engineering Co, Panch Pipli, Astodia, Ahmedabad.
Jagdish & Co, opp. Khadia Post Office, Ahmedabad.
Janata Radio Co, Near Grand Hotel, Khanpur, Ahmedabad.
Jai Hind Radio Corporation, Near Light House, Gheekanta, Ahmedabad.
Jayant Radio Corporation, Bhadra, Ahmedabad.
J. K. Radio Electric Co, opp. Advance Cinema, Bhadra, Ahmedabad.
J. L. Kharidia & Co, Nagar Bordi's Street, Raipur, Ahmedabad.
Jyoti Radio & Electric House, Parabadini Pole, Raipur, Ahmedabad.
Kashwala Radio Co., Near Light House, Gheekanta, Ahmedabad.
K. B. Vakil & Co., Bala Hanuman, Gandhi Road, Ahmedabad.
Kiran Radio Service, Near Khara Kuva's Pole, Relief Road, Ahmedabad.
K. M. Parghi & Co., opp. School, Panchkuva, Ahmedabad.
Listeners Radio Service, Raja Mehta's Pole Naka, Kalupur, Ahmedabad.
Manu Contractor, opp. Pada Pole, Gandhi Road, Ahmedabad.
Manubhai Parikh & Co, opp. Madhu Baug, Ahmedabad.
Mehta Radio Service, 1446, Sheth's Pole, Mandvi's Pole, Ahmedabad.
Model Radio Service, Pipardi's Pole Naka, Relief Road, Ahmedabad.
M. J. Vakil & Co., Near Bridge, Gandhi Road, Ahmedabad.
Mohan's Radio Service, Bhadra, Ahmedabad.
Mukundrai Trivedi, Near Rly. Crossing, Ellis Bridge, Ahmedabad.
National Radio Co, Manekchowk, Ahmedabad
Navdurga Radio Electric Co., Fuvara, Ahmedabad.
Orient Radio Electric Co., Rugnath-Bamb Street, Sankdisheri, Ahmedabad.
Paramount Radio Experts, Char Rasta, Khadia, Ahmedabad.
People's Technical Institute, Zaverivad Naka, Relief Road, Ahmedabad.
Popular Radio Electric Co., Near Town Hall, Ellis Bridge, Ahmedabad.
Ramesh Electric Co., Ganchini Vadi, Dariapur, Ahmedabad.
R. Tolat & Co., Manekchowk, Ahmedabad
Regal Radio Service, opp. School, Panchkuva, Ahmedabad.
Radio Television & Sound System Institute, opp. Model Cinema, Gandhi Road, Ahmedabad.
Royal Electric Stores, opp. Dhanasuthar Pole, Relief Road, Ahmedabad.
Star Radio Co., opp. Jain Temple, Gandhi Road, Ahmedabad.
Star Radio Electric Co., Gheekanta, Ahmedabad.
Shree Radio Service, Bhadra, Ahmedabad.
Sweet Radio Service, Raipur Chakla, Ahmedabad.
Super Radio Service, Kharakuva Pole Naka, Relief Road, Ahmedabad.
Vanguard Radio Corporation, Near Khadia Police Station, Ahmedabad.
Western Radio Co., Char Rasta, Ahmedabad.

REEDS

SWASTIK TEXTILE TRADING CO., PRIVATE LTD., Motilal Hirabhai Market, Railwaypura Post, Ahmedabad 2.

REFRIGERATOR (DOMESTIC)

BOMBAY GARAGE (Ahmedabad) LTD., Shahibag Road, Ahmedabad 4. Tel. Address: "PARKCHIN." Phone: 4615.

ROOF WATERPROOFING

GLADSTONE LYALL & CO. LTD., Agency Office: Prajapati Laladas Bldg., Khadia, Char Rasta, Ahmedabad. Bombay Manager: A. V. Ryan. Head Office: 4, Fairlie Place, Calcutta.

ROPERIES

Bharat Rope & Lace Mfg. Co., Kapasia Bazar, Ahmedabad.
Frion & Co., Reid Road, Ahmedabad.
Nima Trading Co., Cross Lane, Ahmedabad.

RUBBER GOODS MANUFACTURERS

Ahmedabad Hardware Stores, Relief Road, Ahmedabad.
Allied Engineers, Reid Road, Ahmedabad. Phone: 2795.
Bihari Bros., Outside Panchkuva, Ahmedabad.
Dunlop Rubber Co. (India) Ltd., Mirzapur Road, Ahmedabad.
Firestone Tyre & Rubber Co. of India Ltd., Near Bagicha Mills, outside Sarangpur, Ahmedabad.
Frion & Co., Reid Road, Ahmedabad.
Good Year Tyre & Rubber Co. of India Ltd., 19/20, Bharat Khand Mills, Compound 2, Ahmedabad.
Gujarat Rubber Works Ltd., Station Road, Ahmedabad.
H. Chokshi & Company, Kapasia Bazar, Ahmedabad.
India Tyre & Rubber Co. (India) Ltd., "Patdi House", Ahmedabad.
Rubber Products Ltd., Dudheshwar Road, Bhadra, Ahmedabad.

SANITARYWARE

Gujarat Tube & Sanitary Stores, Khadia, Char Rasta, Ahmedabad.
Sanitary Hardware Mart, opp. Kanuga Mansion, Kapasia Bazar, Ahmedabad.

SEWING THREAD MANUFACTURERS

AHMEDABAD MANUFACTURING & CALICO PRINTING CO., LTD. THE, (Calico & Jubilee Mills). Post Box Nos. 12 & 173, Ahmedabad. Manufacturers of Organdie, Prints, Saris, Voiles, Lawn, Handkerchiefs, Towels, Mosquito Netting, Poplins, Shirtings, Dhoties, Longcloth, Drills, Blankets, Sewing Thread and Caustic Soda, Liquid Chlorine, Calcium & Sodium Hydrochlorites, Hydrochloric Acid, etc. Managing Agents: Karamchand Premchand Private Ltd. Phone: 51661.

SHUTTLES

SWASTIK TEXTILE TRADING CO. PRIVATE LTD., Motilal Hirabhai Market, Railwaypura Post, Ahmedabad 2.

SILK FACTORIES AND MILLS

The Crown Silk & Rayon Mill, Madhowlal Ranchhodlal Colony, Railwaypura, Ahmedabad 2.
The Diamond Silk & Rayon Mill, Madhowlal Ranchhodlal Colony, Railwaypura, Ahmedabad 2.
The Nandkram Sobhraj Mills Ltd., Madhowlal Ranchhodlal Colony, Railwaypura, Post Box No. 1041, Ahmedabad 2.
Frion & Co., Reid Road, Ahmedabad.
Patel Brothers Syndicate, Opp. English Cinema, Panchkuva, Ahmedabad.
VIJAY WEAVING WORKS (VIJAY FABRICS), Textile Manufacturers; Estd.: 1918; Specialised manufacturers of Art Silk Fabrics in Satin, Siyoli, Doby Gold, Doby, Check, Patta Lungis and other fancy varieties. Specification of your requirements ranging from 27" to 60" width cordially invited from Exporters, Importers & Dealers, 670/12, Railwaypura, Ahmedabad.

SILK MILL ACCESSORIES

R. CHOKSHI & COMPANY (CHOKSHI & CO.), Kapasia Bazar, Ahmedabad 2.

SOAP FACTORIES

Azad Hind Soap Factory, 711/6, Near Khamasa Gate, Dhalgarwad, Ahmedabad.
Diamond Oil & Soap Factory, 221, Saiyadwada, Inside Astodia Gate, Ahmedabad.
Jagdish Oil & Soap Mills, Prem Darwaja, Ahmedabad.
Ranjit Soap Factory, Dhalgarwad, Ahmedabad.

STRUCTURAL WATERPROOFING

GLADSTONE LYALL & CO. LTD. Agency Office: Prajapati Laladas Bldg., Khadia, Char Rasta, Ahmedabad. Bombay Manager: A.V. Ryan. Head Office: 4, Fairlie Place, Calcutta.

TEA AND COFFEE

Brooke Bond India Ltd., near Rly. Crossing, below No. 1054, Shahibaug, Ahmedabad.
Gujarat Tea Depot, Company near Relief Cinema, Relief Road, Ahmedabad.
Indian Coffee House, near Electric House, Relief Road, Ahmedabad.
Lipton Ltd., Oriental Building, Relief Road, Ahmedabad.

TEXTILE MACHINERY MFRS. AND DEALERS

A. B. Brothers, 129, Gheekanta Road, Ahmedabad.
A. Rhudharbhai Kishor & Sons, Gheekanta Road, Ahmedabad. Phone: 2408.
Ahmedabad Victoria Ironworks Co., Ltd., Doodhesar Road, Ahmedabad.
Altex Ltd., Ramolia Building, Relief Road, Ahmedabad.
Atmaram Mohanlal Panchal, Rantiwadi, Mirzapur, Ahmedabad.
Bracewell, J., Ltd., Haribhai Market, Ahmedabad.
Brady & Co., Ltd., W. H., Railwaypura Post, Reid Road, Ahmedabad.
Card Clothing & Belting Ltd., Narottam Building, Kapasia Bazar, Ahmedabad.
C. Doctor & Co., Khokra Mehmedabad, Maninagar, Ahmedabad.
English Card Clothing Co., Ltd., opp. Rly. Workshop, Maninagar, Ahmedabad.
Gannon Dunkerley & Co., Ltd., Faribunder Bldg., Railwaypura Post, Ahmedabad.
Garlick & Co., Maskati Market 2, Ahmedabad.

HUMIDIFYING & VACUUM CLEANING PLANT FACTORY
Saraspur, Near Potalia's Tank, Ahmedabad.
Pioneer Manufacturers of "SHIVA" Vacuum Cleaners for Textile Mills.
"SHIVA" Hacksaw Blades for Metal Cutting.
"SHIVA" Domestic Stoves.
Phone: 51762. Grams: "CHHOTAJYOT".

Indequip Ltd., Reid Road, Ahmedabad.
Indian Textile Engineers Ltd., Deepak Chambers, 679/18, Station Road, Ahmedabad.
India Metal Works, 1758/1-2, Mirzapur Road, Ahmedabad.
Industrial Spare-Parts Co., Relief Road, Kadia Kui, Ahmedabad.
Jagdish Iron & Brass Factory (Estd. 1945), 1175, Pankore Naka, Ahmedabad.
Jaymes Engineering Co., Relief Road, Ahmedabad.
Metal Moulders Ltd., Doodhesar Road, Ahmedabad.
Mistry Ambalal Jetharam Iron & Brass Factory, Gheekanta Road, Ahmedabad. Phone: 3063. Grams: "CLOTHPRINT."
Nima Trading Co., Cross Lane, Ahmedabad.
Ormerods (India) Ltd., Kapasia Bazar, Ahmedabad.
Sizing Materials Co., Ltd., Kapasia Bazar, Ahmedabad.
T. Manekial Mfg. Co., Ltd., Reid Road, Ahmedabad.
Tex Maco, Chotley Lal Building, Kadia Kui, Relief Road, Ahmedabad.
TEXTILE MACHINERY MANUFACTURING COMPANY, Engineers and Merchants, Lal Cinema Compound, Gomtipur Road, Ahmedabad 10.

Manufacturers of Textile Machinery Spare Parts and Specialising in ring & doubling spindle inner tubes, machine cut wheels, Ball-bearing comb box and winding parts.
UMEDRAM K. MISTRI & SONS
(Estd. 1936)
City Dana Pith, Ahmedabad.
Phone: 51304. Grams: "TUBE".

U. M. MISTRY & SONS, 1186, Pankore Naka, Ahmedabad. Office: Crescent Chambers, Tamarind Lane, Fort, Bombay 1. Manufacturers of Textile machinery, Machine spares; Specialists—Manufacturing of Stainless Steel, dyeing plant accessories, Steel Furniture & Steel Structure.
Voltas Ltd., Fanibunder Building, Railwaypura, Ahmedabad.
Williamsons (India) Ltd., 670/22, Motilal Hirabhai Market, Railwaypura, Ahmedabad.

TEXTILE ENGINEERS AND MACHINERY IMPORTERS

B. P. Engineering Works, 663-4, Gheekanta Road, Ahmedabad. Phone : 2642.
C. B. Sutaria Bros., Cross Lane, opp. Railway Station, Ahmedabad.
Modern Engineering Moulding Co., Shahpur Mills Compound, Ahmedabad. Phone : 2624. Grams : "HELICAL."
M. Narotamdas Chunilal & Co., Motilal Mansion, Kapasia Bazar, Ahmedabad 2.

TYRE MFRS. AND DEALERS

Dunlop Rubber Co. (India) Ltd., Mirzapur Road, Ahmedabad.
Firestone Tyre & Rubber Co. of India Ltd., Near Bagicha Mills, Outside Sarangpur, Ahmedabad.
Goodyear Tyre & Rubber Co. of India Ltd., 19/20, Bharat Khand Mills Compound, Ahmedabad.
India Tyre & Rubber Co. (India) Ltd., Patdi House, Bhadra, Ahmedabad.

WATCH AND CLOCK IMPORTERS AND DEALERS

Asiatic Watch Co., 653/1, Gandhi Road, Ahmedabad.
Pharati Watch Co., 700, Gandhi Road, Ahmedabad.
Franco-Swiss Watch Co., Gandhi Road, Ahmedabad.
Favourite Watch Co., 808, Gandhi Road, Char Rasta, Ahmedabad.
General Swiss Watch Co., 52-A, Balahanuman, Ahmedabad.
New President Watch Co., 437, Gandhi Road, Ahmedabad.
New Bharat Watch Co., Gandhi Road, Ahmedabad.
Prabat Watch Co., 449, Gandhi Road, Ahmedabad.
ROYAL WATCH CO. (Private) LTD., Gandhi Road, Ahmedabad. Phone : 3571. Grams : "CLOCK."
Sharda Watch Co., Gandhi Road, Ahmedabad.

WATERPROOFING PRODUCTS MFRS. & DEALERS

GLADSTONE LYALL & CO., LTD., Agency Office : Prajapati Laladas Bldg., Khadia, Char Rasta, Ahmedabad. Bombay Manager : A. V. Ryan; Head Office : 4, Fairlie Place, Calcutta.

WELDING & WELDING MATERIALS DEALERS

Auto Reliance Engineering & Welding Co., Revdi Bazar, Cross Lane, Ahmedabad.
Bharat Engineering & Welding Works, Outside Prem Gate, Idgah Road, Ahmedabad.
Radiant Electric & Machinery Co., Mangal Bhavan, 2750, Relief Road, Ahmedabad. Phone : 3272. Vithaldas Chambers, Bruce St., Fort, Bombay 1.

WIRE HEALDS

SWASTIK TEXTILE TRADING CO., PRIVATE LTD., Motilal Hirabhai Market, Railwaypura Post, Ahmedabad 2.

AHMEDNAGAR DISTRICT

Headquarters : Ahmednagar.
Talukas: Nagar, Rahuri, Newasa, Shrirampur, Sangamner, Akole, Kopergaon, Sheogaon, Pathardi, Jamkhed, Shrigonda, Parner, Karjat.

Ahmednagar, a centrally situated District in the Marathi speaking area of the Deccan, lies between North Lat. 18°20′ and 20° and East Long. 73°43′ and 75°41′. It is bounded on the north and north-west by Nasik District, on the north-east by the river Godavari, on the south-east and south-west by Bhir, Sholapur and Poona Districts. The principal geographical feature is the chain of Sahyadri Hills and the river Godavari. Despite the fertility of its soil the District is liable to famine owing to uncertain and scanty rainfall. A large part of the District is irrigated by the confluence of the rivers Godavari and Pravara which has encouraged sugar-cane plantation on a wide scale.

The area of the District is 6,602 sq. miles and the population according to the 1951 census is 1,410,878 registering a rise of 23.5 per cent over the 1941 census figure. The language spoken is Marathi.

Industrially, the northern part of the District is fairly well developed. There are eleven large-scale sugar factories and two first class and up-to-date tanneries. Leather from these tanneries is exported mainly to Pakistan. The hand-power woollen carpet factory at Kendal in Rahuri Taluka exports carpets to foreign countries. The Sisal Fibre Industries Centre conducted by the American Marathi Mission at Ahmednagar manufactures and exports fancy articles to foreign countries. Three iron foundries in Ahmednagar town manufacture and supply agricultural implements and building, sanitary, sewage and machinery accessories. Ahmednagar, Bhingar, Pathardi and Sangamner are the four main centres of handloom weaving industry, the total number of handlooms being over 4,500. There are also cotton ginning, pressing and power loom factories in Ahmednagar. Manufacture of bidis, brassware, oil expelling, leather goods and sisal fibre ropes and sacks are major cottage industries in the district.

The staple food grains are jawar and bajra. Wheat and gram are grown in the vicinity of the rivers and rice in the westernmost Akole Taluka including other irrigated areas. Vari and ragi are cultivated in soils which are suited to coarser grain. The pulses are tur, mug, math and kulith. Among the cash crops may be mentioned cotton, hemp, safflower, sesamum, linseed, sugarcane, tobacco, kardi, pan, groundnut and potatoes. Sweet lime orchards are also grown.

Part of the forests possesses teak of excellent quality. The characteristic trees of the Western forests are however, anjan, jambul, behela, ain and karvand.

The chief historical places of interest to visitors are the Ahmednagar Fort and the residential palaces of the Shindyas and the Peshawas at Jamgaon and Kopergaon respectively. The tombs of Mughal Emperor Aurangzeb are situated on the outskirts of Ahmednagar town. The temple of Dnyaneshwar, the saint poet of Maharashtra, is situated at Newase on the banks of river Pravara. Here Dnyaneshwar wrote his famous commentary on Gita. Excavations undertaken in the vicinity of this town have yielded valuable finds of prehistoric import.

The imports consist chiefly of piecegoods, tin-sheets, metals, groceries, salt, yarn and silk.

The exports consist chiefly of sugar, gur, cotton, leather, pulses, cereals, sisal fibre, oilseeds, fruits, handloom products, bidis, eggs, flowers and vegetables.

Limestone is fairly abundant in the District and also trap suitable for building purposes. Other minerals are basalt, quartz, chalcedony, agate, crystals.

Among industries sugar is now one of the most important. There are eleven sugar factories in the District. Of these, five factories are run by the sugarcane growers on a co-operative basis. Gur making, hand-loom weaving, iron foundries and bidi making are the other important industries.

There are ten irrigation tanks in the District.

There are over 54,400 wells in the District irrigating about 168,000 acres.

Kalsubai, the highest peak of the Sahyadri hills is situated in this District, the height of the peak being 5,430 feet above sea level. Bhandardara dam is situated at the base of the Kalsubai hills. Five miles downstream of this dam is situated the picturesque Pravara river falls at village Randha.

Harishandragad and Patta Killa are the two hill stations situated at a height of 4,691 and 4,587 feet respectively.

OFFICIALS

Collector and District Magistrate, R. A. Zobairy, I.A.S.
District and Sessions Judge, V. R. Paralkar.
District Superintendent of Police, N. K. Khot.

EDUCATIONAL INSTITUTIONS

Arts and Science College, Ahmednagar.
Puntamba Agricultural School, Puntamba.
Ayurveda Mahavidyalaya College, Ahmednagar.
Government Technical School and Training Centre, Ahmednagar.

There are five Primary Training Colleges, of which two are conducted by missionaries and all aided by Government.

There are about 56 Secondary High Schools in the district out of which three high schools are exclusively for girls.

LITERARY AND OTHER ASSOCIATIONS

Rotary Club, Ahmednagar.
American Marathi Mission, Ahmednagar.
Ahmednagar Education Society, Ahmednagar.
Hind Seva Mandal, Ahmednagar.
Ahmednagar Vachanalaya District Central Library, Ahmednagar.
The Paisa Vachanalaya Library, Ahmednagar.
Prawaranagar Co-operative Sugar Factory, Ltd., Prawaranagar.
Ahmednagar Jilha Maratha Vidya Prasarak Samaj, Ahmednagar.
Ahmednagar Jilha Sahakarta Prasarak Mandal, Ahmednagar.
Sanatan Dharam Sabha, Ahmednagar.
District Co-operative Board, Ahmednagar.
The Big Bagaitdar's Multipurpose Co-operative Society Ltd., Kopergaon.
The District Agricultural Show Committee, Kopergaon.
District Probation and Aftercare Association, Ahmednagar.
Sarvodaya Centre, Rajur, Akole.
Ahmednagar Pressowners' Association, Ahmednagar.
Government Beggars Home, Visapur.
Ahmednagar District Leprosy Relief Association, Ahmednagar.
Indian Red Cross T.B. Sanatorium, Arangaon, Ahmednagar.
Ahmednagar District Council for Child Welfare, Ahmednagar.
Adat Bazar Merchants' Association, Ahmednagar.
Women's Rescue Home, Ahmednagar.

AKOLA DISTRICT

Headquarters : Akola.

Taluqs : Akola, Balapur, Murtajpur, Akot, Mangrul, Washim.

Akola is a district in Berar with an area of about 4,091 square miles and a population of 950,994. It lies roughly between North Latitude 19° 50' and 21° 16' and East Longitude 76° 45' and 77°52'. It is bounded on the north by the Satpura Hills, on the south by the Ajanta and Satmal Hills, on the east by Amravati and Yeotmal Districts, and on the west by Buldana District.

The greater part of it is fertile alluvial land but the Satpura plateau rises abruptly on its northern border with the ancient fort of Narnala nestling on one of the hills and commanding the whole Poorna plain. Also a range of steep hills runs across the middle of the southern Taluqs. The average rainfall is 30 inches and the temperature in summer rises in certain places to 118 degrees during the day.

The Central Railway line from Bhusawal to Nagpur runs east-west through the District and has two small meter gauge sectors branching off at Murtizapur, one going south to Yeotmal, and the other going north to Amravati District. Besides this the District has a fine network of good roads connecting it with other District and Taluq centres and railway lines.

The District is mainly agricultural but there are cloth mills, a number of cotton ginning and pressing factories, oil mills.

The total cropped area extends to about 22 lakhs of acres—one-third of which is generally under cotton and two-thirds under other Kharif crops.

OFFICIALS

Collector, D. H. Deshmukh.
District Superintendent of Police, V. V. Naik, I.P.S.
District and Sessions Judge, M. V. Bansod.

COTTON MILLS

R. S. RECKCHAND GOPALDAS MOHOTA SPG. & WVG. MILLS PRIVATE LTD., Spindles 21,876, Looms 466; Mg. Agents: Bulakidas Mahota & Co. Private Ltd. Office on Mill Premises, Mills at Akola.

SAVATRAM RAMPRASAD MILLS CO., LTD., Spindles 14,576; Looms 317; Agents: Savatram Sons Ltd., Akola. Mills at Akola.

AMRAVATI DISTRICT

Headquarters : Amravati.

Taksils : Amravati, Chandur, Morshi, Achalpur, Daryapur, Melghat.

Amravati District lies roughly between North Latitude 20°30' and 21°40' and East Longitude 76°55' and 78°30'. It is bounded on the north by Betul District, on the east by the Wardha River, on the south by the Districts of Yeotmal and Akola, and on the west by Buldana and Nimar Districts. The area of the District is 4,691 sq. miles and the population 1,031,160. The language spoken is Marathi.

Amravati is a plain about 800 feet above sea-level, the soil of which is principally black loam overlying basalt, with a gentle slope from north to south, watered by numerous streams. A small chain of barren and stoney hills runs in a north-westerly direction between Chandur and Amravati town, with an average height of 400 to 500 feet above the lowlands. The District is on the whole fertile.

COMMUNICATIONS

The Bombay-Nagpur branch of the Central Railway traverses the District from west to east and Amravati town is connected with the main line through Badnera junction. The chief roads are those from Amravati towards Achalpur and Chandur Bazaar, to Pusla through Morsi and from Murtazapur to Karanja Bibi.

AGRICULTURE, INDUSTRY

The staple food grain is jawar. Other food grains are wheat and pulses. Cash crops include cotton and oilseeds, of which cotton is the more important.

Cotton cloth and yarn are manufactured but the principal industry is the preparation of cotton for the market.

Raw cotton is the chief export, the only other exports worthy of mention being oilseeds, grain and pulses. The chief imports are grain and pulses, coal and coke, salt and sugar.

ASSOCIATIONS

Hanuman Vyayam Prasarak Mandal, Amravati.

KALA-NIKETAN (GOVT. TECHNICAL HIGH SCHOOL) Amravati.

Headmaster : D. K. Borwankar.

SHARADA UDYOG MANDIR
Near Jayetambh, Amravati.

It is a charitable cottage industry institution to help widows and poor women by teaching handicrafts, tailoring, embroidery, etc. It also runs a training-cum-production centre. A Railway Canteen is run by the institution at Badnera, the profits from which are utilised for the welfare of women. There is also a Handicraft School

President : Smt. Sushilabai Oka ; *Founder Secretary :* Smt. Tarabai Padhey ; *Joint Secretary :* Smt. Shantabai Londhe.

SHRI SHIVAJI LOKA VIDYAPITHA (PEOPLE'S UNIVERSITY OF LITERATURE, ARTS, CRAFT AND CULTURE)

Shivaji Nagar, Morshi Road, Amravati.

Educational, Literary & Social Service Work.

President : Dr. P. S. Deshmukh, M.A., D.Phill (Oxon), Bar-at-Law
Director : Dr. Jwala Prasad, M.A., Ph.D. (Cantab.); *Dy. Director* S. R. Londhe, M.A., Sahitya Ratna.

VIDARBHA MAHAROGI SEVA MANDAL
(Estd. 1948)

Tapovan, Amravati 2.

A social organisation started mainly for the treatment of leprosy patients and eradication of leprosy from the State. It started the Shree Jagadamba Kushta Niwas at Amravati to provide asylum to the leprosy patients. The Mandal publishes a paper *Jeevan* for educating the public on the subject. There are a home for burnt-out leprosy patients, a school for children, an up-to-date operation theatre and a printing press.

President : Dr. S. G. Patwardhan ; *Vice-President :* Dr. W. S. Barlinge, M.P.; *Member :* Dr. R. V. Wardekar ; *Secretary :* Smt. Parwatibai Patwardhan.

OFFICIALS

Collector, S. B. Kazi, I.A.S.

District Superintendent of Police, N. S. Karkare, I.P.S.

District and Sessions Judge, S. N. Hadole.

COTTON MILLS

BERAR MANUFACTURING CO. LTD., Spindles 21,384, Looms 360 ; Agents : Manekjee Bhimjibhai & Co., Rajabahadur Mansions, 24, Hanuman Street, Fort, Bombay ; Mills at Badnera.

VIDARBHA MILLS, BERAR, LTD., Spindles 13,500, Looms 347. Agents : Deshmukh & Co. Office on Mill premises. Mills at Ellichpur.

AMRELI DISTRICT

Headquarters : Amreli.

Talukas and Mahals : Amreli, Kodinar, Dhari, Okhamandal, Damnagar, Khambha, Ghogho.

Amreli, formerly part of Baroda State, is now part of Bombay State. It is not one block of territory but is composed of a number of separate parts intersected by territory belonging to other districts.

The area of Amreli District is 1,586 square miles and population 317,203.

The District is level country broken only by Gir Hills in the Dhari Taluka. The average yearly rainfall is between 23 to 25 inches. About 90 per cent of the land is dependent wholly on rain-water while only 10 per cent is irrigated by water from wells and streams.

The principal crops are bajri, jawar, groundnuts, cotton, wheat, gram, sugarcane, rice, sesamum, maize, mug, udad and kalthi. About 25 per cent of the land is under bajri cultivation and about 50 per cent under groundnut cultivation. As groundnut fetches a high price and the soil is suitable, it is extensively cultivated. Production of oil from groundnut and sesamum is one of the chief industries of the place, which has about 25 oil mills. Other industries include cotton ginning and the production of khadi.

The principal means of communication are the railways which run through almost all the chief places in the District. To supplement the railways there are bus services from Taluka headquarters to outlying areas.

The Okha Port in Amreli District, which was greatly developed during the time of the two last Gaekwars of Baroda, is one of the best deep sea ports in India. In Okhamandal Taluka, Port Okha, Mithapur and Dwarka have become industrial centres. There are some big industries at these places namely Dwarka Cement Works, the Tata Chemicals Ltd. and the Burmah-Shell Oil Storage and Distributing Co. Dwarka is famous for Ranchhodrai temples. In Kodinar Taluka, there are a number of ports, which are chiefly used by the fishing industry and country craft.

OFFICIALS

Collector and District Magistrate, P. N. Patel.
District Superintendent of Police, D. K. Patel.

Associations

AMRELI KAPOLE BOARDING SCHOOL & SETH PARMANANDDAS TRIBHOWANDAS KAPOLE BALASHRAM
Amreli.

Chairman & Trustee : Gordhandas Bhagwandas Narrotamdas ; *Hon. Secretary :* K. K. Parekh ; *Hon. Treasurer & Secretary :* V. B. Gandhi.

SHARDA PEETH
Dwarka.

Head : H. H. Jagadguru Shri Shankaracharya Shri Abhinava Sachchidananda Tirth Swamiji.

TRADES & PROFESSIONS

Alibhai Khanbhai Africawala, Amreli.
Amreli Engineering Works, Sukhnath Road, Amreli.
Bhatia Girdharlal Gokaldas, Kapad Bazar, Amreli.
Cutchhi Medical Stores, Chemists & Druggists, Palitana.
Damji Narsi & Bros., Dhariwala, Amreli.
Ebrahim Arbi & Sons, Tower Road, Amreli.
Ghusalal Lakhamanbhai, Seeds Merchant, Tower Road, Amreli.
Ismail, H., & Sons, Tower Road, Amreli.
Kathiawar Seeds Stores, Amreli.
Lalji Bhimji Thakkar & Co., Amreli.
Lavjibhai Gordhandas Parekh & Sons, Amreli.
Memon Karim Valimohamed, Tower Road, Amreli.
Minerva Printery, Printers and Publishers, Amreli.
Nandlal Parmanand, Ram Chowk, Amreli.
Narayan Oil Mills Co., Amreli.
Noorani Stores, near Tower, Amreli.
Oriental Stores, Amreli.
Parekh Juthabhai Keshavji, Amreli.
Parekh Mathurdas Narandas, Amreli.
Parekh Seed Stores, Amreli.
Parshottam Narshidas, Kapad Bazar, Amreli.
Patel Brothers, Electrical Contractors, Amreli.
Sangharaja Hardware Mart, Amreli.
Shah Stores, near Tower, Amreli.
Sheth Vrajlal Girdharlal, Amreli.
Shivshankar Dhanji Adhyaru, Amreli.

SHREE LAXMI SILK WEAVING FACTORY
Manufacturers of Art Silk Linen, Cotton Shirtings and all kinds of textiles made to order for buyers.
Mehta Wadi, Jaysinghpura, Amreli.
Grams : "LAXMISILK." Phone : 36.
Sales Office (Bombay) :—246, Kalbadevi Road, Bombay 2.
Phone : 39717.

Vijay Oil Mills Ltd., Amreli.
Virji Shivdas & Sons, Amreli.
Vithaldas Narshidas, Amreli, Bombay State.
Vora Gobar Ramji, Amreli.

AURANGABAD DISTRICT

Headquarters : Aurangabad.

Talukas and Mahals : Aurangabad, Kannad, Vaijapur, Gangapur, Bhokardan, Ambad, Paithan, Jalna, Jafferabad (Mahal), Khuldabad (Mahal), Sillod, Soegaon (Mahal).

Area : 6,318 sq. miles ; Pop. 1,179,404.

The District may be divided into the uplands in the north and the lowlands in the south, the latter terminating in the valley of the Godavari. The hills in the District—the Satara, Ajanta, Kannad, Mahadeo, Gastala—have a terrace-like appearance with flattened summits.

The most important river is the Godavari which forms the southern boundary of the District. The principal tributaries in the District are the Sina, the Dhanda, and the Dudna.

The lower slopes of the hills are well-wooded. The animals found in the District include wild hogs, bears, wolves and occasionally tigers and leopards.

The climate is generally healthy but during the monsoon and the cold season there can be malaria. The uplands are dry and healthy and the mean temperature for the whole year is around 80°. The average annual rainfall is 28 inches.

The most important cave temples in India — at Ellora and Ajanta—are found in this District. The great fort of Daulatabad is an extraordinary structure ; the village of Khuldabad has the tombs of the Emperor Aurangzeb and of Asaf Jah, the founder of the former ruling dynasty.

The soil is of two kinds, the mesab and the milwa. Jawar, bajra and wheat are the chief food-crops. Pulses and rice are next in importance. Cotton and oilseeds are largely grown.

Teak is the predominant species in the forest. A considerable portion contains only brushwood and small trees.

There are no minerals of economic value. Lime-stone, basalt and granite occur all over the country.

The chief exports are cotton, food grains, oil-seeds, silk stuff, tobacco, jaggery and metal vessels. The principal imports are rice, salt, piece-goods, sugar, kerosene and hardware.

A branch of the Central Railway runs from east to west.

Aurangabad is now the headquarters of the Marathwad University.

OFFICIALS

Collector, B. A. Kulkarni, I.A.S.
District Superintendent of Police, M. G. Gaval, I.P.S.
District and Sessions Judge, Govind Rao Mainkar.

COTTON MILLS

AURANGABAD MILLS LTD., Spindles 12,640, Looms 271 ; Managed by Board of Directors, Empire House, Dadabhai Naoroji Road, Fort, Bombay 1 ; Mills at Kothwalpura, Aurangabad.

BANASKANTHA DISTRICT

Headquarters : Palanpur.

Talukas and Mahals : Palanpur, Deesa, Dhanera, Vadgam, Tharad, Wav, Deodar, Kankrej, Danta.

The population of the District according to 1951 census, is 696,367, the area 3,682 sq. miles.

OFFICIALS

Collector, K. Sivaraj, I.A.S.

District Superintendent of Police, P. G. Nawani, I.P.S.

(For Judicial purposes Banaskantha is under Mehsana.)

BARODA DISTRICT

Headquarters : Baroda.

Talukas and Mahals :—Baroda, Savli, Vaghodia, Padra, Karjan, Sinor, Dabhoi, Sankheda, Naswadi, Chhota-Udepur, Jabugam, Baroda City.

Geographically, Baroda District (which is one of the five blocks into which the Baroda State was divided) forms a central compact block in the heart of Gujarat. It lies between North Latitude 21° 41′ and 22°32′ and East Longitude 73° and 74°10′. It is bounded on the north by the Kaira District beyond the river Mahi, and Panch Mahals on the north-east. It stretches roughly from south to north from the banks of the river Narmada to the river Mahi except for a small tract on the west and south-west boundary constituting the talukas of Amod, Vagra and Jambusar. The District is about 40 miles long and 35 miles broad. In the east it now stretches right upto the eastern boundaries of Bombay State. The eastern portion of the District is of a variegated nature, entirely undeveloped, largely because till the date of integration it was governed by petty Thakors and Taluqdars.

The area of the District is 2,788 sq. miles and the population 11,94,746.

The most important portions of the District are Kanum which produces some of the finest cotton in India and Chorasi and Vakal in Sankheda and Vaghodia Talukas. The picturesque bank of the river Narmada stretching over 100 miles in length abound in archaeological remains, temples, shrines. Besides Narmada and Mahi other rivers flowing through the District are Jambua, Surya, Vishwamitri and Dhadhar draining into the Gulf of Cambay while the rivers Or, Heran, Utchha are tributaries of the larger rivers.

Villages in Baroda provide amenities which do not generally exist elsewhere. Most villages have well conducted panchayats and possess institutions like schools, libraries, co-operative societies conducted on sound lines. The District as a whole has over 700 primary schools, 500 libraries, 300 gymnasiums and welfare associations.

The District is poorly wooded except in the east. The annual rainfall averages about 30 inches and varies only slightly from one place to another. The chief food crops are wheat, jowar, bajra, pulses, kodra, kadri, bawta, maize. Rice is now grown extensively interspaced with cotton. This latter together with tobacco, castor, and other oilseeds form the principal money crop. Baroda is a deficit District for food. In Padra, Karjan and Baroda Talukas many garden crops including vegetables and fruit are grown. Baroda does not possess adequate irrigation facilities like large reservoirs or hydro-electric works except wells. Considerable attention was given to the construction of wells in recent years.

The District is served by the Grand Trunk Road connecting Bombay, Ahmedabad, Baroda, Godhra, Indore and Delhi. There are about 250 miles of narrow gauge railway.

Baroda, the headquarters of the District is a historic and ancient city, and was the capital of the State till the State ceased to exist. It is fully modernised and is famous for its beautiful buildings, palaces, parks, avenues, recreation grounds, schools, colleges, hospitals, public libraries and broad, well laid out roads, and can stand comparison with any of the cities of the same size in India. The District is also well advanced in industry. In recent years a number of factories, big and small have sprung up. The more important lines of development are textiles, chemicals, oil and soaps, engineering, metal works and foundries, rolling mills, and manufacture of glassware, etc., providing employment to about 30,000 workmen.

Baroda has a full-fledged University with affiliated colleges providing courses in the humanities, Science, Technology, Social Work, Domestic Science and Music. The Maharaja Fatehsinghrao Gaekwad of Baroda is its Chancellor and Dr. Jyotindra Markand Mehta is the Vice-Chancellor.

Medical relief is so well organised that it is worth a special note. Among the larger medical institutions the most important is the Shri Sayajirao State General Hospital in Baroda city, which contains all special departments like pathology, surgery, radiology, dentistry, ophthalmology, midwifery, gynaecology and children's diseases. There is also the Shri Jamnabai Hospital run by the Government.

Separate institutions also exist for medical relief to women and children. Other important institutions in the city are the Mental Home, the Leper Asylum and a branch of the Indian Red Cross Society.

The Shri Padmavatibai Tuberculosis Hospital and Sanatorium located some 8 miles from Baroda city is well-equipped with scientific appliances and a clinic provides treatment for people suffering from tuberculosis.

OFFICIALS

Collector, R. M. Desai, I.A.S.

District and Sessions Judge, C. G. Bhatt.

District Superintendent of Police, P. D. Jadega.

MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA

The Maharaja Sayajirao University is a teaching and residential University established in 1949 under an Act of the former Baroda State and incorporated in the Statute by the Bombay Government following the merger of the State with Bombay. All the colleges and recognised institutions situated within the University area specified in the Act, became the constituent parts of the University and were with the exception of the Medical College, Museum and Picture Gallery managed by the University. These constituents include :— the Faculties of Arts, Science, Education and Psychology, Commerce, Medicine, Technology and Engineering, Fine Arts, Home Science and Social Work, Intermediate College, College of Indian Music, Dance and Dramatics, Polytechnic, the Oriental Institute and the Baroda Sanskrit Mahavidyalaya.

The University has instituted an ayurvedic research section in the medical college, Baroda, called Sheth Ujamshi Pitamberdas Ayurvedic Research Unit named after the donor who had created a trust and started an ayurvedic college at Patan.

The University instituted in 1952, a post-graduate diploma in Museology too, and the department is located in the museum and picture gallery. Museology is also included as one of the compulsory subjects for students of the Faculty of fine arts offering applied arts.

From June 1953, the Faculty of technology and engineering has introduced a course in textile engineering leading to the degree of Bachelor of Textile Engineering, the first of its kind in India. From June 1955, a course in Textile Technology leading to the degree of Bachelor of Textile Technology has also been introduced in this Faculty.

The University started a post-graduate diploma in Banking, the first of its kind in India, from June 1954 and a post-graduate diploma in Library Science from June 1956.

The Ramayana Department, started in the Oriental Institute, to publish an illustrated critical edition of Valmiki Ramayan, is progressing well.

A specialised course for training of Social Education Organisers for the Community Projects has been started in the Faculty of Social Work from 1955.

A Home Science Wing has been started for the training of Gramsevikas for the Government of Bombay.

The University has introduced the three-year degree course in Arts, Science and Commerce from June 1957.

Budget for 1957-58 : Income : Rs. 41,95,436 including Government of Bombay Grant of Rs. 18,87,070. Expenditure : Rs. 43,80,861.

Chancellor, His Highness Shrimant Fatesinh Gaekwad, Maharaja of Baroda, Sena Khas Khel, Samsher Bahadur, Maharaja of Baroda.

Vice-Chancellor, Dr. Jyotindra Mehta.

Pro Vice-Chancellor, Dr. C. S. Patel, B.A., M.Sc. (Bom.), Ph.D. (Leeds).

Registrar, B. K. Zutshi, M.A., LL.B. (Luck.).

University Librarian, Dr. C. P. Shukla, M.A., B.T. (Bom.), M.A. (L.S.), Ph.D. (Michigan).

Deputy Registrar, B. M. Nanavaty, B.A., Dip. Ed.

Asstt. Registrar, Vacant.

University Engineer, N. B. Patel, B.E. (Civil), A.M.I.E. (India).

Auditor, R. A. Iyer, B.A. (Hons.).

Accountant, N. A. Parikh, B.com. (Bom.).

Superintendent, N. P. Parikh, B.A. (Bom.), Dip. Ed., M. Ed. (Baroda).

Members of the Syndicate: Dr. Jyotindra M. Mehta (*Vice-Chancellor*); Dr. C. S. Patel (*Pro-Vice-Chancellor*); S. S. Bhandarkar (*Director of Education*); Dr. Jivraj N. Mehta; B. B. Joshi; Dr. V. N. Mody; Smt. Ansuya I. Amin; Dr. B. B. Yodh; D. M. Parikh; Prof. T. K. Narayana Menon; V. Y. Kantak; Prof. N. M. Bhatt; Dr. T. V. Patel; Prof. D. Subbarao.

Deans of Faculties: *Arts.*—V. Y. Kantak, M.A.; *Science.*—Prof. N. M. Bhatt, M.Sc., LL.B., Ph.D. (Edin.), F.S.S.; *Commerce.*—Prof. V. Y. Kolhatkar, M.Com., M.Sc. (Econ., London); *Education and Psychology.*—Prof. T. K. N. Menon, B.A., Dip. in Edn. (Leeds and Berlin), M.A. Educ. (Leeds); *Medicine.*—Dr. A. N. de Quadros, M.B.B.S., D.P.H. (Lond.), F.R.C.S. (Eng.); *Technology and Engineering.*—Prof. D. Subbarao, B.E. (Civil), A.M.I.E. (India); *Fine Arts.*—Prof. Markand Bhatt, G.D. (Arts), M.A. (Arts Edu., Barnes Foundation) (U.S.A.); *Home Science.*—Kumari Justina A. Singh, M.Sc. (Oregon and Kansas); *Social Work.*—Kumari I. D. Malani, B.S., M.S. (Oklahoma), M.S.W. (Michigan) (Officiating).

Principals: *Intermediate College*, V. D. Salgaonkar, M.A., LL.B., *College of Indian Music, Dance and Dramatics*, Prof. R. C. Mehta, B.A.; *Polytechnic*, Prof. P. J. Madan, B.Sc. (Eng.) (Edin.), M.Sc. (Eng.), D.I.C., M. Inst. B.E. (Lond.), A.M.I.E. (India); *Sanskrit Mahavidyalaya*, H. C. Mehta, M.A., B.T.

Director, Oriental Institute, G. H. Bhatt, M.A.

EDUCATIONAL INSTITUTIONS

The Baroda Arts and Science College, Baroda.
The College of Engineering, Baroda.
The Pratapsinh College of Commerce and Economics, Baroda.
The Kalabhavan Technical Institute, Baroda.
The College of Indian Music, Baroda.
Vernacular Teachers' Training College.
Training College for Women Teachers.
Diamond Jubilee Cotton Industries Institute, Baroda.
Emporium of Arts and Crafts, Baroda.
Sanskrit Mahavidyalaya, Baroda.
Museum and Picture Gallery.
Oriental Institute.
The Women's College of Home Science, Baroda.
The College of Fine Arts, Baroda.
The School of Social Work, Baroda.
The Secondary Teachers' Training College, Baroda.
The Aryan University for Girls, Baroda.
Salehabanu's Tailoring, Cutting and Embroidery Institute, Baroda.
Tairo (Textile and Allied Industries Research Organisation).

BARODA COLLEGE—(FACULTY OF ARTS)

This Faculty provides instruction in the humanities and the Social Sciences leading to B.A., M.A. and Ph.D. degrees of the M. S. University of Baroda.

Dean and Reader in English, V. Y. Kantak, M.A.

KAMUBALA SAHAKARI AUDYOGIK VIKAS MANDIR LIMITED

Narsinghji's Pole, Mahatma Gandhi Road, Baroda.

President: Smt. Kusumben H. Desai.
Hon. Organiser: Smt. J. K. Jhaveri.
Hon. Secretary: Smt. Kamalaben A. Shah.

PARESH TECHNICAL INSTITUTE

Palace Road, Baroda. and Vayudevta Building, Bajwada, Baroda.

Principal: Madhusudan Madhavlal Desai; *Secretary:* Vasant Kumar Madhavlal Desai; *Treasurer & Organiser:* Pravin Kumar Madhavlal Desai.

TEXTILE & ALLIED INDUSTRIES RESEARCH ORGANISATION (TAIRO)

C/o. Kala-Bhavan Premises, Baroda.

Hon. Director-Secretary: B. B. Joshi; *Asstt. Secretary:* K. M. Bhatt; *Liaison Officer:* A. D. Madhura Nath.

LIBRARIES

Central Library.
Shri Jayasinhrao Public Library.

COTTON MILLS

BARODA SPINNING AND WEAVING CO., LTD., Spindles 34,352, Looms 658; Agents: Javerchand Laxmichand & Co., P.O. Box No. 57, Baroda. Mills at Pani Gate, Baroda.

NEW INDIA INDUSTRIES LTD., Spindles 12,996; Agents: Distributors (Baroda) Private Ltd., Office on Mill premises. Mills at Jetalpur Road, Baroda.

SHREE YAMUNA MILLS CO., LTD. (formerly New Baroda Mills Co., Ltd.), Spindles 27,496, Looms 608; Agents: Zaverchand Laxminchand Bros. & Co., Office on Mill premises. Mills at Pratapnagar, Baroda.

† SHRI AMBICA MILLS No. 3 (formerly Shri Jagdish Mills Ltd.), Spindles 20,320, Looms 408; Agents: Harivallabhdas Kalidas & Co., Near Kankaria Loco Siding, Ahmedabad. Mills at Padra Road, Baroda.

† ‡ SAYAJI MILLS NO. 1, Spindles 36,004, Looms 602; Proprietors: Sayaji Mills Ltd., Kathwada, Ahmedabad. Mills near Railway Station, Baroda, No. 3.

THE FEDERATION OF GUJARAT MILLS & INDUSTRIES Rameschandra Dutt Road (Race Course Road), Baroda 1.

The present membership is 107. The membership is open to all industrial undertakings.

President, N. B. Amin; *Vice-President*, U. M. Patel; *Hon. Secretary and Treasurer*, D. T. Mehta.

TRADES & PROFESSIONS

ABHYANKAR, G. K., & CO., Ganpule Building, Raopura, Baroda.
Alembic Glass Industries Ltd., Baroda 3.
Amulakhrai M. Munshi, Raopura Road, Baroda.
Arvind Boards and Paper Products Ltd., Bilimora (W. Rly.).
Ashwin Industries Ltd., Office: opp. Jubilee Bag, Baroda.
Baroda Oil & Mill Store Supplying Co., opp. Suryanarayan Bag, Raopura, Baroda.
Baroda Oil Mills, Pratapnagar Road, Baroda.
B. Bros., Raopura, Baroda.
Bombay Baroda Assurance Co., Ltd., Baroda.
CAMARA COFFEE HOUSE, Dandia Bazar, Baroda. Speciality, Rice Plate and Puri Bhaji. Phone: 2861.
Cawasji Rustomji Dalal, Bilimora (Western Rly.).
C. Patel & Co., Near Tarkeshwer Mahadev, Baroda.
Dave, S., & Co., General Merchants, Tower Road, Baroda.
Desai & Co., Raopura, Baroda.
Desai, C., & Co., Lakshmi Bhuvan, Sayajiganj, Baroda.
Diamond Auto Stores, opp. College, Baroda.
Gita Niwas Hindu Lodging and Boarding House, Surasagar, opp. Pratap Talkies, Baroda.
Graphite and Mineral Industries, Chhani Road, Baroda.
Halifax Engineering Co., Anandpura, Baroda.
Indian Export Trade Bulletin, Sayajiganj, Baroda.
J. M. Machinery Mart, Anandpura, Baroda.
Jasmaan Machine Tool Corporation, Anandpura, Baroda.
Joshi, Pandit & Co., Ltd., Sayajiganj, Baroda.
JYOTI LIMITED., Baroda 3; Phone: 2287; Grams: "JYOTI-PUMPS"; Bombay Office: Lotus House, Marine Lines, Bombay; Phone: 242635; Grams: "JYOTIPUMPS".
Kantilal, R., & Co., Opp. College, Baroda.
Kirti Patel & Co., Raopura Road, Baroda.
Kothari, M. C., Raopura, Baroda.
Krishna Nivas, Behind Naya Mandir, Baroda.
Lalchand & Sons, Raopura Road, Baroda.
L. N. Shah's Modern Photo House, Kothi Road, Baroda.
Madhubhai Chotabhai Patel, Raopura, Baroda.
Madhukar Khandubhai & Co., Tulsidas Mansions, Kothi Road, Baroda.
M. Ambalal & Co., Raopura Road, Baroda.
Merit Oil & Trading Co., Ltd., Mehta Road, Baroda.
Mody Brothers, Raopura, Baroda.
Narayan Chemical Industries, Ganpule Building, Raopura, Baroda.

† Figures from 1956 statement. ‡ Proprietary concern.

THE NEW GREAT INSURANCE COMPANY OF INDIA LTD.
Bank Building, Mandvi, Baroda.
Chairman :—Tulsidas Kilachand
General Manager :—M. G. Mody
Business Transacted: Fire, Marine, Accident and Miscellaneous Insurance.

New Gujrat Trading Co., Raopura, Baroda.

Oriental Government Security Life Assurance Co., Ltd., Inspectorate Office, Kothi Road, Baroda.

Pandit, C. M., Sayajiganj, Baroda.

Paramount Insurance Co., Ltd., Head Office : Raopura, Baroda.

Park View—Soda fountain, Restaurant & General Stores—The best Spot in Town, Sayaji Road, Navsari. Specialities : Velvety Ice-Creams ; Delicious Drinks and Appetising Savoury Snacks ; Phone : 207.

Patel, S. A., & Co., Raopura, Baroda, Chemists and Druggists.

WASHING SOAPS
Of every description and to I.S.I. Specification can undertake manufacture as per Customer's Specification; Address your enquiries for Export & Local requirements to the only Soap House of Baroda.
POPAT SOAP FACTORY
Pani Gate, Baroda.
Estd: 1942 Phone: 2043
On List of D. G. S. & D. New Delhi.

PRATAP EXPELLER INDUSTRIES., (Ex-Nizami Welding Works), Engineers, Boiler makers & Fabrication Contractors; Repairers of oil Expellers & Manufacturers of its Spare Parts; Shop : Near Gendi Gate; Works : opp. Ranmukteshwar Mahadeo, Pratapnagar Road, Baroda 4. Phone: 2194; Grams : "HARD TEMPER".

PRATAP STEEL INDUSTRIES. Manufacturers of worms and spare parts for different types of oil expellers. Opp. Ranmukteshwar Mahadeo, Pratap Nagar Road, Baroda 4. Specialities : Our Worms are specially designed Slanting Thread to ensure you greatest Yield and Output. It is Deeply case hardened to convince you about its Longer Durability. Ask for a complete worm set on approval basis and compare its results with the worms you are using now. Phone : 2194. Grams : "HARD TEMPER." Apply for further details.

Ruby General Insurance Co., Ltd., Diwali Bhuvan, Raopura, Baroda.

Sarabhai Chemicals (Factory), P.O. Box No. 31, Baroda.

Sayaji Iron and Engineering Co., Ltd., Chhani Road, Baroda.

S. B. Patel & Co., Raopura, Baroda.

Shirke & Co., Sayajiganj, Baroda.

Swastik Engineering and Manufacturing Co., Ltd., Bahucharaji Road, Baroda.

Thakkar, B. M., & Co., Raopura, Baroda.

United India Medical Stores, opp. Secretariat, Baroda.

Vasant Engineering Ltd., Pratapnagar, Baroda.

Vinod & Abhyankar, Ganpule Building, Raopura, Baroda.

Western Petroleum Co., opp. Machipith, Raopura, Baroda.

BHANDARA DISTRICT

Headquarters : Bhandara.

Tahsils : Bhandara, Gondia, Sakoli.

The District lies roughly between North Latitude 20° 31′ and 21° 44′ and East Longitude 79° 29′ and 80° 43′. It is bounded on the north by Balaghat District, on the east by the former States of Khairagarh and Nandgaon, on the south by Chanda District, and on the west by Nagpur District. The area of the District is 3,622 sq. miles, and the population 1,071,657. The chief language is Marathi but Hindi is also spoken by a considerable section of the population.

PHYSICAL FEATURES

The surface is generally open and level, being broken only in a few places by isolated ranges of hills. The main river is the Wainganga and practically all the others are its tributaries. The Wainganga enters the District on the north-east and flows diagonally across until it passes within a mile of Bhandara town on the south-west, its valley lying between two ranges of hills. After this it flows to the south and then turning again south-east cuts off the small and fertile strip of Pauni from the rest of the District. Its width in Bhandara is about 500 yards but opposite Pauni it broadens to half a mile. The principal tributaries of the Wainganga are the Bagh, the Chulband, the Pungoli, the Chandan, the Bawanthari, and the Sur. The valleys of the Wainganga and the Bagh have been called the 'lake region' of Nagpur from the number of large artificial tanks constructed for irrigation which form a distinctive feature of the country. The larger tanks are irregular lakes, their banks formed by rugged hills, covered with low forest that fringes the waters. The Sakoli Tahsil or southern portion of the District consists largely of hill and forest. Elsewhere the country is for the most part open and closely cultivated, and the expanses of rice and wheat fields thickly studded with fruit-bearing trees and broken by low, flat topped hills present a pleasant and prosperous appearance.

The climate is generally cooler than that of Nagpur and the highest temperature in the hot season is usually not more than 112°. The nights if the sky is clear are nearly always cool. In winter the nights are cold though it never actually freezes. The annual rainfall averages 56 inches.

COMMUNICATIONS

Gondia may be regarded as the centre of railway communications. A line from Gondia goes north to Balaghat, a second goes south to Pratapgadh, a third south-west to Bhandara and a fourth south-east to Rajnandgaon. The Gondia-Bhandara line has a branch to Tirodi at Tumsar Road.

The most important roads are the great eastern road running through the south of the District, and the roads from Tumsar to Rampalli and Katangi, from Gondia to Balaghat, and from Tirora to Khairlanji.

FOREST, AGRICULTURE, INDUSTRY

The forests generally cover and surround the hill ranges. Teak is found on the higher hills and bamboos abound. The other timber trees are Saj, Lendia and Bijasal or Bonia. Mahua is abundant in the open country and the usual fruit-bearing and sacred trees surround the villages. The grasses called Kusal and Ghonar are principally used for thatching and Musyal for fodder. Kans sometimes invades wheat fields.

The principal food crops are rice, jawar, wheat, gram, linseed and pulses. Ginger, oranges and plantains are also grown and sent to Nagpur.

Mineral deposits include those of manganese, iron and a little gold.

The chief industries are weaving, making of brass vessels and stone jars, of soft grass matting for bedding, and of bamboo baskets.

OFFICIALS

Collector, S. M. Kamruddin, I.A.S.

District Superintendent of Police, C. V. Bapat.

BHIR DISTRICT

Headquarters : Bhir.

Talukas and Mahals : Mominabad, Manjlegaon, Gevrai, Bhir, Ashti, Patoda (Mahal), Kirj.

Area : 4,279 sq. miles ; Pop. 826,046.

Geographically the District can be divided into two parts, the highlands forming the south and east and the rest forming the lowlands. A low spur of the Western Ghats traverses the District in a generally eastern direction.

The biggest river is the Godavari which runs along the northern boundary. The smaller rivers are the Manjra, the Sindphana, the Bendsura and the Vijarta. The forest area is limited and so is large game. The climate is generally healthy and temperate, but in the lowlands it is warm and humid. The average rainfall is about 30 inches.

There are forts and buildings at Bhir which are of archaeological interest. Amba has a temple dedicated to Jogai. The temple of Baijnath at Parli is a celebrated place of Hindu pilgrimage.

The soil is mostly black cotton. On this are grown cotton, white jawar, gram, gingelly and wheat, while on the masab and kharab soils are grown white bajra, yellow jawar, pulses and oilseeds. Cotton and linseed are produced extensively in the District. The staple food crops are jawar and bajra. Wheat and rice are next in importance.

The District has no minerals of economic value. Granite, basalt and limestone which are found everywhere are used for building.

The industry is of little importance. The principal exports are jawar, wheat, cereals and pulses, cotton, linseed, sheep, bones, jaggery, the chief imports are salt, sugar, kerosene and cloth.

There are no railways in the District.

OFFICIALS

Collector, B. K. Halve, I.A.S.
District Superintendent of Police, S. M. Paranjape, I.P.S.
District and Sessions Judge, Renukadas R. Deshpande.

BROACH DISTRICT

Headquarters : Broach. *Sub-Division :* Rajpipla.

Talukas and Mahals : Broach, Vagra, Amod, Jambusar, Ankleshwar, Hansot, Nandod, Jhaghadia, Valia, Dediapada, Segbara.

Broach District is bounded on the north by the river Mahi, on the east and south-east by Baroda District, on the south by the river Kim and on the west by the Gulf of Cambay.

The area of the District is 2,934 sq. miles and the population according to 1951 census 706,035. The language spoken is Gujarati.

The soil is of the black cotton variety and is highly fertile, producing the famous Broach cotton, one of the best in India. Other agricultural produce includes wheat and lang. Timber, charcoal and some kinds of forest produce are available owing to the merger of the State of Rajpipla with the District.

There are two textile mills in the District (both in Broach) and ginning and pressing factories.

The main line of communication is the Western Railway which runs through the District from south to north.

Broach is one of the oldest seaports in Western India and is still a prominent port for country craft. The city has a fair, a dharmasala and a P.W.D. inspection bungalow.

The Jayendrapuri Arts and Science College, was opened in June 1955.

OFFICIALS

Collector and District Magistrate : V. S. Mahajani, I.A.S.
District and Sessions Judge : Y. D. Desai.
District Superintendent of Police : G. K. Kasture, I.P.S.

MILLS

*GOPAL MILLS CO., LTD. (formerly Whittle Spg. & Mfg. Co., Ltd. Nos. 1, 2 & 3), Spindles 22,100, Looms 652 ; Agents : Nanddas Haridas & Co., c/o The Vijaya Mills Co., Ltd., Naroda Road, Ahmedabad. Mills at Mahatma Gandhi Road, Broach.

SHRI PRITHVI COTTON MILLS LTD. (formerly Broach Fine Counts Spg. & Wvg. Co., Ltd.), Looms 542 ; Director, L. B. Rungta, 401, Cotton Exchange Building, Bombay 2. Mills at Mahatma Gandhi Road, Broach.

ASSOCIATIONS, CLUBS, ETC.

The Broach Bar Association, Court Road, Broach.
The Broach Red Cross Society, Near Tower, Broach.
The Rotary Club, Broach Branch.
The Broach Sanitary Museum Hall, Broach.
The Majoor Mahajan, Broach Branch, Near Sevashram, Broach.
The Broach Kamdar Union (Red Flag), Near Panch Fanas, Broach.
The Bharat Sevak Samaj, Jawahar Bazar, Broach.
The Broach Shtri Mandal, Jawahar Bazar, Broach.
The Broach Education Society, Jawahar Bazar, Broach.
Shri Batuknath Sarvajanik Vyayamshala, Baharni Undai, Broach.
The Broach Cine Circule Society, Navadehra, Broach.
The Broach Kalamandal, Undivakhar, Broach.
The Broach Sad Vidya Mandal, Jawahar Bazar, Broach.
The Broach Merchants' Association, Furja Road, Broach.
The Broach Jilla Vidyarthi Sahayak Mandal, Lallubhai Chakla, Broach.

LIBRARIES

Raychand Dipchand Library, near Tower, Broach.
Nrisinh Library, Jawahar Bazar, Broach.
Rashtra Bhasha Prachar Library, Jawahar Bazar, Broach.
Dadabhai Naoroji Library, Zadeswari Darwaja, Broach.

* Is reported to have been sold to a new party, the name of the mills being the Broach Textile Private Ltd.

BULDANA DISTRICT

Headquarters : Buldana.

Tahsils : Chikhli, Mehker, Malkapur, Khamgaon, Jalgaon.

This Berar District lies roughly between North Latitude 19° 45' and 21° 17' and East Longitude 76° 20' and 77° 10'. It is bounded on the north by the Districts of East Khandesh and Nimar, on the south by Aurangabad and Parbhani, on the east by Akola, and on the west by Aurangabad and East Khandesh. The area of the District is 3,760 sq. miles and the population 870,168. The language spoken is Marathi.

The principal means of communication is the Bombay-Nagpur line of the Central Railway which runs through the northern portion of the District from west to east for a distance of about 28 miles.

Jawar is the chief food crop, though wheat is also grown. The most profitable cash crop is cotton with oilseeds coming next.

The principal industry is the preparation of cotton for the market. Exports consist of raw cotton, oilseeds, grain and pulses, and the imports include grain and pulses, coal and coke, sugar and salt.

OFFICIALS

Collector, G. G. Desai.
District Superintendent of Police, M. N. Gadgil, I.P.S.

CHANDA DISTRICT

Headquarters : Chanda.

Tahsils : Chanda, Warora, Brahmapuri, Garchiroli, Sironcha.

The District lies roughly between North Latitude 18° 42′ and 20° 45′ and East Longitude 78° 48′ and 80° 45′. It is bounded on the north by the Wardha, Nagpur, and Bhandara Districts, on the west by the Yeotmal District and Andhra, and on the east by the Durg and Bastar Districts. The area of the District is 9,312 sq. miles, and the population 977,618. The languages spoken are Marathi, Hindi, Telugu and Gondi.

PHYSICAL FEATURES

The shape of the District is an irregular triangle, with its base to the north and tapering to the south. The Wardha, Pranhita and Godavari rivers successively mark the western border, while to the north the Wunna river divides Chanda District from Wardha District for a short distance. The western portion between the Wardha and Erai rivers and a small strip along the north consist of undulating open country. East of this to the Wainganga the surface is generally broken either by isolated hills or small ranges ; large areas are covered with forest, and the soil is generally sandy. The Wainganga flows from north to south through the centre of the District to its junction with the Wardha. The greater part of the country to the east of it consists of an elevated plateau stretching from north to south along the entire length of the District, from which again rise numerous ranges of hills, while dense masses of forest extend over plateau and valley alike. The general height of the plain country is about 900 feet above sea-level in the north falling to 658 feet at Chanda and 406 at Sironcha. Except in the open country on the west and north, the whole District is thickly wooded.

The District still retains several memorials of its past glory in the ruins of its forts and palaces round about Chanda town. There are several picturesque spots worth seeing and useful for shikar.

The forest vegetation in the District is of a mixed character. Teak is fairly general but is not anywhere very plentiful. The principal trees are Saj, Bijasal, Rohan, Kaddan, Haldu, Semal, Mahua, Dhaura, Tendu, Garari and Palas. Salai is very abundant on the dry hills and plateau. Other trees met with are Satin-wood, Reunjha, Bahera and Siris. Near villages tamarinds and mangoes abound, and in the south of the District groves of the palmyra palm occur. The forests are well distributed, and very few villages are more than three miles from some part of them.

The climate is slightly hotter than that of Nagpur, and the heat of the summer months is trying. On the whole, however, the climate is healthy. The annual rainfall averages about 51 inches at Chanda Town and 46 at Warora. Failure of rainfall is very frequent.

From Chanda a railway line goes north-west to Wardha, another goes first north-east upto Nagbhir from where one branch goes to Gondia and another to the north and north-west to Nagpur, while a third goes south-east to Balharshah. Considering its size the District is not particularly well provided with roads. The Mul and Sironcha roads are the most important routes leading from Chanda into the interior of the District. During the rainy season some produce is carried by boat on the Wainganga.

AGRICULTURE, INDUSTRY

Rice which is the most important crop is grown in the centre and east of the District. Jawar is the chief crop in Sironcha and the Warora Tahsils, while linseed, gram and wheat are grown principally in the black-soil lands of the Chanda Haveli and those adjoining the Wardha river. Cotton is also an important cash crop.

Coal-mines occur and there are match factories, ceramic industries and paper manufacture.

OFFICIALS

Collector, Q. M. A. Wahab, I.A.S.
District Superintendent of Police, G. L. Limaye.

DANGS DISTRICT

Headquarters : Ahwa.
Taluka : Danga.

Dangs District lies between north latitude 20° 33′ and 21° 3′, east longitude 73° 28′ and 73° 57′. The area is about 658 sq. miles and the population 47,282. The rail terminus for the District is Waghai on the Billimora-Waghai line on the Western Railway and is 171 miles from Bombay. There are regular State Transport Bus Services throughout the year between Billimora and Ahwa *via* Waghai, and Ahwa and Nawapur ; and during fair season between Ahwa and Nasik *via* Waghai.

The language spoken by the Dangis is called Dangi. It has been officially accepted that the basic element of Dangi is Marathi. Marathi and Gujarati are also spoken in the District. The inhabitants are called Dangis which term includes Bhils, Kunbis, Warlis and Maochis The whole District is a scheduled area.

The District contains some of the richest forests in Bombay State, which form the principal source of revenue, Dangs teak being considered as one of the best varieties of Indian teak.

There is a Central Hospital at Ahwa where the District Bungalow of the Public Works Department is also situated. There are about 20 forest rest houses at various places in the District. The climate of Ahwa is pleasant throughout the year.

OFFICIALS

Collector and District Magistrate, B. G. Deshmukh, I.A.S.
District Superintendent of Police, H. C. Singh, I.P.S.

EAST KHANDESH DISTRICT

Headquarters : Jalgaon.

Talukas : Chalisgaon, Amalner, Parola, Chopda, Erandol, Pachora, Jamner, Jalgaon, Yaval, Raver, Bhusawal.

Mahals : Edlabad, Bhadgaon.

East Khandesh, with Jalgaon as capital, is one of the northern-most Districts in Bombay State. It is bounded on the north by the Satpura Mountains and Madhya Pradesh State, on the east by Nimar and Buldana Districts, on the south by Aurangabad District, and on the west by Nasik and West Khandesh Districts.

The area of the District is 4,467 sq. miles and the population according to 1951 census 1,471,351. The main population of the District is composed of Levas and Marathas, with a good percentage of Bhils, Vanjaris and other hill tribes. Levas, who are supposed to be the descendants of Lahu, the son of Rama, are said to have migrated to the District in the 11th century. Their language is a peculiar mixture of Gujarati, Marathi and Hindi and is called Ahirani. The District has very rich black soil, specially in the trans-Tapti Talukas, and is among the Districts which yield the highest revenue.

AGRICULTURE

The most important crops are cotton, groundnuts, jawar, bajri, gram, millet, linseed and sesamum. The most important garden crops are chillis, corriander, melons, watermelons, betel leaf, bananas, mosambis and santra. North India is a lucrative export market for bananas for the sale of which eleven Co-operative Fruit Sale Societies have been established in the District. The bananas are now marketed by the State Co-operative Marketing Board in Delhi.

Cotton and groundnut are even more important. The cotton is classed as 197-3, better known as Vir Nar, which new variety replaced the old variety Jarila in 1952. It is a cross breed of Verrum and N. E. Cotton. Vir Nar is finer than Broach and fetches a higher price. It gives 4 per cent more ginning. This cotton is now compulsorily sown in districts of East Khandesh, West Khandesh and Nasik. Government have a special agricultural farm at Jalgaon, for research in cotton breeding for improving the staple and ginning percentage. Fall in foodgrain prices and reduced acreage under groundnut have led to an increase in acreage under cotton.

There has been a sharp fall in acreage under groundnut owing to unfavourable weather conditions during successive years. There is a large export trade in groundnut oil and hydrogenated oil or vanaspati.

COMMUNICATIONS

The Central Railway is the main line of communication and between its various lines traverses the whole length and most of the breadth of the District.

Jalgaon is the biggest town and District headquarters, a great trade centre, and also an educational centre. The town is 37 miles from Ajanta Caves and a regular State Transport

bus traffic exists from Jalgaon to Ajanta. The Central Railway has constructed retiring rooms at Jalgaon Railway Station for the convenience of tourists visiting Ajanta Caves. Two new buildings have been added to the Travellers' Bangalow two furlongs from the railway station. Amalner is the biggest cotton centre in the District.

The rainfall (mean annual is 28·27 inches) is usually both general and regular, which fact in itself discourages irrigation.

INDUSTRIES

The main industry is based on agriculture. There are about 40 oil mills in the District, besides several bullock driven presses. Two vegetable factories employ 1,000 workers. There is a silk mill in the District. There is also a factory, which manufactures crackers and fireworks, employing 100 workers during season.

There are in the whole District four spinning and weaving factories, about 100 cotton ginning and pressing works, about ten dyeing factories, three big railway workshops (at Bhusawal) all employing more than 26,000 people.

OFFICIALS

Collector and District Magistrate, N. G. Saswadkar, I.A.S.

District and Sessions Judge, D. G. Palekar.

District Superintendent of Police, T. G. L. Iyer, I.P.S.

EDUCATIONAL INSTITUTIONS AND ASSOCIATIONS

PRATAP COLLEGE OF SCIENCE AND ARTS

Amalner (E.K.)

Principal.—Dr. V. P. Damle, Ph.D. (Lond.), D.I.C.

Education is imparted through tutorial system.

The Post-graduate Arts courses include Economics, Politics, Marathi, Sanskrit and English, catering to the need of the commercial public.

Post-graduate Science Section has a Botany research department, helpful for the Khandesh agriculturists.

Institution has modern, hygienic hostels accommodating 300 students (boys and girls) lending this institution a distinctive air of a residential College.

Special attention to out-door games played on the premises.

KHANDESH COLLEGE EDUCATION SOCIETY'S MOOLJEE JAITHA ARTS & SCIENCE COLLEGE

Jalgaon.

VALLABHDAS VALJI GENERAL LIBRARY

Jalgaon.

President.—Prof. M. N. Adwant. *Secretary.*—D. V. Kulkarni.

Executive Chairman.—R. V. Dharmadhikari.

VIKAS MANDAL

Navi Peth, Jalgaon (E.K.)

Objects : Development of culture and citizenship by means of literature, music, drama and dance. Membership open to all residents of East Khandesh District over 21.

President.—Nathmal Sagarmal.

Vice-Presidents—B. V. Pradhan, B.A. (Hons.), LL.B.; Dr. Mrs. Chandrika Desai, L.C.P. & S. (Bom.).

Secretaries—A. M. Khambete; V. T. Rajkotia; S. R. Patankar.

EAST KHANDESH LIBRARY ASSOCIATION

C/o V. V. District Library,

Navi Peth, Jalgaon, E.K.

Objects : To promote the library movement and popularise Bombay State Government's Scheme for Library Development in the mofussil area. Membership open to institutions (village and town libraries) and individuals on payment of a small annual fee.

President.—L. R. Gadgil, B.A., LL.B.

Secretary.—D. V. Kulkarni, M.A., B.T.

JALGAON ROTARY CLUB

Navi Peth, Jalgaon, E.K.

A branch of Rotary International.

INDIAN INSTITUTE OF PHILOSOPHY

Amalner (East Khandesh).

President : Shrimant Pratapshet; *Director :* Prof. G. R. Malkani, M.A., M.Litt. (Cambridge); *Professor :* M. R. Oak, M.A. (Punjab), M.A. (Calcutta).

VYAPARI MAHAMANDAL

Baher Pura, Amalner (E. Khandesh).

Chairman : Hiralal Harjiwandas Shah; *Deputy Chairman :* Ratanlal Mahadeo Upadhye; *Secretary :* Ashokkumar Champalal Gujarati.

COTTON MILLS

KHANDESH SPG. & WVG. MILLS CO., LTD., Spindles 23,436, Looms 465; Secretaries & Treasurers: Indra Singh & Sons Private Ltd., Eros Theatre Building, Jamshedji Tata Road, Bombay. Mills at Jalgaon, E. Khandesh.

PRATAP SPG., WVG. & MFG. CO., LTD. (Nos. 1 & 2), Spindles 48,964, Looms 1,061; Agents: Motilal Manockchand & Co., Office on Mill premises. Mills at Amalner, East Khandesh.

CHHAGANLAL TEXTILE MILLS PRIVATE LTD. (formerly Chalisgaon Shri Laxminarayan Mills Co., Ltd.), Spindles 23,220, Looms 604; Rai Seth Chhaganlal, Managing Director; Office on Mill premises. Mills at Chalisgaon, East Khandesh.

† **GENDALAL MILLS LTD.** (formerly Bhagirath Spinning and Manufacturing Co. Ltd.), Spindles 16,128, Looms 368. (In liquidation under Court Receiver.) Mills at Jalgaon, East Khandesh.

TRADES & PROFESSIONS

Ashok Chemical and Pharmaceutical Works, P.O. Box No. 40, Jalgaon (E.K.).

THE BHARAT AGENCIES

Branch: 31, Forbes St., Fort, Bombay 1.

Head Office: Mahatma Gandhi Road, Post Box 29, Jalgaon E.K.

Direct Importers of:

Arms, Ammunition and Machinery Spare Parts.

Wholesale Stockists of

"BRYCE" & "BOSCH" Fuel Injection Equipments.

Deccan Engineering and Trade Services, Ganesh Building, Maheji Bazar, Jalgaon (E.K.).

Deshmukh Brothers, Jalgaon.

The East Khandesh Central Co-operative, Jalgaon.

Jalgaon Medical Stores, Navipeth, Jalgaon (E.K.).

Kanhaiyalal Udayram Sharma, Jalgaon (E. K.).

Khandesh Ayurvedic Pharmacy, Jalgaon (E.K.).

Khandesh Sports, Jalgaon (E.K.).

M. K. Patel & Co., Jalgaon (E.K.).

Oriental Government Security Life Assurance Co. Ltd., Inspectorate Office, 70, Navi Peth, Jalgaon.

Prakash Stores, Baliram Peth, Jalgaon (E.K.).

Radhakrishna Medical Stores, Maheji Bazar, Jalgaon (E.K.).

Sewashram, Lodging and Boarding House, Jalgaon (E.K.).

United Trading Corporation, Polar Peth, Jalgaon (E.K.).

† Figures taken from 1956 statement.

GOHILWAD DISTRICT

Area : 3,682 sq. miles ; *Population :* 1,020,130.

Headquarters : Palitana.

Talukas : Bhavnagar, Botad, Gadhada, Jafrabad, Kundla, Lathi, Lilia, Mahuva, Palitana, Rajula, Sihor, Talaja, Umrala, Vallabhipur.

There are 1,033 villages and 17 towns in the District.

The port of Bhavnagar is well-equipped, and it is one of the main trading centres of the area.

The main industries of this district consist of textiles, rubber-goods and toy making. Mahuva is well-known for the manufacture of toys. Salt is also produced and there are many dairies.

The main crops are bajra, jawar, oilseeds, rice, cotton and wheat.

OFFICIALS

Collector, R. B. Shukla, I.A.S.
District Superintendent of Police, E. F. Deboo, I.P.S.
District and Sessions Judge, J. M. Sheth.

ASSOCIATIONS

SAURASHTRA CHAMBER OF COMMERCE

Mahatma Gandhi Road, Bhavnagar.

President : Prabhudas Ramji Mehta ; *Vice-President :* Bhagwatiprasad P. Mehta ; *Hon. Secretary :* Kantilal Hargovinddas Gosalia.

COTTON MILLS

KRISHNA KUMAR MILLS CO., LTD., Spindles 8,496 ; Director-in-Charge : Babulal Chunilal and Dineshchandra Chimanlal Office on Mill premises. Mills at Mahua, Gohilwad District.

MAHALAXMI MILLS LTD., Spindles 22,504, Looms 480 ; Agents : Hargovindas Jivandas & Sons Ltd. Office on Mill premises. Mills near Chavdi Gate, Bhavnagar.

NEW JEHANGIR VAKIL MILLS CO., LTD. Spindles 32,412, Looms 714 ; Mangaldas Jayshingbhai Sons Private Ltd. Office on Mill premises. Mills at Nilambag Road, Bhavnagar.

HALAR DISTRICT

Area : 3,411 sq. miles ; *Population :* 574,472.

Headquarters : Jamnagar.

Talukas : Jamnagar ; Dhrol ; Kalavad ; Khambalia ; Jamjodhpur ; Bhanvad ; Jodia ; Kalyanpur ; Lalpur.

There are seven towns and 656 villages in the District.

People live mainly on agriculture. Including both cultivated and waste land the District has an area of 21,97,674 acres. The average rainfall is 20" to 22". Potato is cultivated on a large scale in the district.

The main small industries are the manufacture of agricultural implements, brass and copper vessels, the making of baskets, the manufacture of tiles, lime, oil crushing, handlooms, salt, the keeping of poultry.

Sikka, Bedi and Rosy are the three ports of the district. Sikka is known for its cement industry.

Jamnagar is well-known for its Bandhanis. One woollen and two textile mills are also located here.

OFFICIALS

Collector, H. K. L. Capoor, I.A.S.
District Superintendent of Police, S. Ramayya, I.P.S.
District and Sessions Judge, M. I. Pandya.

ASSOCIATIONS

NAWANAGAR CHAMBER OF COMMERCE

Chamber Hall, Grain Market, Jamnagar.

President : Kantilal P. Shah ; *Vice-President :* Nanalal P. Shah ; *Hon. Secretaries :* Shivlal G. Shah ; Balubhai M. Solanki ; *Treasurer :* Dhirajlal M. Sutaria ; Babubhai K. Shah.

WOOL MERCHANTS' ASSOCIATION

Jamnagar, Halar District.

President : Kantilal P. Shah ; *Hon. Secretary :* Laxmichand R. Sanghvi.

SHREE DIGVIJAYSINHJI SPG. & WVG. MILLS LTD. Spindles 21,172, Looms 364 ; Mg. Agents : Chaitanyakumar Mangaldas & Co. Office on Mill premises. Mills at Bedeshwar, Jamnagar

TRADE & PROFESSIONS

Phone : 120. Grams : "FORWARD".

K. P. SHAH & CO.

Post Box No. 99,
JAMNAGAR.

Branches at Porbandar, Veraval and Kandla.

ANCHOR LINE AGENTS

Undertakes Shipping, Clearing and Forwarding work.
Interested in Steamship Agencies.

Madhusudan & Company, Vaibhav Niwas, Station Road, Jamnagar.

KAIRA DISTRICT

Headquarters : Kaira (Revenue), Nadiad (Judicial).

Talukas and Mahals : Matar, Mahmedabad, Nadiad, Kapadvanj, Anand, Borsad, Thasra, Balasinor, Cambay, Petlad.

Kaira District lies between North Latitude 22°14' and 23°7' and East Longitude 72°30' and 73°23'. It is bounded on the north by the Ahmedabad and Saberkantha Districts, on the south by the Baroda District, on the east by the Mahi River and Panch Mahals District, on the west by the Ahmedabad District and the Bay of Cambay. The former princely States of Cambay, Balasinor, Ghodasar and part of Baroda have merged in this District so that its limits now extend upto the Panch Mahals and the Bay of Cambay. The population of the District according to the 1951 census is 1,612,426 ; area, 2,564 square miles. The language spoken is Gujarati.

Nadiad is the largest town in the District and the seat of the District and Sessions Judges' Courts, the District Local Board, Sales Tax and Income-Tax Departments. The revenue headquarters, however, is Kaira, where also the head post office and the District and Civil hospital and police lines are located. There is a network of State bus services in the District.

Petlad is another industrial town. Cambay is the only port in the District.

Tobacco which is suitable for the manufacture of cigarettes is grown in Kaira District while at Sevalia in the Thasra Taluka the Associated Cement Co., Ltd. has a cement factory.

The Government of India have opened a tobacco research institute at Anand.

Nadiad is also the headquarters of the State Transport for Ahmedabad, Kaira and Panch Mahals.

OFFICIALS

Collector and District Magistrate, S. M. Dudani, I.A.S.
District Superintendent of Police, V. V. Nagarkar, I.P.S.
District and Sessions Judge, M. D. Manek.

SARDAR VALLABHBHAI VIDYAPEETH

Vallabh Vidyanagar, *via* Anand.

The Sardar Vallabhbhai Vidyapeeth has been established under Bombay Act No. XL of 1955 as a teaching and affiliating University in a rural setting with the object of accelerating the process of regeneration of villages by the application of modern arts, sciences and

chnology to rural requirements. It provides courses in five faculties amely Arts, Science, Commerce, Engineering including Technology, id Agriculture. The Vidyapeeth prepares students for the follow- g degrees, B.A., B.Sc., B.E., B.Sc. (Agri.), M.A., M.Sc., M.Sc. (Agri.), com., B.Com., M.E., and Ph.D.

The constituent Colleges with the courses of studies and number students in each College within brackets:

Vithalbhai Patel Mahavidyalaya, Vallabh Vidyanagar *via* Anand (Arts and Science ; 1,853).

Birla Vishwakarma Mahavidyalaya, Vallabh Vidyanagar *via* Anand (Engineering College ; 876 including Diploma).

Bhikhabhai Jivabhai Vanijya Mahavidyalaya, Vallabh Vidyanagar *via* Anand (Commerce ; 595).

Bansilal Amritlal College of Agriculture, Anand (Agriculture ; 300).

Chancellor, Sri Prakasa, B.A., LL.B. (Cantab.), Bar-at-Law, Governor of Bombay.

Vice-Chancellor, Bhailalbhai Dyabhai Patel, L.C.E.

Registrar, K. J. Majumdar, M.A., B.T.

Members of the Syndicate : Vice-Chancellor, Bhailalbhai D. Patel, L.C.E. ; Director of Education, Bombay State, Poona or his nominee ; S. S. Bhandarkar, B.A. (Bom. & Lond.), Director of Education, Bombay State, Poona or N. R. Trivedi, Dy. Director of Education, Bombay State, Poona ; Principals of Colleges at Vallabh Vidyanagar ; Dr. Madhavlal Sukhlal Shah, M.Sc., Ph.D. (Lond.), F.C.S. (Lond.), F.I.C.S. (Cal.), F.I.A.S. (Bang.), Principal, Vithalbhai Patel Mahavidyalaya ; G. S. Desai, B.E. (Civil), Principal, Birla Vishvakarma Mahavidyalaya ; Nanubhai K. Desai, M.A., B.T., Ed. (Lond.), Acting Principal, Bhikhabhai Jivabhai Vanijya Mahavidyalaya ; Dr. M. D. Patel, M.Sc. (Cornell), Ph.D. (Wisc.), Principal, Bansilal Amritlal College of Agriculture, Anand ; H. M. Desai, B.Ag., Hon. Secretary, Charotar Gramoddhar Sahakari Mandal Ltd., Vallabh Vidyanagar ; Natverlal Maneklal Dave, B.A., Hon. Secretary, Charutar Vidya Mandal, Vallabh Vidyanagar ; Shrimati Lilavati Munshi, Bhavan, Chowpatty, Bombay ; Utsav Parikh, M.A., LL.B., Nadiad ; Dahyabhai Vallabhai Patel, Bombay ; Manubhai Bhikhabhai Patel, Ahmedabad.

Deans of Faculties : Arts : Prof. S. M. Wadia, M.A. ; Science : Prof. G. G. Paldhikar, M.Sc. ; Technology including Engineering : Prof. K. V. Kardile, B.Sc., B.Sc. (M & E.) ; Commerce : Prof. L. V. Gogate, B.Sc. (N. Carolina, U.S.A.) ; Agriculture : Dr. R. M. Patel, D.Sc. (Agri.), M.Sc., Ph.D. (Wisc. U.S.A.).

BIRLA VISHVAKARMA MAHAVIDYALAYA (ENGINEERING COLLEGE)

P.O. Vallabh Vidyanagar, Via (W. Rly.).

Principal : G. S. Desai, B.E., M.I.E., M.I.S. (India).

CHAROTAR EDUCATION SOCIETY, ANAND

The institutions conducted by the Society, *viz.* Dadabhai Naoroji High School, Kasturba Kanya Vidyalaya, Shishuirhar, Ambalal Balgriha Shala (a primary school with a residency) and Motibhai Amin Primary Teachers Training College stand on their own grounds. The society runs 236 reading rooms.

Secretary—Raojibhai C. Patel, B.A. (G.V.)

THE GORDHAN DUTT CHARITABLE LIBRARY SOCIETY

Chakalshi, *via* Nadiad

GUJARAT ITIHAS PARISHAD

Vallabh Vidyanagar, Dist. Kaira.

Objects :—To promote the study of the history of Gujarat, to encourage research and to co-ordinate the work done by scholars in the field of Gujarat history.

Convener : Principal Nanubhai Desai, Vallabh Vidyanagar.

KAIRA DISTRICT TOBACCO MERCHANTS' ASSOCIATION

Station Road, Nadiad.

President : Gokalbhai Somabhai Patel ; *Vice-President :* C. F. Patel ; *Hon. Secretary :* G. M. Vohra.

NADIAD TOBACCO MERCHANTS' ASSOCIATION

(Incorporated under Indian Companies Act)

Saloon Road, Nadiad Dist., Kaira.

President : Somabhai Haribhai Patel ; *Hon. Secretary :* Ishverbhai R. Patel.

PETLAD COLLEGE

Petlad

The College is affiliated to the Gujarat University for courses leading to the B.A. and B.Sc. examinations.

Principal :—Dr. S. V. Shah, B.Sc., Ph.D.

OTHER INSTITUTIONS

American Methodist Mission Hospital, Nadiad.

Dahi Laxmi Library, Nadiad.

Government Agriculture Institute.

Government Tobacco Research Institution, Anand.

The J. & J. College of Science and C.B. Arts Institute, Nadiad.

The Kaira District Co-operative Milk Union Ltd., Anand.

The Maha Gujarat Ayurvedic Hospital, Nadiad.

The Poison Model Dairy, Anand.

The Shankerbhai Jorabhai Mahagujarat Ayurvedic College, Nadiad.

The Sevalia Cement Manufacturing Factory, Sevalia. Started by the Associated Cement Cos. Ltd.

The Turkey Red Dye Works Ltd., Petlad.

The Vallabh Vidyanagar, Anand.

Santram Mandir, Nadiad.

SPINNING & WEAVING MILLS

KESHAV MILLS CO. LTD., Spindles 24,656, Looms 400 ; Agents: Chandulal Keshavlal & Co. ; Office on Mill premises. Mills at Petlad, *via* Anand.

NEW SHORROCK SPINNING AND MANUFACTURING CO., LTD. (formerly Nadiad Swadeshi Spinning, Weaving and Manufacturing Co. Ltd.), Spindles, 51,000, Looms 907, Secretaries, Treasurers and Agents : Mafatlal Chandulal & Co., Ltd., Asarva Road, Railwaypura Post, Ahmedabad. Mills at Nadiad, Dist. Kaira.

PETLAD BULAKHIDAS MILLS CO., LTD., Spindles 18,844 ; Secretaries, Treasurers and Agents : Motilal Kashandas & Co., Opp. Station, Petlad. Mills opp. Station Road, Petlad, *via* Anand.

RAJRATNA NARANBHAI MILLS CO., LTD., Spindles 25,552, Looms 412 ; Agents : Ramanlal Keshavlal & Co. ; Office on Mill premises. Mills at Petlad.

SHREE SHUBHLAXMI MILLS LTD. (formerly Shree Vijayalaxmi Cotton Mills), Spindles 20,488, Looms 340 ; Mg. Agents : Shree Govind Cotton Co. Private Ltd. ; Office on Mill premises. Mills at Station Road, Cambay (Dist. Kaira).

TRADES & PROFESSIONS

Bhadrakumar Jyotish Karyalaya, Jawahar Road, Siddharth Mahadev Building, Cambay 1.

Chaturlal Chhotalal Shah, Juni Mandai, Kda Kotdi, Cambay.

Chandulal M. Desai & Co., P. O. Ode, Kaira.

Chhotabhai Jethabhai Patel & Co., Nadiad, Kaira District.

DHARAMCHAND MADHAVJI., Manufacturers of Cream, Casein, Butter & Ghee, Kakarkhad, Nadiad (Kaira Dist.).

DOSHI BROTHERS, Manufacturers and Suppliers of Casein, Butter, etc. Anand, Dist. Kaira. Estd. : 1924 ; Grams : "PARCREAM."

Thakorji Maharaj Co-operative Society, Bankers and Moneylenders, Municipal Office, Nadiad, Kaira.

WESTERN CREAMERIES, Nadiad, Dist. Kaira ; Manufacturers of Cream, Casein, Butter & Ghee.

KOLABA DISTRICT

Headquarters : Alibag.

Talukas and Mahals : Alibag, Pen, Panvel, Karjat, Roha, Mangaon, Mahad, Khalapur, Uran, Poladpur, Murud, Shrivardhan, Mhasla and Sudhagad.

Kolaba District in the Konkan area of Bombay State lies between North Latitude 17°52" and 19°3" and East Longitude 73°7" and 73°42". On the north it is bounded by Thana District; on the east by the Sahyadri Hills and Poona and Satara North Districts; on the south by Ratnagiri; and on the west by the Arabian Sea.

The total area of the District is 2,712 sq. miles, the population (based on 1951 census) 909,083.

Kolaba is a rugged belt of country cut across by numerous creeks from 15 to 30 miles broad stretching from the south of Thana and Bombay Harbour to the foot of the Mahableshwar hills, 75 miles south-east.

Notable places in the District are Raigarh near Mahad, once the capital of the great Shivaji and Kanakeshwara near Alibag, which is fast growing into a holiday resort as it is a hill 1,100 feet above sea-level and gives a complete view of Bombay. Matheran is another well-known hill station. Elephanta near Bombay is also in this District. Alibag has a magnetic observatory which is devoted to research in magnetic and electric currents which circulate in the interior of the earth.

The historical sea-fort Kolaba, at Alibag, which was the naval capital of Shivaji, has recently been taken over by the Archaeological Department of the Government of India. The Hingulja hill near Revedenda, about nine miles from Alibag, is growing into a holiday resort.

AGRICULTURE, POWER

On the flat lands of the District rice is grown, and the sea-front is fringed by a belt of coconut and arecanut palms. There is large-scale plantation of mango grafts and the produce is exported to Bombay. Lorry loads of melons from Panvel are also sent to Bombay. The teak forests are very valuable and there is a considerable fishing industry. Salt is also produced in large quantities in Pen, Panvel talukas and Uran petas. Nachni, Vari, Udid and Val are varieties of crops which agriculturists produce at their second crop. Tondlies are produced in large quantities and are taken to Bombay.

The District has three Power Houses : The Tata Power Co.'s Power House at Bhira (Patuns), the Tata Hydro-Electric Power Supply Co.'s at Khopoli and the Andhra Valley Power Supply Co.'s at Bhivpuri.

The District is served by the Central Railway which passes through the Karjat Taluka. In addition to steamer ferry there is direct steamer communication between Bombay and the coastal ports during the fair season. The State Transport Motor bus services run through the district.

The chief articles of export are rice, salt, fire-wood, grass, timber, vegetables, fruit and dried fish. The imports consist of teak, grain, piecegoods, oil, potatoes and sugar. At Khopoli a fish centre has been instituted where various kinds of fish are grown.

Uran and Pen are big salt-producing centres. Panvel contains a large ayurvedic pharmacy, the Shri Dhootapapeshwar Panv Ltd.; Mora in Uran Mahal has a big tile factory which manufactures tiles worth two lakhs a year.

OFFICIALS

Collector and District Magistrate, R. V. Deshmukh.

District and Sessions Judge, M. S. Apte.

District Superintendent of Police, M. S. Kasbekar, I.P.S.

MATHERAN (HILL STATION)

Matheran is a hill station and sanitarium, about three hours' journey from Bombay and Poona. Visitors are conveyed up the hill from Neral (Central Rly.) by the Matheran Steam Tramway and Ra Motors.* The town is about 2,500 feet above sea-level, and is a favourite hot weather resort. The maximum and minimum temperatures range between 65 and 80 ordinarily and the average rainfall is 200 inches. The place has an agreeable climate.

Among the amenities of Matheran are several good hotels, a well laid out public park and garden, bandstand, two children's play grounds, electric and telephone services, and several cool and shad picnic places. During the season the band plays almost daily. The hill is a favourite place for honeymoons. There are the cosmopolitan Matheran Club and the Parsi Gymkhana in Matheran, with tennis courts. There are also sanitaria for Parsis, Hindus and Ismail Khojas available for convalescents.

The hill offers excellent opportunities for shikar and a good shot is certain to carry his trophy of spotted skin, even within a short stay.

TRADES & PROFESSIONS

Brightlands Hotel, Matheran.

Bombay View Hotel, vegetarian and non vegetarian food, Matheran

LORD'S
CENTRAL HOTEL
MATHERAN
Centrally Situated ● Commanding Best-view ● Excellent Cuisine
All Rooms with attached Bathrooms & 24 hours running water
Modern Sanitation.
Proprietor's own Supervision
Phone No. 28

Rugby Hotel (Estd. 1881), Matheran.

KOLHAPUR DISTRICT

Headquarters : Kolhapur.

Talukas and Mahals : Karwir, Panhala, Shahuwadi, Radhanagari, Bhudargad, Hatkanangle, Gadhinglaj, Kagal, Shirol, Bavada, Ajara, Chandgad.

The old Kolhapur State in the Deccan was integrated completely with Bombay State on August 1, 1949, and was transformed into a District as in the case of some of the other States merged into Bombay. Kolhapur District as it is now called lies between 17° 10' 45" and 16° 50' 20" North Latitude; and 74° 44' 11" and 73° 43' 16" East Longitude. The District is bounded on the north by the river Warana, on the north-east by the river Krishna, on the east and south by the District of Belgaum, and on the west by the Sahyadri Mountains, which divide it from the Ratnagiri District on the south-west and the west. The undulating country, in which the District is situated, is about 2,000 feet above sea-level in proximity to the eastern slope of the Sahyadris which renders the greater part of the District free from famine. The six large rivers of the District, namely, the Krishna, the Panchaganga, the Warna, the Dudhaganga, the Vedganga and Hiranyakeshi, with their several tributaries flow through and drain the District, facilitating extensive irrigation of lands in several parts of the District. The hills are the main feature of the District. They include the main range of the Sahyadris running north to south for about 100 miles and form the western boundary of the District. They contain some of the finest and most abundant supplies of bauxite in the world situated at places, where an unlimited and very profitable exploitation with the aid of cheap hydro-electric power is a practical proposition.

The total area of the District is 3,188 square miles and the population according to 1951 census is 1,508,060. The language spoken is mostly Marathi, though Kannada is also spoken in a few parts. Kolhapur city, the headquarters, is a great trading centre for jaggery.

The Kolhapur-Miraj railway line* runs from Kolhapur to Miraj and is connected with the Southern Railway line running between Poona and Bangalore. The District is well served by roads and the Poona-Bangalore, the Kolhapur-Ratnagiri, the Kolhapur-Miraj roads in the District are all used for passenger traffic as well as for transport of goods.

The chief agricultural products are jawar, rice, cotton, nagli, bajra, wheat, tobacco, sugarcane and ground-nut.

Besides 3 cotton mills, there are ginning and pressing factories. There are also ginning and powdering mills, groundnut crushing and oil mills, a sugar mill, cinema-film producing companies and soap factories and repair workshops. In one of these workshops, motor gas plants are manufactured.

* Part of Central Railway.

OFFICIALS

Collector and Dist. Magistrate, R. D. Pradhan, I.A.S.

District and Sessions Judge, V. B. Raju, I. C. S.

Dt. Supdt. of Police, R. L. Bhinge, I.P.S.

PRINCE SHIVAJI EDUCATION SOCIETY

Sykes Extension, Kolhapur.

President : V. T. Patil ; *Secretary :* G. G. Jadhav ; *Jt. Secretary :* S. R. Jadhav.

RAJARAM COLLEGE

Kolhapur.

Principal and Professor of History, C. D. Deshpande, M A., Dip Geog. (London).

SHREE MAHARANI TARABAI TEACHERS' COLLEGE

Shahupuri, Kolhapur.

Principal, Dr. S. V. Kelkar, B.Sc., Ph.D.

SHAHAJI LAW COLLEGE

Kolhapur.

The College was started in June 1933 and is under the management of a private society called "The Council of Legal Education, Kolhapur". It is affiliated to the Poona University for the LL.B. Degree course.

Principal.—S. G. Dabholkar, B.A., LL.B., Advocate (O.S.).

SHRI MOUNI VIDYAPEETH

Gargoti, Kolhapur.

The Vidyapeeth was founded on April 1, 1952. It is a research and experimental centre in the field of rural education It has a research wing affiliated to the Poona University, a teaching wing and an extension wing. It conducts the following institutions namely the Govindrao Korgaonkar Institution of Rural Education, a Social Education Training Centre and also a Rural Institute.

Founder-President : V. T. Patil, B A., LL B., M L A. ; *Kulapati :* Acharya S. J. Bhagwat ; *Director :* B. M. Save, M.A., M.Ed ; *Secretary :* J. P. Naik, B.A.

COTTON MILLS

†‡SHRINARAYAN WEAVING MILLS, Looms 92 ; Owners : Sangle Bros., Office on Mill premises. Mills at Ichalkaranji, S.M.C.

‡ **SHRI SHAHU CHHATRAPATI MILLS, Spindles 15,968, Looms 320. Agents : James Finlay & Co., Ltd., Chartered Bank Building, Fort, Bombay. Mills at Shahupuri, Kolhapur.**

‡ VENKATESH RANG TANTU MILLS, Looms 56 ; Owners : Messrs. Y. V. Datar, M. V. Datar, Office on Mill premises. Mills at Ichalkaranji, Kolhapur District.

TRADES & PROFESSIONS

Anil Ramchandra Merwade, Laxmi Building, Shivaji Chowk, Kolhapur.

Arwade, S., & Co., Old Palace Road, Kolhapur.

Ayurvedic Chemical Works, Kapiltirth, Kolhapur.

Babubhai M. Parmar, Laxmipuri, P. O. Kolhapur.

Bhagwat & Co., Kolhapur.

Bharat Confectionery Works, Kolhapur, Shahupuri.

Bharat Steel Works, 1520, Laxmipuri, Kolhapur.

Bhaurao (Alias) Narhar Balwant Shikhare, Shroff Gujri, Kolhapur.

Bhonsle, D. B. & Co., Kolhapur, Shahupuri.

Deccan Electro Works, Laxmipuri, Kolhapur.

Ganesh Brahaspati Chamkale, Kolhapur, Shahupuri.

"Garjana," The leading Marathi Weekly Newspaper and Press, Kolhapur.

Govindrao Abajirao Patil, Kolhapur, Shahupuri.

Hind Agencies (Kolhapur) Ltd., Kolhapur.

Imperial Stores, Shivaji Chowk, Kolhapur

Jamsandekar Brothers, Gujri, Kolhapur.

Jayendra Publicity, Kolhapur.

Jirage & Sultane, Jewellers, Gujri, Kolhapur.

Keshaw Martand Chipade, Gujri, Kolhapur.

Laxman Balkrishna Korgaonkar, Kolhapur, Shahupuri.

Maharashtra Leather Works, Somwar Peth, Kolhapur.

Maharashtra Trading Co., Shivaji Chowk, Kolhapur.

The Malabar Bakery, Kolhapur.

Mohiddinbhai Mallikbhai Maner, Market, Kolhapur.

PAKCO ENGINEERING LTD., Iron Founders and Manufacturers, P.O. Box No. 14, Laxmipuri. Grams : "PAKCO." Phone : 186, Kolhapur (S. Rly.). Managing Agents : Powar, Atigre, Kothawale & Co. Products : Horizontal, Slow Speed, Crude-Oil Engines, from 5 to 22 B.H.P., Ball and Bush Bearing Rollers—Nos. 4 and 8, Horizontal and Vertical Grinding Mills, Ball Bearing Centrifugal Pumps, Under Runner Disc Shellers, Split, Drum and C.I. Pulleys, Foot Valves (Screwed and Flanged), Hand Crushers, Handloom Gear Sets, Stop Valves and Others.

Pandit Anant Jamsandekar, Kolhapur, Shahupuri.

Pioneer Furniture Hire and Sales Co., Kolhapur.

Popular Pharmacy, Kolhapur City.

Ratnakar Industries Ltd., Kolhapur.

Shahu Chitra Mandir (Cinema Theatre), Laxmipuri, Kolhapur.

Shalini Stores, Mahadwar, Kolhapur.

Shantappa Dada Herwade, Kolhapur, Shahupuri.

Shantappa Sakharam Jirage, Gujri, Kolhapur.

Shirgaokar Industries Ltd., Kolhapur, Shahupuri.

Shirgaokar Oil Mills, Kolhapur, Shahupuri.

Shivlal & Brothers, Market, Kolhapur.

Shri Laxmi Aushadhalaya, Old Palace Road, Kolhapur.

Sono Film Syndicate Ltd., Laxmipuri, Kolhapur.

Swastic Stores, Mahadwar Road, Kolhapur.

Vara Tiles, Kolhapur, Shahupuri.

Vijay Soap Factory, Kolhapur, Shahupuri.

† Figures taken from 1956 statement. ‡ Proprietary concern.

KUTCH DISTRICT

Headquarters : Bhuj.

Talukas or Mahals : Bhuj, Mandvi, Mundra, Anjar, Rapar, Bhachau, Nakhatrana, Lakhpat, Abdasa, Khawda and Khadir.

Kutch was merged into Bombay State after the reorganization of States and it now forms a separate district known as Kutch District.

Number of villages : 988. Number of towns : 10.

The District has a land area of 16,724 sq. miles. including 8,000 sq. miles of Rann. The population is 567,606 (1951 census).

The District is bounded on the north and the north-west by Sind (Pakistan); on the east by Banaskantha District, Mehsana District and the northern part of Zalawad District; on the south by Madhya Saurashtra District, Zalawad District and the Gulf of Kutch; and on the west and south-west by the Arabian Sea.

Agriculture : There is a fair proportion of good cultivable land in Kutch, the principal crops being bajra, jawar, wheat, barley, cotton and pulses. The cultivation of ground-nut is also increasing day by day. There were 36 irrigation dams and canal works constructed before the commencement of the First Five Year Plan. These reservoirs had the capacity to irrigate 22,000 acres of one foot delta crops on average storage and 46,000 acres at the tanks filling to full capacity.

Four medium-sized and twenty-two minor irrigation dam and canal works were under construction during the First Five Year Plan period. Most of them are now nearing completion and irrigation from some of them has already been started. Capacity of these works is to irrigate 42,000 acres of one foot delta crops on average storage and 85,000 acres at their filling to full capacity and on full development of irrigation. (These figures include the Rapar-Khokhra spillover works of the First Five Year Plan.)

Total capacity of the irrigation tanks will reach 64,000 acres of one foot delta crops on average storage and 1,31,000 acres at tanks filling to full capacity. The maximum production of food grains will thereby increase by 21,000 tons in average years and 40,000 tons in good years. There will be an increase in fodder crops by 20,000 tons or 32,000 tons respectively on an average and a good year of rainfall and incidental development of irrigation.

Construction on some of the Second Five Year Plan works has already been started. There are three medium and 27 minor works in the plan. Besides these there are also hundred miles of canal extension works. Capacity of irrigation by these reservoirs will increase by 27,000 acres on an average and 55,000 acres in good years.

Roads : Before the beginning of the First FiveYear Plan, the total road mileage in Kutch was 286 of the Water Bound Macadam Type. In the First Five Year Plan, a total amount of Rs. 40·60 lakhs was spent on roads and the road mileage was as follows : 42 miles black-topped, 211 miles water bound macadam, 350 miles murrum surfaced.

The present total road mileage in Kutch is 699 miles comprising 71 miles black-topped, 211 miles water bound macadam and 407 miles murrum surfaced.

The above mileage does not include the roads constructed by and in charge of the District Local Board, Community Project Development Schemes, National Extension Service, Kandla Port Organisation etc. which may increase the total mileage by about 100 miles.

At the end of the Second Five Year Plan the total road mileage will be 1,115 miles comprising 89 miles black-topped, 193 miles water bound macadam and 833 miles murrum surfaced.

During the Second Five Year Plan, a sum of Rs. 78·26 lakhs is proposed to be spent on the roads other than National Highways in Kutch.

As regards the Kandla Ahmedabad National Highway, the lenght passing from Kutch will be 62 miles of which a length of 18 miles and 3 furlongs from Kandla side is ready with bridges. The work on the remaining portion of the National Highway is in progress in different stages. In all an amount of Rs. 95·62 lakhs is to be spent during the Second Five Year Plan on the Kandla Ahmedabad National Highway passing through Kutch.

The District is rich in gypsum, clays and limestone, and has large deposits of lignite, alum, marble and ochres.

The main occupations of the people apart from agriculture and cattle rearing are embroidery and silver work, which are well-known for their beauty.

Kutchis are an enterprising and sea-faring people. Over six lakhs of Kutchis are distributed in principal cities of India and over 10,000 are abroad.

The currency of the District which in the past was reckoned in Kories was demonetised on April 20, 1949 when Indian currency was introduced.

The main items of export are salt, cotton, wool, castor seeds, bones, hides, skins and fish. The main items of import are foodgrains, oil seeds, cloth, condiments, etc.

The land revenue system has been changed from crop sharing to *ad hoc* Vighoti, thus providing a rational basis for Government revenue. The question of the abolition of the Jagirdar system is under the consideration of the Government of India.

New weights and measures under the Bombay Weights and Measures Act, 1932 were introduced in October 1950.

Education : Efforts are being made for the expansion of education in the District. There are 14 High Schools, 13 middle schools, 462 primary schools of which 43 are basic schools, and about 150 unrecognised schools. Besides, there are about 250 literary centres (Gyan Shalas) in very small villages run by the District Local Board. There are two Gram High Schools. There are also an Art School, a Basic Training College for primary teachers, a school for the blind and an agriculture school. There are about 145 adult education centres run by District Local Board, National Service Extension Blocks, Backward Class Department and the Education Department, Kutch. A multi-purpose high school at Bhuj with commercial and technical bias was expected to start in 1953. There is a degree college both for Science and Arts. Primary and secondary education is free in Government schools. There are nine nursery institutions. There are also 23 libraries of which nine are grants-in-aid.

There is one Senior Division N.C.C. Troop along with six Junior Division Troops. There is also one Junior Division N.C.C. Girls Troop.

Health : Free medical relief is available in Kutch. There are 10 hospitals, 22 dispensaries, 6 maternity homes, one T.B. Sanatorium, one T.B. Clinic, one mental hospital and one eye hospital. There are 5 mobile dispensaries which are under the supervision of the Kutch Medical Department and 1 mobile dispensary under the supervision of the Community Project Department at Rapar. All are run by the Government. There are 4 subsidised medical practitioners in rural areas. A T.B. Clinic is run by a private Association at Maska near Mandvi. There are 26 Hospitals and dispensaries under the supervision of the District Local Board. There are also 4 private hospitals, 16 dispensaries, 2 Railway dispensaries and 2 Port dispensaries. A Public Health Department has been opened. A provision of Rs. 10 lakhs has been accepted for public health activities in the District. The scheme consists of anti-malaria measures, distribution of multi-vitamin tablets, opening of milk and fruit centres for children, publicity and propaganda.

Transport : The chief means of communication is by sea. Goods are carried by steamers, country craft and rail, the chief import and export centres being Mandvi, Gandhidham and Kandla. The District has a modern port at Kandla with a natural harbour. The Government of India have decided to develop Kandla, as a major port and the minor ports of Mandvi, Mundra, Jakhau and Koteshwar. The metre gauge railway between Kandla and Deesa was declared open by President Dr. Rajendra Prasad in October 1952, thus linking Kutch with the hinterland of North India and Rajasthan. A new township of Gandhidham has been established near Kandla to resettle the displaced persons from West Pakistan. It has a population of about 30,000.

330 villages and towns are served by the Kutch State Road Transport Corporation on 57 different routes covering a route mileage of 2,883 miles.

Banking : There are branches of the following banks in the District: State Bank of India at Kutch-Mandvi, Bhuj and Gandhidham, Bank of India Ltd. at Bhum and Gandhidham, Punjab National Bank Ltd. at Kutch-Mandvi, Central Bank of India Ltd. at Anjar, Gandhidham Co-operative Bank at Gandhidham, Saurashtra State Co-operative Bank Ltd. at Bhuj, Nalya and Bhachau, Saurashtra Land Mortgage Co-operative Bank Ltd. at Bhuj.

OFFICIALS

Collector, P. B. Mehta, I.A.S.
District Superintendent of Police, K. A. Jhala, I.P.S.
District and Sessions Judge, N. J. Mankad.

Associations

THE CHAMBER OF COMMERCE
BBZ-N-41, Gandhidham.
Kandla Port

ANJAR MERCHANTS ASSOCIATION
Anjar (Kutch).

President : Purshottam Shamjee Varu ; *Secretaries :* Dungarshi Purshottam Thakkar ; Shanti das Raishi Shah.

COTTON MILLS

‡ **SHAH SPINNING AND WEAVING MILLS (formerly Anjar Spinning and Weaving Co. Ltd.), Spindles 5,812 ; Proprietor : P. V. Shah** Office on Mill premises ; Mills at Anjar (Kutch).

TRADES & PROFESSIONS

Abdool Hussein Jafferji Sulmanji, Mandvi (Kutch).
Bhandari Jesraj Rajpal, Mandvi (Kutch).
Chaturbhuj Narsandas, Kutch (Mandvi).
Cutch Oil & Allied Industries (1949) Ltd., Kutch (Mandvi).
Dholakia Brothers, Mandvi (Kutch).
Govindji Valji & Brothers, Mandvi (Kutch).
Gurjar Ice Factory, Mandvi (Kutch).
Hariram Karson, Kutch (Mandvi).
Harji Lakhamsi, Mandvi (Kutch).
Jadavji Dhavji & Co., Mandvi (Kutch).

‡ Proprietary concern.

Jayantilal Revashankar & Co., Mundra (Kutch).
Jeevanji Jafferjee Lokhandwalla & Co., Vora Bazar, Mandvi (Kutch).
Laxmidas Mulji & Brothers, Mandvi (Kutch).
Mehta, Ravilal Bhagvanji, Mandvi (Kutch).
Mehta Soap Factory, Kutch (Mandvi).
Merau Metal Works, Kutch (Mandvi).
Mohamadbhai Mulla Karimji Kathiwala, Bunder Road, Kutch (Mandvi).
Narottam Jamnadas & Co., Mandvi (Kutch).
Puri Brothers, Booksellers, News Agents and Manufacturers' Representatives, Mandvi (Kutch).
Rafaussey & Co., Bunder Road, Mandvi (Kutch).
Sanghvi Venidas Keshavji & Co., Anjar (Kutch)
Shah Bhogilal Shambhulal & Co., Kutch (Mandvi).
Shah Jivraj Poonja & Co., Bunder Road, Kutch (Mandvi).
Shah Pojatlal Hira'al & Co., Mandvi (Kutch).
Shamji Mulji & Co., Patla Bazar, Mandvi (Kutch).
Thakkar Dhanji Virjee & Sons, Kutch (Mandvi)
Thakkar Kalyanji Shivji, Kutch (Mandvi).
Thakkar, Pojatlal Tejpal, Kutch (Mandvi).
Vakil, D. R. & Co., Mundra (Kutch)
Vithaldas Murarji Gandhi, Mandvi (Kutch).

MADHYA SAURASHTRA DISTRICT

Area : 4,660 sq. miles ; *Population* : 1,045,675.
Headquarters : Rajkot.
Talukas :

Rajkot ; Jasdan ; Babra ; Morvi ; Vankaner ; Gondal ; Kankavav-Vadla ; Jetpur ; Dhoraji ; Una-Kandorna ; Kotda-Sangani ; Lodhika ; Maliya ; Paddhari.

Madhya Saurashtra District has four sub-divisions, nine talukas, 5 Mahals and one Peta Mahal.

The area of the land under cultivation is about 18,678 acres. The main industries of Madhya Saurashtra consist of textiles, hosiery, hand-loom, the production of hydrogenated oils, ginning, salt making, engineering, etc.

OFFICIALS

Collector, V. R. Mehta, I.A.S.
District Superintendent of Police, J. K. Sen, I.P.S.
District and Sessions Judge, V. V. Mehta

SOCIETIES

Church of the Immaculate Conception, Rajkot

Nature of Body ; Religious. *Vicar Forane of Saurashtra and Parish Priest of Rajkot*, Rev. Father L. Gadea, S.J.

SAURASHTRA KALA MANDAL
Rajkot.
President, Ravishanker M. Raval.

MORVI CHAMBER OF COMMERCE & INDUSTRIES
Morvi, Madhya Saurashtra District.
Secretary : C. M. Sanghvi

SAURASHTRA MILLOWNERS' ASSOCIATION
Dhrangadhra House, Surendranagar (Madhya Saurashtra)

President : Shantilal Mangaldas ; *Vice President* : Chandulal Vardhman Shah ; *Secretary*, A. P. Shah

COTTON MILLS

RAJKOT SPG. & WVG. MILLS PRIVATE LTD., Spindles 10,872, Looms 235, Agents : Shapoorji Pallonji & Co., (Rajkot) Private Ltd. Office on Mill premises, Mills at Karansinghji Cross Road, Rajkot

SHREE RAMESH COTTON MILLS LTD. Spindle 15,716, Looms 324, Agents : Morvi Industries Ltd. Office on Mill premises, Mills at Morvi

SHRI AMARSINHJI MILLS LTD. Spindles 12,024, Looms 360, Agents : Jayantilal Amratlal & Co. Ltd., Office on Mill premises, Mills at Vankaner

TRADES & PROFESSIONS

Abdulally Bolalbhai & Sons, Rajkot.
Grand Motor Works & Co. Gondal Road, Rajkot
JAI HIND PROCESS WORKS, Dharmendra Road, Rajkot.
Kothari Industries Ltd., Post Box No. 87, Rajkot

MEHSANA DISTRICT

Headquarters : Mehsana.
Talukas and Mahals : Patan, Chanasma, Sidhpur, Mehsana, Kheralu, Visnagar, Kalol, Vijapur, Kadi, Radhanpur, Sami, Harij, Santalpur.
The area of the District is 4,125 sq. miles and the population 1,471,662.

OFFICIALS

Collector and District Magistrate, M. S. Palnitkar, I.A.S.
District and Sessions Judge, V. R. Shah
District Superintendent of Police, Capt. S. S. Sahni, I.P.S.

COLLEGES

M. N. College, Visnagar (*Arts and Science*).

SOCIETIES

SHRI L. MAHARSHI DAYANAND SARASWATI KELAVANI MANDAL
For G. D. D. Kanya Vidyalaya, Station Road, Visnagar (Dist. Mehsana).
Educational and cultural activities
President, Rai Saheb Girdharlal Dayaram Mehta ; *Hon. Secretaries* : Harendrarai M. Yagnik, Vishnuprasad G. Mehta ; *Hon. Treasurer* : Chimanlal Somabhai Mangaldas.

ISABGOL MANUFACTURERS' ASSOCIATION
Bindu Sarowar Road.
Secretary : G. Kishanalugh, T. Lallubhai.

NORTH GUJARAT BIDI AND TOBACCO MERCHANTS' ASSOCIATION
Hinglachar.
President, N. N. Patel ; *Secretary*, R. N. Patel.

PLACES OF PILGRIMAGE

Taranga Hill, Pansar, Sankeshwar, Kamboi and Bhoini (*For Jains*) ; Bechcharaji and Sidhpur (*For Hindus*) ; Delmal (*For S. Boras*) ; Una (*For Muslims*).

MILLS

† BHARAT VIJAYA MILLS LTD. No. 1 (Formerly Kalol Kapadia Spg. & Wvg. Mills Co. Ltd.), Spindles 10,692, Looms 36 ; Directors-in-charge, Natvarlal Bhikabhai Patel and Bhupendra Bhikabhai Patel. Office on Mill premises. Mills at Kalol (North Gujarat).

†BHARAT VIJAYA MILLS LTD. No. 2 (Formerly Chhotalal Mills Ltd.) Spindles 20,468, Looms 408, Directors-in-charge, Natvarlal Bhikabhai Patel and Bhupendra Bhikabhai Patel. Office on Mill premises. Mills at Station Road, Kalol.

MAHENDRA MILLS LTD., Spindles 26,940 ; Agents : J. R. Patel & Sons Private Ltd., Mahendra Bhuvan, Navrangpura, Ahmedabad 9. Mills at Kalol (N. Gujarat).

NAVJIVAN MILLS PRIVATE LTD. (Formerly Kalol Swadeshi Mills Co. Ltd.), Spindles 25,180, Looms 511 ; Agents, M. J. & Co. Private Ltd. Office on Mill premises. Mills at Kalol, North Gujarat.

†‡ SHREE DURGA COTTON MILLS (Formerly New Chhotalal Mills, Ltd.), Spindles 20,452, Looms 417 ; Proprietors : Durgaprasad Private Ltd., Office on Mill premises. Mills at Kadi.

†SHREE SAYAJI JUBILEE COTTON AND JUTE MILLS CO. LTD., Spindles 15,964, Looms 320 ; Agents : Prahladji Sevakram & Co., Private Ltd., Office on Mill premises. Mills Near Railway Station, Sidhpur (R. M. Rly.).

SIDHPUR MILLS CO., LTD., Spindles 27,760, Looms 406 ; Agents : Maganlal Prabhudas and Co., Office on Mill premises. Mills at Bindu Sarovar Road, Sidhpur.

‡ Proprietary concern.

† Figures taken from 1956 statement.

NAGPUR DISTRICT

Headquarters : Nagpur.

Talukas : Nagpur, Ramtek, Katol, Saoner, Umrer.

Nagpur District lies between North Latitude 20° 35′ and 21° 44′ and East Longitude, 78° 15′ and 79° 40′.

It is bounded on the north by Chhindwara District, on the east by Bhandara District, on the south and south-east by Chanda District and on the south-west by Wardha District. The area of the District is 3,834 sq. miles and the population 1,234,556. The language spoken is Marathi.

PHYSICAL FEATURES

The greater part of the Nagpur District is an undulating plain, but it is traversed by low hill ranges. The hills attain no great altitude, the highest peaks not exceeding 2,000 feet, but vary greatly in appearance, being in places extremely picturesque and clothed with forest, while elsewhere they are covered by loose stones and brushwood, or are wholly bare and arid. The Wardha and Wainganga rivers flow along part of the western and eastern borders respectively, and the drainage of the District is divided between them. The centre is drained by the Pench and Kanhan, which flowing south through the Satpura Hills, unite just above Kamptee where they are also joined by the Kolar. The richest part of the District is the western half of the Katol Tehsil. It possesses a soil profusely fertile and teems with the richest garden cultivation. From Pilkapur Hills in the Katol Tehsil the plains extend to the eastern border. Its surface is scarcely ever level, but it is closely cultivated, abounds in mango groves and trees of all sorts, and towards the east is studded with small tanks which form a feature of the landscape. The elevation of the plain country is from 900 to 1,000 feet above sea-level.

The forests are mainly situated in a large block on the Satpura Hills to the north-east, while isolated patches are dotted on the hills, extending along the south-western border. The forest growth varies with the nature of the soil, teak on good well-drained slopes, salai on the steep hillsides and ridges, and satinwood on the sandy levels. In the open country mango, tamarind and bastard date-palms are common.

The annual rainfall averages about 45 inches, but less is received in the west than in the east of the District. Complete failure of the rain is rare, but its distribution is capricious especially towards the end of the monsoon when the fate of the harvest is in the balance.

COMMUNICATIONS, ECONOMY

Considering the advanced state of its development, the District is not very well supplied with railways, and there is scope for the construction of feeder lines to serve the more populous outlying tracts. The Central Railway line from Bombay terminates at Nagpur City. From here the South-Eastern Railway runs east to Calcutta. There are two other lines which go north-west and south-east respectively from Nagpur City. The most important trade routes are the roads leading north-west from Nagpur to Chhindwara and Katol, the eastern road to Bhandara and the north-eastern to Seoni. Then come the southern roads to Umrer and Chanda. There is some traffic along the road to Amravati. Nagpur also lies at the place where the north-south and east-west airways cross each other.

Cotton and jawar are the chief produce of the District which is also famous for its oranges. During the cold weather wagonloads of oranges are exported daily to Bombay and other parts of India.

The District is not badly off in the matter of mineral deposits. There are some manganese mines and limestone quarries in the District and a coal-mine at Kamptee.

There are five textile mills in Nagpur City, a number of oil mills, a pottery concern, glass works, saw mills, a rubber factory, a large fruit canning industry and a large number of handloom factories. Nagpur saris are in great demand in all parts of the country.

OFFICIALS

Collector, R. N. Pendharkar, I.A.S.

District Superintendent of Police, S. V. Tankhiwala, I.P.S.

Dist. Supdt. of Police (Rural), S. G. Sahasrabhojane, I.P.S.

District and Sessions Judge, T. P. Ghogale.

NAGPUR MUNICIPAL CORPORATION

Mayor : Madangopal Agarwal.

Deputy Mayor : Appaji Domaji Punje.

Members

Bhaichandra Anandrao Udhoji (*Ward No.* 1), Govind Gopal Bhamburkar (*Ward No.* 2); Gayanarayan Indranarayan Trivedi (*Ward No.* 3) Rammurty Shyamdayal Mishra (*Ward No.* 4); Narayan Tanbaji Murkute (*Ward No.* 5); Vithal Supaji Nagarare (*Ward No.* 6); Kisanlal Narayan (*Ward No.* 7); Akant Piraji Matey (*Ward No.* 8); Rajkumar Rajaram Laxmanrao Bhonsale (*Ward No.* 9); Vasant Ramji Dhawale (*Ward No.* 10); Onkar Vithalrao Deshmukh (*Ward No.* 11); Balwantrao Ganpatrao Dhobale (*Ward No.* 12); Pandurang Tukaram Kadoo (*Ward No.* 13); Devidas Wasudeo Duragkar (*Ward No.* 14); Motiram Budhoo Panchbhai (*Ward No.* 15); Daulat Patel Chhotelal Yadao (*Ward No.* 16); Gayadin Ramdin (*Ward No.* 17); Tulsiram Raghoba Nakshane (*Ward No.* 18), Tukaram Rajaram Joshi (*Ward No.* 19); Harichandra Kisan Pawanikar (*Ward No.* 20); Mahadeo Tanbaji Pinjarkar (*Ward No.* 21); Laxman Somaji Barbate (*Ward No.* 22); Govindrao Narayanji Ghavaghawe (*Ward No.* 23); Mahadeo Mango Kumbhare (*Ward No.* 24); Mahadeo Kondaji Patharabe (*Ward No.* 25); Dinanath Prahlad Dhapulkar (*Ward No.* 26); Dhondba Dashrath Hedaoo (*Ward No.* 27); Mohamad Yakub Haji Khan Mohammad (*Ward No.* 28); Juned Alam Mohamad Zahoor (*Ward No.* 29); Wasudeo Saidu Dongre (*Ward No.* 30); Dewaji Warloo Bhagat (*Ward No.* 31); Ahamadkhan Lalkhan (*Ward No.* 32); Jagoba Sakharam Ramteke (*Ward No.* 33); Rama Tukaram Rodage (*Ward No.* 34); Smt. K. D. Cassad (*Ward No.* 35); Dharamdas Paikuji Meshram (*Ward No.* 36); Balkrishna Rajanna Nilamwar (*Ward No.* 37); Pannalal Kanhayalal Deshraj (*Ward No.* 38); Pandurang Mohanji Gayadhane (*Ward No.* 39); Sadanand Jumman Fulzele (*Ward No.* 40); Mahadeo Nathoo Bhorkar (*Ward No.* 41); Khushal Morbaji Gudadhe (*Ward No.* 42).

Elected by Textile Union Constituency : Bhayya Marotrao.

Elected by Non-Textile Union Constituency : Janardhan Mahadeo Mool.

Appointed (5) : J. P. Gimi (*Nagpur University*); Ramrao Narayanrao Balbudhe (*Janapad-Sabha, Nagpur*); N. R. Datta Gupta (*Central Railway*); J. R. Panthaki (*Millowners' Association*); Madangopal Agarwal (*Nagpur Improvement Trust*).

Selected (6) : Bholasingh Vishwanath Nayak; Rikhabchand Kalyanmal Sharma; Gulabrao Baliram Baral; Narayanrao Ganpatrao Naik; Appaji Domaji Punje; Balkrishna Narayan Saoji.

STANDING COMMITTEE

Chairman : Rikhabchandji Sharma; *Members :* Pannalalji Deshraj; Gulabrao Baral; Kishanlalji Banode; Rammurty Mishra; Mahadeorao Kumbhare; Tulsiramji Nakshane; Narayanrao Naik; Khushalrao Gudadhe; J. B. Panthaki.

Principal Officers

Chief Executive Officer, D. J. Madan, I.A.S.

Dy. Chief Executive Officer, S. N. Chatterjee, B.Sc.

Municipal Secretary, G. Y. Chitnavis, B.Sc.

City Engineer, Vithal Singh, B.E.

Health Officer, Dr. T. K. Kewalramani.

Chief Accounts and Finance Officer, M. V. Hattangdi.

Executive Engineer (*Water Works*), S. S. Sathe.

P.A. to Chief Executive Officer, A. N. Joshi, B.A.C.

Income for the year 1956-57 Rs. 1,54,44,078

Expenditure „ „ Rs. 1,62,01,630

Nagpur University (1956-57)

Year of Foundation : 1923.

Chancellor, Sri Prakasa, Governor of Bombay.

Vice-Chancellor, Lt.-Col. K. T. Mangalmurti, I.C.S. (Retd.).

Treasurer, R. M. Hajarnavis.

Registrar, Dr. M. S. Modak.

Deputy Registrar, V. Shankaran; *Asstt Registrars* M. R. Thakur, M. S. Narayanan; *Librarian* P. S. Phadke; *Hon. Consulting Engineer* V. R. Paranjpe.

Teaching, affiliating; University Colleges 3 University Teaching and Research departments 8, affiliated Colleges 25, Students : Teaching departments : 369 (Men 334 Women 35); University Colleges : 906 (Men 815 Women 91); affiliated Colleges : 12,213 (Men 10,607; Women 1,596).

Budget Estimates 1956-57 :

Central Government Grants : Rs. 7,28,0-13-0

State Government Grants : Rs. 7,85,344-0-0

University Grants Commission : Rs. 2,70,72[illegible]

Total income : Rs. 34,30,636-3-9.

Total expenditure : Rs. 35,85,359-15-8

University Teaching Departments :

Biochemistry, Geology, Political Science, Public Administration and Local Self-Government, Research Department in Ayurveda, Ancient Indian History and Culture, Pharmacy, Library Science.

University Colleges :

Laxminarayan Institute of Technology, Nagpur

University College of Law, Nagpur.

University Training College, Nagpur.

Affiliated :

College of Agriculture, Nagpur.

College of Science, Nagpur.

Dhanwate National College, Nagpur.

G. S. College of Commerce, Wardha.

G. S. College of Economics and Commerce, Nagpur.

G. S. College of Science and Arts, Khamgaon

Government Diploma Training Institute for Men, Amravati.

Government Diploma Training Institute for Women, Amravati.

Government Polytechnic and Engineering College, Nagpur.

Hislop College, Nagpur.

Medical College, Nagpur.

Nagpur Mahavidyalaya, Nagpur.

Rajasthan Aryan College, Washim.
S. B. City College, Nagpur.
Shri Shivaji College, Amravati.
Sitabai Arts College, Akola.
Vidarbha Mahavidyalaya, Amravati.
Lady Amritbai Daga College for Women, Nagpur.
Government Polytechnic, Amravati.
Post-Graduate Basic Training College, Amravati.
College of Agriculture, Akola.
Amolakchand Mahavidyalaya, Yeotmal.
Government B.T. College, Akola.
St. Francis de Sale's College, Nagpur.
The Arts College, Buldana.

Associations and Institutions

C.P. AND BERAR BLIND RELIEF ASSOCIATION BLIND BOYS' INSTITUTE

President : K. T. Mangalmurti ; *General Secretary :* R. P. Sagdeo, M.A., LL.B. ; *Treasurer :* D. S. Panditji, B.A., LL.B.

CENTRAL EMERGENCY TRAINING INSTITUTE
Nagpur.

The Institute trains people in the techniques of emergency relief operations. It has been started by the Government of India and is meant to have a trained set of people who will minister to the needs of men and women in any emergency. Nearly 250 persons nominated by the various States have already been trained. The six-week course helps the persons to learn about rescue and fire-fighting work, first-aid, home nursing, public health and welfare.

THE CHRISTIAN MEDICAL ASSOCIATION OF INDIA

Office : Christian Council Lodge, Nagpur.

Seeks to be the means of mutual help among Christian Doctors in carrying on and securing greater efficiency in their work. This is carried on through biennial general conferences, annual conferences in the Hill Stations of Kodaikanal, Ootacamund and the Nilgiris, and in regional conferences held from time to time in various parts of the country and also through the Association's bimonthly magazine and through the visits and counselling of its two full-time Secretaries. It has assisted in the development of the Christian Medical Colleges at Vellore and Ludhiana, and through its Nurses Auxiliary has played a large part in the development of Nursing Education.

Its membership is open to Christian Doctors with registerable qualifications regardless of their field of service.

President : E. S. Chellappa, M.B.B.S., F.R.C.S.
Vice-President : P. D. Sukhnandan, F.C.P.S
Editor : J. C. David, M.B., Ph.D.
Secretary-Treasurer :—E. W. Wilder, M.D., Christian Council Lodge, Nagpur 1.
Secretary of Preventive Medicine :—Dr. Claire P. Thomson, M.R.C.S., L.R.C.P., D.T.M. & H.

LAXMINARAYAN INSTITUTE OF TECHNOLOGY

Nagpur University, Amravati Road, Nagpur 1.

Director-in-charge : Prof. Dr. P. S. Mene, B.Sc. (Hons.), Ph.D. (London), D.I.C., M.I.I. Chem E., M.S. ; *Professor in Applied Chemistry (Organic) :* Prof. Dr. T. N. Mehta, B.A., B.Sc., Ph.D. (London), D.I.C. ; *Reader in Engineering Workshop Superintendent :* V. V. Sardesai, B.E. (Mech.), B.E. (Elect.), A.M.I.E.

MAHAVIDARBHA CHAMBER OF COMMERCE & INDUSTRIES LTD.

Vohuman Lodge, Byramji Town, Nagpur 1.

President : M. C. Shah, B.A. ; *Vice-President :* P. C. Mevawalla, B.A., C.A.I.I.B. ; *Secretary :* J. B. Toddywalla, C.A. ; *Asstt. Secretary :* R. Ranganathan.

MENTAL HOSPITAL
Nagpur.

Medical Superintendent : Dr. G. D. Pimpalkar, M.B.B.S. ; *Deputy Superintendent :* Dr. B. L. Chandorkar, M.B.B.S. ; *Nursing Superintendent :* Shrimati Lilabai Rajurkar.

MINERAL INDUSTRY ASSOCIATION
5, Residency Road, Nagpur.

Chairman : J. B. Thaker ; *Vice-Chairman :* P. K. Bajpaie ; *Hon. Secretary :* Tarachand Goenka.

MURE MEMORIAL HOSPITAL
Maharaj Bagh Road, Sitabuldi, Nagpur.

Superintendent : Dr. L. S. Augustine ; *Medical Officer :* Dr. K. V. Waghmare ; *Nursing Superintendent :* Miss Sammon.

NAG-VIDARBHA CHAMBER OF COMMERCE
Surya Vilas, Temple Road, Civil Lines, Post Box No. 33, Nagpur.

President : Seth Duryaprasad Saraf.
Senior Vice-President : Hanuman Prasad Nevatia
Junior Vice-President : J. B. Thakar.
Hon. Secretary : R. N. Jha.

THE NAGPUR CHAMBER OF COMMERCE LTD.
Cotton Market, Nagpur 2.

President : Sohanlal Agrawal ; *Vice-President :* Ratanlal Dhariwal ; *Secretary .* Vasantlal Shah.

THE NAGPUR ORANGE GROWERS' CO-OPERATIVE ASSOCIATION LTD
Vidarbha Co-op. Bank Building, Tilak Statue, Nagpur
Trade and Horticultural Service.
President : R. V. Kalikar, M.A.
Vice-President : W. T. Wasu.
Secretary : S. P. Pimplikar, B.Ag.

THE NAGPUR SHIKSHAN MANDAL'S RADIO INSTITUTE
Mahal, Nagpur

President : K. T. Mangalmurti, I.C.S. (Retd.), Vice-Chancellor, Nagpur University; *Secretary :* R. V. Kalikar, M.A. ; *Principal :* K. G. Tambane, B.Sc., LL.B.

NURSES AUXILIARY OF THE CHRISTIAN MEDICAL ASSOCIATION OF INDIA

Office : Christian Council Lodge, Nagpur.

An organisation with similar aims for Nurses as those of the Christian Medical Association for Doctors is open to all Christian Nurses with registerable qualifications. Its bi-monthly paper *Nursing News*, is also included in the C.M.A.I. Journal.

President : Miss Aley Mathews.
Vice-Presidents : Miss S. Perera, S. Choudharie.
Secretary-Treasurer :—Miss Alice Clark, Christian Council Lodge, Nagpur 1.

ROTARY CLUB
Mount Hotel, Nagpur.

President : Rtn. K. K. Mankeshwar ; *Secretary :* Rtn. J. D. Irani.

SANGAM KALA MANDIR
Sangameshwar Devasthan, Sitabuldi, Nagpur.

A technical institution. Imparts knowledge in tailoring, embroidery and fancy work to ladies only.

President : Shrimant Tarabai Buti ; *Vice-President :* Smt. Maltibai Gharpure ; *Secretary and Chief Instructress :* Smt. Nirmala Joglekar.

SHRI SHRADHANAND ANATHALAYA
Shradhanand Peth, Nagpur.

President : Dr. Panjabrao Deshmukh ; *Vice-President :* Dr. M. B. Niyogi ; *Secretary :* Prof. G. M. Somvanshi.

THE TEXTILE MILLS ASSOCIATION
Subedhar's Bungalow, Road B, Street 4, P.O. No. 3, Dhantoli, Nagpur.

Chairman : R. V. Deshmukh.
Dy. Chairman : Hanuman Prasad Nivatia.
Secretary : K. Srinivasan.

VIDARBHA SAHITYA SANGH
North Ambazari Road, Nagpur 1.

Trustees : Loknayak M. S. Aney, Lt. Col. K. T. Mangalmurti ; *President :* P. D. Dhawale ; *General Secretary :* Prof. S. G. Kashikar.

VIDARBHA SAMSHODHANA MANDAL (VIDARBHA RESEARCH SOCIETY)
Vidarbha Sahitya Mandir, North Ambazari Road, Nagpur 1.

President : Dr. M. B. Niyogi, M.A., LL.M., LL.D. ; *Chairman, Executive Committee :* Mahamahopadhyaya Prof. V. V. Mirashi, M.A. ; *Secretary :* D. G. Landge, B.A., LL.B.

YOUTH HOSTELS ASSOCIATION OF INDIA
Nagpur Regional Committee, Street No. 4, Dhantoli, Nagpur.

President : K. T. Mangalmurti ; *Vice-President :* M. D. Dhanavate ; *Secretary :* G. T. Parande.

OTHER ASSOCIATIONS

Nagpur Rotary Club, Mount Hotel, Nagpur.
Madhya Pradesh Hindi Sahitya Sammelan, Mor Bhavan, Nagpur
M. P. Itihas Samshidhan Mandal, Ambazari Road, Nagpur.
Kridamandal, Umrer Road, Nagpur.
All India Women's Conference, Ambazari Road, Nagpur.
Social Welfare Council, Dhantoli, Nagpur.
Matru Seva Sangh, Sitabaldi, Nagpur.
South Indian Association, Modi Lane, Sitabaldi, Nagpur.
Rashtriya Swayamsevak Sangh, Reshimbag, Nagpur.
Sevasadan, North Ambazari Road, Nagpur
Nagpur Natya Mandal, Ambazari Road, Nagpur
Rashtra Bhasha Prachar Sangh, Dhantoli, Nagpur.
Ramkrishna Ashram, Dhantoli, Nagpur.

COTTON MILLS

CENTRAL INDIA SPINING & WEAVING & MANUFACTURING CO. LTD. (EMPRESS MILLS). Spindles 1,15,188. Looms 2,062 ; Mg. Agents : Tata Industries Private Ltd., Bombay House, 24, Bruce Street, Fort, Bombay Mills at Nagpur.

MODEL MILLS, NAGPUR LTD. Spindles 52,408, Looms 930 Managing Director ; Kushalchand B. Daga, Ilaco House, Sir P. M. Road, Fort, Bombay. Mills at Nagpur.

NANDED DISTRICT

Headquarters : Nanded.

Talukas and Mahals : Deglur, Kandhar, Billoli, Nanded, Hadgaon, Bhokar (Mahal), Mukhed (Mahal), Mudhol, Kinwat, Rajura.

Area : 4,726 sq. miles ; Pop. 958,888.

Two Talukas Kinwat and Rajura are separated from the main body of the District by Yeotmal District.

A range of hills known as Bhog or Thanavari runs through the District from north-west to south-east. The most important river is the Godavari which passes through the District from west to east. Smaller rivers are the Ashna, the Siddha, the Lendi and the Manar. The commonest trees are teak, mahua, tamarind and mango. Large game is sometimes found in Hadgaon, *e.g.*, tigers, leopards, bears and wild dogs.

The District is on the whole dry and healthy. The annual temperature varies between 100° and 60°. The average rainfall is about 35 inches.

There are tombs of Muslim saints and Nanded has the Gurudwara of the Hyderabad Sikhs where Guru Govind is buried.

About 65 per cent of the population is dependent on the land. Practically the whole District is composed of black cotton soil. The rabi crops consist of jawar, gram, wheat and oilseeds. The Kharif crop consists of bajra, linseed, cotton and maize. The staple food crop is jawar and the main cash crop cotton. The principal source of irrigation is wells. The forest area is limited.

Good basalt, granite and limestone are extensively found.

The chief exports are cotton, linseed oils, jawar and cloth, and the chief imports rice, sugar, kerosene and cotton and woollen goods.

The railway connecting Hyderabad and Manmad passes through Nanded.

OFFICIALS

Collector, Dr. M. N. Desai, I.A.S.
District Superintendent of Police, Trimbak Rao, I.P.S.
District and Sessions Judge, Syed Ka'ander Husain.

OSMANSHAHI MILLS LTD., Spindles 37,788, Looms 902 ; Managed by Board of Directors, 155, Gunfoundry Road, Hyderabad Mills at Nanded.

NASIK DISTRICT

Headquarters : Nasik.
Talukas and Mahals : Kalwan, Dindori, Niphad, Yeola, Igatpuri, Nandgaon, Nasik, Sinnar, Baglan, Malegaon, Chandor, Peint, Surgana.

Nasik District is a historic place in Bombay State and the city one of the oldest in the Deccan and a place of pilgrimage. Surgana State formerly on the borders of Nasik District with an area of 134 sq. miles is now merged with Bombay State and is within the Nasik Collectorate. The District is bounded on the north by East and West Khandesh, on the east by East Khandesh and Aurangabad districts, on the south by Ahmednagar, and on the west by Thana and Surat Districts. The area of the District is 6,035 sq. miles and the population according to the 1951 census 1,429,916. The language spoken is Marathi.

With the exception of a few villages in the west the whole District lies on a tableland at an elevation of 1,300 to 2,100 feet above sea-level.

Nasik Town lies on the Bombay-Nagpur branch of the Central Railway and is 117 miles from Bombay. Barring a few, all the Taluk centres are connected by the State Transport Bus Service. There is also regular bus service from Nasik to Ahmednagar and Poona.

The main food crops are rice, wheat and bajra. Nagli is used as food by the poor.

OFFICIALS

Collector and District Magistrate, A. W. Khan, I.A.S.
District and Sessions Judge, L. M. Paranjpe
District Superintendent of Police, S. G. Gokhale, I.P.S.

EDUCATIONAL INSTITUTIONS

HANSRAJ PRAGJI THACKERSEY COLLEGE, NASIK

(Conducted by the Gokhale Education Society, Bombay.)

Principal.—S. G. Puranik, M.A.

BHONSALE MILITARY SCHOOL, NASIK

Residential in nature, recognised by the Education department and S.S.C. Examination Board, Bombay State. Prepares boys for S.S.C. examination. Standard VII to XI. Annual fee per boy including boarding, lodging, training, Rs. 960. Horse riding and rifle shooting a special feature. Also conducts physical and military training class for boys who cannot join regular school in summer and for girls and ladies in winter.

Chairman of the Governing Body : Seth Motilal Manekchand.
General Secretary : M. J. Dikshit, M.A., B.Sc.
Principal : H. K. Mokashi, M.A., B.T., M.Ed.

BARNES HIGH SCHOOL

Deolali (Central Rly.).

This Anglican boarding and day school admits children of all communities though it is primarily maintained for European and Anglo-Indian boys and girls whose parents live in Bombay State or are employed on the Central Railway or Western Railway. Such children are eligible for reduced fees provided they are Anglicans. There are separate departments for boys and girls over 10 years and a preparatory house for those under 10.

The school teaches up to the Cambridge School Leaving Certificate examination following the syllabus of the code for Anglo-Indian Schools of Bombay State. Great attention is paid to all games, including swimming, and Scouting is encouraged.

Headmaster : W. R. Coles, B.A. Hons. (Lond.).

OTHER INSTITUTIONS

Government Training College for Women, Nasik.
Boys' Town (formerly Parsi High School), Nasik.
Government Girls' High School, Nasik.
National High School, Nasik.
Maratha High School, Nasik.
New High School, Nasik.
Ramrikhdas Parasharam Puria Vidyalaya, Panchvati.
Pethe High School, Nasik.
Police Training School, Nasik.
Rungtha High School, Nasik.
Sarvajanik Wachanalaya (General Library), Nasik.
Security Printing Press, Nasik Road.
Convalescent Home (H. M. Phipson), Nasik Road.
Pushpavati Rungtha Kanya Vidyalaya (attached to Rungtha High School), Nasik.
N. E. I. Girls' High School, Nasik (attached to New High School).
Purshottam High School, Nasik Road.
Deolali Cantonment High School, Deolali.
Yashwant Vijayam Mandir, Nasik.
Niranjan Durlabhji Khetain Bal-Mandir, Panchvati
Anath Vidhyarthi Griha, Panchvati.
Maharshi Shinde Training College, Nasik.
Wireless School, Agra Road, Nasik.
Radionic Institute, Main Road, Nasik.
Anath Mahila Ashram, Tilabhandeshwar Lane, Nasik.
Beggars' Home, Gaige Maharaja Dharmasha'a, Nasik.
Kushta Dhama and Shishu Vihar, Panchavati, Nasik. Institute taking care of children of lepers.
Lokahitavadi Mandal, Arya Vaibhav, Nasik Institution devoted to cultural activities.
Nasik District Chamber of Commerce, 891, Ravivar Peth, Nasik
Nasik Saraf Association, Saraf Bazar, Nasik.
Red Cross Society, Ambedkar Colony, Nasik.
Hansraj Pragji Thackersy College (Arts & Science), Nasik
B.Y.K. College of Commerce, Nasik.
Bhonsle Military College, Nasik
Government of India Printing Press, Gandhi Nagar.
Hindi Madhyamik Vidyalaya, Gandhi Nagar.
Adarsha Montessory School, Nasik.
Dandekar Tailoring College, Nasik
Sadhana Typewriting School, Nasik.
Government Technical-cum-Commercial School Nasik
Hindi Vidyalaya (attached to M. Rashtra Bhasha, Poona)
Madhyamik Adhyapan Vidyalaya (attached to New High School, Nasik).
Hindi Shikshak Sanad (Junior & Senior), (attached to New High School, Nasik)
Khadi Gramodyog Vidyalaya, Post Trimbak Vidyamandir Nasik

DR. K. N. BAHADURJI MEMORIAL SANATORIUM FOR PARSIS

Lam Road, Deolali

Trustees : Dr. M. B. Mody, M.D. ; Maneck P. Mistry, F.S.A.A., F.C.A.
Jt. Hon. Secretary : Erach D. Engineer.

K. G. HINDU SANATORIUM

Nasik Road.

This sanatorium consists of four furnished and four unfurnished bungalows, one reading room and Rajoo Balooji Charitable Dispensary. The monthly charges for the bungalows are Rs. 52 and Rs. 42 respectively. Applicants should apply to the Managing Trustee Kalewar Mansion, Babulnath Road, Bombay 7.

HOSPITALS

Civil Hospital, Nasik.
Hospital for Lepers, Panchvati, Nasik.
Z. B. M. M. Hospital, Sharanpur, Nasik.
Sir D. M. Petit Hospital for Animals, Nasik.

HOTELS

15th August Gujrat Lodge, Nasik.
Bhagwantrao Lodge, Main Road, Nasik (Vegetarian).
Badshahi Gujrat Lodge, Nasik.
Bombay Gujrat Lodge, Nasik.
Coronation Hotel, Deolali.
Edward Hotel, Deolali.
Grand Hotel, Deolali.
Hotel Greens, Nasik.
Hotel Liberty, Nasik.
Masde Hotel, Nasik.
Meher Restaurant, Nasik.
Royal Hotel, Deolali.
Rugby Hotel, Deolali.
Nasik Bakery and Restaurant, Agra Road, Nasik.

OSMANABAD DISTRICT

Headquarters : Osmanabad.

Talukas and Mahals : Latur, Tuljapur, Osmanabad, Kalam, Omerga, Awasa, Bhoom (Mahal), Parendah, Ahmadpur, Nilanga, Udgir.

Area : 5,484 sq. miles ; Pop. : 1,210,041.

The District is divided into two parts by a range of hills which runs from the north-west to roughly the south-east : a plateau to the north-east and east and lowlands to the south, west and south-west.

The most important river is the Manjra which runs along the northern boundary part of the way and then cuts across the District in a south-easterly direction. Smaller rivers are the Sina, the Kheri, the Tirna, and the Borna. There is not much forest in the District. The trees consist of babul, nim and mango. There is not much big game. The climate is not uniform. Generally speaking the climate of the plateau is pleasanter than that of the plain. The average annual rainfall is about 32 inches.

Six places of archaeological interest are the fort of Naldrug, the Jumma Masjid in Awasa Taluka, the caves around the town of Osmanabad, the two caves at Hasangaon, the old fortress at Parendah. Tuljapur is a place of Hindu pilgrimage.

The soil is largely black cotton interspersed with red, white or sandy soils. The black soil produces jawar, gram, wheat and cotton. In the masab soils are grown yellow jawar, bajra and pulses. The kharat soils are used for garden produce.

The staple food grain is jawar, wheat, rice and bajra are next in importance. Cotton is grown everywhere, while sugarcane is sometimes grown with well irrigation. Wells are the main source of irrigation.

There are no minerals except granite and basaltic rock. Neither is there any important industry. The chief exports are jawar, other cereals and pulses, cotton, oilseeds, cattle, sheep, tobacco and leather. The principal imports are salt, sugar, kerosene and cloth.

A branch line of the Central Railway connects Latur with Kurudwadi.

OFFICIALS

Collector, K. J. Save, I.A.S.
District Superintendent of Police, M. A. Kamble, I.P.S.
District and Sessions Judge, Maruti Rao Joshi.

PANCH MAHALS DISTRICT

Headquarters : Godhra.

Talukas and Mahals : Godhra, Dohad, Kalol, Halol, Jhalod, Deogadh-Baria, Limkheda, Santrampur, Lunavada, Shehera, Jambughoda.

The Panch Mahals District lies between 22°15′ and 23 11′ North Latitude and 73°22′ and 74°29′ East Longitude. It is divided into three Sub-Divisions namely, Godhra Sub-Division comprising Godhra, Kalol, Halol and Jambughoda talukas, Lunavada Sub-Division comprising Lunavada, Shehera and Santrampur talukas, and Dohad-Devgadh-Baria Sub-Division comprising Devgadh-Baria, Limkheda, Dohad and Jhalod talukas with headquarters of the District Deputy Collectors at Godhra, Lunavada and Devgadh-Baria.

The area of the District after the merger is 3,500 sq miles and the population according to 1951 census is 1,148,432. The language spoken is Gujarati.

Agricultural produce includes cereals of all sorts, pulses, oil-seeds including ground-nuts, Til and Mahuwa seeds, Kanji seeds, cotton and tobacco. Larger areas are now being covered into fruit growing orchards and vegetation. Acreage under foodgrains : about 950,000, under pulses : about 143,000 ; Groundnuts : about 110,200.

The District has a forest area (inclusive of that of the merged States) of 1,10,085 sq. miles which produces timber such as country teak-wood, Mahuwa, Sadad, Kher and Dhavda. Timber, Mhowra flowers and timru leaves for bidi-manufacture and hay fodder are a principal produce of the forests. Other minor produce is bamboos, gum, lac, kotri-leaves, Khakhra-leaves, Rochea grass used for extracting scents, ghat-bor, Kananj-seed, Amla, honey and wax. The Panch Mahals District exports large quantities of timber, bamboos, firewood, scantlings, charcoal and hay to various Districts in Bombay State. It also exports ground-nut oil to the Punjab and parts of Uttar Pradesh.

The south-west portion of the District is a level tract of rich soil (except for the Pavagadh Hill) while the northern portion though it contains some fertile valleys is generally rugged, undulating and barren with but little cultivation. Large tracts are however being reclaimed through soil conservation schemes, bunding process and irrigation projects.

The District contains the famous ruins of Champaner which was a stronghold of Rajput kings belonging to Raol and the Taru dynasty. Pavagadh, a 2,500 feet high hill, is considered by Hindus to be a place of special interest and holiness. The hill itself contains the famous ruins of the ancient possessions of the Rajput king Patai Raol. Then there are the hot springs believed to have sulphur deposits, the medical properties of which are not yet fully explored, situated at Tuwa, a station about 7 miles from Godhra on the Godhra-Anand (broad-gauge) branch line of the Western Railway. The Bombay Government has a scheme for the development of these springs.

COMMUNICATIONS

The railways and buses are the main means of communication. There is the Western Rly. main line from Bombay to Dehra Dun which runs through the Panch Mahals *via* Godhra. Then there is the Anand-Godhra Branch line (broad-gauge) and the Godhra-Lunavada section of the Western Railway (narrow-gauge), the narrow-gauge section of Champaner Road-Pani Mines running from Champaner Road Station of the broad-gauge main line terminating at Pani Mines *via* Halol and Shivrajpur, and the Piplod-Deogadh-Baria section of the Western Railway. The last three are narrow-gauge sections worked by the Western Rly. administration. Passenger bus services of the Bombay State Road Transport Corporation, Bombay, are operating between Godhra-Dohad, Godhra-Shivrajpur-Bodeli-Chhota-Udepur, Dohad-Jhalod, Dohad-Alirajpur (Madhya Pradesh), Godhra-Shehera-Lunavada, Godhra-Pandu *via* Kalol and Sant Road-Santrampur-Kadana.

IRRIGATION

Pata-Dungri Dam harnessing the waters of Khan River is located 11 miles to the south of Dohad. The Dam is 83 feet in height and 600 ft in length. Its storage capacity is 1,450 million cubic feet of water. The dam provides irrigation facilities to 12,000 acres of land.

The Suki-dam is situated 11 miles north of Dohad. The dam is 66 feet high and 200 feet long. Its storage capacity is 142 million C. ft of water and it irrigates 500 acres.

The third is the Titodi Dam situated two miles south of Jhalod town. It is 50 ft in height and 5,900 ft in length. Its storage capacity is 125 million C. ft of water and it irrigates 1,500 acres of land.

The fourth is Tanachhia Irrigation project. It is located 15 miles away from Dohad. The dam is 60 ft. high and it irrigates 250 acres of land. The fifth irrigation project is Karad Dam which is located in Devgadh-Baria Taluka. The dam is 50 ft in height and 2,800 ft in length. Its storage capacity is 1,250 million C. ft and it irrigates 15,200 acres of land. All these irrigation projects have been completed.

Freelandgunj in the Dohad Taluka, one mile away from Dohad town, is the headquarters of the Works Superintendent, Divisional Electrical Engineer, Divisional Medical Officer and other officials of the Western Railway. It contains the Locomotive Shops of the Western Rly.

The District contains rich mineral deposits, such as manganese ore and galena ore. Big mines of manganese ore are worked at Shivrajpur, Baman Kuwa and Pani Mines which have developed into a mining colony.

The dry bed of the Panam River near Sant Road Station on the Godhra-Ratlam line and that of the Meshri River at Godhra and Goma River at Kalor contain quality sand used for preparing glassware and generally for building construction. There is a glass and Chinaware Factory at Sant Road in Godhra Taluka. Stone quarries exist at Timba, a village in Godhra Taluka. Gravel used for reinforced concrete works comes from the quarry which is worked at Timba Road Station on the Godhra-Anand Rly. line.

OFFICIALS

Collector and District Magistrate, Panch Mahals, D. B. Kamble, I.A.S.
District and Sessions Judge, Panch Mahals, R. K. Ranade.
District Police Superintendent, Panch Mahals, Godhra, M. G. Katre, I.P.S.

CLUBS

The Godhra Gymkhana, Civil Lines Road, Godhra.
Rotary Club of Godhra, Godhra.
Rotary Club of Dohad, Dohad.
Clayton Club, Near Local Board Offices, Godhra.
Hindu Gymkhana, Mission Road, Godhra.
Railway Institute, Railway Yard, Godhra.
Railway Senior Institute, Freelandgunj, Dohad.
Railway Junior Institute, Freelandgunj, Dohad.
Sir Ranjeetsinhji Gymkhana, Palace Road, Deogadh-Baria.

EDUCATIONAL INSTITUTIONS

The Telang Commercial High School, Civil Lines Road, Godhra.
The Government Technical High School, Civil Lines Road, Godhra.
M. and M. Mehta High School, Civil Lines Road, Godhra.
Bombay Hindi Vidya Pith, Godhra Centre, Sheherabhagal, Godhra. *Kendra Vyavasthapak*, S. M. Shukla.
New Era High School, Near Post Office, Godhra.
Iqbal Union High School, Opp. Civil Hospital, Godhra.
Government Primary Teachers' Training College for Men, Old Military Barracks, Devgad-Baria.
M. E. Mission Primary Teachers' Training College for Women and Practising School, Mission Road, Godhra.
St. Stephen High School, Railway Colony, Freelandgunj, Dohad.
Mafatlal Gagalbhai High School, Station Road, Kalol.
Sarvajanik High School, Station Road, Halol.
Sajjankumar High School, Station Road, Lunawada.
B. M. High School, Jhalod.
The S. P. High School, Santrampur (*Via* Sant Road Station).
The Panch Mahals District School Board, Godhra.
The Godhra Municipal School Board, Godhra.

ASSOCIATIONS

The Panch Mahals District Bar Association, Civil Court, Godhra.
The Dohad Bar Association, Civil Court, Ghadi, Dohad.
The Panch Mahals Chamber of Commerce, Station Road, Godhra.
The Stuert District Library, Near Municipal Office, Godhra.
The Theosophical Society, Godhra Lodge, Parbha Road, Godhra.
The Panch Mahals Land Holders' Association, Civil Lines Road, Godhra.
Godhra Vyayam Pracharak Mandal, Civil Lines Road, Godhra.
Panch Mahals Vyayam Pracharak Mandal, Civil Lines Road, Godhra.
The Sangit Kala Kendra, C/o K. J. Parikh, Station Road, Godhra.
The Panch Mahals District Development Board, (*Chairman*, Collector, Panch Mahals), Civil Lines Road, Godhra.
Bombay Hindi Vidyapeeth Prachar Mandal, Mahalaxmi Niwas, Shera Bhagal, Godhra.
The Nagarik Paksha (Citizens' Association, C/o S. B. Desai, Sheherabhagal, Godhra).

SHREE GODHRA LAXMINARAYAN TEMPLE TRUST
3868, Sheherabhagal, Godhra.
Trustees : S. M. Shukla and K. S. Mehta.

TRADES & PROFESSIONS

Abdulla Haji Hasanali Lokhandwalla & Co., Satharia Bazar, Godhra.
Abdulla Haji Bhura Dadi & Co., Dadi Bldgs. Station Road, Godhra.
Amin Dadubhai Apabhai, opp. Nehru Baug, Dohad, Dist. Panch Mahals.
Arunkumar Bhawanidas & Co., Nichwas Bazar, Godhra.
Atam Parkash Santlal, Station Road, Derol (Dist. Panch Mahals).
Babubhai Ochhavlal Shah & Co., Station Road, Godhra (Dist. Panch Mahals).
Bombay Bone Mills, Pollen Bazar, Godhra.
C. Manilal K. Construction, Tank Road, Godhra (Panch Mahals).
Devchand Khimjibhai Thakkar, Station Road, Godhra. Phone : 79.
DOHAD URBAN CO-OPERATIVE BANK LTD., Dohad (Panch Mahals). Estd. 1936. Grams : "URBANBANK." Phone : 21. Paid-up Capital Rs. 2,21,000. Reserve & other funds Rs. 3,00,000. Working Capital Rs. 33,00,000.
EBRAHIMJI H. ESMAILJI LOKHANDWALA & CO., Iron, Hardware, Cement and Paint Merchants—Suppliers to Govt P.W.D., D.L.B. and Municipality. Phone : 87. Shroff Bazar, Godhra.
Gokaldas Ranchhoddas Shah, P.W.D. Contractor, Civil Lines Godhra.
Gokaldas Ranchhoddas Shah, P.O. Vejalpur *via* Kharsalia (Western Rly.), Taluq Kalol, Dist. Panch Mahals.
Haji Abdul Majid Adam Bhatuk, Vejalpur Road, Godhra.
Haji Hassanali Abdulali Lokhandwala & Sons, Main Bazar, Godhra
Induprasad Ambalal Joshi, Shroff Bazar, Godhra.
Jai Hind Iron & Brass Works, Kalol, *via* Derol, Dist. Panch Mahals
Jai Hind Rice, Pulse & Oil Mill, Station Road, Godhra (Dist. Panch Mahals).
Jay Bharat Insurance Co., Ltd., Godhra.
Johar & Company, Station Road, Godhra.
Kalabhai Mahomedali, Station Road, Dohad.
Kalyan Industries, Jhalod (Dist. Panch Mahals).
LOKMATA ART PRINTERY, Godhra. Prop. Kantilal L. Mamlatdarna.
Maganlal Madhavlal & Co., Dohad (Panch Mahals).
Maneklal Gordhandas & Sons, Mota Bazar, Godhra.
Maneklal Vallabhdas & Company, Shera Bhagol, Godhra.
Mithalal R. Desai, General Merchant, Station Road, Dohad.
MITHALAL R. DESAI, Nava Bazar, Dohad (Panch Mahals). Branches : Meghanagar, Alirajpur (Madhya Pradesh) and Jhalod (Bombay State). Agents : Standard-Vacuum Oil Co. Grams : "PETROLWALA." Phone : 25-25A.
Modi Ratanlal Punja'al, Modi Falia, Godhra (Dist. Panch Mahals)
Modi Punamchand Harilal, Station Road, Godhra.
Nalince Studios, Kara tiwa'a, Godhra.
Natverlal Gulabchand Babariya, Dohad (Panch Mahals).
Navjivan Roller Flour and Pulse Mills Private Ltd., Dohad (Panch Mahals).
O. M. Sethi, Photographic Material Dealer, Godhra.
Panch Mahals Auto Parts Co., P.O. Vejalpur (*via* Kharsalia) (Western Rly.), Dist. Panch Mahals.
Panch Mahals Goods Transport Co., Civil Lines Road, Godhra
Panchmahals Goods Transport Company, Godhra (Panch Mahals)
Panch Mahals Transport Services, Godhra.
Rasiklal M. Shah, Netaji Road, Dohad (Panch Mahals).
Saiebhai Haji Hasanali Lokhandwa'a, Godhra (Dist. Panch Mahals)
Shah Chaganlal Manekhlal, Dohad (Panch Mahals).
Shah Stores, Nichwas Bazar, Godhra.
Shah Transport Services, Motor Stand, Godhra.
Shree Krishna Printing Press, Shroff Bazar, Godhra.
Shri Lunawada Industries & Electricity Company, Lunawada (Dist. Panch Mahals).
S. M. Shukla, Mahalaxmi House 3868, Sheherabhagal, Godhra (Panch Mahals).
T. Laxmichand, Station Road, Godhra.
Vadilal C. Modi, Insurance Agent, Godhra (Panch Mahals)
Vallavdas Damodardas Desai & Co., Jhalod (Dist. Panch Mahals

PARBHANI DISTRICT

Headquarters : Parbhani.

Talukas: Parbhani, Gangakhed, Pathri, Jintur, Hingoli, Basmat, Kalamnuri, Partur.

Area : 4,855 sq. miles ; Pop. : 1,010,864.

Part of the District lies on the plateau south of the Sahyadri range and part on the plains. The plateau slopes towards the south and terminates in the valley of the Dudna. The two chief hill ranges are the Sahyadri-parvat and the Balaghat. The former runs through the north while the latter is in the south. The important rivers are the Godavari, Penganga, the Purna and the Dudna. The trees are mostly babul, khair, nim, mango, tamarind and mahua. Tigers, wolves, hyenas are found in the jungles. Sambar and the spotted deer are not uncommon.

The climate is healthy from February to May but it is feverish during the monsoon and the cold weather. The annual range of temperature is from 105° to 60°. The average annual rainfall is about 35 inches.

Structures of note in the District are the temple of Nagnath at Aundh, the Jain temple of Parsnath near Jintur, the temple at Bamu and the shrine of Ramzan Shah.

The soil is partly black cotton and partly masab and kharab. On the black soil are grown white jawar, wheat, gram, tuar, while on the kharab soils are grown jawar, bajra, indigo, sesamum, oilseeds and pulses. The kharab soils also bear garden crops. The staple food crops are jawar, wheat and bajra. Cotton is grown throughout the District. About one-twentieth of the land is under forest. There are no minerals of economic value. Basalt and granite are available everywhere for building and road metalling. There are no important industries.

The principal exports are jawar, cotton, oilseeds, tobacco and hides. The chief imports are salt, sugar, kerosene and textiles.

OFFICIALS

Collector, B. S. Dhavle, I.A.S.
District Superintendent of Police, Jagjit Singh.
District and Sessions Judge, Rai Suraj Chand.

POONA DISTRICT

Headquarters : Poona.

Talukas or Mahals : Ambegaon, Baramati (Bhimtadi), Dhond, Haveli, Indapur, Junnar, Khed, Mawal, Mulshi, Poona City, Purandhar, Sirur, Bhor, Velhe.

Poona District lies between North Latitude 17° 54′ and 19° 22′ and East Longitude 73° 24′ and 75°13′. It is bounded on the north by the Districts of Thana and Ahmednagar, on the South by Satara North, Sholapur and the former Phaltan State, on the east by the Districts of Ahmednagar and Sholapur, and on the west by the Sahyadri Hills. In March 1948 a large part of the Bhor State with a population of about 120,000 was added to the Poona District consequent upon the merger of that State with Bombay State. The premerger area of the District was 5,869 sq. miles and the population 1,359,408. The population according to 1951 census is 1,950,976, and the area 6,028 sq. miles. The language spoken is Marathi.

The city proper extends along the Mutha river for about 1⅞ miles inland ; its length is about 2 miles from east to west and its breadth about 1⅞ miles, the total area being about 2⅞ square miles.

Towards the west the country is undulating and intersected by numerous spurs of the Western Ghats, which break off in a south-easterly direction, becoming lower as they pass eastwards, and in the end sinking to the general level of the plain. Many streams rise in the Western Ghats and flow eastwards until they join the Bhima river, which passes through the District from north-west to south-east. The main tributaries are Vel, Ghod, Bhama, Indrayani, Mula and Nira. The rainfall varies considerably in different parts of the District. In the western parts it is heavy and regular, in the central belt moderate, and in the east very irregular. The main crops are paddy and jawar. But the District is a deficit area in the matter of food grain. One of the products of which the District has an exportable surplus is jaggery produced from sugarcane.

The District is well served by road and railway. The Central Railway traverses the District from west to east, and this section is joined at Dhond by the north to south cross connection from Manmad. The Southern Railway runs from Poona southwards for a distance of about 50 miles in the District. The District has also communication with Nasik, Ahmednagar, Sholapur, Belgaum, Satara, and Kolaba Districts by road. The Poona-Agra Road is also one of the arterial roads of the country as a whole.

Until a few years ago the headquarters of the Bombay Government during the monsoon, the city of Poona lies at the confluence of two small rivers, the Mutha and the Mula, on the Western margin of the Deccan plateau at a height of about 1,800 ft. above sea-level. Only 30 miles separate the city from the main range of the Western Ghats and 119 miles from the State capital, Bombay. The annual exodus of Government to Poona has now been stopped, as also the monsoon meetings of the Houses of Legislature.

The city is surrounded by uplands and hills. The climate of Poona is dry during most of the year and very different from that obtaining in the coastal towns of Bombay State. On account of its elevation and dryness, Poona is cool during nights even in summer. The city is at its best during the monsoon—June to September. The city is the venue of horse racing organised by the Royal Western India Turf Club.

The importance of Poona from the military point of view is growing. It is the headquarters of the Southern Command and also of the Poona Sub-Area. The National Defence Academy is located in Khadakvasla. The School of Military Engineering and The Armed Forces Medical College are also in Poona. A wing of the Indian Air Force is also located to Poona. Some of the other military establishments around Poona are : the Ordnance Depot and the Arsenal at Kirkee and the Vehicles Depot at Dehu Road. The Indian Navy Mechanical Training establishment, I.N.S. "Shivaji", is located at Lonavla, 40 miles from Poona.

Other important institutions of All-India character located in Poona are given below :

Meteorological Office : The technical headquarters of the India Meteorological Department, the Meteorological Office in Poona, is located on the Ganeshkhind Road at Shivajinagar, in a magnificent building with a conspicuous clock tower.

Central Water and Power Research Station ; National Chemical Laboratory.

OFFICIALS

Collector and District Magistrate, S. B. Kulkarni, I.A.S.
Additional Collector, S. S. Mone, I.A.S.
District and Sessions Judge, V. A. Naik.
District Superintendent of Police, C. J. V. Miranda, I.P.S.
District Superintendent of Police, Poona (Rural), S. K. Chaturvedi, I.P.S.

POONA MUNICIPAL CORPORATION

The Corporation for the City of Poona was created on February 15, 1950.

The Municipal budget proposals for 1958-59 as approved by the Standing Committee shows an estimated income of Rs. 1,51,29,553 and expenditure of Rs. 1,52,57,583, leaving a deficit of Rs 1,28,030. The deficit would be met from the opening balance of the new year.

It was proposed to spend Rs. 10,13,500 on Revenue New Works and Rs. 43,54,000 on loan works.

Provision of Rs. 2,000 had been made for fees to be paid to a firm of actuaries for undertaking preliminary survey before converting the Provident Fund Scheme into Pension Scheme.

Party position in the Corporation : Samiti 48, Independents 12, Nagrik Sanghatana 5.

Mayor : Shirole Bhausaheb Laxmanrao.

Deputy Mayor : Agarwal Motilal Himatlal.

Members : Gunjal Namdeo Ranoji, Barne Vitthal Laxman, Gaikwad Madhavrao Balwantrao, Chavan Jairam Vithuji (*Ward No.* 1) ; Malayya Krishna Ramanath, Deshpande Dnyaneshwar Tukaram (*Ward No.* 2) ; Khan Gulam Mohomad Abdul Satarkhan, Bendre Ganesh Raghunath, Shendge Vitthal Shankar (*Ward No.* 3) ; Mithapalli Malayya Ramayya, Kirad Sardar Munnasingh, Patel Jamalkhan Karimkhan, Pawar Damodhar Santram (*Ward No.* 4) ; Kalyankar Motilal Keshav, Sapar Narayan Tukaram, Bogam Dnyanoba Ramanna (*Ward No.* 5) ; Gandhi Ramdas Vitthaldas, Shah Gokuldas Jivarambhai (*Ward No.* 6) ; Kalbhor Chandrakant Maruti, Telang Ramchandra Vitthal, More Balkrishna Pandharinath, Dhere Shivaji Amrut (*Ward No.* 7 *(Part I)* ; Ghaisas Ganesh Trimbak, Gavandi Mohan Vishwanath, Paranjape Ramdas Sadashiv (*Ward No.* 8) *(Part II)* ; Nalavade Ganpat Mahadeo, Gosavi Laxman Gopal, Jejurikar Ganesh Narahar (*Ward No.* 9) ; Kirad Rohidas Harilal, Kurumkar Shankar Balwant, Pardeshi Kaluram Udansingh, Maheshwari Mohanlal Kevalchand (*Ward No.* 10) ; Pawar Narayan Ganpatrao, Agarwal Motilal Himatlal, Kadu Digambar Shantaram, Tikone Damodar Maruti, Satav Pandurang Gopal (*Ward No.* 11) ; Bhagwat Gopal Prabhakar, Shrimati Bapat Leela Vishwanath, Hagavane Vasant Shankar (*Ward No.* 12) ; Kotwal Laxmanrao, Baburao, Sathye Narayan Bhaskar (*Ward No.* 13) ; Gogate Vasudeo Balwant, Dharia Mohan Manikchand, Shrimati Bhopatkar Sundrabai Bhaskar (*Ward No.* 14) ; Bhave Vishwanath Narayan, Shrimati Limaye Anusayabai Shridhar, Ganjave Shamrao Vitthal, Sahasrabudhe Laxman Gopal (*Ward No.* 15) ; Shirole Bhausaheb Laxmanrao, Bhosale Jagannath Vishnu, Kale Anandrao Dattatraya, Pashankar Dayanand Kashinath, Nagarkar Pandurang Ramchandra, Gangurde Krishnarao Gangaram (*Ward No.* 16) ; Kodre Rajaram Kundalik, Kodre Sadaba Balaji, Khalbhor Jayaram Sakharam (*Ward No* 17) ; More Genu Sopana, Shelar Balwant Laxman (*Ward No* 18), Padale Thaksen Raghoba, Patil Vishwanath Bahusaheb, Bogam Dnyanoba Ramanna, Sasane Jaisingh Ganpat, Lonkar Bala Bhiva (*Ward No* 20).

STANDING COMMITTEE

Chairman : Gogate Vasudeo Balwant.

Members : Kadu Digambar Shantaram, Kale Anandrao Dattatraya, Jejurikar Ganesh Narahar, Telang Ramchandra Vitthal, Patel Jamalkhan Karimkhan, Paranjape Ramdas Sadashiv, Padale Thaksen Raghoba, Patil Vishvanath Bhausaheb, Bogam Dnyanoba Ramanna, Sasane Jaisingh Ganpat, Sathye Narayan Bhaskar.

OFFICERS

Municipal Commissioner, S. V. Bhave, I.A.S.
Assistant Municipal Commissioner (General), G. M. Khopkar, B.A. (Hons.), LL.B.
Assistant Municipal Commissioner (Special), S. B. Darp, B.A.
Municipal Secretary, A. K. Jadhav, B.A., LL.B.
Medical Officer of Health, C. M. Dighe, M.B.B.S., D.P.H.
City Engineer, S. K. Neurgaonkar, B.E. (Civil), A.M.I.E.
Development Engineer, S. G. Yadav, B.Sc , B.E. (Civil), A.M.I.E.
Chief Accountant, R. G. Godbole, B.Com , C.A.
Municipal Chief Auditor, R. N. Gadgil, B.Com.
Assessor and Collector of Municipal Taxes, L. H. Marathe, B.Sc., B.A. (Hons.), LL.B.
Transport Manager, V. D. Desai, B.A.
Senior Legal Assistant, Smt. S. B. Tarkunde, Advocate.
Administrative Officer, G. P. Kale, B.A., B.T., Dip. Ed.
Internal Auditor, S. K. Alekar, B.Com.

LONAVLA

This hill station is situated at the top of the Bhore Ghat incline about 2,027 feet above sea-level.

Among the lakes may be mentioned the ' Tata Sons Hydro-Electric Works Lake ' at Valvan (walking distance and drive over a built road), their smaller Lake near the Railwoods, and the Lonavla Municipality's Water Works on the top of the Tungarli Hill about 2½ miles north of the Railway Station. Fishing is allowed both at the Bhushi and the Valvan lakes, the latter being the more suited for the purpose. A permit can be obtained locally from the Water Engineer's office at Lonavla on payment of a fee which includes the use of the Company's boat.

The town of Lonavla and its adjacent villages and suburbs are supplied with water from the Municipal Water Works at Tungarli.

There is a Municipal rest-house and Dharmashalla on the Lonavla-Bhangarwadi Road. The Railwoods are suitable for picnics and are also a camping ground for Government Officers during the hot season.

About 3½ miles from the Railway is situated the "Tiger's Leap," a promontory which commands a picturesque view of the valley below. The famous Karla Caves are situated on a hill about five miles from Lonavla, and are reached by a built road up to the foot of the hill, and visitors either walk up or are carried up by means of chairs. There is a man in charge of the Caves at the top for assisting visitors. Tongas and victorias can be hired throughout the year. From the Railway Station of Malawali, nearly three miles from Lonavla, visitors can proceed to view the Lohgadh Fort (now partially demolished) on the top of a hill. The approach to it is by no means easy and visitors must arrange beforehand for chairs—slung on poles—to be sent to the Railway station from the Karla Caves hill or Karla village. This Fort was formerly used as a State prison by the Peshwas. About five miles by road from Lonavla is the Sakar Pathar Hill, a well-known shooting ground where big game may be found.

The terrace garden overlooking Tata's Valvan Lake is another attraction for visitors to Lonavla.

The following are some of the Forts and places of interest:—

Fort of Lohgadh, Fort of Visapur, Fort of Rajmachi which stands on the top of the Sahyadri Range and commands a grand view of Matheran, Konkan and even part of Bombay, Duke's Nose, Tungarli Municipal Lake.

The temperature varies from 65 in the cold weather to 85 in the hottest month. The rainfall varies from 160 to 250.

One of the best naval establishments and training schools I N S. "Shivaji" is about four miles from Lonavla Station and visitors may contact the Commanding Officer on phone for permit to visit.

There is up-to-date telephone service.

V.P. High School and "Guru Kul" are residential schools preparing for the S.S.C. examination.

HOTELS

Central Hotel.
Lonavla Hotel.
Jal Hind Hotel.
Giri Vihar Hotel.
Bharatya Lodge.

SANITARIA

Krishna Arogya Bhavan.
Jaya Baug.
Divali Baug.
Vasanji Manji
Khoja Sanitarium.
Bhori Sanitarium.

KHANDALA

Khandala, a health resort, 78 miles from Bombay by rail and 71 by road lies in Mawal Taluka. It is situated at the top of the Bhor Ghat at an elevation of about 2,000 feet above sea-level, and has an agreeable and bracing climate all through the year. Bungalows are available for seasonal lease, and bungalows, sanitaria, hotels are all easily accessible from the railway station. The local population is about 1,500.

Among places worth a visit in and around the town are Tata Electric Supply Company's reservoir called Forbay Dam, Byramjee's Point, the Duke's Nose, Tiger's Leap, all of which provide magnificent views of the surrounding country. About nine miles from Khandala are the Karla caves considered to be the oldest specimen of Buddhist caves in India. In Walwan lake which is about four miles from Khandala good mahashir fishing is available.

HOTELS

Khandala Hotel.
Empress Hotel.
Government Inspection Bungalow.

INSTITUTIONS

D. Cowasji Zoroastrian Girls' Boarding School.
Marzban Sanitarium.
Kotkar Sanitarium.
Khoja Sanitarium.
Kune Mission.

EDUCATIONAL INSTITUTIONS

UNIVERSITY OF POONA

The University of Poona was established by the Poona University Act, 1948 of the Government of Bombay passed in pursuance of its policy to create Universities in the State for different linguistic regions. The University area comprises the following 12 Marathi speaking Districts of Maharashtra in Bombay State namely, Poona, Nasik, Thana, East Khandesh, West Khandesh, Ahmednagar, Sholapur, North Satara, South Satara, Kolhapur, Ratnagiri and Kolaba.

The University is both teaching and affiliating in character. The teaching activity is confined to Post-graduate classes in the whole University area and also post-intermediate classes in the Poona area (which comprises Poona and some area in the Poona City Taluka, Mulshi Petha and the Haveli Taluka).

It has the following seven Faculties and has provision for courses for the following degrees:

Faculty of Arts: B.A., M.A., Ph.D., D.Litt., B.A. (External), M A. (External); *Faculty of Mental, Moral and Social Sciences:* B A., B A. (External), M.A., M.A. (External), B.T., M Ed., B.Com., M.Com., Ph.D., D.Litt. *Faculty of Science:* B sc. (General), B.Sc. (Hons.), M.Sc., M.Sc. (Maths.), M.Sc. (Maths.) (External), Ph D.; *Faculty of Law:* LL B., LL.M., LL.D., Ph.D.; *Faculty of Medicine:* M B.B.S., M D., M.S., Ph.D., B.Sc. (Nursing), M.Sc. (Med); *Faculty of Engineering:* B.E. (Civil, Mechanical, Electrical, Telecommunications and Metallurgy), M.E., Ph.D.; *Faculty of Agriculture:* B.Sc. (Agri.), M.Sc. (Agri.), Ph.D.; *Faculty of Ayurvedic Medicine:* B.A. M.&S.

The University has also instituted for the benefit of employed persons and married women, the B.A. (External) and M.A. (External) degrees in the Faculties of Arts and Mental, Moral and Social Sciences and M.Sc. (Maths.) (External) in the Faculty of Science to which students can qualify by appearing for the examinations direct, without having to undergo instruction in a College or the University.

The University has also instituted a Faculty of Fine Arts and Music and the degree of Bachelor of Music, but it has not started functioning so far (end of 1957).

The following new diplomas and certificates have been instituted (1) Diploma in Oriental (Sanskritic) Learning; (2) Certificate and Lower Diploma Course in Modern Foreign Languages (French and German); (3) Diploma in Public Health; (4) Diploma in Psychological Medicine; (5) Diploma in Anaesthesia; (6) Diploma in Music.

The University has in all 30 affiliated Colleges and three recognised Research Institutions. Of them, 11 colleges and all the three Recognised Institutions are in the Poona area and they are called the Constituent Colleges and the Constituent Recognised Institutions of the University. Of the Colleges, two are Law Colleges (one at Poona and the other at Kolhapur), one is a Medical College (at Poona), two Engineering Colleges (one at Poona and one at Sangli), one Agricultural College (at Poona) and one College of Ayurvedic Medicine and Surgery. The rest are Colleges for Arts, Social Sciences and Science.

The total strength of students in all the colleges and the University is in the neighbourhood of 19,000.

The University has its own Departments in the following ten subjects, each headed by a University Professor or Reader and mainly intended for post-graduate instruction and research Marathi, Sanskrit, Politics, Experimental Psychology, Mathematics and Statistics, Physics, Chemistry, Zoology, Geography and Botany

CHANCELLOR

Sri Prakasa, Governor of Bombay.

VICE-CHANCELLOR

R. P. Paranjpye, M.A. (Cantab.), D.Sc., D.Litt.

REGISTRAR

Y. D. Khan.

Dy. Registrar, R. S. Sardeshpande, B.A.

Asstt. Registrar, R. B. Manerikar, M.A., LL.B.

Librarian, K. S. Hingwe, M.A., Dip.Lib.Sc.

SECRETARY, FOREIGN UNIVERSITIES INFORMATION BUREAU AND UNIVERSITY EMPLOYMENT BUREAU

A. B. Arlick, B.Sc. (N.D., U.S.A.).

SECRETARY, BOARD OF EXTRA-MURAL STUDIES

Dr. A. V. Naik, M.A., Ph.D.

SECRETARY, UNIVERSITY BOARD OF SPORTS

V. M. Damle.

THE COURT

This corresponds to the Senate of the Bombay University and is the main policy-making body of the University. Its membership is about 160 and besides the registered graduates, it has also representatives of the District Local Boards and Municipalities in the Districts in it.

ACADEMIC COUNCIL

This is the main academic body and has powers in respect of all academic matters of the University. Its total membership about 85.

EXECUTIVE COUNCIL

This is the main administrative body of the University, comprised of representatives from the Court and the Academic Council. Its total membership is 16.

BOARD OF UNIVERSITY TEACHING

This is concerned with the organization, co-ordination and conduct of post-intermediate teaching in the Poona area and the post-graduate teaching in the whole University area. Its total membership is about 40.

BOARDS OF STUDIES

These are 33 in number in all the faculties together. Their main function is to frame courses of Studies and to draw up panels of examiners.

INCOME AND EXPENDITURE (1957-58)

Income : Rs. 42,68,176.
Expenditure : Rs. 45 50,878.
State Government Grant-in aid : Rs. 7,01,508.

Constituent Degree Colleges.—College of Engineering, Poona 5; Fergusson College, Poona 4, College of Agriculture, Poona 5; Sir Parashurambhau College, Poona 2; Law College, Poona 4; Nowrosjee Wadia College, Poona 1; Tilak College of Education, Poona 2; Brihan Maharashtra College of Commerce, Poona 4; M E Society's College of Arts & Sciences, Poona 4; B J. Medical College, Poona 1; Ayurved Mahavidyalaya, 22, Nagesh Peth, Poona 2.

Affiliated Degree Colleges.—Rajaram College, Kolhapur; Willingdon College, Sangli; Hansraj Pragji Thackersey College, Nasik; Shahaji Law College, Kolhapur; Pratap College, Amalner (E K.), Chhatrapati Shivaji College, Satara; Dayanand College of Commerce, Sholapur; Dayanand College of Education, Sholapur; Shree Maharani Tarabai Teachers College, Kolhapur; Dayanand College, Sholapur; R P. Gogate College, Ratnagiri; Moolje Jaitha Arts & Science College, Jalgaon (E K.); Ahmednagar College, Ahmednagar, Walchand College of Engineering Sangli, Sangameshwar College, Sholapur, Rayat Shikshan Sanstha's College of Education, Satara; Gopal Krishna Gokhale College, Kolhapur; Shri Shivaji Vidya Prasarak Sanstha's Arts College, Dhulia (W. K.), G E. Society's Bhikusa Yamaji Kshatriya College of Commerce, Nasik, Sadguru Gadge Maharaj College, Karad (N Satara); Phaltan Education Society's Mudhoji College, Phaltan (N. Satara); Legal Education Society's College of Commerce, Topkhana Building, Kolhapur.

Recognised Institutions.—Gokhale Institute of Politics & Economics, Poona 4; Bhandarkar Oriental Research Institute, Poona 4; Deccan College Post-graduate and Research Institute, Poona 6

AYURVEDA MAHAVIDYALAYA

POONA 2

The Institute is affiliated to the Poona University for the B A M A S. (Bachelor of Ayurvedic Medicine and Surgery) course which covers a period of 4½ years.

The Institution also conducts a two years' Post-Graduate course.

The attached hospital known as the Seth Tarachand Ramnath Ayurvedic Hospital has 175 beds (64 medical, 60 surgical & 51 maternity) and has a well equipped operation theatre, a Pathological Laboratory, an X-ray department and an out-patient department treating 300 patients daily It has its own pharmacy, manufacturing both Ayurvedic and Allopathic medicines.

B. J. MEDICAL COLLEGE, POONA

The College admits every year 100 students for the M B.B S. Course. The total number of students at present is about 500. The clinical instruction is given in the attached Sassoon hospitals. *Principal and Professor of Anatomy :* Dr. B. M. Desai, M.S. (Bom), F.C.P.S. (Bombay).

CAMP EDUCATION SOCIETY

(Estd. 1890).

Poona 1.

Life members: G. P. Sohoni, Hon. Secretary, Camp Education Society and Head Master, C.E.S. High School, Poona 1.

V. K. Shrotriya, Head Master, R. D. High School, Poona 2.

COLLEGE OF AGRICULTURE

Poona.

A four-year course leading to the degree of Bachelor of Science in Agriculture—B.Sc. (Agri.)- of the Poona University is given at this College. The college is also fully equipped for Post-graduate instruction leading to the degrees of M.Sc. (Agri.) and Ph.D.

Principal, L. S. S. Kumar, M.Sc. (Lond.).

COLLEGE OF ENGINEERING

Poona

Principal, G. V. Vartak, B.E. (Civil), M.I.E. (India).

CO-OPERATIVE TRAINING COLLEGE

(All India Centre)

5, B. J. Road, Post Box No. 32, Poona 1.

Principal, P. M. Chengappa, Dip. Econ., C.H.D. (Manch.), F.R.E.S. (Lond.).

DECCAN EDUCATION SOCIETY

Poona

The object of the Society is "to facilitate and cheapen education by starting, affiliating and incorporating at different places, as circumstances permit, schools and colleges under private management or by any other ways best adapted to the wants of the people." The Society has now 32 life members.

Chairman of the Council and the Governing Body :—H. G. Gharpurey, M A., I.C.S. (Retired); *Secretary :* Dr. V. N. Dhavale, M A., D.Phil., (Oxon.), Fergusson College, Poona.

The Society's Institutions are the following :—The Fergusson College, Poona : *Principal*—Prof S V. Kogekar, B Sc. (Econ) (Lond.); The Willingdon College, Sangli : *Principal*—Prof. G. L. Chandratreya, M.A., B.Sc. (Bom.), M.A. (Cantab.); The Brihan Maharashtra College of Commerce, Poona : *Principal* -Prof T. M. Joshi, M.A.; The D. L. Society's Bombay College : *Principal*—Prof. M. G. Bhate, M.A., B Sc. (Lond); The New English School, Tilak Road, Poona 2 : *Superintendent*—Prof. P. N. Virkar, M.A , B T., T.D. (Lond); The New English School, Ramanbag, Poona : *Superintendent*—Prof. K. G. Nisure, M A., B T.; The New English School, Satara : *Superintendent*, Dr. D. N. Gokhale, B.A. (Hons.), Ph.D , B.T.; Maoji Madhavji High School, Umbargaon : *Chairman, Standing Committee* -Prof. D D. Vadekar, M A ; Dravid High School, Wai; *Chairman, Standing Committee* - Prof. R. S. Joag, M.A.; Ahilyadevi High School for Girls, Hoikar Wada, Poona : *Chairman, Standing Committee*—Prof. K. V. Kelkar, M Sc.; The Navin Marathi Shala, Poona : *Chairman, Standing Committee*, Prof. S. R. Parasnis, M A ; Justice M. G. Ranade Balak Mandir, Poona : *Chairman, Standing Committee*—Prof. S. R. Parasnis, M.A.; Technical Institute (attached to Fergusson College), Poona : *Chairman, Standing Committee*— Dr. V. A. Patwardhan, M Sc , Ph D.

The total number of students in the institutions of the Society exceeds 12,000.

D. E. SOCIETY'S AHILYADEVI HIGH SCHOOL FOR GIRLS

Hoikar Wada, Poona 2.

Principal, Miss Sindhu Dinkar Sawarkar.

D. E. SOCIETY'S BRIHAN MAHARASHTRA COLLEGE OF COMMERCE

Poona 4.

(Affiliated to the Poona University as a Constituent Degree College)

The Deccan Education Society, Poona, established in 1884, started this college in June 1943 It is a First grade College teaching upto M Com Degree examination. The Brihan Maharashtra Sugar Syndicate, Ltd., Poona, gave a munificent donation of Rupees two lakhs towards the building fund of the college. The trustees of the Sir Dorabjee Tata Trust have donated Rs. 50,000 for the construction of an Assembly Hall for the college.

Since 1952 the college has been housed in its own buildings situated on a plot of ground near the Servants of India Society's Home. The buildings include the J N Tata Assembly Hall.

Principal : T. M. Joshi, M.A.

D. E. SOCIETY'S NAVIN MARATHI SHALA

Shaniwar Peth, Poona 2.

Superintendent.—P. V Sane, B.Sc., S T C.

Special features :—(i) Provision for drawing, clay-modelling, gardening, singing and sewing, (ii) reading room for children, (iii) A separate department for giving first aid to pupils.

JUSTICE M. G. RANADE BALAK MANDIR

Shaniwar Peth, Poona 2.

Superintendent, P. V. Sane, B.Sc., S.T.C.

Children admitted are between the ages of 3 and 6 Strength of the school is over 200.

FERGUSSON COLLEGE

Poona

Principal.—S. V Kogekar, B A., B Sc (Econ) (Lond)

LAW COLLEGE

Poona

Principal :—Ganapati Vishnu Pandit, M.A., LL.M.

MAHARASHTRA EDUCATION SOCIETY'S COLLEGE OF ARTS AND SCIENCES

Poona 4.

Prof. M. N. Bhat, M.A., L.T. is the principal of the college and Prof. N. S. Jamadagni, M.A., B.T. is the vice-principal.

MAHILASHRAM HIGH SCHOOL

Hingne Budruk, Poona 4.

The Mahilashram High School is now a boarding school. There are nearly 350 girls in the high school, who are being prepared for the S S C. examination of the S.S C.E. Board. A special tailoring class recognised by the Board of Technical Education, Government of Bombay, is conducted for the pupils.

THE NATIONAL MODEL SCHOOL
Aga Khan Palace
Poona No. 6
(Residential School)

Co-educational residential school, prepares boys and girls for the S.S.C. Examination, Bombay. Special attention given to boys who desire to make army as their career. Fees: Rs. 1,300 per year.

NEW ENGLISH SCHOOL
Tilak Road, Poona 2.

Instruction in producing hand-made paper, A.C.C., vocational guidance centre, scouting, poor boys' shop, educational experiments and projects are some of the many salient features of the school. The strength of the school, at present, is about 1,400.

The school has a Planetarium, the only one of its kind in Bombay State.

Superintendent.—Prof. P. N. Virkar, M.A., B.T., T.D. (Lond.).

NOWROSJEE WADIA COLLEGE
Poona 1.

Established in 1932, teaches degree courses in Arts and Science faculties. Housed in well equipped modern buildings on its own premises, has an extensive playground, a gymkhana pavilion, a students' dining hall, an assembly hall and a hostel for 250 men students and 50 lady students.

Principal.—N. G. Suru, M.A.

PROGRESSIVE EDUCATION SOCIETY
Shivajinagar, Poona 5.

The society's institutions are: The Modern High School was started in 1934; The "Prathamik Vidyamandir" is a primary school; The Sir Sassoon David Hostel and The Girls' High School.

QUEEN MARY'S TECHNICAL SCHOOL FOR DISABLED INDIAN SOLDIERS
Park Road, Kirkee

Patron:—The President of the Indian Republic.

Superintendent:—M. K. Kelavkar, F.R.C.P., O.B.E., I.M.S. (Retd.). Training is free as are food, accommodation and clothing. Allowance of Rs. 12 p.m. in addition to pension. Free railway warrants.

SHIKSHANA PRASARAKA MANDALI
Tilak Road, Poona 2.

The Mandali (Society) now conducts the following institutions:—

Nutan Marathi Vidyalaya Marathi Shala, Poona; Shishu-Shala, Poona; and Girl's Primary School, Poona; Nutan Marathi Vidyalaya High School, Poona; Sir Parashurambhau College, Poona; Haribhai Deokaran High School, Sholapur; Mimamsa Vidyalaya, Poona; Ramanarain Ruia College, Bombay; Ramniranjan Anandilal Poddar College of Commerce and Economics, Bombay; Tilak College of Education, Poona; (& Vinayakumar Ramniwas Ruia Mook Badhir Vidyalaya and Extension Services Project); Sharirik-Shikshana Vidyalaya, Poona; S.T.C. Institute, Poona.

The Mandali also arranges every year a lecture series in Poona called "Kaushik Vyakhan Mala" by distinguished Scholars. The themes of lectures are Vedas and Dnyandeo.

SIR PARASHURAMBHAU COLLEGE
Poona 2

Principal, B. V. Bhide, M.Sc., A.I.I.Sc.

SHRI SHIVAJI PREPARATORY MILITARY SCHOOL
Poona 5

The School, which was founded in September 1932, is a member of the Indian Public Schools' Conference. Admission is open to boys of all castes and creeds, from the age of 5 to 14 years. There is a Montessori Section, a Primary School consisting of four standards and the Secondary School which prepares the boys for the Bombay State's S.S.C. examination. Training is also given to prepare the boys for the U.P.S.C. examination for entry into the N.D.A. The School has 350 boys. The Bombay Government has endowed three full scholarships every year for the School. Terms begin in June and November.

The School has extensive playgrounds covering 25 acres. There is a riding school, hockey, football and cricket fields, a swimming pool, squash and tennis courts, and a miniature rifle range. The School runs a (Junior) National Cadet Corps.

President:—H. H. The Chhatrapati Maharaja of Kolhapur

Principal:—N. L. Khanolkar, M.A.

TILAK COLLEGE OF EDUCATION
Poona

In addition the college has a class for the education of deaf children and a training class for teachers of the deaf.

Principal, B. V. Bapat, B.A., M.Sc., M.Ed., A.I.Ed. (Lond.)

LITERARY, SCIENTIFIC AND OTHER INSTITUTIONS

BHANDARKAR ORIENTAL RESEARCH INSTITUTE
Poona 4.

The Institute was inaugurated on the 6th of July 1917, the 80th birthday of Late Dr. Sir R. G. Bhandarkar. Its objects are to publish critical editions of texts and original works bearing on Oriental antiquities, to provide an up-to-date Oriental library, to train students in the methods of research and to act as an information bureau on all points connected with Oriental studies. The valuable library of Dr. Sir R. G. Bhandarkar, which he had bequeathed to the institute, is now located in the central hall of the Institute. Since April 1918 the Government of Bombay have transferred to the custody of the Institute the unique collection of nearly 20,000 manuscripts together with a maintenance grant of Rs. 3,000 a year. Manuscripts from this collection are lent out to scholars in all parts of the world. Government have likewise entrusted to the Institute a grant of Rs. 12,000 a year for the publication of the B.S.S. and the Government Oriental Series (the latter including, amongst others, Dr. Kane's History of Dharmashastra in five Volumes). The Institute has also started a series called the Bhandarkar Oriental Series in which several works have been already published and others are in progress. The Institute has undertaken to edit Mahabharata critically at the initiation of the late Raja of Aundh who donated a grant of Rs. one lakh for that purpose. The Institute has also received so far about Rs. 33,615 from the trustees of the Mahabharata publication fund, London, earmarked for the publication of the Virata, Udyoga and Karna parvans. More than three-fourth of the work on the critical edition has been completed. On 25th March 1944, the Institute inaugurated its Mahabharata printing department with a view to expediting the printing of the Mahabharata edition. The Institute issues a journal called *Annals* of the Bhandarkar Oriental Research Institute published normally four times a year. It also held under its auspices the first oriental conference on the 5th, 6th and 7th of November 1919 under the patronage of Sir George Lloyd and the presidency of Sir R. G. Bhandarkar.

The Institute is housed in a fine, commodious and fire-proof building. Since August 1927 the Institute had been conducting for several years regular M.A. Classes in Sanskrit, Pali, Ardhamagadhi and ancient Indian culture. The Sanskrit department of this Institute has been affiliated to the University of Poona and students are being coached for the M.A. and Ph.D. degrees of the above mentioned University. Lectures by eminent scholars are also delivered occasionally. Membership dues Rs. 10 a year or Rs. 100 compounded for life. Members can, subject to certain conditions, borrow books from the library and get the *Annals* free, and other publications (a list covering over 120 titles sent free upon request) at concession rates.

Hony. Secy., Dr. R. N. Dandekar.

BHARATA ITIHASA SAMSHODHAKA MANDALA, POONA
1321, Sadashiva Peth, Poona 2.

Founded in 1910 by the late Mr. V. K. Rajwade and Sardar K. G. Mehendale and registered under Act XXI of 1860 in 1910 with the object of collecting and conserving historical materials in the broadest sense, erecting suitable buildings for preserving and exhibiting them, publishing such materials and other works of historical and cultural research and generally to encourage and foster critical study of and research in Indian history and culture. Possesses the best collection of Persian and Marathi historical papers owned by any public society. Has a rare collection of about eighteen thousand manuscripts and over a thousand Indian paintings now housed in a special wing. Maintains a coin cabinet and an armoury of old weapons. Has a section for copper-plates, sculptures, archaeology and has a library of general, historical and rare books. Holds fortnightly and annual meetings where notes and papers based on original documents are presented, discussed and afterwards published. The Poona City research section of the Mandala does research work on the city and publishes findings. Has published several volumes of original historical letters and other historical and literary work whose total number exceeds 97. Conducts a quarterly journal devoted to research running into 38 volumes. Has done some excavation work at Karad and got finds of the 2nd Century B.C.-2nd Century A.D. Work done mostly in Marathi. Celebrated the Silver Jubilee by calling the first All-India Modern History Congress in 1935. Has been receiving some annual grants from the Governments of Bombay and India. Was supported by many Rajas, Jagirdars, Sardars and the public. The late Dr. J. E. Abbot of New Jersey, U.S.A., left in will a gift of 30,000 dollars to the Mandala for buildings, etc. Annual membership fees for various classes are Rs. 3, 6, 12, 25, 75, and 150 which can be compounded for life by paying, Rs. 50, 125, 250, 500, 1,500 and 3,000. Effective members over 1,000; Annual Income averages between 10 and 12 thousand rupees.

President : Malojirao Naik Nimbalkar ; *Vice-Presidents :* S. B. Dhavale, Sardar G. B. Patwardhan and Raja S. R. Panta Sachiva of Bhor ; *Chairman :* Mahamahopadhyaya Prof. D. V. Potdar, B.A. ; *Secretaries :* G. H. Khare, S. N. Joshi ; *Treasurer :* G. N. Mujumdar.

D. A. APTE MEMORIAL INSTITUTE
C/o B.I.S. Mandal, Sadashiv Peth, 313 A, Poona 2.

President : M. M. Prof. D. V. Potadar ; *Secretaries :* Prof. R. V. Oturkar, S. N. Joshi.

DECCAN COLLEGE POST-GRADUATE AND RESEARCH INSTITUTE
Yeravda, Poona 6.

The Institute is a constituent recognised institute of the Poona University. The property vests in the Deccan College Poona Trust created by the Government of Bombay in 1938. Its administration is vested in a Council of Management consisting of three ex-officio members and nine others nominated by Government. The Vice-Chancellor, Poona University, is the ex-officio Chairman of the Council.

The Institute conducts post-graduate research in Linguistics and History having in all eight chairs in these two subjects. In the department of Linguistics, the Institute has embarked upon a monumental project of preparing a Dictionary of Sanskrit on Historical Principles comparable to the great Oxford English Dictionary. Fundamental training in field methods and descriptive linguistics is also being given through organising of summer and winter schools of linguistics. In the department of History, Prehistoric Archaeology, Caste Surveys and Anthropometric work are some of the principal features.

The Institute publishes its researches in its Bulletin issued about four times a year and in the Monograph, Dissertation and Handbook series, as well as the *Vak*—a special bulletin of the Sanskrit Dictionary Department from time to time.

STAFF

Director.—Dr. H. D. Sankalia, M.A., LL.B., Ph.D. (London) ; *Readers.*—C. R. Sankaran, M.A., Dr. M. A. Mehendale, M.A., Ph.D., Dr. (Mrs.) I. Karve, M.A., Ph.D. (Berlin).

Director on special duty as General Editor-in-charge of the Sanskrit Dictionary Deptt.—Dr. S. M. Katre, M.A., Ph.D. (Lond.).

KAIVALYADHAMA SHREEMAN-MADHAVA-YOGA-MANDIRA SAMITI
Kaivalyadhama, Lonavla (C.R.).

Institute for teaching of and research in yoga. Students are paid stipends and no fee is charged. Only persons with a degree are accepted as students.

Director : Swami Kuvalayananda ; *Head of Philosophico-Literary Research Department :* Dr. S. A. Shukla, M.A., Ph.D., *Head of Scientific Research Department.* Dr. P. V. Karambelkar, M.Sc., Ph.D.

LINGUISTIC SOCIETY OF INDIA
C/o Deccan College, Poona 6.
(Head Office at Ashutosh Building, Calcutta).

Aims and Objects : The advancement of the Scientific study of language and the promotion of Linguistic studies in India.

President : Prof. T. P. Meenakshisundaram, M.A. ; *Treasurer,* Dr. S. M. Katre, M.A., Ph.D. (London) ; *Secretary :* Dr. M. M. Patkar, M.A., LL.B., Ph.D.

LORD REAY MAHARASHTRA INDUSTRIAL MUSEUM
Poona 2.

The affairs of the museum are managed by a Board of Trustees, which was incorporated by Bombay Act No. XXXII of 1947 and consists of 15 members.

GRANTS : Government of Bombay Rs. 20,500. Poona Municipal Corporation Rs. 7,500.

MUSEUM EDUCATION : Lectures on technical and industrial subjects are arranged for schools and the public with the help of visual aids. Show-cases containing diplays are circulated in schools.

TECHNICAL AND INDUSTRIAL LIBRARY : This has, on regular file, 200 periodicals and contains about 7,000 books. It is recognised by the Government of India, as an inspection centre for Patent literature. It has over 40,000 Patent specifications.

EMPORIUM OF ARTS AND CRAFTS : This is the Industrial and Commercial Division of the Museum established for the propagation of the well known Arts and Crafts and the Cottage Industry products from all over India.

MUSEUM OF AGRICULTURE AND FORESTRY : Classes in practical training in agriculture are conducted for school boys, and products of agriculture and Forestry, which are industrially important, are exhibited.

The Museum brings out several useful booklets about the various displays and allied subjects and several leaflets and booklets are collected and distributed gratis.

The Museum organises small but educationally important exhibitions such as artificial flowers, patents, tools, trade samples, books etc.

Curator : G. B. Sardesai, B.Sc. (Hons.), B.Sc. (Ind. Chem.).

LOCAL SPIRITUAL ASSEMBLY OF THE BAHA'IS OF POONA
P.O. Box No. 8, National Hotel, Opp. Railway Station, Poona 1.

POONA UNIVERSITY EMPLOYMENT BUREAU
Ranade Institute, Poona 4.

Chairman : Dr. Sir R. P. Paranjpye, M.A. (Cantab.), B.Sc., D.Litt.

CENTRAL HOSPITAL FOR MENTAL DISEASES
Yeravda, Poona 6.

Dr. I. K. Mujawar, M.B.B.S., D.M.S., Class I, *Superintendent* (Res. Tel. : 2514) ; Dr. B. M. Aireja, M.B.B.S., D.M.S., *Deputy Superintendent.* The institution admits patients suffering from mental diseases. The authorised accommodation is 1,297. The Hospital can be reached by bus, tonga, riksha or taxi from the Railway Station. Telephone No. 2515.

MAHARASHTRA MUDRAN SHALA
624, Sadashiv Peth, Poona 2.

Technical & Industrial School.

Chairman : Dr. G. S. Khair, M.A., Ph.D. ; *Superintendent :* D. D. Gangal., M.Sc. ; *Manager of the Promoter Printing Press :* Prof. S. D. Chitale., M.A., B.T.

VAIDIKA SAMSODHANA MANDALA
Tilak Smarak Mandir, Tilak Road, Poona 2.

A literary institution for the study, research and publication of Vedic and Iranian literature.

President. Dr. M. S. Aney ; *Vice-President :* MM. D. V. Potdar ; *Secretary :* N. S. Sontakke ; *Jt. Secretary :* C. G. Kashikar.

VANITA KAL NIKETAN
486, Budhwar Peth, Poona 2.

Lady Superintendent : Smt. Yesubai Digambar Kadu ; *President :* Shankar Govind Lombar ; *Secretary :* Vasudeo Digambar Kadu.

VIRUS RESEARCH CENTRE (INDIAN COUNCIL OF MEDICAL RESEARCH)
20A, Wellesley Road, Poona 1.

Director : Dr. Telford H. Work ; *Deputy Director :* Dr. Harold Trapido ; *Assistant Director :* Dr. R. S. Rao.

BENEVOLENT INSTITUTIONS

HINGNE STREE-SHIKSHAN SAMSTHA
Hingne Budruk, Poona 4.

Founded in 1896 by Dr. Dhondo Keshav Karve for social and educational work.

Branches :

Hingne Centre :—Mahilashram High School.
Parvatibai Training College for Women.
Anandibai Karve Primary School with a branch at Kothrud Village.

Four hostels for pupils belonging to all castes and creeds, rich and poor.

Poona : Nursery School.
Nursery Training Institution.

Satara : High School for Girls.
Wai : High School for Girls.
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Deficit of about Rs. 11,910 to be met from contributions.

Secretary, B. D. Karve.

INDIAN INSTITUTE OF SOCIAL ORDER
St. Vincent Street, Poona 1.

Aims and Objects :—To spread the social teachings of the Catholic Church ; to provide theoretical and practical training for social workers ; to serve as a centre of information about Catholic social works.

Its diploma in social service is now recognized by Government.

Director, Rev. A. Lallemand, S.J.

NAGARIK SANGHATANA SAMITI
Ration Godown, Lahore Shed No. 2, Poona 5.

A social welfare organisation interested in slum welfare.

President.—Mrs. N. D. S. Captain.
Gen. Secretary. - Mrs. Dwarki Motwani.

POONA ANATH VIDYARTHI GRIHA
624, Sadashiv, Poona 2 and Panchvati, Nasik.

It conducts free boardings, a free high school (Poona), free reading rooms, a T. B. sanatorium (Nasik) and some industrial concerns including the Loksangraha Press (Poona).

POONA SCHOOL & HOME FOR THE BLIND
14, Koregaon Park, Poona.

POONA SEVA SADAN SOCIETY
789-790, Sadashiv Peth, Poona City.

Its principal objects are :—(1) to impart to women instruction of a religious, literary, scientific, medical and industrial character and (2) to widen the range of their knowledge by various agencies and to make them self-reliant. The Society has a hostel in Poona accommodating about 200 women. There are 8 different departments. The total number of women on the rolls at the various centres of the society is about 3,000.

SASSOON HOSPITALS
Poona.

Founded in 1867 the hospitals comprise General, and Out-patient Departments and have 600 Allopathic beds and 20 Ayurvedic beds.

Persons whose income is below Rs. 180 p.m. are treated free. A Nursing Home caters for persons with income above Rs. 300.

SERVANTS OF INDIA SOCIETY, POONA 4.

Its objects are to train national missionaries for the service of India and to promote, by all constitutional means, the interests of the Indian people. Its present strength is 19. The Society has its headquarters in Poona with branches at Madras, Bombay, Allahabad and Nagpur, and other centres of work at Calicut in Kerala State ; Shendurjana in Madhya Pradesh ; Ambala in the Punjab (India), Cuttack and Raigada in Orissa.

The Society's work is primarily political but it has always laid equal emphasis on social, economic, educational, labour and depressed class activities and has worked in these fields.

The Society is also doing tribal welfare work in the Mirzapur Dist. (U.P.), Orissa and in Malabar* on a considerable scale. During recent years several members of the Society have paid special attention to rural reconstruction, including rural education.

Dr. H. N. Kunzru is the President, and S. G. Gokhale, the Secretary.

ASSOCIATIONS

MAHRATTA CHAMBER OF COMMERCE AND INDUSTRIES
Tilak Road, Post Box No. 525, Poona 2.

The Mahratta Chamber of Commerce and Industries, founded in 1934, is an institutional organization representing the economic, commercial and industrial interests of Maharashtra. It has its representatives among others on the Board of Trustees of the Lord Reay Mahrashtra Industrial Museum, Poona, State Industries Advisory Council, the Bombay Board of Communications, Bombay, Port Import Advisory Committee, Bombay, Poona University Court, Poona, Post & Telegraph Advisory Committee, Bombay, etc. Members of the Chamber are drawn from different parts of Maharashtra and a few from Gujarat, Karnatak and W. Bengal. Every year the chamber awards G. S. Parkhe Industrial Merit prizes and organises the G. P. Ogale Memorial Lectures on economic subjects. It also conducts a Marathi Magazine "The sampada."

President, S. L. Kirloskar ; *Working President*, D. V. Potdar ; *Vice-Presidents*, G. R. Sathe ; G. P. Upadhye, M. S. Parkhe. *Treasurer*, S. S. Marathe ; *Hon. Secretaries*, G. D. Apte, A. R. Bhat. ; *Asstt. Secretary* : D. N. Deshpande.

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185, Bhavani Peth, Poona 2.

President : Uttamchand Bhikamdas Pokarna ; *Vice-President* : Mahadeo Balkrushna Sathaye ; *Secretary* : Chimanlal Panachand Shah ; *Jt. Secretary* : Kuberdas Dayashankar.

POONA PRESS OWNERS' ASSOCIATION LTD.
1078 Sadashiv, Poona 2.

Present Membership is 122. It conducts a Marathi Monthly *Mudran Prakash* which discusses problems relating to the industry and maintains a Printers' Library. It also conducts for the members "Mudran Sahitya Bhandar", a shop of printers' requisites. It also manufactures "Service Roller Composition" of all grades for the printers.

President : K. L. Munot ; *Vice-President* : R. N. Sarnaik ; *Secretaries* : V. A. Badve, V. G. Mathe.

MAHARASHTREEYA MANDAL
(Estd. 1924).
Tilak Road, Poona 2.

Aims and Objects :—**The aims and objects of the institution is to promote and spread physical education.**

The Mandal conducts Physical Training Classes, Swimming Classes, Rifle Club and Coaching Classes for entry to the National Defence Academy.

Fees & Memberships—Patron (Rs. 1,000), Life-member (Rs. 500), Benefactors (Rs. 250), Permanent Member (Rs. 101).

President —Dr. R. P. Paranjpye.

CLUBS

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GAMES & AMENITIES. -Tennis, Golf, Hockey, Badminton, Billiards, Cricket, Swimming, Squash, Dancing, Bridge, etc.

President — V. M. Mirchandani, I.C.S.

Honorary Treasurer - J. N. Sabavala.

Honorary Gen. Secretary. D. A. Sethna.

DIOCESE OF POONA (Catholic Church)

His Excellency the Right Rev. Andrew D'Souza, D.D., Bishop of Poona.

Rt. Rev. Mgr. R. Gonsalves, *Vicar-General* ; Very Rev. G. Britto, S.J., *Vice Provincial*

SPINNING AND WVG. MILLS

RAJA BAHADUR MOTILAL POONA MILLS, LTD. (formerly **Poona Cotton & Silk Manufacturing Co., Ltd.**), Spindles 25,420, **Looms 567** ; *Agents* : **Mukundlal Bansilal & Sons**, Hamam House, Hamam Street, Fort, Bombay. **Mills at 5, Raja Bahadur Motilal Road, Poona 1.**

† ‡ **RAJA RAGHUNATHRAO MILLS**, Spindles 852, Looms 17, **Owners. Maharashtra Textiles, Ltd. Office on Mill premises. Mills at Bhor**, P.O. Bhatgar, Dist. Poona.

† **SHRI LAXMI TEXTILE MILLS LTD.**, Spindles 4,176, Looms Bhor Mercantile Agency Ltd. Office on Mill premises. Mill at Bhatgar, Dist. Poona.

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* Kerala. ‡ Proprietary Concern. † Figures taken from 1956 statement.

COMMERCIAL FIRMS

Abbas Electric Works, 2065, Jan Mohamed Street, Poona.

Abbasbhoy Kadarbhoy, 199, Raviwar Peth, Poona.

Abdool Rehman H. O., 313, Mahatma Gandhi Road, Poona.

Anant Vaman & Co., Deccan Gymkhana, Poona.

Bank of Maharashtra Ltd., P.O. Box No. 14, Poona City.

Bombay Cycle and Motor Poona Agency, 6, Arsenal Road, Poona.

Bombay Garage (Poona) Private Ltd., 11, Elphinstone Road, Poona 1.

Bombay Swadeshi Co-operative Stores Co. Ltd., Mahatma Gandhi Road, Poona.

Central Cloth Stores, 484, Budhwar Peth, Poona.

Chinoy & Co., D A, 314, Mahatma Gandhi Road, Poona 1.

Chitrasala Printing Press, 1026, Sadashiv Peth, Poona 2.

Commercial Printing Press, East Street, Poona 1.

Commonwealth Assurance Co., Ltd., 980, Sadashiv Peth, Poona.

Cornaglia & Co., 22, Wellesley Road, Poona.

Crown Coal Co, Colliery, 344, Sardar Moodliar Road, Poona.

Damodardas Bhagwandas Sugandhi, 761, Raviwar Peth, Poona.

Date Type Foundry, 395 2B, Sadashiv Peth, Poona 2.

Deccan College Post Graduate and Research Institute, Poona

Deccan Paper Mills Co. Ltd, Laxmi Road, Poona.

Deccan Talkies, Fergusson Road, Poona.

E Cornaglia, 22-23, Wellesley Road, Poona 1.

Flashlight Paints Ltd, 278, Narayan, Poona.

Gandalbhai Hathibhai & Co., 585, Raviwar Peth, Poona 2.

Gandhi & Co., 40, Shukrawar, Poona 2.

H L Dosani, 518, Nana Peth, Poona City. Grams: "DOSCO."

Indian Hume Pipe Company Ltd, Parne Road, Poona 2.

Indian Maternity and Child Welfare Centre, kirkee, Poona.

Indian Real Estate Corporation Ltd., 1180, Raviwar Peth, Poona.

Indo-Foreign Stores, The, 289 & 292, Mahatma Gandhi Road, Poona 1.

International Agricultural Industries, near Reay Market, Poona 2.

Jaffer Jessuff, Furnisher and House Agent, East Street, Poona.

Jawa Distilleries & Sugar Factories Ltd., P.O. Box No. 537, Poona 2.

Kalyan Company, 460, Budhwar, P.O. Box No. 537, Poona 2.

Kamalyalal Purshottamdas & Brothers, Laxmi Road, Poona.

Kamchand Dayal & Sons, 538, Centre Street, Poona.

Kamlashankar P. Joshi, 727, Bhavkar Garage, opp. Shivaji Statue, Shivaji Nagar, Poona 5.

Karandikar Rajhansa & Co., 87, Mahatma Gandhi Road, Poona 1.

Karwa & Co., 1180, Raviwar Peth, Poona.

K. Asgarally & Co, 361, Raviwar Peth, Poona-2.

Kirkee Water Works, Bombay Road, Poona.

Kuckreja & Co., Mahatma Gandhi Road, Poona.

L. Ebrahim & Co., Kerosene Oil Merchants, 343, Raviwar Peth, Poona.

Laxmi Motor Service, 182, Shivaji Nagar, Poona.

Lokasangraha Works, 624, Sadashiv, Poona 2.

Long Life Insurance Co., 180, Budhwar Peth, Poona.

Loyal Motor Service, 267, Budhwar Peth, Poona.

Macedo & Co., Chemists & Druggists Budhwar Peth and Mahatma Gandhi Road, Poona

Mahadeo & Co, Chemists, near City Post Office, 504, Sadashiv Peth, Poona.

Modern Drug House, 432, Narayan, Poona 2.

Modern Hindustan Food Products Co, Ltd., 13, Koregaon Park, Poona.

Morris and Lucas, Service Station, East Street, Poona.

Motichand & Co, Deccan Gymkhana, Poona.

Motor Owners' Mutual Assurance Co., Ltd., 974, Laxmi Road, Poona.

Nagindas Dayalal & Co., 275-76, Main Street, Poona 1.

N. Cooper And Company, No. 3 Queen's Garden, Poona.

New Western Motor Transport Ltd., 32, Shankerseth Road, Poona.

N. Mahadeo & Co, Near City Post Office, Poona 2.

Nusservanji Sorabji & Co., 94, Mahatma Gandhi Road, Poona 1

Optique (India), 337, Budhwar Peth, Poona 2.

Oriental Government Security Life Assurance Co., Ltd., Laxmi Road, Poona.

Painter Bedekar, A. G., Budhwar Chowk, Poona 2.

Pallonjee Eduljee & Sons, 326, Mahatma Gandhi Road, Poona.

Panchgani Motor Service, 13, Arsenal Road, Poona.

Paranjpe & Sons, 495, Shanwar Peth, Poona

Pioneer Dyeing House Ltd, 625, Sadashiv Peth, Poona 2.

Poona Armoury, Mahatma Gandhi Road, Poona.

Poona Automobiles, 177, Laxmi Road, Poona.

Poona Central Co-operative Bank Ltd., Poona 2.

Poona Cheap Stores, 256, Mahatma Gandhi Road, Poona 1.

Poona Drug Stores, 324, Mahatma Gandhi Road, Poona.

Poona Electric & Radio Stores, 2, Shukrawar Peth, Poona.

Poona Hardware Corporation, 6, Mahatma Gandhi Road, Poona.

Presidency Industrial Bank Ltd., 10, Budhwar Peth, Poona City

Ranade & Sons, Ltd., 101, Shukrawar Peth, Poona.

Rashid Khodadad & Co., 1, East Street, Poona.

Reliable Iron and Hardware Stores, 192, Raviwar Peth, Poona.

Ruston's Connaught Motors, Bund Garden Road, Poona.

Sanghavi Moti Bawa & Co., Bungalow No. 6, Plot No. 30, Shivaji Nagar, Poona.

SATHE BISCUIT & CHOCOLATE CO., LTD., 820, Bhawani Peth, Poona 2. Manufacturers of quality Biscuits, Cocoa and Chocolates.

Sathe Sports, Sports Outfitters, Deccan Gymkhana, Poona.

SAVLEY & COMPANY, Poona 2 (India). Manufacturers of Office files, Envelopes & Stationery, Importers of Paper, Sewing Machines, Cycles and their parts; Phone 2529, Grams: "SAVLECO."

Shahabad Cement Depot, Cement, Hardware & General Merchants, 655, Sachapir Street, Poona 1.

SHAHABAD STONES CO., Stones, Tiles, Sanitary Wares, Pipes and Fittings, 1723, Shukrawar Peth Poona.

Shah Motaji Raghunath & Co., Bhavanipeth, Poona

Shanker Ramchandra & Brother Poona 1.

Shri Sideshwar Electric Co., 480, Budhwar Peth, Poona.

Silver Jubilee Motors Ltd., Arsenal Road, Poona.

South British Insurance Co., East Street, Poona 1

Southern Knitting Works Ltd., 264, Shanwar Peth, Poona.

Standard-Vacuum Oil Co., Ltd., Kennedy Road, Poona.

Studio International, 37, Mahatma Gandhi Road, Poona.

Tiffany Cycle Co., 582, Sachapir Street, Poona.

Vishu Ravaji Kulkarni, 21, Bhawani Peth, Poona 2.

Vishwanath & Co., 1735, Shukrawar Peth, Poona

V R Ranade & Sons Ltd., 101, Shukrawar Peth Poona 2

Vulcan Insurance Co, 179, Laxmi Road, Poona.

Western India Automobiles Ltd., Laxmi Road, Poona.

William & Co., East Street, Poona.

CLASSIFIED LIST OF TRADES AND PROFESSIONS

ARMS AND AMMUNITION DEALERS

Narainbdas Deepchand & Sons, 7, Arsenal Road, Poona (Cantt.).
Poona Armoury, Mahatma Gandhi Road, Poona 1.

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D. Macedo & Co., Chemists & Druggists, 250/51, Mahatma Gandhi Road and 251, Budhwar Peth, Poona.
Kalyan Company, 460, Budhwar Peth, P. O. Box No. 537, Poona 2.
Madhav & Co., Deccan Gymkhana, Poona 4.
N. Mahadeo & Co., Chemists, near City Post Office, Poona.
S. P. Gokhale & Co., 815, Sadashiv Peth, P.O. Box No. 548, Poona 2.

CLOTH MERCHANTS

General Cloth Stores, Wholesale and Retail Dealers, 484, Budhwar Peth, Poona.
Gogalbhai Hathibhai & Co., Wholesale and Retail Cloth Merchants, Raviwar Peth, Poona 2.

Phone : 3021. Estd. : 1926.
Prop. : S. M. SHAH
THE INDO-FOREIGN STORES
289 & 292, Mahatma Gandhi Road, Poona 1.
Government Contractors
Benares & Mysore Sarees, Blouse Pieces, Silks, Cloths, Carpets, Durries, etc.

MAHARASHTRA STORES, 463, Budhwar Peth, Poona 2.
Pioneer Dyeing House Ltd., 625, Sadashiv Peth, Poona 2.

CONFECTIONERS

Chugal Confectionery Works, 456, Guruwar (Vetal) Peth, Poona 2.
J. P. Mangatram & Co., 452, Guruwar (Vetal) Peth, Poona 2. Phone : 3568 (2 Lines).
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K. Asgarally & Co.—361, Raviwar Peth, Poona No. 2.
Poona Commercial Corporation, 371, Raviwar Peth, Poona 2.

NEWSPAPERS & PERIODICALS

"AKHAND BHARAT"	Weekly	Marathi.
"ARTHA"	Do.	Do.
"BHARAT"	Daily	Do.
"BHARATIYA PRAVASI"	Fortnightly	Do.
"CHITRAMAYA JAGAT"	Monthly	Do.
"DALIT BANDHU"	Weekly	Do.
"DINBANDHU"	Weekly	Anglo-Marathi.
"DNYANODAYA"	Weekly	English.
"EASTERN TIDINGS"	Fortnightly	Do.
"GOVARDHAN"	Monthly	Marathi.
"GRAMRAJYA"	Do.	Do.
"INDIAN ARMY ORDNANCE CORPS GAZETTE"	Do.	English.
"JAIN JYOTI"	Monthly	Marathi.
"JANAVANI"	Weekly	Do.
"KAL"	Daily	Do.
"LOKARAJYA"	Do.	Do.
"LOKASHAKTI"	Do.	Do.
"LOKVARTA"	Do.	Do.
"MAHATMA"	Monthly	Do.
"MANVANTAR"	Daily	Marathi.
"NALVAZHI (GOOD WAY)"	Monthly	Tamil.
"NASIM-E-SAHER"	Do.	Gujarati.
"POONA DAILY NEWS"	Daily	English.
"PRABHAT"	Daily & Weekly	Marathi.
"PRIZE WINNER"	Fortnightly	English.
"RAJASTHANI VIR"	Do.	Hindi.
"SAKAL"	Daily	Marathi.
"SAMPADA"	Monthly	Marathi.
"SANDHYA"	Daily	Marathi.
"SANGHATITA MAHARASHTRA"	Monthly	Marathi.
"SARASWAT JIVAN"	Do.	Gujarati.
"SARATHI"	Weekly	Marathi.
"SUNDAY SAKAL"	Do.	Do.
"SWARAJYA"	Do.	Do.
"VYAPARI MAHARASHTRA"	Fortnightly	Marathi.
"WAR CRY"	Monthly	English.
"YUGANTAR"	Weekly	Marathi.

PAINTS, ENAMELS & VARNISHES

Flashlight Paints Ltd., Office : 278, Narayan, Poona 2.
Shahabad Stone Co, 1723, Shukrawar Peth, Poona.

PHOTOGRAPHERS

Bhat's Photo Stores and Studios, Laxmi Road, Poona 2.
Dikshit's Photo Studio, Tilak Road, Poona 2.

Phone No.:
2138 - Poona.

SHREE

Grams:
SHREE POONA, AKLUJ

THE BRIHAN MAHARASHTRA SUGAR SYNDICATE LTD.

Head Office :

980, Sadashiv Peth, Laxmi Road, Poona 2.

Factory :

Shreepur, via Akluj, Distt. Sholapur.

Manufacturers of :

PURE CRYSTAL SUGAR AND
RECTIFIED & DENATURED SPIRIT

Authorised Capital: Rs. One Crore

(1) The Syndicate possesses good lands and secures average yield of Sugarcane as high as 45 tons per acre for Plant Cane and 60 Tons per acre for Adsali Cane.

(2) The Syndicate owns a new Semi-electric Sugar Manufacturing Plant of 1,000 Tons daily crushing capacity.

(3) Daily production is 1,200 bags of crystal sugar of good quality and lustre.

(4) Annual production of sugar is in the neighbourhood of two lacs bags.

(5) In addition, the Syndicate's Distillery has started working and is producing Rectified Spirit and Denatured Spirit of over 67 O.P. in strength and of water-white quality.

(6) The Company has paid every year 10% dividend on the Ordinary Shares since 1942 to 1957 except for the years 1952 and 1953.

(7) This factory has been successfully run on the Capital invested by People of Maharashtra and is truly the Pride of the Common Class.

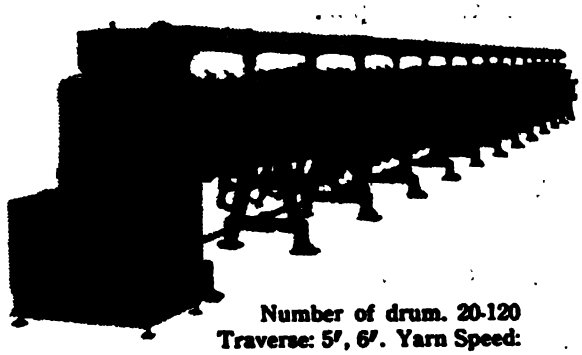
Always insist on our "SHREE" Sugar.

S. L. Limaye, B.Sc., LL.B.,
CHAIRMAN

Patented MS High Speed

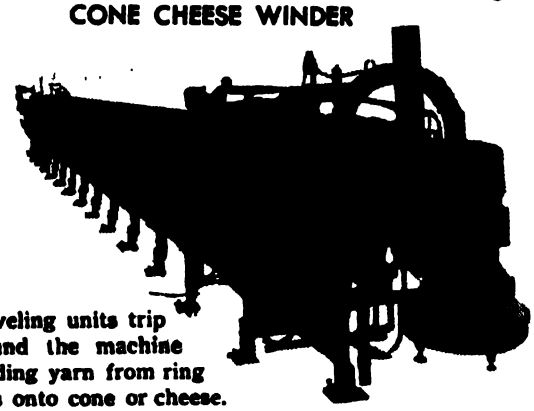
JACQUARDS & AUTO-WINDERS

#12 SUPER SPEED CONER



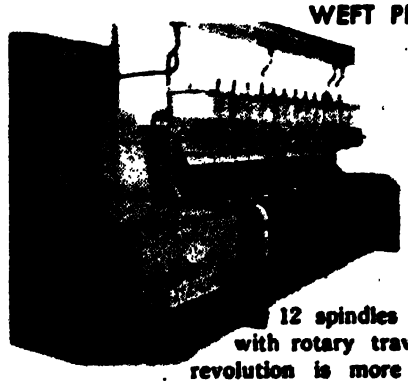
Number of drum. 20-120
Traverse: 5′, 6′. Yarn Speed: 650 yds/min. economical.
Package: Max. 8′ weighing approx. 6 lbs.
Drum: Uniquely designed rotary traverse motion made of Hard Bakelite.

#66 MURATA-ABBOTT FULLY AUTOMATIC CONE CHEESE WINDER



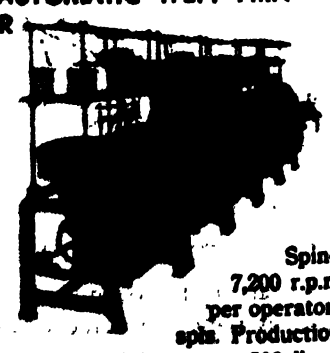
Traveling units trip around the machine winding yarn from ring cops onto cone or cheese.
The operator has only to put the ring cops into the magazine in front of him and to take off full package, sitting at the same position.
No. of spindles: 100-220. Yarn speed: approx. 650 yds/min. economical.

#220 SUPER SPEED FULLY AUTOMATIC WEFT PIRN WINDER



12 spindles a set. Equipped with rotary traverse yarn guide, revolution is more than 10,000 per minute. When the pirn is full, replacement of bobbin will be done within 2 seconds on respective spindle automatically.

#100 FULLY AUTOMATIC WEFT PIRN WINDER



Spindle speed: 7,200 r.p.m. Spindle per operator: max. 96 spls. Production per operator per 8 hrs: over 500 lbs. of cotton yarn, 40's. The full pirns are replaced within 3 seconds automatically. Automatic stop motion and bunch builder work accurately.

MURATA TEXTILE MACHINE CO., LTD.

103, Ochiai-cho, Kisyoin, Minami-ku, Kyoto, Japan

RATNAGIRI DISTRICT

Headquarters : Ratnagiri.

Talukas : Dapoli, Mandangad, Khed, Chiplun, Guhagar, Sangameshwar, Ratnagiri, Rajapur, Devgad, Sawantwadi, Malwan.

Petas : Lanja, Vengurla, Kankavli, Kudal.

Ratnagiri District is bounded on the north by the Kolaba District; on the east by Satara North and Kolhapur Districts; on the south by the Portuguese possession of Goa; and on the west by the Arabian Sea. By the merger of the Sawantwadi State the area and population of the District have greatly increased. The length of the District is about 230 miles, and the breadth between 30 and 40. The District may be described generally as rocky and rugged. Near the coast the land consists of a bare elevated plateau, intersected by numerous creeks and navigable rivers flowing between steep hills. These rivers have along their banks the chief sea-ports and almost all the fertile land of the District. Ten miles or so inland, the country becomes more open; but going in still farther, it is occupied by spurs of the Sahyadri hills. This range itself forms a continuous eastern boundary, running parallel to the coast, at distances varying from 30 to 45 miles. It varies in height from 2,000 to 3,000 feet, though some of the peaks attain an altitude of 4,000 feet. The banks of the rivers produce fine crops of rice in the rains, and of pulse in the cold weather and some of the inland valleys exhibit the utmost fertility even though the soil is, as a rule, poor and barren. The District is densely populated and a large proportion migrate to Bombay in the fair season. The hill slopes are flooded with plantation of Alphonso and other mango grafts. Alphonso mango, the king of fruits, is exported on a very large scale to Bombay and other markets and forms the main money crop of the District. Ratnagiri, the headquarters town, is open and faces the sea. There is no railway connection, and communication is by steamer with Bombay and by motor with Kolhapur 82 miles away. With the construction of the Bombay-Konkan-Goa road by bridging all the rivers and creeks on the way, Ratnagiri is connected with Bombay by direct bus service *via* Chiplun, Mahad, Dharamtar, etc. This is the only main line of communication in the rainy season and will be turned into a national highway and cement concreted. This transport service is now taken over by the State

The area of the District is 4,983 sq. miles. The population of the District (according to the 1951 census) is 1,711,964.

OFFICIALS

Collector and District Magistrate, R. F. Boga, I.A.S.
Additional Collector, Y. S. Kashekar, I.A.S.
District and Sessions Judge, A. T. Zambre.
District Superintendent of Police, Sayeed Munzur Hussein

EDUCATIONAL INSTITUTIONS

Alfred Gadney High School, Dapoli.
United English School, Chiplun
Patwardhan High School, Ratnagiri.
Phatak High School, Ratnagiri.
R. B. Shirke High School, Ratnagiri.
Rajapur High School (composite), Rajapur.
Shet Mafatlal Gavalbhai High School, Devgad.
Anant Shiwaji Desai Topiwala High School, Malwan.
Bhandari Education Society's High School, Malwan.
Kudal High School, Kudal.
Rani Parvatidevi High School, Sawantwadi.
N. A. S. D. Vidyalaya, Walawal.

TRADE ASSOCIATIONS

Shirke Transport Service, Proprietors—R. B. Shirke Brothers.
Hotel Owners' Association President B. G. Karkare.
Merchant's Association, Ratnagiri

CLUBS

Akhil Chitpavan Brahman Vidyarthi Sahayak Mandal, Ratnagiri.
Bhajani Mandal, Ratnagiri.
Mahila Mandal
Sangeet Mandal.
Rotary Club
Sarvodaya Chhatralaya, Ratnagiri

SABARKANTHA DISTRICT

Headquarters : Himatnagar.

Talukas and Mahals : Himatnagar, Prantij, Modasa, Bayad, Idar, Khedbrahma, Bhiloda, Meghraj, Vijaynagar, Malpur

The Sabarkantha District is comprised of the former Idar State and 26 other smaller States, together with Prantij Taluka and Modasa Mahal, formerly in Ahmedabad District. It is bounded on the north by Sirohi and Mewar (both in Rajasthan), on the south by Ahmedabad and Kaira Districts, on the east by Dungarpur, Banswara and Mewar all of Rajasthan and Lunawada and Balasinor, now merged with the Panch Mahals and Kaira Districts, and on the west by the new Mehsana District of the former Baroda and Danta States.

The Aravalli Hills border on the north and east. The chief rivers in the District are Sabarmati, Hathmati, Meshwa, Vartak, Mazum and Khari.

The area of Sabarkantha is about 2,447 sq. miles and the population 684,017 according to the 1951 census. Himatnagar, the headquarters of the District, was the capital of the former State of Idar and is situated at a distance of 55 miles from Ahmedabad on the Ahmedabad Prantij section, a metre gauge line, on the Western Rly., which leads upto Khedbrahma, a place of pilgrimage 90 miles from Ahmedabad. Idar, Khedbrahma, Shamlaji, Bhavnath, etc. are places of pilgrimage and historical importance.

The average yearly rainfall is between 25 and 30 inches. About 95 per cent of the land is dependent wholly on rain water, while only about five per cent is irrigated by water from wells, streams and canals.

The principal crops are bajri, maize, paddy, jawar, cotton, wheat sesamum and groundnut, of which maize, bajri, groundnut and cotton cover the larger area under cultivation. About 30 per cent. of the people consist of Bhils and other backward classes. The main occupation of the people is agriculture. The north and north-eastern parts of the District are hilly tracts and abound in jungle. Except for a few ginning factories and oil mills, the District is very backward in industry.

On the Ahmedabad Prantij section of the Western Railway, are situated the following District and Taluka headquarter towns, *viz.* Prantij, Himatnagar, Idar and Khedbrahma. The rest of the taluka headquarters are connected by buses which ply only during the fair season and most of the roads are katcha and sandy.

The talukas of Bhiloda and Modasa have been brought under the N. E. S. Scheme while the Khedbrahma Taluka and Vijayanagar Mahal, which are scheduled areas, have been brought under the Development Project Scheme.

OFFICIALS

Collector and District Magistrate, J. K. Gohel, I.A.S.

District Superintendent of Police, H. K. Vasavada.

(For judicial purposes Sabarkantha and Ahmedabad are one District).

SATARA NORTH DISTRICT

Headquarters : Satara.

Talukas and Mahals : Wai, Satara, Koregaon, Khatau, Karad, Patan, Jaoli, Man, Phaltan, Khandala, Mahableshwar.

On the north it is bounded by the former State of Bhor and Poona District, on the south by Walva Taluka and Shirala Mahal, on the east by the Sholapur District, and on the west by the Sahyadri Hills. The former States of Phaltan and Aundh are merged into the Satara Collectorate.

The population of the District according to 1951 census is 1,175,309 and its area 4,023 sq. miles. The language spoken is Marathi.

From Mahableshwar in the north-west corner of the District, 4,717 feet above the sea, start two hill ranges of equal height and nearly at right angles to each other—one the main range of the Sahyadri running towards the south and forming the western boundaries of the District and the other, the Mahadeo range of hills, which, going first in an easterly and then in a south-easterly direction, extends towards the eastern boundary, where it sinks gradually into the plain. These hills throw out numerous spurs over the District, forming the valleys of the several streams which make up the head-waters of the Krishna, one of the largest rivers in South India. Near Mahableshwar and in the Koyna valley the hills are the highest in the District and are mostly very well wooded.

The soils of the District belong to the three main classes—red in the hills and black and light coloured in the plains. The black soil, especially along the valley of the Krishna, is fertile but scanty rainfall makes part of Khandala tract in Wai Taluka and that part of the District east of the railway most likely to suffer from failure of crops.

AGRICULTURE

The chief agricultural produce are jawar and bajri. Others include ragi, wari, wheat, rice and pulses. Cash crops which are a minor item include tobacco, groundnut and sugar-cane. Some market gardening is done at Mahableshwar and Panchgani for Poona and Bombay markets. Mango, jack and guava are grown for their fruit.

Forests in the Sahyadri range have considerable store of timber and fire-wood. Sandalwood and bamboo are occasionally found.

Government have undertaken the Koyna river project envisaging the construction of a gigantic Dam close to Helwak village (Patan Taluka) water from which can be used for agricultural purposes by people from Satara, Sholapur and Bijapur Districts and for generating electricity for industrial purposes.

Most Taluka towns have High Schools and practically every village has a Free Primary School run with Grant-in-aid. The 'Rayat Shikshana Sanstha', Satara, is doing useful work in this sphere with its Free Cosmopolitan Boarding at Satara, accommodating over four hundred students mostly from rural areas.

This being a martial District, Free Boardings are run by Government at Satara and Karad for the sons and dependents of the Defence Forces in the Army, Navy and Air Forces. 'The After Care Association' and 'The Soldiers' Board' do useful work under the supervision of the Collector.

The main line of communications is the Southern Railway which traverses the centre of the District for about 90 miles from north to south. Satara, the headquarters, is about 10 miles from Satara Road Station. Then there is the Poona-Bangalore Road, crossing the District from north to south. Other important roads include the Wathar-Mahableshwar Road *via* Wai and Panchgani. Also east to west are the Satara-Pandharpur and the Karad-Chiplun Roads. There are numerous feeder roads for the railway.

There is a large engineering concern manufacturing farm implements, machine tools, and textile machinery at Satara Road Station. Another engineering concern has been established at Udyamnagar near Karad while the one at Karad proper has been expanded with State aid. At Ogalewadi near Karad are the well-known glass works. The Sugar Works at Phaltan also deserve special mention. The Plastic Products of India, Ltd., Satara, a new industry, in the Deccan, has secured State aid.

The State Transport buses now ply on all important roads in the District.

OFFICIALS

Collector and District Magistrate, M. B. Salvi, I.A.S.

District and Sessions Judge, V. D. Jeste.

District Superintendent of Police, A. R. Braganza, I.P.S.

DECCAN EDUCATION SOCIETY'S NEW ENGLISH SCHOOL SATARA

The school provides for a variety of cultural subjects and with the help of Government Centres, provides also for technical and commercial courses upto the S.S.C. Examination. The strength of the school is over 1,400.

Superintendent : Dr. D. N. Gokhale, B.A. (Hons.), B.T., Ph.D.

DHARMAKOSHA MANDAL

P.O. Wai, District North Satara.

Aims : To conduct research in ancient Indian religion, philosophy and culture and edit and publish encyclopaedic works such as Dharmakosha, Mimamsakosha, etc.

Editor-in-Chief : Laxman Shastri Joshi, Tarkateerth.
Secretary : Vasudeo Shastri Konkar.

PRATAPSINH HIGH SCHOOL, SATARA

It is a multi-purpose high school teaching vocations like Agriculture, Technical and Commerce. Pupils are trained in the practical side of Agriculture and subsidiary industries like poultry keeping and dairying. Also pupils are trained in Technical, Commerce courses and Typewriting. Special features of the school are that the school owns an Agricultural Farm of 22 acres, Agricultural Museum and well equipped library. It is a Government multi-purpose school

RAYAT SHIKSHAN SANSTHA, SATARA

(Educational Society for Masses)

Objects & Scope :—To spread education, primary, secondary and higher, among rural masses and particularly poverty-stricken backward and Scheduled Class communities, on the basis of self help and as far as possible free of charge.

It conducts two Arts Colleges, one B.T. College, six Primary Training Colleges, 37 High Schools, 36 Middle Schools, 64 Primary Schools, 26 Cosmopolitan Boardings and six other institutions in the districts of Maharashtra.

NAGAR VACHANALAYA, SATARA

There are at present 4,657 English, 5,832 Marathi, 580 Hindi and 122 Sanskrit books. The library subscribes to a large number of periodicals including dailies and weeklies from various States. There is a special section for children and ladies. A study room for college students has also been started.

THE SATARA EDUCATION SOCIETY, SATARA

The Society runs two full-fledged High Schools, the Pratap English School, Satara, and Shri Laxmi Narayan English School, Khatau and a Model Primary School at Satara. Technical education has been recently introduced in P. E. School and the first batch of technical subjects was to appear for the S.S.C. Examination in March 1958. The School buildings at Satara and Khatau are under construction.

THE SHIKSHAN MANDAL, KARAD

Maintains (1) The Tilak High School, Karad. (2) Kanya Shala, Karad. (3) The Nutan Marathi Shala (4) Pal Vidyalaya, Walwa.

SATYABHAMABAI KALE STREE SHIKSHANA MANDIR, SATARA

The Kanyashala (a high school for girls) and Mahilasadan (adult classes) are managed by the Association. There are about 650 girls in the High School studying for the S. S. C.

Bal Manohar Mandir, a pre-primary School, has been attached to this School. "Mahila Mandal" is a ladies' club. A Hindi Shikshak Sanad is also conducted.

Superintendent.—P. V. Gole, B.Sc., B.T.

INSTITUTIONS

SITA RAMCHANDRA VEDIC DHARMA PRASARAK MANDAL KANHERE TRUST, SATARA

The trustees run an "AGNIHOTRA" (Sacred Fire Temple) and "Ved Parayan Mandir" (place for daily recitation of the Vedas) by learned Vedic priests. A small school for coaching students, with stipends, in higher Vedant Philosophy is maintained under the guidance of learned pandits. *Board of Trustees :* B. R. Rajopadhye, Pleader (*Chairman*).

THE VYAYAM MANDAL, SATARA

It is a Govt. recognised Physical training registered institution, availed of by students and adults. In appreciation of its long service in the field of physical education, the institution has been permitted to start a C. P.ed course. It was inaugurated by Mr. Y. B. Chavan, Chief Minister of Bombay on 16th August 1957, the 1857 Centenary day and was named Kranti Smriti Shareerik Shikshan Vidyalaya

MAHABLESHWAR

Mahableshwar in the Satara North District is called the queen of the hill stations in Bombay State. It is situated on one of the great slopes of the Sahyadri range at an elevation of 4,700 feet above sea-level. During the 8 months from October to May the climate is most agreeable. By day the temperature varies between 80 and 86, while the nights are cool and pleasant. But during the monsoon the rainfall is so heavy, the average being about 250 inches a year, that the place is almost uninhabitable. The whole place is picturesque in the extreme and there are a number of excellent walks and drives which give access to beauty spots, some of which contain interesting monuments. One of the things for which the place is famous is fruit especially raspberries and strawberries.

It is possible to have separate furnished rooms, cottages, and bungalows at a cheap rent in the town.

The town contains many bungalows but as the official visit of the Governor has been in suspension for the last few years, Government House and other quarters remain vacant.

It is now possible for people of moderate means to go to the hill station for a comparatively inexpensive holiday and change in the newly opened Holiday Camp set up by the Bombay Government. The Camp is located in the Government House property on the way to the Bombay Point and one-room, two-room and three-room accommodation is available to the public at purely nominal rent. The stay of visitors at the Camp is limited to one week so that the facilities offered are taken advantage of by as many people in need of a change as possible.

The Camp is served by a vegetarian canteen, tap water and electric lighting. It is normally thrown open during the months October to May, and applications for accommodation have to be addressed to the Executive Engineer, Poona Division, Poona.

There are several routes to Mahableshwar but the most popular is the one starting from Poona, from where it is only 75 miles. The journey which is both convenient and cheap takes only 4 hours.

HOTELS

Hotels are open only eight months in the year and are closed during the monsoon.

Azam Lodging & Boarding House.

Dream Land Hotel.

Fredrick Hotel.

Guest House.

Happy Home.

Krishna Bhuvan Hotel.

Paradise Hotel.

Race View Hotel.

Rippon Hotel.

PANCHGANI

Panchgani is a well known hill station in Satara North District, 63 miles from Poona. It is 4,300 feet above sea-level and has a cool, salubrious and comparatively dry climate. The average rainfall is about 80 inches a year. Panchgani is thus a well known sanatorium.

The town abounds in beauty spots. It is, however, best known for its table-land, which is a very extensive plateau 4,550 feet above sea-level. The table-land covers 99 acres of ground with a small lake in which people can have a swim.

At the foot of the table-land there is a municipal public garden.

Panchgani is habitable throughout the year, and there are excellent shops for provisions and oilman stores. Poultry, fowl and eggs are all very cheap. The town is electrified and the roads are well lighted.

Panchgani can be reached from Poona from where there is regular bus service.

The town has a large and up-to-date tuberculosis sanatorium—Bel Air Sanatorium.

SCHOOLS

Panchgani is famous for its schools. They all have their own buildings with laboratories, dormitories and hospitals.

St. Joseph's Convent High School for Girls.

Kimmins High School for Girls.

Sanjivan Vidyalaya.

Edhimoria High School.

Union High School.

New Era School for Girls.

St. Peter's High School.

Young Zoroastrian School for Girls.

ST. PETER'S BOYS' HIGH SCHOOL

Panchgani.

The School has accommodation for about 150 boarders as well as the Principal, staff and matrons.

Special facilities are provided for all kinds of games. Educational equipment includes a talkie film projector.

Principal :—O. D. Bason, M.A.

TRADES & PROFESSIONS

Abhang Agency, Satara City.

ADURJEE & BROS., House Agents, Mahableshwar (N. Satara); Phone : 50.

Alankar Kala Mandir, Moti Chowk, Satara City.

Central Stores, Corner House, Bhawani Peth, Satara City.

Deccan Dental Co., Satara City.

Gajanan Restaurant, Satara, Moti Chowk, Satara City.

Hanmant H. Pendse, Iron & Hardware Dealers, Satara City.

The Imperial Stores, Kakade Building, Satara City.

Khadilkar Bandhoo, Moti Chowk, Satara City,

Laxmandas Sarvottamdas & Co., Satara City.

Mangal Bhandar, Majgaon Mansion, Somwar Peth, Satara.

The Manik Soap Works, Karad, Satara.

Plastic Products of India Ltd., 251, Bhavani Peth, Satara City.

Sanghavi Brothers, Satara City.

Sanghavi Oil Mills, Post Vaduth, *via* Satara Road (Dist. Satara).

Vijaya Printing Press, Vijaya Cottage, Satara City.

Western India Stores & Distributors Ltd., Satara City.

SATARA SOUTH (SANGLI) DISTRICT

Headquarters :—Sangli.

Sub-Divisions :—Miraj, Khanapur.

Talukas and Mahals :—Miraj, Tasgaon, Walwa, Khanapur, Jath, Shirala (Mahal).

With the merger of sixteen Deccan States in Bombay State on March 8, 1948, arose the necessity of re-constituting some of the already existing Districts and creating new Districts in the State.

The new District of Sangli later designated Satara South came into existence on August 1, 1949. The District is comprised of some portions of Sangli, Miraj Sr., Miraj Jr., Aundh, and Jath States of the Sangli Group and the three southern Talukas and one Mahal of the former Satara District. It is included in the Poona Division of Bombay State.

The District is bounded by Bijapur District on the east, Kolhapur and Ratnagiri Districts on the west, Kolhapur and Belgaum Districts on the south, and Sholapur and Satara North Districts on the north.

The area and the land revenue of the District are 3,434 square miles and Rs. 22,50,000 respectively. The population of the District according to the census of 1951 is 1,000,141.

The climate of the District is generally dry, and healthy, with an average rainfall ranging from 15 to 25 inches except for parts in the Shirala Mahal, which being on the borders of Konkan has a comparatively damp climate and a heavy rainfall. The Mahal includes a hilly tract.

The Krishna, the Verala, the Warana, and the Agarani are the four important rivers flowing through the District. The soil on the banks of these rivers is very fertile, yielding rich sugarcane crops. Starting from the river Nandhi in the Khanapur Taluka is a canal called Chickli.

The principal crops grown in the District are jowar, millets, pulses, wheat, ground-nut, turmeric, tobacco, sugarcane and a little cotton and rice and some oil-seeds.

The Southern Railway's Poona-Bangalore line runs through the District from Takari right upto Miraj, touching on the way Kirloskarwadi, Bhilavadi, Nandre and Madhavnagar. A branch of the Central (B.L.R.) Railway running from Barsi to Miraj touches at a number of places in the Jath Taluka. Miraj is an important railway junction in the District where lines from Poona, Bangalore, Sangli, Kolhapur and Pandharpur converge. From Miraj to Sangli there is a branch of the Southern Railway covering a distance of 6 miles. From Miraj to Kolhapur there is another branch line covering a distance of 30 miles. Two important trunk metalled roads called Karad-Bijapur Road and Tasgaon-Gotur Road run through the District. The State Transport buses regularly ply between Sangli on the one hand and Bijapur, Poona, Kolhapur and Jath on the other. There are also many other bus-services functioning throughout the District. Sangli-Miraj (6 miles) and Sangli-Islampur-Peth (27 miles) are now fine cement-concrete roads.

TRADE, INDUSTRY

Sangli, which is the headquarters of the District, is an important centre of trade and commerce specially for tobacco, groundnuts, turmeric, jaggery, chillies, ghee, and cotton trade. It has ginning, weaving and spinning mills, groundnut, turmeric, iron and steel factories represented chiefly by firms like Kirloskar Bros. at Kirloskarwadi, Dandekar Bros. and Bhide & Sons at Sangli. The town has also oil mills and ice factory. It is also known for its silver, copper and brassware and gold ornaments. There are cloth mills. Bidi making is another big industry.

Besides, Sangli is a big centre of forward-delivery transactions. Sangli Spices and Oil-seeds Exchange Ltd. is the only Government recognised centre for forward delivery contracts in turmeric in India. It has a Chamber of Commerce and a number of trade Associations.

The Government of India has opened a warehouse at Sangli to store agricultural produce.

Being a railway junction, Miraj is now commercially developing. It has a weaving mill, an oil mill, an ice factory and industrial works called The Yeshvant Industrial Works. Another town Malgaon is famous for its beetle-leaves, which are exported throughout the year to all parts of India.

EDUCATION

The District is sufficiently advanced in point of education—primary, secondary and higher. Compulsory Primary Education has been introduced in Tasgaon, Khanapur and Walwa Talukas and Shirala Mahal. It has been extended to the merged areas of the former States. There are 886 primary schools with 3,966 teachers in them. The total number of pupils is 140,995 of whom 16,073 are girls. There are 586 adult education classes, and a school-cum-community centre at Nandre village, seven miles from Sangli. There are 8 pre-primary schools and 60 basic schools with 23,000 students in the latter. The number of secondary schools is 52, with about 10,807 pupils. There is also a Sanskrit Pathashala at Tasgaon. In the matter of higher education the District has one Arts & Science College, one Engineering College, four Primary Teachers' Training Colleges and one Nursing School.

Sangli, Madhavnagar and Miraj especially which are in close proximity to one another are now rapidly developing into important educational and industrial centres in Southern Maharashtra. The Raja of Sangli has established at Sangli the "Adhytma Vidya Mandir", an institution solely devoted to the study of Philosophy, Religion and allied pursuits. There are two Primary Teachers' Training Colleges, one for men and the other for women at Sangli. There are also five High Schools in the city. There is a school for the study of ancient learning and another for the study of domestic science. There are also four Montessori schools. Miraj has four High Schools. The Deccan Education Society started about 30 years ago the Willingdon College at Sangli which provides instruction in Arts and Sciences and prepares students for degree courses. In 1947 the Maharashtra Technical Education Society, Poona, started at Sangli the New Engineering College which is now named as Walchand College of Engineering, Sangli.

Because of the Mission Hospital (Wanless Hospital), run by the American Presbyterian Mission and founded by the late Sir William Wanless, Miraj has become one of the most up-to-date and efficient medical centres in India. The Sir William Wanless Tuberculosis Sanatorium, at Wanlesswadi, is now the largest among first grade sanatoria in India. Besides the T. B. Sanatorium there is a Leprosarium at Miraj. The Miraj Medical Centre also runs a Nursing School and a Compounding School.

OFFICIALS

Collector and District Magistrate, R. G. Shinde.

District and Sessions Judge, South Satara, Sangli, A. A. Shaikh.

District Superintendent of Police, Sangli, K. Burhanuddin.

DISTRICT INDUSTRIAL CO-OPERATIVE ASSOCIATION LTD SATARA SOUTH, SANGLI

President, B. A. Daftardar; *Vice-President*, R. S. Dewangswami

CHAMBER OF COMMERCE, SANGLI

President, C. D. Mehta, B.A.

Secretaries, G. N. Shah; S. F. Gandhi.

THE DECCAN MANUFACTURERS' ASSOCIATION, SANGLI (S.M.C.)

SPICES AND OILSEEDS EXCHANGE LTD., SANGLI

The only association in India recognised by the Central Government for regulating and controlling forward contracts in turmeric.

Chairman : B. P. Nemani.

Vice-Chairman : V. P. Shah; *Secretary* : M. R. Purandare LL.B.

MIRAJ MEDICAL CENTRE, MIRAJ

There are specialised departments of general surgery, orthopaedic surgery, chest-surgery, medicine, infectious diseases, pediatrics, cancer, psychiatry, eye-ear-nose and throat and urology in the Wanless Hospital. Medical Superintendent, Dr. W. A. Cecil.

School of Nursing (1897) :—Training in general nursing and midwifery under Bombay Nursing Council.

RANI SARASWATIDEVI KANYASHALA, SANGLI

The High School is managed by the Women's Education Society, Sangli.

The School provides education to girls only upto the course of the S.S.C. Examination of the Bombay Government. The School has made provision for the Home Science Course from 1955. The present strength of the school is 581.

WALCHAND COLLEGE OF ENGINEERING, SANGLI

The Walchand College of Engineering conducts classes for Civil, Mechanical and Electrical Engineering up to B.E. Degree and Diploma classes in all the three branches of Engineering. The College is fully equipped and has accommodation for about 250 students on the College premises. *Principal* : V. K. Kelkar.

WILLINGDON COLLEGE, SANGLI (S.M.C.)

The College, affiliated to the Poona University, provides instruction in all major subjects for under-graduate, graduate and post-graduate classes and courses on the arts as well as the science side. It has more than 1,328 students (1,239 boys and 89 girls) on the rolls and has a hostel.

Principal : G. L. Chandratreya, M.A., B.Sc. (Bom.), M.A. (Cantab.)

Y.M.M.E. SOCIETY, SANGLI

The Society conducts a full-grade High School and a Primary School.

THE SIR WILLIAM WANLESS TUBERCULOSIS SANATORIUM, WANLESSWADI

The Sanatorium is situated in the western Deccan two miles west Miraj and three miles east of Sangli, and is 160 miles south of na on the metre gauge section of the Southern Railway. It has own railway station Wanlesswadi—just at the main gate and a sta and Telegraphs Office, Wanlesswadi, with trunk telephone ilities within its premises.

Up-to-date surgical and medical treatment, including all types of ulmonary resections, is given for all types of tuberculosis to patients espective of caste, creed or nationality.

Total bed strength above 350.

rector of Surgery and Medical Superintendent: Dr. A. G. Fletcher.

ursing Superintendent: Miss L. Augustus.

ecretary: D. S. Gorde.

RICHARDSON LEPROSY HOSPITAL

Miraj Mission Hospital P.O., Miraj.

COTTON MILLS

JANATA SPINNING MILLS LTD.—Spindles 6,324; Agents: R. Velankar & Sons Private Ltd., Office on Mill premises. Mills Sangli.

MADHAVNAGAR COTTON MILLS LTD.—Spindles 13,360, oms 63; Managing Agents, The Budhgaon Trading Co. Private td., Office on Mill premises. Mills at P.O. Madhavnagar, near ngli (Southern Rly.).

††MARATHE TEXTILE MILLS.—Spindles 5,412; Proprietors, B. K. Marathe & Sons, Office on Mill premises. Mills near Railway Station, Miraj.

††SHREE BALAJI SPINNING & WEAVING MILLS.—Spindles 5,470, Looms 96. Mg. Partner: Bhawarlal Chhogalal Ladda, Office on Mill premises. Mills at Shivajinagar, Sangli.

‡SHRI GAJANAN WEAVING MILLS.—Looms 135; Partners: V. R. Velankar and R. V. Velankar. Office on Mill premises. Mills at Sudamapuri, Sangli.

TRADES & PROFESSIONS

Bhide & Sons, Engineers, Shivaji Nagar, Sangli.
Chhatre's Photographic Home, Miraj.
City Medical & Surgical Stores, Miraj (S. Rly.).
Dandekar Brothers (Engineers), Sangli (Southern Railway).
The Deccan Engineering Works Ltd., Madhavnagar.
The Deccan Pharmacy, Sangli (S. Satara), India.
Gogate Brothers, Electricians and Photographers, Laxmi Market, Miraj.
The Goodwill Bank Ltd., Bankers, City Post Office, Miraj.
The Goodwill Stores, opp. City Post Office, Miraj.
Hiralal Badrinarayan, Vakhar Bhag, Sangli.
Idomax Chemicals, Miraj (S. Rly.).
Maharashtra Metal & General Mills, Ltd., Sangli.
NEW VIJAY INDUSTRIES LTD., P. O. Vishrambag (Sangli, Satara South). Manufacturers of Agricultural Implements, Centrifugal Pumps and Deep-Well Hand Pumps and Foot Valves.
Prakash Printing Press, Sangli.
Southern Stationery Stores, Laxmi Market, Miraj.
V. G. Limaye's Art-Studio, Sangli. Photographer & Artist.

THE
SATARA SOUTH DISTRICT CENTRAL
CO-OPERATIVE BANK LTD., SANGLI

Formerly The Sangli State Central Co-operative Bank, Ltd., Sangli.

Estd. 1927

Head Office: **High School Road, SANGLI**

Branches:

(1) Jath (2) Miraj (3) Tasgaon (4) Vita (5) Atpadi
(6) Islampur (7) Shirala (8) Market Yard, Sangli.

Authorised Capital	.. ..	Rs. 10,00,000
Paid-up Capital	.. ..	Rs. 4,49,670
Reserves	.. ..	Rs. 2,41,000
Working Capital	.. ..	Rs. 74,97,000

BOARD OF DIRECTORS

Shri C. R. Patil, B.A., LL.B., *Chairman.*
,, R. B. Arwade, B.A., LL.B.
,, M. H. Godbole, B.A., LL.B.
,, G. A. Patil.
,, A. T. Avati.
,, B. C. Kadam.
,, S. C. Bank's Nominee.
Shri N. S. Patil, *Vice-Chairman.*
,, B. R. Godbe.
,, B. A. Daftardar, B.A.
,, S. A. Patil.
,, R. C. Deshmukh.
,, A. G. Shinde.
,, D. P. Patil.
,, B. B. Mane.
The Asstt. Registrar, Co-operative Societies, Sangli.

BUSINESS:
Loans for Agricultural purposes allowed to societies.
Fixed, Current & Savings Deposits accepted.
Every kind of Banking Business transacted.

P. B. TAKAWEKAR, B.A., H.D.C., *Manager.*

THE
UGAR SUGAR WORKS LTD.

SANGLI (S.M.C.)

(Established 1939)

Phone: 187

Factory is situated at Ugar-Khurd, a small village on the left bank of River Krishna.

Transport facilities are easy as the Factory is only a mile away from the Railway Station Ugar-Khurd, on Southern Rly. on Miraj-Belgaum main line.

Factory has got its own estate for sugar-cane, grown by lift irrigation.

Factory is of 800 to 1,000 tons capacity which produces white crystal sugar.

Factory produced 12,365 tons of sugar in 1957-58.

Controlled and most efficiently managed by

Messrs. SHIRGAOKAR BROTHERS

the Managing Agents of the Company

‡ Proprietary concern. † Figures from 1956 statement.

SHOLAPUR DISTRICT

Headquarters : Sholapur.

Talukas : Sholapur South, Sholapur North, Barsi, Pandharpur, Sangola, Malshiras, Karmala, Akalkot, Mangalwedha, Mohol, Madha.

Sholapur District is bounded on the north by Ahmednagar District, on the east by Osmanabad District, on the south by Bijapur District and on the west by Satara North and Poona Districts. Sholapur is generally flat and undulating. Most of the surface rolls in long low uplands separated by hollows, with an occasional level. The shallow soiled uplands are suitable for pasture and the deep-soiled lowlands, under careful tillage, yield rich crops. From time to time the District suffers severely from drought, to which its situation and the treeless surface of the country expose it. The Indian Council of Agricultural Research, therefore, opened at Mulegaon, a village about 4 miles to the east of Sholapur, a Dry Farming Research Station.

Sholapur town, the headquarters of the District, is a station on the Central Railway. It has a fine old fort and a travellers' bungalow. The languages spoken are mainly Marathi and also Telugu and Kannada.

The population of the District according to 1951 census is 1,505,316. Area : 5,814 square miles.

OFFICIALS

Collector and District Magistrate, S. N. Sapre, I.A.S.
Addl. Collector, S. L. Ogale, I.A.S.
District and Sessions Judge, B. N. Deshmukh.
District Superintendent of Police, M. S. Heble, I.P.S.

LOCAL SPIRITUAL ASSEMBLY OF THE BAHA'IS OF SHOLAPUR

Post Box 39, Vasant Villas, Station Road, Sholapur.

DAYANAND ANGLO-VEDIC COLLEGE, SHOLAPUR

It is affiliated up to Ph.D in the Arts Faculty and up to B.Sc. in the Science Faculty. Research work is being carried on in History and Politics. A large number of stipends and free studentships are available for the able students of all communities. *Principal :* Sri Ram Sharma, M.A., F.R. Hist. Soc. (Lond.).

DAYANAND COLLEGE OF COMMERCE, SHOLAPUR

The College is affiliated upto B.Com. It has 324 students on its rolls and 19 professors and lecturers. *Principal :* T. B. Narasimhachari.

DAYANAND COLLEGE OF EDUCATION, SHOLAPUR.

This College is affiliated for B T. to the Poona university. It has 47 students on its rolls and eight professors and lecturers.

Principal : K. S. Mardikar.

INSTITUTE OF PUBLIC ADMINISTRATION, SHOLAPUR

The Institute aims at providing and promoting the study of public administration and government in India and elsewhere and explaining the role of citizens in public administration in a democratic government. *Director :* Sri Ram Sharma, M.A., F.R. Hist. Soc. (Lond.).

THE TEXTILE ASSOCIATION (INDIA) LTD (SHOLAPUR BRANCH)
THE LAKSHMI COTTON MFG. CO., LTD

President : E. A. Dodwell.
Chairman : G. G. Chakradeo ; *Secretary :* P. G. Pund.

WASSOODEW BABAJEE NOWRUNGAY ORPHANAGE AND FOUNDLING ASYLUM, PANDHARPUR

The Institution is managed by the Bombay Prarthana Samaj. There are a foundling home, an orphanage, a maternity home for widows in trouble and also a home for homeless women. *Superintendent :* V. S. Javere.

Secretary's Office :—Prarthana Samaj, Girgaum, Bombay.

COTTON MILLS

JAMSHRI RANJITSINGHJI SPG. & WVG. MILLS CO., LTD., Spindles 20,184, Looms 512 ; Managing Director : Seth Bairuratan Damani, 11, Bank Street, Fort, Bombay. Mills at Station Road Sholapur.

JAYASHANKAR MILLS, BARSI LTD., Spindles 12,872; Agents: Zadbuke & Co., office on Mill premises. Mills at Barsi Town.

LAKSHMI COTTON MFG. CO., LTD., Spindles 51,544, Looms 1,219 ; Managed by Board of Directors, 9, Wallace Street, Fort Bombay. Mills at Sholapur.

LOKAMANYA MILLS (BARSI), LTD., Spindles 14,520 ; General Manager & Director : B. P. Sulakhe. Office on Mill premises. Mills at Arangaon Road, Barsi Town.

†**NARSINGGIRJI MFG. CO., LTD., Spindles 55,488, Looms 1,170** In liquidation. Mr. J. P. Maroo runs the Mill on behalf of Government. Mills at Station Road, Sholapur.

RAJEN (TEXTILE) MILL PRIVATE LTD. (formerly Barsi Spinning & Weaving Mills Ltd.), Spindles 13,300, Looms 288. Managed by Board of Directors. Office on Mill premises. Mill at Barsi Town.

SHOLAPUR SPG. & WVG. CO., LTD., Spindles 95,232, Looms 2,234 ; Managed by Board of Directors, Standard Building Fort, Bombay. Mills at Station Road, Sholapur.

VISHNU COTTON MILL, LTD., Spindles 48,120, Looms 1,[illegible], Secretaries, Treasurers and Agents : The Bombay Co. Private Ltd., 9, Wallace Street, Fort, Bombay. Mills at Sholapur.

TRADES AND PROFESSIONS

The Bank of India Ltd., 904, Chatti Galli, P.O. Box No. 12, Sholapur.
Barsi Dal Manufacturing Co., Ltd., Barsi Town, District Sholapur
Barsi Industrial & Pharmaceutical Co., Ltd., Barsi Town, District Sholapur.
Barsi Merchants' Association, Sholapur.
Bhagwat S. P. Motion Picture Exhibitors, Sholapur.
Bharat Bidi Works, Sholapur.
Central Bank of India Ltd., Barsi, B. L. Railway, Sholapur District
Chandmal Jawanmal Munot, 65, Sakharpeth, Sholapur.
Dattatraya Vishwanath Sulakhe, Barsi Town, Sholapur.
District Central Co-operative Bank, Sholapur.
Gore Govind Sakharam, Grocery & Commission Agent, Sholapur
G. P. Nilakhe, No. 4132, Somwar Peth, Barsi Town, District Sholapur
Gujarat Oil Mills, Sholapur.
Laichand Vora & Sons, Chemists & Druggists, Sholapur.
Laxmi Bank, Sholapur.
Nagarwala & Sons, P. A., Station Road, Sholapur.
Nagarwala & Sons, Wine, Provision, Fancy Articles and General Merchants, Sholapur.
Narsi Padamsi & Co., Barsi Town, District Sholapur.
Parandekar Bros, Motor Transport, Sholapur.
Patne Sidramppa, Iron & Hardware Merchant, Sholapur.
Rathi Ramnarayan Rajmul, Yarn & Cloth Merchant, Sholapur
R. S. DEVANE & CO., Hardware, Iron & Steel Merchants; Weights and Measures Dealers and Asbestos & A.C.C Agents, Devane Building, Somwar Peth, Barsi Town, Distt. Sholapur. Phone : 68.
SASWAD MALI SUGAR FACTORY, LTD., THE, Malinagar, Dist. Sholapur.
Sholapur Co-operative Stores, Ltd., Wine, Provision and General Merchants, Sholapur.
State Bank of India, Sholapur.
Vairag Oil Mills, Vairag, District, Sholapur.
Vijay Engineering & Machinery Co., Murarji Peth, Sholapur

SORATH DISTRICT

Area : 3,427 sq. miles ; *Population :* 1,601,154.

Headquarters : Junagadh

Talukas and Petas : Bhesan, Junagadh, Keshod, Kutiyana, Malia, Manavadar, Mangrol, Mendarda, Patan, Porbandar, Ranavav, Talala, Una, Vanthali, Visavadar.

Agricultural land under paddy, jawar, bajra, wheat, groundnut and cotton is 14,09,400 acres in extent. Agriculture is the main occupation of the people.

Sorath is well-known because of the lions in the Gir forests. This is the only place in Asia where lions are found.

Porbandar and Veraval are the two important ports in the district Veraval is being developed as a fishing port. Porbandar is well known as the birthplace of Mahatma Gandhi.

The main industries of the district consist of cement, ginning and pressing, oil, etc. New industries like soda-ash and rayon are coming up.

OFFICIALS

Collector, K. S. Pardumansinhji, I.A.S.
District Superintendent of Police, B. K. Lokhande, I.P.S.
District and Sessions Judge, B. V. Trivedi.

COTTON MILLS

MAHARANA MILLS PRIVATE LTD., Spindles 24,132, Looms [illegible] Owner : Seth Nanjibhai Kalidas Mehta, Uganda Road, Porbandar Mills at Porbandar, Sorath District.

TRADES & PROFESSIONS

Pramod Soap Factory, Satta Bazar, Veraval Post

RAJANIKANT & CO.

Oil, Oilseeds, Cotton Merchants and Commission Agents
P.B. No. 22, Veraval.
Grams : "NEWPRESS" Phones : 19 (Office), 20 & 172 (Residence).
Allied Firms : Rajanikant & Co., Manmohan Market, Jamnagar.
Bankers : The Bank of India Ltd. and The Bank of Baroda Limited.

R. Vallabdas, Veraval.

† Figures taken from 1956 statement.

SURAT DISTRICT

Headquarters : Surat.

Sub-Divisions : Surat, Navsari, Bulsar, Vyara.

Talukas and Mahals : Chorasi, Olpad, Bardoli, Mandvi, Bulsar, Chikhli, Pardi, Dharampur, Bansda, Navsari, Palsana, Kamrej, Mangrol, Mahuva, Vyara, Songadh, Valod and Gandevi.

Surat District lies between North Latitude 20°15′ and 21°28′ and East Longitude 72°38′ and 73°31′. Following the merger of Baroda State into Bombay State the whole district of Navsari, formerly part of Baroda, was incorporated into the Surat District. The former States of Dharampur, Bansda and Sachin were also added to the District with the result that the area and population of the District were more than doubled. Surat District is bounded on the north by Broach District, on the east by West Khandesh, Dangs and Nasik Districts, on the south by Thana District and the Portuguese territory of Daman, and on the west by the Arabian Sea. The present area of the District is 4,499 square miles and the population according to 1951 census 1,827,842. The majority of the population in Bansda and Dharampur and several Talukas, particularly those having jungle areas of the former Navsari District belongs to backward classes called Ramparaj, Chodhra, Dhodia and Dubla. The language spoken is Gujarati.

Surat District consists of a wide alluvial plain, stretching between the Dang Hills and the coast, from the Kim river on the north to Damanganga on the south—a distance of about 80 miles. Much of the soil is rich, but the western border of the District consists of less fertile lands. With the inclusion of the former Navsari District and the States of Bansda, Sachin and Dharampur into the District, it has acquired a very valuable and wide forest area.

Surat, the chief city and administrative headquarters, is situated on the south bank of the river Tapti 10 miles from the sea. Its population according to 1951 census is 223,182. It is a centre of brisk trade.

Besides being noteworthy historically, Surat is one of the principal centres for handicrafts in the State. Nearly half the population of the city depends on handicrafts. Jari work, laces, silk and jari brocades, embroidery, ivory and sandalwood, inlay work of *rarakh-nakasha* and ivory bangles are the major handicrafts for which Surat is still famous not only throughout India but even outside India. Gold thread produced here is exported to many countries. Cotton and art silk weaving is another major industry which received an impetus during the War. The taluka of Olpad is famous for its knives and nutcrackers, while Bulsar is well known for its silver engraving work. A co-operative industrial estate is being organised at Udhna three miles from Surat.

OFFICIALS

Collector and District Magistrate, H. P. Bhatt.
Addl. Collector, P. R. Chauhan.
District and Sessions Judge, N. G. Shelat.
District Superintendent of Police, H. C. Singh, I.P.S.

INSTITUTIONS

Mahila Vidhyalay Mandal, Gopipura.
Peoples' Education Society.
Sarvajanik Education Society.
Union Education Society.
Shri Tapi Brahmacharyashram Sabha, Laldarwaja.

THE SURAT CHAMBER OF COMMERCE

Safe Deposit Chambers, Surat.

The present strength is 500.

President : Jayantilal G. Vakharia ; *Vice-President :* Chandrakant G. Parekh ; *Secretary :* D. B. Patel, M.Com.

THE SURAT JARI GOODS PRODUCERS' CO-OPERATIVE SOCIETY, LTD.

Taj Mansil, opp. Tower, Surat.

The society has a strength of 506 members. Seth Hiralal Kanchhoddas Jariwala, *President ;* Vinayaklal Damodardas Jariwala, *Vice-President ;* Navnitlal Dayaram Jariwala, *Hon. Secretary ;* *Manager :* H. M. Patel. *Telegraphic Address*, Jarigoods.

THE SURAT VANKAR SAHAKARI SANGH LTD.

Modi Mansion, Peerchhadi Road, Surat.

A co-operative society of weavers.

President : Nagindas H. Kharwar ; *Vice-President :* Udayaram Vasaram ; *Manager :* Kamalkant S. Shah.

THE SURAT WEAVING ASSOCIATION

Nanda Chowk, Lokhandwala Bldg., Mahatma Gandhi Road, Surat.

An association of cloth manufacturers.

President : Mohanlal Chunilal Dhamanwala ; *Vice-President :* Udayaram Ambaram ; *Hon. Secretaries :* Manilal Bhukhandas Chevli ; Popatlal Hiralal Bachaniwala.

SWADHYAYA MANDAL

P.O. Swadhyaya Mandal (Pardi), Dist. Surat.

A literary and social body.

President : Pandit S. D. Satwalekar, Vedacharya, Sahitya Vachaspati, Gitalankar ; *Secretary :* V. S. Satwalekar, B.A.

EDUCATIONAL INSTITUTIONS

Colleges :

Ayurvedic College, Laldarwaja.
Basic Training College, Katargam.
Sir K. P. College of Commerce, Athwalines.
Primary Teachers' Training College, Chawk Bazar.
Sarvajanik Law College, Athwalines.
Dr. S. S. Gandhi Technical College, Majura Bhagol.
T. & T. V. Sarvajanik College, Athwalines.
Vidhya Mandir (Women's College), Nanpura.

High Schools & Institutes :

Parek Technical Institute, Sonifalia.
Jeevan Bharati, Nanpura.
Cambay Institute of Commerce, Kanpith.
Popular School of Commerce, Mani Road.
Smart School of Commerce, Haripura.
Shorthand and Commercial Institute, Beasant Road.
T. & T. V. Sarvajanik High School, Nanpura.
N. G. Zaveri Jain High School, Gopipura.
Sarvajanik High School for Girls, Balaji Road.
T. & T. V. Sarvajanik Middle School, Gopipura.
Haripura Sarvajanik High School, Rampura.
G. & G. V. Kadiwala Middle School, Katargam.
Ratnasagarji Jain Vidhyashala, Gopipura.
Mission High School for Girls, Mughisara.
Mission High School for Boys, Mughisara.
Anglo-Urdu High School, Sodagarwada
Diwan Bahadur N. M. Javeri Union High School. Ranitalao.
Proprietary High School, Bundelawad.
Sir J. J. English School, Shahpore.
Patel English School for Girls, Machhlipith.
Bohra Madressa for Girls, Zampabazar.
Hindu Gurukul, Athwalines.
Gujerat Co-operative School, Nanpura.
Vanita Vishram, Athwalines.

F. S. PAREKH TECHNICAL INSTITUTE

Chowk Bazar, Surat.

The Institute imparts instruction in Mechanical & Automobile Engineering Courses, Wireman, Apprenticeship, and Trade Courses in Turners, Fitters, Machinist, Patternmaking, Motor Mechanics and Carpentry.

JEEVAN BHARATI

Surat.

Founded in 1946 the Jeevan Bharati is an experimental educational institution under the management of Jeevan Bharati Mandal. It is a co-educational school with three sections, pre-primary, primary and secondary. It has been recognised by the Government of Bombay as a multi-purpose school. It has provided special courses in fine arts.

President of the Mandal : M. M. Pakvasa.
Chairman, Board of Trustees : Morarji R. Desai.

MAGANLAL THAKORDAS BALMUKUNDDAS COLLEGE

Surat.

The M. T. B. College is permanently affiliated to the Gujarat University for teaching courses of study leading to the B.A., B.Sc., M.A., M.Sc. and Ph.D. (Guj. and Chem.).

Principal :— K. L. Desai, M.A., LL.B. (Bom.), B.A. (Cantab.).

SARVAJANIK EDUCATION SOCIETY

Surat.

The society manages three colleges, four high schools, two middle schools and an institute for higher learning and research.

President : Mangaldas Manchharam Pakvasa, B.A., LL.B. ; *Chairman, Managing and Executive Committees :* Lalitmohan Chunilal Gandhi, M.A., B.Sc., LL.B. ; *Vice-Chairman :* Jashvantlal Chhaganlal Clerk, B.A., LL.B. ; *Secretary :* Prof. Jivanlal Trikamlal Parikh, M.A.

SARVAJANIK LAW COLLEGE

Surat.

Principal.—C. D. Vyas, M.A., LL.M.

DR. S. AND S. S. GHANDHY COLLEGE OF ENGINEERING AND TECHNOLOGY

Majura Gate, Surat.

Principal.—S. K. Katrak, M.S. in C.E. (Illinois).

SIR KIKABHAI PREMCHAND COLLEGE OF COMMERCE
Surat.

The College is affiliated to the University of Gujarat for teaching commerce courses upto M.Com. and Ph.D. Degrees and is under the management of Sarvajanik Education Society, Surat. Hostel accommodation available for 60 students.

Principal :—D. R. Samant.

SHREE VITHALDAS THAKORDAS HINDU GURUKUL
Surat.

It aims at co-ordinating Indian and Occidental learning and Hindu religion. It runs a High School and a Sanskrit Vidyalaya.

President :—Hiralal Maganlal Choksey.
Principal :—H. O. Vin, B.A., B.T.

HOSPITALS

Civil Hospital, Ardeshar Kotwal Road.
Hindu Charitable Hospital & Maternity Home, Balaji Road.
Sonawala Hospital, and Ashaktashram, Rampura.
Shantaben's Maternity Home, Panini Bhint.
Maskati Charitable Hospital, Opposite Tower.
Shri Ratan Kuverba Hospital, Bansda.
Lady Wilson Hospital for Women and Children, Bansda.
Dinath Maternity Hospital for Muslims, Rampura.
Lakhpati Maternity Home, Nanavat.
Parsi General Hospital and Maternity Home, Shahpore.
Morarbhai Malvi Hospital for Women and Children, Bhagatalao.
T.B. Hospital and Lady Wilson Leprosy Clinic, Ashwanikumar Road.
Ayurvedic Hospital, Laldarwaja Road.
Mission Hospital (Seventh Day Adventist), Athwalines.
Mission Hospital, Bulsar.

CLUBS

Rotary Club.
Surat Tennis Club, Athwalines.
Union Gymkhana, Rander Road.
Digvir Club, Bansda.
Lions Club, Dariamahal.

HOTELS, REST HOUSES

Savoy Hotel, Opp. Station.
Jay Bharat Hindu Lodging and Boarding House, Main Road.
Ukadji Dharmashala for Parsis, Muglisara.
Government Rest House, Nanpura.
P.W.D. Guest House, Nanpura.
Evergreen Lodging and Boarding House, Buranpuri Bhagal.
Rambharose Lodging and Boarding House, Chawk Bazar.

SPINNING & WVG. MILLS

GAEKWAR MILLS LTD., Spindles 29,160, Looms 660. Managed by Board of Directors, Mehta House, Apollo Street, Fort, Bombay. Mills at Billimora.

MAFATLAL FINE SPG. & MANUFACTURING CO., LTD., Spindles 51,996, Looms 896. Agents: Navinchandra Purshotamdas & Co., Ltd., Mafatlal House, Back Bay Reclamation, Bombay. Mills at Vejalpur Road, Navsari.

NAVSARI COTTON AND SILK MILLS LTD. (Formerly New Darbanga Mills), Spindles 18,776, Looms 435. Managed by Board of Directors Mehta House, Apollo Street, Fort, Bombay. Mills at Vejalpur Road, Navsari.

NIRANJAN MILLS, LTD. (Formerly Tikayaram Mills)—Spindles 9,088, Looms 320. *Agents:* Shapurji & Co. Office on Mill premises. Mills at Falsawadi, Surat.

SURAT COTTON SPG. & WVG., MILLS LTD. Spindles 29,300, Looms 476; Mg. Director: Rasesh N. Mafatlal, Mafatlal House, Backbay Reclamation, Bombay. Mills at Nawabwadi, Surat.

SURAT TEXTILE MILLS LTD.—Spindles 9,600. *Mg. Agents:* Kanchanlal Kapadia & Co., Ltd. Office on Mill premises. Mills at Varachha Road, Surat.

TRADES & PROFESSIONS

A. G. Shahuna, Surat.
Atmaram & Bros., Gopipura, Surat.
Atmaram Manekial, Cotton Commission Agent, Surat.
Amritlal Sanmukhlal, Cloth Merchant, Surat.
Arvind Ramji & Brothers, Salabatpura, Khangad Sheri, Surat.
Atmaram & Bros., Jariwala, Gopipura, Motichhipwad, Surat (India).
Babubhai Navnitlal & Co., Begumpura, Bhulsamody's Chakla, Surat (India).
Bekay Katha Manufacturing Company, Station Road, P.O. Vyar (Surat).
B. V. Patel & Co., Cloth Merchants, Surat.
Bhukhandas Nathubhai Gotawala, Salabatpura, Sidhi Sheri, Surat
Bodiwala Bros. (Estd. 1919), Buranpuri Bhagol, opp. Sheri, Surat.
Chaitanyalal & Co., Cotton Merchants, Surat.

CHAMPAKLAL BHAIDAS KAPADIA, Bankers, Merchants : Agents, 1969, Limdachowk, Surat.

Champaklal & Brothers, Varacha Road, Surat.
Chhaganlal Venilal Jariwala, Mahidharpura, Dalagia Street, Surat
Chhotubhai Dahyabhai, Cloth Merchant, Surat.
Chunilal Motiram, Cotton Merchant, Surat.
Dayabhai Venilal, 1969, Limda Chawk, Surat.
Dhanraj J. Parmar, Motor Agent, Surat.

DHANAMAL SILK MILLS, Varachha Road, Surat. Grams "DHANAMALL." Phone: 68. Prop.: P. D. Aswani, Bombay; Manufacturers of Nylon, Georgette, Chiffon, Crepe, Satin (Coloured & Printed). Brocades, Shark Skin & Other Bushwear Varieties.

Dhirajlal G. Veragiwala, Cloth Merchant, Surat.
Dinshaw & Co. (Estd. 1898), Props.: Bhathena Bros., Machlipith, Surat.
D. P. Madan & Co., Chemists and Druggists, Surat.
Fakirchand Surajmal Shah, Cotton Commission Agent, Surat.
Financing and Accounting Agency, Surat.
Farmers' Co-operative Cotton Ginning and Pressing Society, Ltd., Surat.
Fancy Yarn Manufacturing Co., Varachha Road, Surat.
Gheewala Optical House, 12-281, Limda Chawk, Surat.
Gujerat Investment Trust, Ltd., Surat.
"Gujaratmitra" & "Gujaratdarpan," Surat.
Hajoori & Sons, Surat.
Hathiwala Weaving Mills, Begumpura, Surat.
Hathiwala Textile Mills, Begumpura, Surat.
Hathiwala Silk Mills, Begumpura, Surat.
Hind Bobbins & Industries, Ltd., Kamala Nehru Road, Bulsar, Surat.
Hind Hardware & Paint Stores, Kanskiwad Road, Surat
Hindi Vastu Bhandar, Surat.
Hotel Supreme, Nanpura, Surat.
Indiaplant Chemical Industries, Mahidharpura, Limbu Street, Surat
Ishver Cotton Ginning and Pressing Factory, Surat.
Jamnadas Chunilal, Cotton Commission Agent, Surat.
Khushalbhai Rambhai Patel, Billimora, Dist. Surat.
K. Motilal & Co., Varachha Road, Surat.
Kashiram Jagdish, Salabatpura, Khangad Sheri, Surat.
Kinkhabwala, Nathabhai Karsandas, Navapura Golwad Vachali Sheri, Surat.
Keshavaba Ramsha, Jari Merchant, Surat.
Kohinoor Woollen and Silk Mills, Surat.
Laxmi Oil Mills, behind Telegraph Office, Surat.
Mehta, Upendra R., Electrical & Radio Engineer, Hawadia Chowk, Surat.
Mohanlal Vallabharam Bunkl, Proprietor of Bunkl Silk and Cotton Mills, Zunda Street, Surat.
Mohmedbhai E. Badri, Cinema Industrialist, Surat.
National Fancy Yarn Mills, Varachha Road, Surat.
Natverlal Vepari & Co., Registered Accountants and Auditors Surat.
Noor Mohmed Dosa, General Merchant, Surat.
Noormohmed Fajalbhai, Cloth Merchant, Surat.
Omega Opticals, Opticians, Limda Chowk, Surat.
Palia Oil Mills and Brick Factory, Surat.
Patigara, P. A., & Sons, Rani Talao, Surat.
Prabhudas Gangadas Reshamwala. Manufacturers & Dealers of Silk Rampura Road, Surat.
Rajnikant C. Parikh, 6/1931, Jadakhadi, Surat (India). Textile Expert.
Ramdas Prabhuram Kachiwala, Salabatpura, Khangad Sheri, Surat.
Shah Chhotubhai Dahyabhai, Cloth Merchant, Buranpuri Bhagal Surat.
Shree Surat Nagrik Mandal, 1969, Limda Chowk, Surat.

SHRI DAKSHIN GUJARAT SAHAKARI COTTON MARKETING UNION LTD. Lal Darwaja, Surat.

Surat District Co-op. Medical Stores, Ltd., Surat.
Surat Ginning & Pressing Factory, Surat.
Surat Hosiery Works, Surat.
Surat Medical Stores, Surat.
Surat Silk Goods Mills, Surat.
The Surat Textile Mills Limited, Surat (India).
Surat Yarn Exchange Co., Buranpuri Bhagal, Surat.
Swastik Machinists Limited, Varachha Road, Surat.
Vasant Engineering Works, Station Road, Surat.

The Surat Textile Mills Limited
SURAT (India)

Spinners of

Quality Yarns from Best Selected Cottons
for
Handlooms, Power-Looms & Other Industries

Also

FANCY STAPLE FIBRE YARNS
From Rayons exclusively as well as blended with latest synthetics

THE SURAT ELECTRICITY COMPANY, LTD.
Agents: Messrs. Killick Industries Ltd., Bombay.
Office & Power House: Tilak Maidan, P.O. Box 20, Surat. Tel. No. 34.
T. G. Kale, M.I.E.E., Chief Engineer & Manager.
N. D. Desai, L.E.E., Mem.: A.I.E.E., Deputy Chief Engineer & Manager.
C. H. Eastland, Assistant Chief Engineer and Manager.
G. B. Mankar, Station Superintendent.
J. T. Modi, B.Sc. (Eng.), A.M.I.E.E., Engineering Executive.
B. M. Desai, B.Sc. (Eng.), Commercial Engineer.
M. C. Desai, B.E., A.M.I.E. Assoc., Mem. A.I.E.E., Mains Engineer.
R. P. Kinariwala, D.M.E., D.E.E., Assistant Engineer (Commercial).
Central Administration Department: Sorab Mansion, 35, Murzban Road, Fort, P.O. Box No. 109, Bombay 1.

THANA DISTRICT

Headquarters: Thana.

Talukas and Mahals: Thana, Kalyan, Bhiwandi, Shahapur, Murbad, Wada, Jawhar, Bassein, Palghar, Dahanu, Umbergaon, Mokhada Peta.

Area: 3,817 sq. miles. Population: 1,361,053.

Thana District lies between North Latitude 18°53′ and 20°22′ and East Longitude 72°39′ and 73°48′. It is bounded on the north by the Portuguese territory of Daman and Surat District; on the east by the Districts of Nasik, Ahmednagar and Poona; on the south by Greater Bombay; and on the west by the Arabian Sea. Forty-seven villages from the former Bombay Suburban District were originally merged with the Thana District. Later, the area from Sion to Bhandup on the Central Railway and the area from Bandra to Jogeshwari on the Western Railway were merged with Greater Bombay. With the further extension of the Greater Bombay area on February 1, 1957, 24 villages of Thana District comprising the Municipalities of Malad, Kandivli, Borivli and Mulund and the village panchayats of Goregaon and Dahisar, were merged with Bombay. The population based on the 1951 census figures is 1,361,053. The languages spoken are Marathi, Gujarati and Urdu. The Christians of Salsette and Bassein, a very numerous community, are the descendants of the converts of St. Francis Xavier.

Thana consists of a distinct strip of low land, intersected by hilly tracts rising to an elevation of from 100 to 2,500 feet. Along the whole line of the coast the soil is fertile, and the villages are exceedingly populous. In the north-east the hills are covered with wood, and the valleys are but partially cultivated. The villages are seldom more than scattered groups of huts, and the population consists mainly of uncivilised aboriginal tribes, many of whom still wander from place to place as they find water or to suit their fancy. Inland the District is well watered and well wooded. Elsewhere than in the north-east, the country consists of a series of flat low-lying rice tracts, broken by well-marked ranges of hills.

Thana District is fast developing into a prominent industrial area. Hundreds of acres of land are being converted into sites for factories. Scores of factories have already been set up particularly along the railway track and the Bombay-Agra and Bombay-Poona Roads. Mulund village, which was in Thana Taluka and is now part of Greater Bombay, has been developed into a modern suburb with all the usual amenities.

Bhiwandi, a Taluka town nine miles from Thana situated on the Bombay-Agra Road is noted for handloom and power loom fabrics. The "Bhiwandi" variety of Indian saris is very popular among Deccani women. The town is mostly inhabited by Momins and in some parts of the town every house has a spinning wheel. Bhiwandi Taluka is also famous for its timber and charcoal trade.

Kalyan, the biggest and the most thickly populated town in the District, is 34 miles from Bombay and is a junction on the Central Railway's north-east and south-east sections. "Ulhasnagar" the largest refugee township in Bombay State is situated in Thana District two miles from Kalyan near the Ulhas River. The township is designed to accommodate 90,000 people.

The main produce of the District is rice which is of superior Kolamb variety.

Dahanu, Bassein and Umbergaon, the three Talukas are specially famous for fruit gardens and the bulk of Bombay's fruit supply comes from these areas. Bassein plantains and betel-leaves are very much in demand.

At Thana, Bhyandar and Belapur there are extensive salt works.

The chief articles of export from Thana District are paddy, rice, vegetables, salt, betel-leaves, plantains, bricks, grass, firewood, charcoal, lime, fish fresh or dried, timber, coconuts, mangoes, flowers, saris, handloom fabrics, woollen cloth and milk.

Tansa and Vihar lakes and the Vaitarna river which are the main sources of Bombay's water supply are situated in Thana District and are connected with Bombay by a special trolly line.

The Thana District Prison is one of the major prisons in the State and there is also a mental hospital on the outskirts of Thana town.

Thana, the chief town, 21 miles north of Bombay, is as already mentioned a station on the Central Railway. The Fort, the Portuguese Cathedral, a few carved and inscribed stones, and several reservoirs are now the only signs that Thana was once an important city. There is a good travellers' bungalow in the town. Bassein, on the Western Railway, contains the famous ruins of the ancient Portuguese dominion in Salsette.

OFFICIALS

Collector and District Magistrate, G. H. Lalwani, I.A.S.
District Superintendent of Police, S. N. Gadekar.
District and Sessions Judge, A. S. Sarela.

INSTITUTIONS

Marathi Granth Sangrahalaya, Thana.
Remand Home, Bhiwandi.
Industrial School, Bordi.

HOSPITALS

Civil Hospital, Thana.
Mental Hospital, Thana.

INDUSTRIES

Western India Match Factory, Ambernath.
Aluminium Factory, Kalwa, Thana.
Raymond Woollen Mills, Thana.
Wadia Woollen Mills, Thana.
Castle (Woollen) Mills, Thana.
National Machinery Manufacturers Ltd, Kalwa, Thana.
National Rayon Corporation, Mohone, near Kalyan.
Century Rayon Corporation, Shahad, near Kalyan.
Amar Dye-Chem. Factory, Shahad, near Kalyan.

SPINNING AND WVG. MILLS

‡† Abdul Samad Hajilal Mohammad Weaving Factory.—Looms 246. Owner: Khan Sahib Abdul Samad Hajilal Mohammad. Office on Mill premises. Mills at Bhiwandi.
‡ Secunder Sari Mills—Looms 103. Owner: Abdul Quadri Secunder Patel. Office on Mill premises. Mills at Sowadagar Mohulla, Bhiwandi.

TRADES & PROFESSIONS

Dahanu Industrial Works, Dahanu Road, Dist. Thana.
Dandekar & Co., Palghar, Dist. Thana.
Francis D'Souza & Co., Dahanu Road, Dist. Thana.
Kantilal Keshavlal Varaiya & Company, Palghar.
New Shri Krishna Lodging & Boarding House, Palghar.
Palghar Medical & Provision Stores, Palghar.
Parulekar & Company, Palghar.
Sakharam Bhikaji Patil, Nandora (Taluka Palghar).
Shah Narotamdas Harjivandas Co., Palghar.

UNION INDUSTRIAL WORKS

Dahanu Road, Dist. Thana (W. Rly.).

Manufacturers of Rice & Pulse Mills; We also manufacture Rice Flake Machines and hand-made Paper machinery; Trade enquiries invited.

† Figures are taken from 1956 statement.

‡ Proprietary concern.

WARDHA DISTRICT

Headquarters : Wardha.

Tahsils, Sub-Divisions : Wardha, Hinganghat, Arvi.

The District lies roughly between 20° and 21° 15′ North Latitude and 78° 15′ and 79° 15′ East Longitude. It is bounded by the river Wardha on the south and south-west, by Chanda District on the south-east, and by Nagpur District on the east and north-east, and by Amravati District on the west. The area of the District is 2,434 sq. miles and the population 538,903. The languages spoken are Marathi and Hindustani.

Wardha is noteworthy in that it has been the seat of a number of Gandhian institutions concerned with village uplift and the ideals of self-sufficiency and self-service. Wardha being centrally located is also an important junction on the Central Railway ; trains which go from Madras to Delhi and from Bombay to Calcutta pass through Wardha.

Wardha has black cotton soil and the most important cash crops grown are jawar and cotton. Though there are rivers like Wainganga agriculture depends on rain. There is thus an elaborate programme today for sinking new wells and deepening old ones. There are pressing and ginning mills in the District and also textile mills.

OFFICIALS

Collector, V. B. Eswaran, I.A.S.
District Superintendent of Police, S. D. Rege, I.P.S.
District and Sessions Judge, T. R. Gosewade.

ASSOCIATIONS

AKHIL BHARAT SARVA SEVA SANGH

Maganwadi, Wardha.

The Sangh was founded consequent on a resolution passed at a meeting of the representatives of several constructive work organisations (formerly working under the guidance of Mahatma Gandhi) held on the 27th of April 1948 at Bombay.

The Sangh was originally formed as a federation of these organisations. Later, several of these organisations merged themselves into the Sangh, which has thus become the chief executive organ for constructive work. The objects of the Sangh are as follows :—

"To establish a social order free from all exploitation and based on the principles of Truth and Non-violence, and with this object, to foster village-mindedness in the citizens of India.

"To serve, help and educate the common man of India, especially poor rural folk so that poverty, disease, ignorance and other miseries may be conquered, and men may be made conscious of their own power".

The programme includes various constructive work items like communal harmony, Khadi, removal of untouchability, Basic Education, relief to the poor (by securing employment, living wage, security and unemployment benefit, educational and medical facilities), research in hand spinning and weaving.

The Sangh believes in decentralisation of authority whether economic or political. In the political sphere it has faith in direct democracy which it calls 'Gram Rajya'. The village is accepted by the Sangh as the basic unit for political organisation and economic self-sufficiency.

At present the Sangh is concentrating on the Bhoodan Yajna movement started by Acharya Vinoba Bhave, a close associate and disciple of Mahatma Gandhi.

Literature about Bhoodan, Sampattidan and other Dan Yajna movements can be had from Akhil Bharat Sarva Seva Sangh, Publication Division, Rajghat, Kashi (Banaras), or Navajeevan Prakash Mandir, Ahmedabad ; or Sarvodaya Prachuralaya, 24, Srinivaspuram, Tanjore, South India.

The Sangh has its headquarters at Wardha (Bombay State)

The Sangh has a general body consisting at present of 41 members. The Executive organ of the Sangh is known as the Prabandh Samiti of members. It has a President, a Secretary, two Joint Secretaries and a Treasurer. The Sangh has a Board of Trustees consisting of three who hold the property of the Sangh in trust.

There are about 3,000 workers in the various centres of production and sale. It is estimated that the total number of spinners and weavers in the production of khadi is 350,000 and 40,000 respectively distributed among 17,000 villages in the country.

The capital is about Rs. 50 lakhs. It is calculated that the sum so far distributed among the spinners and weavers in the villages would be about Rs. 20 crores.

President, Dhiren Mazumdar ; *Secretary*, A. W. Sahasrabudhe ; *Jt. Secretaries*, Vallabh Swami, Siddhraj Dhadda ; *Treasurer*, Radhakrishna Bajaj.

Trustees, A. W. Sahasrabudhe, Siddhraj Dhadda, Radhakrishna Bajaj.

Four well-known associations which merged into the Sarva Seva Sangh are : All-India Spinners' Association, Sewagram ; All-India Village Industries Association, Wardha ; Go-Seva Sangh, Pipri, Hindustani-Prachar Sabha, Wardha.

HINDUSTANI TALIMI SANGH

Sevagram, Wardha.

The object is to propagate Nai Talim (new education), the international education for life through manual activity and handicraft. Work is conducted at Sevagram in five departments : Pre-Basic, Basic, Post Basic, Teacher training, Adult education.

President, E. W. Aryanayakam ; *Secretary*, K. S. Radhakrishnan.

JAMNALAL BAJAJ CENTRAL RESEARCH INSTITUTE FOR VILLAGE INDUSTRIES

Maganwadi, Wardha (Bombay State).

Aims and Objects : The Research Institute was established in 1955 under the First Five Year Plan for research and investigation for the improvement of the tools and techniques of village industries. It is under the Khadi & Village Industries Commission and is advised by a Research Committee consisting of members of the Commission and of the Khadi & Village Industries Board, representatives of the Council of Scientific and Industrial Research, the National Laboratories and others. The Institute is in charge of a Deputy Director.

Deputy Director, Dr. M. Sadashiva Rao.

COTTON MILLS

PULGAON COTTON MILLS LTD., (Formerly Pulgaon Cotton Spinning, Weaving & Manufacturing Co. Ltd.). Spindles 19,000, Looms 492. Managing Agents : Hardayal Sons, 59, Apollo Street, Fort, Bombay. Mills at Pulgaon.

‡ RAI BAHADUR BANSILAL ABIRCHAND SPG. & WVG. MILLS. Spindles 31,000, Looms 396. Owners : Shrimati Sodradevi N. Dalal and others. Office on Mill premises, Mills at Hinganghat.

RAI SAHEB REKHCHAND MOHOTA SPG. & WVG. MILLS PRIVATE LTD., Spindles 24,754, Looms 413, Mg. Director : Seth Mathuradas Mohota, Hinganghat. Mills at Hinganghat.

WEST KHANDESH DISTRICT

Headquarters :—Dhulia.

Talukas and Mahals :—Shirpur, Shahada, Taloda, Sindkheda, Nandurbar, Nawapur, Dhulia, Sakri, Akrani, Akal-kuva.

West Khandesh District lies roughly between 20° 38′ and 22° North Latitude and 73° 35′ and 75° 17′ East Longitude. It is bounded on the north by Jhabua District in Madhya Pradesh, on the east by East Khandesh District, on the south by Nasik District and on the west by Baroda District.

The area of West Khandesh is 5,391 sq. miles and the population 1,146,024 (1951 census). In the western parts Bhils who number 400,000 predominate. The languages spoken are Marathi, Gujarati and Bhili.

West Khandesh along with East Khandesh forms the most northerly section of the Deccan table-land. The river Tapi flowing from east to west divides it into two unequal parts. Of these the bigger lies in the south and is drained by the rivers Bural, Panjara, Bori and Girna. This is a long central plain comprising an extensive area of rich alluvial soil. Northwards beyond the plains the land rises towards the Satpura Hills. The country is rugged and thickly wooded and is mainly inhabited by Bhils. On the whole the District is well supplied with surface water.

AGRICULTURE

The main crops of this District are cotton, wheat, bajra, jawar and groundnut. Sugar-cane and chillies form the main irrigated crops. Lately many more sugar-cane crushing factories and gur manufacturing factories have been started in the District. There are two agricultural research stations—one for Cereal research and another for cotton research at Shahada and Dhulia respectively.

There are two types of irrigation in this District : (1) Well irrigation and (2) Bandhara irrigation. The rivers used for irrigation are chiefly the Panjara, Kan, Gural and Gomi, which are bunded at a number of places. Each bund irrigates about 100 to 200 acres. The total area under Bandhara is about 4,000 acres. The main crops grown on these Bandharas are sugar-cane, wheat and paddy, in this rotation. This system is known as Pad System.

There are two educational institutions in the Bhil area : Bhil Sudharna Committee and Bhil Seva Mandal. The Government has also opened a Sarvodaya centre at Khandbara for the uplift of the Bhil community.

The headquarters of the District Dhulia, was also the old capital of the united district of Khandesh. It is situated on the branch of the Central Railway which joins the main line at Chalisgaon.

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‡ Proprietary concern.

HOSPITALS

There are two civil hospitals at Dhulia, viz., Dhulia Civil Hospital, a Government institution and the Suwarta Memorial Hospital, run by the Presbyterian Mission. The Dhulia Civil Hospital also trains nurses and *Dais*. The Local Red Cross Society conducts an Ante-Natal Clinic, a Child Welfare Centre and a Family Planning Centre at Dhulia. There is also a free dispensary conducted by Prani-Rakshak Sanstha.

OFFICIALS

Collector and District Magistrate, M. A. Deshmukh, I.A.S.
District and Sessions Judge, D. P. Shikhare.
District Superintendent of Police, M. T. Satam.

EDUCATIONAL INSTITUTIONS

There are five High Schools in Dhulia, including one for girls. There are about 80 primary schools, where free and compulsory primary education is given to both boys and girls and 2 primary teachers' training colleges including one conducted by Government. There is also an Arts & Science College run by the S. S. P. Sanstha. The King Edward VII Technical School at Dhulia gives technical education to students. Government has started a graduates' Basic Education College, in the premises of Grand High School. The Institute of Engineering Technology, run by the Dhulia Education Society, Dhulia, started coaching students for Diploma in Civil Engineering, since June 1954. It has accommodation for about 120 students every year.

The Bhil Seva Mandal and the Bhil Sudhar Samittee, are working for the social and educational uplift of the Bhil community.

Two more institutions are the Gandhi Tatwadnyan Mandir, teaching Gandhian philosophy, and the Sanskrit Patashala teaching Sanskrit. There is a Historical Research Institute called Rajwade Sanshodhan Mandal where important manuscripts and historical articles and records are available for research and study. In Wak-Devata Mandir, all works of Sant Ramdas and literature pertaining to him are carefully preserved and further studies are being pursued.

Dhulia is the Divisional Headquarters of the Bombay State Transport Corporation, of the Khandesh Division. A direct bus service runs to Indore in Madhya Pradesh. There is also a big repair workshop.

DHULIA EDUCATION SOCIETY.—The Society owns two high schools: (1) The J. R. City High School and (2) The New City High School, the total number of boys being 1,561. The Society started an Institute of Commerce in 1955 and an Institute for Secondary Teachers' Certificate Course in 1957.

SHRI SHIVAJI VIDYA-PRASARAK SANSTHA, DHULIA.—This is the pioneer Educational Institution started in the year 1908.

The Institution runs a Boarding House for Girls, a High School and a Training College for men and women. It also runs a Cosmopolitan Hostel for Boys, recognized by the Government of Bombay and a Hostel for the Trainees in the Training College. From June 1957, the Institution conducts an Arts College and a Science College for training students, upto B.A. and Science Courses respectively, and an Institute for S.T.C. & O.P.Ed. training, with separate hostels attached to each of the above.

ASSOCIATIONS

MAHARASHTRA HARIJAN SEVAK SANGH

The Provincial Board with the help of its District and Taluka committees and Propaganda workers, is carrying on, besides welfare work in the form of hostels, Sanskar Kendras, Balwadis for boys and girls and scholarships for Backward class students, education and propaganda for removal of untouchability.

THE INDIAN RED CROSS SOCIETY, WEST KHANDESH BRANCH, DHULIA.—The Society has been for the last eleven years conducting a Child Welfare Centre, the first of its kind in the District, at Dhulia where children are given free milk and ultra-violet light medical treatment. Ultra-violet light is also given to children and women under medical advice. The society also opened an ante-natal clinic. In 1953 the Society opened a family planning centre. In 1955 the Society conducted first aid and home nursing classes for ladies.

DHULIA SAHAKAR NAGARIK SANGH.—This institution was established at Dhulia fifteen years ago with the object of educating Dhulia public in civic sense. *President*: Dr. B. B. Kirtane; *Secretary* V. B. Oka.

MAHATMA GANDHI TATWADNYAN MANDIR, DHULIA.—*Aims*: Founded at Dhulia in 1946 to perpetuate the memory of the late Mahadeobhai Desai, who devoted his whole life to the service of Mahatma Gandhi. It is designed to preserve all Gandhian literature and spread Gandhian philosophy. The site was given free by Shet Shaligram Ramchandra Bhartia and Shet Rameshwar Joharmal Poddar.

CLUBS

Dhulia Gymkhana.
Cumine Club.
Mahila Sadan (ladies).
Vanita Samaj (ladies).

BANKS

DHULIA URBAN CO-OPERATIVE BANK, LTD.—This Institution known as Dhulia Taluka Urban Co-operative Society was established in 1908, the first co-operative society in West Khandesh District; in 1923 it was converted into Dhulia Urban Co-operative Bank.

RAJWADE MANDAL PEOPLE'S CO-OPERATIVE BANK LTD., DHULIA.—This bank, one of the very few of its kind in the State, was established in February 1938. The shareholders of the bank have agreed to pay one-fourth from their share of dividend due from the bank each year, to a research institution—Rajwade Sanshodhan Mandal—established in the memory of the late Mr. Vishwanath Kashinath Rajwade, an eminent research worker.

INDUSTRIES

Dhulia is the biggest cotton centre in the Khandesh District and has a well regulated Cotton Market. There is also another regulated Cotton Market at Dondaicha in the Sindkheda Taluka on the Tapi Valley Section of the Central Railway.

There are Spinning and Weaving Factories.

The number of cotton ginning and cotton pressing factories is 47.

Dhulia has also been lately developing into a groundnut oil industry centre. There are about 42 oil mills, including 14 at Dhulia, which together produce about 2,000 tons of groundnut cake. One of these mills uses the latest type of oil expeller machinery. There are also saw mills.

SPINNING AND WEAVING MILLS

NEW PRATAP SPG., WEAVING AND MFG., CO., LTD., Spindles 47,324, Looms 1,020; Agents: Motilal Maneckchand and Sons. Office on Mill premises. Mills at Dhulia, West Khandesh.

YEOTMAL DISTRICT

Headquarters: Yeotmal.

Tahsils: Yeotmal, Darwha, Kelapur, Wun, Pusad.

The District lies between North Latitude 19° 26' and 20° 42' and East Longitude 77° 25' and 79° 9'. It is bounded on the north by Amravati, on the east by the Wardha River, on the south by the Penganga River, and on the west by Akola District. The area of the District is 5,219 sq. miles and the population 931,982. The language spoken is Marathi.

The District consists generally of hilly country formed by offshoots of the Ajanta chain. The rivers Wardha and Penganga and their tributaries constitute the drainage system of the District.

Yeotmal town is connected with the main railway line from Bombay to Nagpur through Darwha. The principal roads are those from Yeotmal to Dhamangaon, Darwha and Wun.

The staple foodgrain is jawar; other foodgrains are wheat and pulses. As elsewhere the most profitable cash crops are cotton and oilseeds. Forests cover a larger area than in any other District in the State and yield considerable quantity of timber and fuel. The principal industry is the preparation of cotton for the market. Exports include raw cotton, oilseeds, cereals and pulses, and the chief imports include cereals and pulses, salt and sugar.

OFFICIALS

Collector, P. V. Pagay.
District Superintendent of Police, P. A. Bamlawale, I.P.S.

ASSOCIATIONS

Yeotmal District Association, Yeotmal.

TRADES & PROFESSIONS

DAYABHAI MAVJI, Prop., Amritlal Dayabhai, Authorised Distributors for: 1. Hindustan Lever Ltd. 2. The Meenakashi Match Factory, Kovilpatti. 3. Berar Oil Industries, Akola. Grains and Kirana, Oil and Oil-seeds Merchants and Commission Agents, YEOTMAL. Phone: 4; Residence: 4-R. Grams: "JAIHIND."

ZALAWAD DISTRICT

Area : 3,509 sq. miles ; *Population :* 495,928.

Headquarters : Surendranagar.

Taksils :—Wadhwan (Wadhwan) ; Chotila (Chotila) ; Muli (Muli) ; Dhrangadra (Dhrangadra) ; Halvad (Halvad) ; Dasda (Dasda) ; Limbdi (Limbdi) ; Lakhtar (Lakhtar) , Sayla (Sayla).

There are about 12 towns with a population of over 5,000 and 672 villages.

About 70 per cent of the population lives in the rural areas. The main occupation of the people is agriculture, and the important crops are bajra, jawar, cotton, paddy, groundnut, wheat and gram.

The main industries of the district consist of textiles, salt, soda ash, potteries, ginning and pressing factories.

OFFICIALS

Collector, G. M. Chudasama, I.A.S.
District Superintendent of Police, K. J. Bali.
District and Sessions Judge, T. U. Mehta.

ASSOCIATIONS

Saurashtra Millowners' Association, Dhrangadhra House, Surendranagar.

COTTON MILLS

KANTI COTTON MILLS LTD., (Formerly Wadhwan Cam) Mills), Spindles 16,244, Looms 314. Mg. Agents ; Chandulal Ratilla & Co. Office on Mill premises. Mills at Mill Road, Surendranagar.

TRADES & PROFESSIONS

PARMAR MECHANIC WORKS, Surendranagar (Bombay State), W. Rly. Manufacturers of "DIAMOND" Brand Roller Bearing Spindles for Textile Industry.

SCIENTIFIC MECHANIC WORKS, Surendranagar (Bombay State), W. Rly. Manufacturers of "SMW" Brand Roller Bearing inserts for Textile Industry."

SHREE KRISHNA CAST IRON & BRASS WORKS, Surendranagar. (Sa.) Props. : L. R. Engineer & Sons. Manufacturers of Inner Tubes of all designs and descriptions of high precision 'HORSE' brand.

DELHI

Area: 578 sq. miles; Pop.: 1,744,072; Hindus: 1,467,854; Sikhs: 137,096; Muslims: 99,501.

Under the Constitution of India, Delhi is a Union Territory. The Centre exercises control over the Territory through a Chief Commissioner appointed by it.

Delhi has an Advisory Council which is associated with the Home Minister, who is responsible for the administration of the Territory.

The Council comprises (1) all members of Parliament representing Delhi, (2) the Mayor, (3) the Vice-Chancellor of Delhi University, and (4) the Vice-President of the New Delhi Municipal Committee.

The Council is consulted in regard to the (1) general question of policy relating to the administration of the Territory, (2) all legislative proposals concerning the Territory, including proposals to extend any State Acts, (3) general matters relating to the annual financial statement of the Union in so far as it concerns the Territory and such other financial questions as may be specified by the President and (4) any other matter about which it may be considered necessary or desirable by the Home Minister that the Committee should be consulted.

Subject to the discretion of the Home Minister, members of the Council have the right in regard to interpellations analogous to and under similar limitations as those of members of a State legislature.

The meetings of the Council are presided over by the Home Minister.

Besides, there are two Advisory Boards to advise the Chief Commissioner in regard to industrial matters and public relations. They are presided over by non-officials.

The Highest Court of Appeal in Delhi is the Punjab High Court—circuit bench sits in Delhi.

GREATER DELHI

Delhi is really the size of a district. The majority of its population lives in the urban areas of Delhi.

Development work is being carried out under the supervision of the Delhi Development (Provisional) Authority.

New Delhi is an inflated officers' colony. The density of the population which is thin consists largely of Government officials. The density is only 45 persons per acre, as against 500 or more in Old Delhi. Apart from the lack of transport facilities, there are not enough post offices, schools or colleges, hospitals, libraries or recreation grounds either in Old Delhi or in New Delhi.

In order to accommodate an inflated population, the local authorities, with the help of the Central Government, embarked on the construction of numerous residential colonies in the immediate neighbourhood of Old and New Delhi. Most of these have their own shops, schools and police stations.

The following is a list of refugee housing schemes which have been completed:

(1) Rajendar Nagar; (2) Patel Nagar (Shadipur Extension); (3) Malkaganj; (4) Nizamuddin Village; (5) Nizamuddin Extension; (6) Jungpura Village Extension; (7) Kalkaji; (8) Kingsway (Camp Mud houses, Hudson Lines, Outram Lines, Reids Barracks); (9) Band-stand Area; (10) Lajpat Nagar; (11) Sheikh Sarai; (12) Indra Nagar; (13) Tilak Nagar; (14) Malviya Nagar; (15) Bharat Nagar; (16) Purana Qila; (17) Kotla Ferozshah; (18) Rehgarpura; (19) Anguribagh; (20) Vijaynagar; (21) Motia Khan; (22) Nicholson Road Colony; (23) Purdah Bagh; (24) Narela; (25) Alipur and (26) Kotha Mughal.

The main railway station is the junction at Old Delhi, from where originate the railway lines to the Punjab, U.P., Bombay, Calcutta and Madras. The headquarters of the Northern Railway are located here.

The following are the estimated quantities of certain selected commodities imported into the Municipalities of Delhi (monthly averages in Maunds): Wheat 207,874; Grams 164,776; Rice 21,487; Gur 4,503; Refined sugar 74,967; Tea 7,128; Ghee, cream and butter 19,158; Dried fruits and nuts 56,953; Provisions 18,900; Coal 65,538; Steam coal, soft coke and hard coke 8,72,405; Kerosene 1,42,516 (gallons); Hides and skins 12,350; Agra stones 1,84,421; Cement 4,12,003; Asbestos sheets 305; Chemicals 41,696; Face and bath powder and tooth paste 952; Hair oil and perfumed oil 1,152; English medicines 14,144; Indian medicines 29,131; Soaps 3,752; Shoes and apparel 9,546; Hardware and cutlery 1,42,914; Toys and toy goods 2,721; Betel leaf 2,063.

According to 1956 figures there were 8,213 registrations (monthly averages) at the Regional Employment Exchange and 1,038 placings, against 1,697 vacancies notified.

The average number of workers employed, latest available, in the processes allied to Agriculture 18; Textile Industries 17,915; Printing, publishing and allied industries 4,421; Chemical and Chemical products industries 1,797; Non-metallic mineral product industries 1,156; Manufacture of metal products 2,982; Manufacture of machinery and electric machinery 2,679; Electric machinery 1,119.

The number of broadcast receiving licences at the end of December 1956 was 57,013.

INDUSTRY

The main industries are: cotton mills; hand and powerloom weaving; hosiery; pottery; flour mills; vegetable oil mills and expellers; paints and varnishes; rubber goods; imitation jewellery; copper and brass utensils; wire netting; sola hats; leather goods, and tanning industry.

The total number of factories registered under the Act was 892 in 1957.

The provisions of the Minimum Wages Act are fully enforced in Delhi.

The number of registered trade unions at the end of March 1957 was 273.

The total number of trade disputes reported in 1956 was 404, disputes amicably settled 83, and out of the rest 75 were referred to adjudication.

Traders from neighbouring States regularly visit Delhi to make their annual purchases which include besides textiles, hardware, hosiery, utensils and stoneware.

There is also a very flourishing grain market, serving local needs.

As in all towns, different parts of Delhi specialize in different trades. The area round about Chandni Chowk for instance is the centre for textiles and general merchandise. The trade in copper and brass utensils is located in Chawri Bazar, which in addition has a market for hardware. Khari Bawli is the granary of Delhi with the adjoining streets specializing in condiments, spices, pickles, dry fruit, etc. Lal-Kuan Bazar is noted for building material, while Sadar Bazar deals in wholesale hosiery, glass and china-ware and general merchandise. Silver-ware is retailed in Dariba Kalan, while the bullion market is localized in Chandni Chowk.

Almost all the banks have their branches in Connaught Place which is New Delhi's chief shopping centre, and Chandni Chowk.

Tourist traffic has grown into a regular new trade. Almost all the Indian and foreign air companies and travel agencies have offices in New Delhi.

AGRICULTURE

Figures given below are for 1956-57:

Total land: 365,598 acres; area under forests: 45 acres; area not available for cultivation: 78,881 acres; other uncultivated land excluding fallow land: 45,562 acres; fallow land: 11,096 acres; net area sown: 216,885; total irrigated area: 68,350 acres.

The following is a crop-wise break up of the area under food and cash crops:

Wheat, 59,067 acres; Bajra, 57,191 acres; Jawar, 46,518 acres; Maize, 2,676 acres; Barley, 15,283 acres; Grams 22,168 acres; Sugarcane, 3,277 acres; Oilseeds, 3,673 acres; Cotton, 256 acres.

The following is the production of major crops: Wheat 16,224 tons; Gram 3,809 tons; Jowar 6,368 tons; Bajra 6,472 tons, Sugarcane 4,761 tons; Cotton 71 tons; Oilseeds 77 tons.

Till recently, Delhi had a large number of gardens where fruit such as bananas, pears, mangoes, pomegranate, lokats, figs, papais, caster-fruit and plums were grown. But they are getting less now because of urbanisation.

The pressure of population and anti-malaria drives resulted in clearing the land of these gardens.

Delhi now imports most of its fruits. But on large areas—a total of 3,106 acres—in and around the city vegetables are still grown.

It is estimated that there is one milch animal for every three or four persons. The average yield of a cow and buffalo comes to 2 seers and 4·2 seers respectively.

The annual average daily production of milk is estimated at 4,285 maunds.

There are about 40 poultry farms. It is believed about 140,000 eggs are daily imported into Delhi at an annual cost of Rs. 45 lakhs. A five-year scheme is in operation which aims at making Delhi self-sufficient in eggs.

The local consumption of fish is estimated at 150 maunds a day. Fish is at present imported, some caught in the Jamuna.

The village development scheme covers all the 309 villages. A sum of Rs. 31 lakhs has been allocated for a period of 5 years. A portion of this will be contributed by the Local Administration and the rest by the Centre towards recurring and non-recurring expenditure.

The Delhi Land Reforms Act, 1954 which came into effect on July 20, 1954, covers land tenure in the whole Territory. The Land Revenue Act provides for a uniform system of Land Revenue administration. Previously, part of the land was under the Punjab laws and part under the U.P. laws.

TRANSPORT

Delhi occupies a pivotal point in the net-work of national railways, highways and airways.

It is one of the biggest railway junctions in the country handling about 23 mail, 28 express trains besides several goods and passenger trains every day.

All the principal inter-State roads of significance converge on Delhi.

It is also linked with important cities and foreign countries by air through its two air ports, Willingdon and Palam.

There are in Delhi 600 cycle-rickshaws, over 150,000 bicycles, 13 tum tum, 1,250 Kharkharas, 2,000 hand carts, 1,700 animal-driven carts, 5,000 tongas, 5,072 motor cycles, 1,302 taxis and hire cars, 9,961 cars, 898 buses, 2,798 lorries, 1,207 motor rickshaws and 2,793 goods vehicles. (Figures are for 1956-57.)

Bus transport in the urban area is provided by the Delhi Transport Service, which also operates the tramway service There are a few private buses operating in suburban areas. In 1957 the Transport Service had 450 buses operating on 30 routes. Total mileage covered per day : 40,000.

General Manager, B. K. Lall; *Asstt. Genl. Mgrs.* : P. D. Mehta (*Adm.*), C. W. Scott (*Traffic*).

HEALTH, EDUCATION

Birth-rate : 33·4 ; death-rate : 9·1 ; infant mortality : 80·4 per thousand people.

There are 33 hospitals and 48 dispensaries of the modern system of medicine, two Ayurvedic and Unani hospitals and 15 dispensaries and six Homoeopathic dispensaries. The total bed strength is about 4,000.

Some leading hospitals are :

Mrs. Girdhari Lal Maternity Hospital, Circular Road, outside Ajmeri Gate ; Hindu Rao Civil Hospital, the Ridge, Sabzi Mandi ; Infectious Diseases Hospital, Kingsway ; Irwin Hospital, Circular Road ; Jeewan General Hospital, Panchkuin Road ; Lady Hardinge Hospital, Panchkuin Road ; St. Stephen's Missionary Maternity Hospital, Tis Hazari ; Safdarjang Annexe Hospital, New Delhi ; Shroff Charity Eye Hospital, Daryaganj ; Silver Jubilee T.B. Hospital, Kingsway ; Victoria Zenana Hospital, Machhliwalan, Daryaganj ; Willingdon Hospital, Irwin Road.

Money allotted under the Second Five-Year Plan for medical development schemes : Rs. 1·5 crores.

Mortality from individual diseases is as follows (for 1957) : Small-pox, 140 ; dysentery and diarrhoea 469 ; respiratory diseases, 2,310 ; injuries and suicides accounted for 234 deaths. Live births 28,550 ; still births 200.

There are 89 higher secondary, 76 high, 91 middle, 47 senior basic, 329 primary, 272 junior basic and 3 nursery schools. Total number of students 281,413 ; total number of teachers 8,549.

There is one Community Development Block, one post-intensive N.E.S. Block and two N.E.S. Blocks at Shahdara and Najafgarh. Among these they cover the whole Territory.

The Development Block under the Community Projects programme has an area of 124,500 acres, of which 91,400 acres are under cultivation. It comprises 105 villages with a population of 112,500.

The N.E.S. Blocks comprise 226 villages, a population of 251,403, a total area of 219,248 acres.

The Co-operative Movement in 1957 comprised 1,565 societies, with a membership of 87,726 and a working capital of Rs. 374·56 lakhs and share capital of Rs. 55·78 lakhs. The loans advanced amounted to Rs. 1·13 crores.

1951 CENSUS

Name of Local Body*	Population		
	Males	Females	Total
Municipal Committee, Delhi ..	516,737	398,053	914,790
New Delhi Municipal Committee, New Delhi	156,601	119,713	276,314
N.A.C. Civil Station	47,229	33,743	80,972
N.A.C. Red Fort, Delhi	6,473	3,429	9,902
N.A.C. West, New Delhi	34,934	23,941	58,875
Delhi Cantt.	26,031	13,458	40,389
Municipal Committee, Shahadara	16,842	13,660	30,502
N.A.C. Najafgarh	2,543	2,548	5,091
N.A.C. Narela	5,102	4,541	9,643
N.A.C. Mehrauli	3,786	3,657	7,443
Rural Area	—	—	306,[illegible]

DELHI MUNICIPAL CORPORATION

The Delhi Municipal Corporation, replacing all local bodies, except the New Delhi Municipal Corporation and the Cantonment Board and constituted under the Delhi Municipal Corporation Act, 1957 came into being on April 7, 1958. The Corporation is patterned on the Bombay model. It has 86 members, including six aldermen.

The Corporation will have under its jurisdiction a number of organisations which have hitherto been responsible for fulfilling a number of civic needs They include the Delhi State Electricity Board, the Joint Water and Sewage Board and the Delhi Road Transport Authority. A special sub-committee of the Corporation will look after the needs of the rural areas.

Parts of New Delhi and Cantonment have been kept out of the Corporation. About 90 per cent of the houses in this area are owned by the Government and most of the residents are Government employees.

The Corporation would have an income of about Rs. 10 crores.

Mr. P. R. Nayak, I.C.S., has been appointed first Commissioner of the Corporation.

The Delhi Development Authority was constituted at the end of 1957 under the Delhi Development Authority Act, 1957. It replaced the Delhi Development (Provisional) Authority. The D.D.A. is in charge of the development of Delhi and preparation of a Master Plan for the capital.

The head of the Union territory of Delhi, who will be named the Administrator, is the chairman of the Authority.

SOME INSTITUTIONS

The following are some of the educational, training and research institutions :

Kasturba Balika Vidyalaya (Mehrauli), Harijan Udyogshala (Harijan Colony, Kingsway), Janata College (Allipore), Lady Noyce School for Deaf and Dumb (near Rajghat), Government Teachers' Training Institute for Women (Daryaganj), Lady Reading Health School, Indian Agriculture Research Institute (Pusa Road), Shri Ram Institute for Industrial Research (University Road, Civil Lines, Delhi), Malaria Institute of India, Patel Chest Institute (University Campus), Delhi Institute for the Blind (Panchkuin Road)

Indian Agricultural Research Institute, New Delhi (*in Agriculture*), Jamia Millia Islamia, Jamianagar, Delhi (*General*) ; Ayurvedic and Unani Tibbia College, Delhi (*Medicine and Public Health*) ; Statistical Branch of the Indian Council of Agricultural Research, New Delhi (*Statistics*) ; Jamia Training Institute, Jamia Millia Islamia, Jamianagar, Delhi (*Teachers' training*) ; Central Road Research Institute P.O. Okhla, New Delhi (*Scientific*) ; Indian Meteorological Department, New Delhi (*Scientific*) ; Malaria Institute of India, 22, Alipur Road, Delhi (*Scientific*) ; National Physical Laboratory, Hillside Road, New Delhi (*Scientific*) ; Department of Archaeology, New Delhi

* All these bodies except the New Delhi Municipal Committee and the Delhi Cantonment Board are extinct.

DELHI UNIVERSITY

The University of Delhi was established at Delhi in May 1922, to function as unitary teaching and residential university, but it became a Federal University by an Amendment Act No. XXIV of 1943, to the Delhi University Act VIII of 1922. The University Act was further amended by Act V of 1952. The University has now been made a teaching and affiliating University.

The University confers the following Degrees and Diplomas on students on passing the appropriate examinations:

Degrees: Ph.D. (Arts, Science, Law, Education, Medical Services and Social Sciences, M.A., M.Lib. Sc., M.Com., M.Sc., LL.M., B.C.L., LL.B., M.Ed., B.A. (Hons.), B.Ed., B.A. (Pass), B.Sc. (Hons.), B.Sc. (Pass), B.Com., B.Sc. (Home Science); B.Sc. (Nursing) Hons.; B.Sc. (Agriculture) Hons., B.E., B.Ch.E., B.Text., B.Arch., M.B.B.S., M.Sc. (Physiology, Pharmacology and Anatomy), M.S., and M.D. (Medicine, Obstetrics and Gynaecology and Pathology).

Diplomas: D.T.D., Dip. Lib. Sc., Diploma in Russian Language, Diploma in Hindi, Urdu and Panjabi, Diploma in Economic Administration & Diploma in Business Administration.

Certificates: Certificate of Proficiency (Law), Special Subjects Certificate in Law, Certificate of Proficiency (Russian), Certificate in French, Certificate in German, Certificate in Italian, Certificate in Swahili, Certificate in Hausa.

Medium of instruction: English.
No. of students (1956): 13,603; Income (1955-56): Rs. 33,03,221; Expenditure: Rs. 33,03,727.

Chancellor, Dr. S. Radhakrishnan.
Pro-Chancellor, Sudhi Ranjan Das.
Vice-Chancellor, Dr. V. K. R. V. Rao.
Registrar, T. P. S. Iyer.

CENTRAL COLLEGE OF AGRICULTURE

(I.A.R.I., New Delhi.

The college was established by the Government of India in April 1947 and provides a well planned training in Scientific Agriculture leading to the B.Sc. (Hons.) Agriculture degree of the Delhi University. It has been integrated with the I.A.R.I. since July 1951.

During 1958-59, only students for third year Hons. Agricultural Class will be admitted.

Principal, Dr. E. S. Narayanan, M.A., Ph.D. (Lond.), D.I.C., FRES, FRSI, FASC., F.N.I.

CENTRAL INSTITUTE OF EDUCATION

(33 Probyn Road, Delhi 8.)

The Institute was founded on the 19th December 1947 as an all-India institution under the Central Ministry of Education, offering training particularly of an advanced nature to teachers and other educational personnel and for conducting researches in educational problems. It is affiliated to the University of Delhi for B.Ed., M.Ed. and Ph.D. degrees. Attached to it is a psychology wing with a well-equipped laboratory for conducting researches in psychology and education. There are also an experimental basic school, a nursery school and a child guidance centre as part of the institute set-up. The institution has its own hostels for men and women students.

Principal, Dr. Ea Pires, M.A. (Lond.), Ph.D.

COLLEGE OF NURSING

(Jaswant Singh Road, New Delhi.)

The College was established by the Government of India in July 1946 for the purpose of developing a most highly qualified leadership for the nursing profession in this country. The College draws students from States throughout India. There is a 4-year course leading to the B.Sc. (Hons.) degree in Nursing. The College also provides four Post Certificates courses (1) Ward Sisters 3 months, (2) Sisters Tutors, (3) Midwifery Tutors, (4) Nursing Administration. Courses 2, 3, and 4 can be taken after successful completion of Ward Sisters' Course and are for a duration of 7 months. Open to qualified nurses with experience and ability to fit them for senior and responsible position and constructive work in hospital nursing services and education. These courses lead to certificates from the Government of India, recognised by the All India Nursing Council.

Principal, Margaretta Craig, M.A., B.Sc., R.N., R.M.

DELHI COLLEGE

(Ajmeri Gate, Delhi.)

Delhi College is the oldest college in Delhi having been established in 1828. Since September 1947, it has been reorganised as a non-communal and a co-educational college affiliated with the Delhi University. It has arrangements for teaching all Science & Arts subjects upto the M.A., M.Sc., standard.

The College building is centrally situated at the junction of Old Delhi and New Delhi at Ajmeri Gate, on premises of its own.

Principal, M. M. Begg, M.A.

DELHI POLYTECHNIC

(Kashmere Gate, Delhi.)

There are six senior departments, viz. Engineering (Elect., Mech., Civil), Applied Science (Chem. Eng. & Tech.), Textiles, Commerce, Architecture Art, where courses leading to Delhi University degrees or diplomas or Certificates of the All India Council for Technical Education and pre-Engineering Certificate (equivalent to I Sc.) of the Government of India are offered. The degree courses are of four years' duration inclusive of practical training (Architecture 5½ years) and the diploma-certificate courses are of 3-7 years' duration.

Attached to the Polytechnic is a Technical Higher Secondary School in which, in addition to the usual subjects, Elementary Engineering Science, Drawing and Workshop Practice are taught in the last 3 years.

Principal, S. C. Sen, B.Sc. (Engg.) (Glasgow).

DELHI SCHOOL OF ECONOMICS

(Malkaganj Rd., Delhi 8.)

This is an all-India institution which was established by the Delhi University and the Delhi School of Economics Society to concentrate on economic research in addition to undertaking some post-graduate teaching and guidance of research as in the University Department of Economics.

Director: Dr. B. N. Ganguli M.A., P.R.S., Ph.D.

DELHI SCHOOL OF SOCIAL WORK

(University Road, Delhi.)

Delhi School of Social Work is a Constituent College of the University of Delhi as a post-graduate institution training students for M.A. in Social works.

The College imparts training in Social Work to young men and women holding college degrees and have the aptitude for Social Work. The College occasionally offers courses of Orientation and in Service training for specific fields of Service.

Limited hostel accommodation is available for both men and women.

Principal, M. S. Gore, M.A., Dip. S.S.A.

DELHI UNIVERSITY FACULTY OF LAW

(Old Viceregal Lodge, Civil Lines, Delhi.)

The Faculty provides courses both for legal practice and for study of Law as a cultural subject. It prepares students for the LL.B., B.C.L., LL.M. and Ph.D. Degrees, as well as for the Certificate of Proficiency Examination (Punjab) in Law. There is also provision for special courses in the following subjects:—(a) Law of Taxation (b) Labour Law; (c) Company Law; (d) Administrative Law. It has a well-equipped Library containing about 14,000 volumes including a large number of reports (Indian, English and American), and standard text-books. It also subscribes to a large number of journals, including English and American. The University Halls admit a certain number of students of the Faculty. Present strength: over 1,000 students; 31 teachers.

Dean, Prof. L. R. Sivasubramanian, B.A., M.L.

DESHBANDHU COLLEGE

(Kalkaji, New Delhi.)

The College was started in July, 1952, by the Ministry of Rehabilitation, Govt. of India, with the object of providing educational facilities to residents of the newly constructed colonies in the South of Delhi. It imparts instruction in Science and Arts to students preparing for the qualifying examination, the Pre-Medical examination and the B.A. and B.Sc. Pass Course. It is a co-educational institution.

Principal: Harish Chandra Kathpalia.

HANS RAJ COLLEGE

(University Enclave, Delhi.)

The College was started in 1948, by the D.A.V. College Managing Committee and is housed in the airy and spacious rooms of a newly constructed building in the University enclave. The chief aim of the college is to inculcate among the students, the spirit of service and good citizenship and to develop qualities of leadership. The College which is a constituent college of the University of Delhi imparts instruction in Science, and Arts to students preparing for preparatory pre-Medical, B.A. (Pass and Hons.), B.Sc. (Pass and Hons.), and M.A. Examinations.

The College has a spacious hostel with modern amenities.

HINDU COLLEGE

(Imperial Avenue, Delhi.)

This is a first grade constituent college of the Delhi University. It imparts instruction to students upto the M.A. standard and registers candidates for the Ph.D. degree. It admits students to the Faculty of Science upto M.Sc. standard including the Pre-medical course. It has a well-equipped library and reading room and has a hostel for resident students.

Principal: Raj Narain Mathur.

INDIAN SCHOOL OF INTERNATIONAL STUDIES
(Barakhamba Rd., New Delhi.)

Director, Dr. A. Appadoral; *Professor of International Law*, Prof. Quincy Wright; *Head of the Department of American History and Institutions*, Prof. Phillips Bradley,; *Head of the Department of East Asian History and Institutions*, Prof. M. Inoue; *Head of the Department of Central Asian History and Institutions*, Prof. M. Murakami; *Head of the Department of Commonwealth History and Institutions*, Prof. N. Mansergh; *Head of the Department of International Economics*, Dr. S. Mookerjee; *Head of the Department of Southeast Asian History and Institutions*, Dr. B. R. Chatterji; *Head of the Department of South Asian History and Institutions*, Dr. Tara Chand; *Head of the Department of West Asian History and Institutions*, Prof. A. Aleem; *Hony. Administrative Officer*, Rai Bahadur A. P. Dube.

INDRAPRASTHA COLLEGE FOR WOMEN
(Alipur Road, Delhi.)

This is a constituent college of the Delhi University. It imparts education in Arts and Science upto the M.A. standard, and provides hostel accommodation as well as conveyance facility.

Principal: B. Das Gupta.

LADY HARDINGE MEDICAL COLLEGE FOR WOMEN
(Lady Hardinge Road, New Delhi 1.)

The college is situated on Lady Hardinge Road, New Delhi and the hospital on Panch Kuin Road. It was opened on 17th February 1916 and provides a 5 years' course of instruction and one year rotating internship for the M.B.B.S. degree of the Delhi University. It also gives post-graduate instruction for the M.Sc. degree in Anatomy, Physiology and Pharmacology, M.D. in Medicine, Obstetrics and Gynæcology, and Pathology and M.S. in Surgery. It has been recognised for this course by the Delhi University from the year 1955. It is a residential college and has arrangements for accommodating 300 medical students in the college hostels. The hospital, which serves as a teaching field for the college students is well-equipped with X-ray, and Electrical appliances and has departments of Surgical, Obstetrical, Gynæcological, Medical and Ear, Eye, Nose and Throat for indoor and outdoor women and children patients only.

Principal: Dr. H. B. N. Swift.

LADY IRWIN COLLEGE FOR WOMEN
(Sikandra Road, New Delhi.)

Lady Irwin College is the first Institution for young women in the country to recognise the necessity for scientific and professional instruction in Home Science suited to Indian conditions of life. It was established on November 12, 1932.

Five departments are maintained at present (1) a Needlework Diploma Course extending over a period of 2 years, (2) a Teachers' Training Diploma Course extending over one year, (3) a Home Science Diploma Course extending over two years, (4) a B.Sc. Course in Home Science extending over a period of three years and (5) the B.Ed. course.

It also provides instruction in Vocal and Instrumental Music, Indian Dancing, Painting, Arts and Crafts, Shorthand and Typing.

Directress: Mrs. B. Tara Bai, B.A., L.T. & B.Sc. (Home-Science) (Lond.).

MIRANDA HOUSE (UNIVERSITY COLLEGE FOR WOMEN)
(Probyn Road, Delhi 8.)

This college imparts University education to women students in all Arts and Science subjects for the B.A., B.Sc. (Pass and Hons.), M.A. and M.Sc. degree courses. The College building and the hostel are situated on the Probyn Road in the Delhi University Campus.

Principal, Mrs. S. Krishnasami.

RAMJAS COLLEGE
(Central Avenue Road, Delhi 8.)

The College was founded in 1917 and is one of the constituent colleges of the University of Delhi. It provides instruction for all the examinations of the University of Delhi including the Qualifying B.A., B.A. (Hons.), B.Sc. (Pass and Honours), B.Com., M.A. and M.Sc.

The new building in the University Campus was opened in July 1954.

Principal: B. B. Gupta, M.A.

SHRI RAM COLLEGE OF COMMERCE
(Central Avenue Road, Delhi.)

The institution is located on Central Avenue in the Delhi University Campus. It is a first grade professional college imparting instruction to students preparing for the B. Com., M. Com., B.A. (Hons.) and M.A. in Economics Examinations. The College was founded in 1920 by the Commercial Educational Trust and was recognised by the University of Delhi in 1926 as one of its constituent colleges. It was raised to the Degree standard in 1932, and has many different extra-curricular activities.

Principal: Jai Narayan Vaish, M.A., O.D.A., F.C.A.

SRI GURU TEGH BAHADUR KHALSA COLLEGE
(Karol Bagh, Delhi.)

Principal, S. Gurbachan Singh Bal, M.Sc.

ST. STEPHEN'S COLLEGE
(Imperial Avenue, Delhi.)

The College is situated on Imperial Avenue Road near the University of Delhi and is housed in a newly constructed building. It prepares students in Arts and Science for the degree examinations (Pass and Hons.), M.A., M.Sc. It has a highly qualified staff and is equipped with a library of its own.

Principal, D. Raja Ram.

MISSIONARY AND RELIGIOUS SOCIETIES

CAMBRIDGE BROTHERHOOD OF THE ASCENSION
Cambridge Brotherhood House, 7, Court Lane, Delhi 8.

Head: Revd. K. G. Sharp, M.A.

CHURCH OF ST. JAMES
Kashmere Gate, Delhi 6.

Vicar: Revd. I. C. Weathrall.

ASSOCIATIONS & SOCIETIES

ALL DELHI SARRAFA ASSOCIATION
C/o M/s. Mahboobsingh Ranjit Singh, Dariba Kalan, Delhi.

Patron: Krishan Khanna, M.C.; *President:* Kishan Chand Jain; *Vice-President:* Kanshi Ram; *General Secretary:* Mahatab Singh Jain; *Secretary:* Mali Ram.

THE ALL-INDIA ANGLO-INDIAN ASSOCIATION
Bombay Life Building, New Delhi.

President-in-Chief, Frank Anthony, B.A., Bar-at-Law, M.P.; *Honorary General Secretary*, A. E. T. Barrow, M.P., B.A., H. Dip. Ed. (Dublin).

ALL-INDIA ARYA DHARMA SEVAK SANGH
P.O. Birla Lines, Subzi Mandi, Delhi.

ALL-INDIA BACKWARD CLASSES FEDERATION
Mohalla Ahiran, New Delhi.

ALL-INDIA BOY SCOUTS ASSOCIATION
(General Headquarters.)
7, Jangpura B Extension, Mathura Road, New Delhi 14.

Aims: The aim of the Boy Scouts Association is to help boys irrespective of race, creed, or caste, to become good citizens, reverencing God, living as loyal citizens and subordinating personal interests to the welfare of others, abstaining from violence of thought, word or action; to form their character by training them in habits of observation, obedience and self-reliance; inculcate loyalty, patriotism, thoughtfulness; to teach them services useful to the public and handicrafts useful to themselves, and to promote their physical development and health.

OFFICE-BEARERS.—*Chief Commissioner for India*, Vyas Deo Misra, M.A. (Eng.), M.A. (Econ.), B.Sc., LL.B., Barrister-at-Law.

Chief Scout for India, Col. Nawab Sir Muhammad Ahmad Said Khan of Chhatari, M.P., G.B.E., K.C.S.I., K.C.I.E., M.B.E., LL.D.

Deputy Chief Commissioner for India, Nawab Syed Kaiser Hussain Rizvi, B.A. (Hons.), M.A., LL.B.

International Commissioner, Lieut.-Colonel C. L. Bhola, M.B.B.S. M.R.C.P. (Edin.), D.P.H., D.T.M. & H., I.M.S. (Retd.).

National Commissioner, Dr. P. D. Dhameja, M.B.B.S., L.R.C.P. (Lond.) M.R.C.S. (Eng.), D.A.

Hony. National Commissioner, P. C. Mukerjee, Chairman, Railway Board.

Camp Chief for India, A. S. Virley, B.A., M.B.E.
General Secretary for India, S. H. A. Jaffri, B.Com., D.C.C., Ak.L.
Editor (Indian Scouter): Prof. V. M. Misra, M.Sc., B.Sc. (Hons.)
National Secretary, Prof. Om Prakash, M.A.

ALL INDIA CO-OPERATIVE UNION
72, Jorbagh Nursery, New Delhi 3.

National organisation of the Co-operative Movement with State Institutions as members. Devoted to promotion of co-operation in all its aspects.

President, K. D. Malaviya.
Vice-Presidents, Prof. N. G. Ranga, M.P., Dip., Narain Sinha.
Hony. General Secretary, B. J. Patel.

ALL-INDIA GLASS MANUFACTURERS' FEDERATION
Gobind Mansion, Connaught Circus, New Delhi.

President, H. C. Varhnei.
Hony. General Secretary, S. K. Bhargava.
Secretary, S. Jaswant Singh Sodhi.

ALL INDIA INSTITUTE OF MEDICAL SCIENCES
P. Box No. 3010, New Delhi.

ALL INDIA MOTOR UNIONS CONGRESS
16-A, Asaf Ali Road, New Delhi.

President, Rajkumari Amrit Kaur, M.P.; *Secretary General:* Kundan Lal; *Working President:* S. Harbhajan Singh.

ALL-INDIA NEWSPAPER EDITORS' CONFERENCE

50, Theatre Communication Bldgs., New Delhi.

President, J. Natarajan; *Secretary-General*, D. R. Mankekar; *Office Secretary*, Jag Parvesh Chandra.

ALL-INDIA ORGANISATION OF INDUSTRIAL EMPLOYERS

28, Ferozshah Road, New Delhi 1.

Established in 1933. The objects of the Organisation are to promote and protect the industrial development of India by studying various problems relating to trade, industry and labour and advising the Central and State Governments suitably; to study questions coming up at the International Labour Organisation and other international and national conferences from the point of view of Indian industry and to enable the Indian representatives at these conferences to take an appropriate stand; and to promote harmonious relations between the management and labour.

Any association representing employers in any trade and industry is entitled to become an association member of the Organisation. Any individual, firm or joint-stock company engaged in any industry is eligible to the individual membership of the Organisation. The annual subscription for association members is Rs. 500 and for individual members, Rs. 100.

President, Lala Lakshmipat Singhania, Calcutta.
Secretary-General, G. L. Bansal.
Secretary, P. Chentsal Rao.

ALL-INDIA PEACE COUNCIL

14, Munshi Niketan, Kamala Market, New Delhi.

President.—Dr. S. D. Kitchlew.

ALL-INDIA POSTMEN & LOWER GRADE STAFF UNION

Mori Gate, Delhi 6.

ALL-INDIA REFUGEE ASSOCIATION

Umrao Singh Bldg., C. Circus, New Delhi.

ALL INDIA TUBEWELL DRILLERS ASSOCIATION

12, Scindia House, New Delhi.

Secretary: Gurdip Singh, Ex-Brig, I.A. (Retd.)

ALL-INDIA WOMEN'S CENTRAL FOOD COUNCIL

C/o Jamnagar House, Mansingh Road, New Delhi.

Aims & Objects: To impart education and training to the people of India in the use of non-cereal foods, the ways and methods of avoiding food wastage, the ways of economic and scientific production and preparation of food, the adoption of economic, clean and nutritionally well-balanced diet; and with foregoing objectives in view to make and provide cheap and nutritive food for the benefit of the poor and for the purpose, to conduct cafeterias and other agencies; to establish, maintain and conduct classes, schools, colleges or farms for the promotion of the objects of the Council.

ALL-INDIA WOMEN'S CONFERENCE

(See under Some Women's Associations).

ARYA ORPHANAGE

Pataudi House, Daryaganj, Delhi.

President: Des Raj Chaudhry; *Secretary*: Master Shiv Charan Dass; *Manager*: Pt. Mahendra Kumar Shastry.

ARYA SAMAJ

Dewan Hall, Delhi.

ASIAN THEATRE INSTITUTE

Conference Hall, Exhibition Grounds, Mathura Road, New Delhi.

Chairman of the Advisory Board: Shrimati Kamaladevi Chattopadhyay; *Director*: Dr. Nihar Ranjan Ray; *Deputy Director*: Prof. M. M. Bhalla.

ASOKA MISSION

Educational, Social, Health, Cultural & Spiritual.

Asoka Vihara, Mehrauli, P.O. New Delhi.

President, Shrimati Rameshwari Nehru.

ASSOCIATION FOR MORAL AND SOCIAL HYGIENE IN INDIA

C/o 211A, 'P' Block, Raisina Road, New Delhi.

Aims and Objects:—The eradication of commercialised vice and kindred evils and the securing of condemnation of all forms of State regulation of this vice. The raising of the standard of character and conduct and the upholding of a single high moral standard for men and women in matters relating to sex behaviour thus upholding the highest family traditions and ensuring a recognition that national life must be based upon a wholesome family life.

President: Dr. Sushila Nayar, M.P.; *Vice-Presidents*: Mrs. Humayun Kabir, M.A., Rajmata Kamlendumati Shah, Sardar B. S. Puri; *Hon. Gen. Secretary*: Mrs. Shakuntala Lall.

ASSOCIATION OF SCIENTIFIC WORKERS

39, Massey Hall, Jaisingh Road, New Delhi.

AUTOMOBILE ASSOCIATION OF UPPER INDIA

P.O. Box No. 28, New Delhi.

President: P. L. Mehta, J.P., I.P.; *Vice-Presidents*: Usha Nath Sen, C.B.E. and Bhai Mohan Singh; *Secretaries*: Ram Das and K. L. Sharma; *Hony. Genl. Secy.*: P. L. Vohra.

BANASPATI MERCHANTS' ASSOCIATION

C/o Messrs. Prabhu Dayal Hari Ram, Khari Baoli, Delhi 6.

President: L. Hari Ram; *Secretary*: L. Dwarka Pershad.

BHARAT SCOUTS AND GUIDES

Regal Buildings, Parliament Street, New Delhi.

President, Mangaldas M. Pakvasa.
National Commissioner, Mr. Justice Vivian Bose.
Chief Commissioner for Scouts, Madan Mohan Jadhav.
Chief Commissioner, Girl Guides, Mrs. Clubwala.
National Organising Commissioner, D. P. Joshi.
Jt. National Organizing Commissioner, Guides, Mrs. Wahabuddin Ahmed.
National Secretary, Saroj Ghosh.
Jt. National Secretary, Mrs. Sneha Patwardhan.

BHARAT SEWAK SAMAJ

(9, Theatre Communications Bldg., Delhi 1.)

A national organization, non-political, non-official in character, devoted to the task of economic and social reconstruction of India by mobilising public co-operation in the Five Year Plans.

President, Jawaharlal Nehru; *Chairman*, Gulzari Lal Nanda; *Secretary*, Krishna Prasada; *Information Secretary*, Ram Narayan Chaudhry.

BHARATIYA ADIMJATI SEVAK SANGH

Kingsway, Delhi 9.

Aims and Objects:—To work for the primitive and the aboriginal tribes in India and to uplift them socially, economically, culturally and educationally by recognising and affiliating such institutions and associations as have similar objects as those of the Sangh; by co-ordinating the work of the affiliated institutions through advice, guidance and help; by establishing centres for the amelioration of the conditions of the primitive tribes; by starting centres for training of workers for social and other work for primitive tribes, by encouraging research in anthropological study of the problems of the primitive tribes.

Office-Bearers:—*President*, Dr. Rajendra Prasad; *Vice-Presidents*, U. N. Dhebar, Dr. H. N. Kunzru, L. M. Shrikant; *Secretaries*, Sharamdev Shastri, N. M. Wadia and D. J. Naik; *Treasurer*, Bhagirath Kanoria.

BHARATIYA NATYA SANGH

(Theatre Centre)

34, Shankar Market, Connaught Circus, New Delhi.

An all-India organization set up in 1950. There are about 300 groups affiliated with it, and through it to the International Theatre Institute. It reaches these groups through local centres in Allahabad, Bombay, Calcutta, Delhi, Gauripur (Assam), Hyderabad, Madras, Patna, Ahmedabad, Bangalore, Cuttack, Dharwar, Gauhati, Gwalior, Jubbulpore, Kanpur, Manipur, Meerut, Kuchchpudi, Simla, Jodhpur, Baroda, Rajkot, Coondapur, Belgaum.

The main purpose is to stimulate drama, music and art and build an integral national theatre movement without detriment to local traditions.

In January 1958, the Bharatiya Natya Sangh established the Asian Theatre Institute at New Delhi and two UNESCO experts were invited to serve on the staff. Fellowships have also been made available to students. The Institute gives training to students in all aspects of theatre production.

President, Kamaladevi Chattopadhyaya, *Hony. General Secretary*, Smt. Leela P. Trikamdas.

BHARTIYA ORPHANAGE TRUST SOCIETY

Bazaar Sita Ram, Delhi.

President: R. S. Seth Mina Mal Somani; *Secretary*: R. S. Sri Ram, Bar-at-Law.

THE BLIND RELIEF ASSOCIATION, DELHI

65, Bazar Road, New Delhi 1.

President, Ananthsayanam Aiyangar; *Honorary General Secretary*, U. A. Basrurker; *Honorary Treasurer*, D. R. Bery.

BRIHAN MAHARASHTRA MANDAL

5/20, W. E. A., New Delhi 5.

President: R. K. Patil.
Working President: N. V. Gadgil.
General Secretary: N. R. Tikekar.

THE CARAVAN OF INDIA

19-K, Connaught Circus, New Delhi.

Acting President, Raj Kumar; *Hony. General Secretary*, C. L. Virmani, *Foreign Secy.*, A. N. Banerjee.

CHILDREN'S FILM SOCIETY
Sapru House, Barakhamba Rd., New Delhi

Established by the Govt. of India with the object of furthering the Children's Film Movement in India in May 1955. Produced "JALDEEP" which won the 1st prize at Venice International Film Festival, children's section and Prime Minister's Certificate of Merit as best film of 1956. Established State Committees. Madras: President, C. Subramanyam, State Minister for Education; Punjab: President, Smt. Pratiba Singh; Bihar: Dr. Zakir Hussain, Governor; Bombay: Tirpude, Minister for Social Welfare; The Committees arrange to show children's films and make versions in the regional languages of the films produced by the Children's Film Society.

President: R. R. Diwakar.
Vice-President: Smt. Indira Gandhi.
General Secretary: Mahendra Nath.

CLOTH COMMISSION AGENTS UNION
C/o Messrs. Panna Lal Lachhman Das,
Moti Bazar, Chandni Chowk, Delhi.

COMMITTEE ON RELIEF AND GIFT SUPPLIES, NATIONAL CHRISTIAN COUNCIL OF INDIA
17-B, Gangaram Hospital Marg, New Delhi.

Chairman: Samuel Mathai; *Acting Director & Representative, Church World Service:* Edward Benedict.

CONCRETE ASSOCIATION OF INDIA
13B, Purvi Marg, Delhi 5.

CO-OPERATIVE FOR AMERICAN REMITTANCES TO EVERYWHERE INC.
124, Jan Path, New Delhi 1.

Chief of CARE: Oden Meeker.

CULTURAL FILM SOCIETY
(Sapru House, Barakhamba Road, New Delhi.)

Established in 1949. Started the Children's film movement in India in 1951.

President: Pt. H. N. Kunzru.
Secretary: Mahendra Nath.

DARIBA SARRAFA ASSOCIATION
C/o Messrs. Mahboob Singh Ranjit Singh, Dariba Kalan, Delhi.

President: Krishna Khanna; *Senior Vice-President:* Dwarka Das Sehgal; *Junior Vice-President:* Dhanno Mal Jain; *Secretaries:* Mahatab Singh Jain; Mali Ram.

DELHI CHAMBER OF COMMERCE
Dilbar Building, Paharganj, Desh Bandhu Gupta Road, Delhi 1.

Was established in 1949 and was registered under the Indian Companies Act, 1913 in January 1950. The main object for which the Chamber was established was to safeguard the interests of Indian Commerce, Industry, Trade and Agriculture of the State of Delhi in particular and of India in general. Member of the Federation of Indian Chambers of Commerce and Industry, New Delhi and of the Indian National Committee of the International Chamber of Commerce, Paris.

President: R. K. Jain.
Senior Vice-President: Kirpa Narain.
Junior Vice-President: Bhai Mohan Singh.
Honorary Secretary: Sirdar P. S. Sodhbans, F.C.A., F.A.C.C.A. (Lond.)

DELHI DYES DEALERS ASSOCIATION
Tobacco Katra, Delhi 6.

President: Ramkishandas; *Secretary:* Dwarkanath Bagga; *Treasurer:* Balkrishna Gami.

DELHI ELECTRICAL TRADERS ASSOCIATION
Behind State Bank of India, Chandni Chowk, Delhi.

President: L. Balak Ram; *Vice-President,* L. Hira Lal.

DELHI FACTORY OWNERS FEDERATION
Scindia House, Curzon Road, New Delhi 1.

President: M. D. Dalmia, *Vice-President:* S. Charanjit Singh; *Secretary:* S. Sangat Singh.

DELHI GENERAL MERCHANTS' ASSOCIATION
140, Chandni Chowk, Delhi.

General Secretary: Mahabir Pershad Gupta; *Secretary:* Rattan Lal; *Treasurer:* Hira Lal.

THE DELHI GLASS & PAINT MERCHANTS ASSOCIATION
Fatehpuri, Delhi.

President: Bawa Bachittar Singh; *Secretary:* Lalit Mohan Sharma; *Treasurer:* Ram Parkash Mehra.

DELHI GRAIN MERCHANTS' ASSOCIATION
Swamy Shradhananda Road, Naya Bazar, Delhi.

DELHI HINDUSTANI MERCANTILE ASSOCIATION
641/1213, Chandni Chowk, Delhi 6.

OFFICE-BEARERS: R. S. Gur Pershad Kapoor (*President*); B. L. Kapoor (*Senior Vice-President*); K. G. Rohtagi (*Jr. Vice-President*); Ganpat Rai, M.A. (*Hon. Secretary*).

DELHI MOTOR TRADERS' ASSOCIATION
Post Box 1098, Delhi 6.

President: Dr. Tirlok Singh; *Hony. Secy.,* D. S. Bhatnagar.

DELHI NATYA SANGH
7, A, Railway Colony, Hardinge Avenue, New Delhi 1.

OFFICE BEARERS: *President,* Prof. Humayun Kabir; *Vice-Presidents,* R. G. Anand, D. R. Mankekar; *General Secretary,* B. R. Narula.

DELHI PAINT MERCHANTS ASSOCIATION
C/o Lalit & Co.
Fatehpuri, Delhi.

President: Bawa Bachittra Singh; *Secretary:* Lalit Mohan Sharma *Treasurer:* Ram Parkash Mehra.

DELHI PIECEGOODS ASSOCIATION
Katra Nil, Delhi.

THE DELHI PROVINCIAL TEXTILE RETAILERS ASSOCIATION
"Vastrilok", 1, Queen's Garden, Delhi 6.

President, B. M. Ahuja; *Hony. General Secretary,* Trilokinath Garg

DELHI PUBLIC LIBRARY
(Queen's Road, Delhi 6.)

The library was started under the joint auspices of the Government of India and UNESCO on November 1, 1951, as a model for simil institutions elsewhere.

The library is open to all, and no subscription is charged. T library provides home reading, reference and information service There is a section for children. Extension service includes a mobi library with deposit stations, promotion of social education, trainir in library technique and allied matters.

On January 1, 1958 there were in all 36,159 members. The numb of books in stock was 128,028 (Hindi 77,025; English 25,685; Ur 21,624; Punjabi 3,694.)

Director, M. M. L. Tandon.

DELHI STATE CHEMISTS ASSOCIATION
Surgical & Medicine Market, Bhagirath Palace, Chandni Chow Delhi 6.

President: S. Jagmohan Singh Kochhar; *Hony Secretary* S Nayyar, B Sc., LL.B.; *Treasurer* Inder Sain Jain.

DELHI STATE CHILDREN'S HOME
1, Ferozeshah Kotla New Delhi

President, Smt. Rameshwari Nehru, *Vice-President,* Padam Chand *Superintendent and Probation Officer,* J P Gupta.

DELHI STATE COUNCIL FOR CHILD WELFARE
Qudsia Garden, Alipur Road, Delhi 8.

President, Dr Sushila Nayar; *Hony. Secy:* Dr M S Chadh *Hony Joint Secretary:* Smt. S Krishna.

DELHI TEL SABHA
7, Khari Baoli, Lahori Gate, Delhi.

DELHI THREADBALL MANUFACTURERS' ASSOCIATIO
Pan Mandi, Sadar Bazar, Delhi.

THE DELHI WATCH TRADERS SYNDICATE
Post Box No. 1751, Delhi

President: Kahan Chand; *Vice-President,* Har Dayal *General Secretary:* D. N Sondhi.

DELHI WOMEN'S LEAGUE
Saraswati Bhawan, Darya Ganj, Delhi

President, Smt. Rameshwari Nehru; *Chairman,* Smt Raksha Sur *Hon. Secy,* Smt. Kunti Sondhi.

DELHI WOOL MERCHANTS' ASSOCIATION
32, Thana Sadar Road, Delhi 6.

FEDERATION OF INDIAN CHAMBERS OF COMMERCE AND INDUSTRY
(Estd. 1927)
Federation House, Barakhamba Road, New Delhi

The Federation is recognised by the Central Government as th premier organisation representing commercial and industrial interes in the country. The headquarters of the Federation are situate in New Delhi.

The Federation has on its roll 117 Chambers of Commerce an Trade and Industrial Associations and 214 Associate Member comprising leading business houses in the country. The Federation through its constituents, covers almost the whole of the organize Indian industry and trade. It is represented on almost all importan Consultative Bodies of Government. The Central Advisory Counc of Industries, the Import and Export Advisory Councils, Capit Issues Advisory Committee, are some of the important Bodie which the Federation is represented.

The membership of the Federation is of four classes Ordinar Honorary, Overseas and Associate.

The Federation issues a bulletin *Fortnightly Review* containin information and comments on current economic events in India an abroad.

The Federation has been instrumental in the establishment of tw allied organisations—All India Organization of Industrial Employe and the Indian National Committee of the International Chamber Commerce.

President: B. P. Singh Roy.
Vice-President: Madan Mohan R. Ruia.
Secretary-General: G. L. Bansal.
Treasurer: P. N. Talukdar.
Secretary: P. Chentsal Rao.

GANDHI SMARAK HARIJAN SHIKSHA SAMITI
179, Bhangi Colony, Reading Road, New Delhi.

President : Dr. Sushila Nayar, M.P. ; *Treasurer :* S. L. K. Shivam; (*Office Secretary, Harijan Sewak Sangh*).

GANDHI SMARAK NIDHI
5, Mansingh Road, New Delhi 2.

Aims and objects of the Nidhi (Gandhi National Memorial Trust) are to conduct and promote constructive activities associated with Mahatma Gandhi ; collection and preservation of places associated with his work and life.

Total money collected : Rs. 10·97 crores ; Spent till end of 1956 : Rs. 3·40 crores ; Expenditure during 1956 : Rs. 72 lakhs ; Budget for 1957 : Rs. 1·25 crores.

OFFICE-BEARERS :—*Chairman*, R. R. Diwakar ; *Vice-Chairman*, Smt. Sucheta Kripalani ; *Secretary*, G. Ramachandran.

GENERAL MERCHANTS' ASSOCIATION
140, Chandni Chowk, Delhi.

HANDLOOM CLOTH MANUFACTURERS' ASSOCIATION
Chawriwalan, Delhi.

HAPPY SCHOOLS' SOCIETY
Daryaganj Road, Delhi 7.

Educational Organisation.

Founder & Hony. Director : Padam Chand.

HARIJAN SEVAK SANGH
Kingsway, Delhi 9.

President, G. D. Birla ; *Vice-President*, Srimati Rameshwari Nehru ; *Hon. Gen. Secretary*, Viyogi Hari ; *Working Secretary*, K. S. Shivam. The annual expenditure incurred by the Central and Provincial Branches throughout India during 1956-57 was Rs. 27,637,567-11-6.

HARIJAN UDYOGSHALA
Kingsway, Delhi 9.

Industrial Training.

Principal : Viyogi Hari ; *Vice-Principal :* Bhagwadutt 'Shishu'.

HARIJAN WELFARE BOARD
Old Secretariat.

THE HIMALAYAN SOCIETY
Royal Hotel, Delhi.

Bombay Address : Shreeniwas House, Waudby Road, Fort, Bombay. *Chairman*, Lal Bahadur Shastri ; *Secretary*, G. D. Joshi ; *Organising Secretary*, Naren B. Joshi.

INDIAN ADULT EDUCATION ASSOCIATION
30, Faiz Bazar, Delhi.

It is the only national organisation of adult education workers and agencies in this country, having 108 affiliated institutions spread all over India in addition to a large number of individual members. The Association publishes a quarterly journal called *The Indian Journal of Adult Education*, a quarterly magazine in Hindi called "Gramodh Shiksha", and a monthly *Social Education News Bulletin* and publishes pamphlets and tracts on adult education techniques and methods as well as on important experiments in India and other countries. It also organises annual conferences and seminars for adult education workers.

OFFICE BEARERS :—*President :* V. S. Jha, Benares ; *General Secretary :* S. C. Dutta, Delhi ; *Treasurer :* M. Mujeeb, New Delhi ; *Office Secretary :* Awadh Sharma.

INDIAN AND EASTERN NEWSPAPER SOCIETY
Address : P. O. Box 69, I.E.N.S. Building, Old Mill Road, New Delhi 1

Formed in February 1939 to act as a Central Organisation of the Newspaper Press of India and of other countries in Asia and to promote the common business interests of its members numbering 101 at the end of 1956.

OFFICE BEARERS :—*President :* Upendra Acharya (*Indian Nation*) ; *Vice President :* D. M. Harris (*Statesman*) ; *Vice-President :* Dr. N. B. Parulekar ; *Hony. Treasurer :* K. Narendra (*Pratap*) ; *Secretary :* D. K. Thadhani.

THE INDIAN BUREAU OF PARLIAMENTARY STUDIES
10, Golf Link Road, New Delhi

Aims : To encourage expert study on parliamentary methods, techniques and institutions. Membership includes M.P's and others. Publishes a monthly Journal 'Parliamentary Studies.'

President : Sohan Lal ; *Vice-President :* Hukam Singh, Deputy Speaker, Lok Sabha ; *Secretary-General :* M. S. Gurupadaswamy.

INDIAN CONFERENCE OF SOCIAL WORK, DELHI BRANCH
28, Hanuman Road, New Delhi.

President : V. A. Baarurkar ; *Hon. General Secretary :* Smt. Dolat Nanavatty ; *Executive Secretary :* O. P. Dhingra.

INDIAN CO-OPERATIVE UNION LTD.
'A' Barracks, Jan Path, New Delhi.

Co-operative body devoted to economic and social development.

President : Shrimati Kamladevi Chattopadhyay ; *Vice-President :* M. L. Sodhani *General Secretary :* L. C. Jain.

INDIAN COUNCIL FOR CHILD WELFARE
14 & 15, Block A, Queensway Barracks B, New Delhi.

National Organisation for Child Welfare, with eighteen State Councils. Organises Child Welfare Conferences, Exhibitions and Seminars. Children's Bureau at Headquarters publishes journals, reports and monthly newsletter, prepares plans and projects for organisations and assists in individual problems relating to children.

President, Rajkumari Amrit Kaur.

Vice-President, Indira Gandhi.

Hony. General Secretary, Tara Ali Baig.

INDIAN COUNCIL FOR CULTURAL RELATIONS
Patandi House, New Delhi 1.

Although sponsored by the Government of India, the Council functions as an autonomous body. It was inaugurated in April 1950 by the Prime Minister of India for the purpose of establishing, reviving and strengthening cultural relations with other countries by means of promoting a wider knowledge and appreciation of the cultural heritage of India on the one hand and on the other hand by encouraging the dissemination in India of knowledge of the culture of other countries. The Council maintains contact with similar organisations in all countries.

President : Dr. Humayun Kabir ; *Vice-Presidents :* Acharya Kaka Kalelkar ; K. G. Saiyidain ; *Secretary :* Imam Rahman.

THE INDIAN COUNCIL OF MEDICAL RESEARCH
Medical Enclave, Near Safadarjung Hospital, C. 11 Type Flats Nos. 14, 15 & 16, P.B. 494, New Delhi.

The Indian Council of Medical Research was formerly known as the Indian Research Fund Association and was constituted in 1911 by the Government of India with a sum of Rs. 5,00,000 set aside as an endowment.

The control and management of the Council is vested in a Governing Body, the President of which is the Health Minister of the Government of India. This body is assisted in scientific and technical matters by a Scientific Advisory Board of which the Chairman is the Director-General of Health Services. The Board in its turn is advised by a number of committees on specific subjects.

The Council annually publishes a technical report describing the research work done by the various enquiries carried out under the auspices of the Council during each calendar year. This report is obtainable from the office of the Director, Indian Council of Medical Research, New Delhi. The Council publishes the *Indian Journal of Medical Research* and its *Memoirs* and the *Indian Journal of Malariology*. In addition, a number of special reports dealing with important subjects of medical research are also published from time to time. So far, over thirty-two such reports have been published.

The Council maintains the Nutrition Research Laboratories at Coonoor, which is the premier institution in India entirely devoted to research in nutrition and allied sciences.

Besides financing a large number of enquiries, the Council has set up nutrition research units at the Seth G. S. Medical College, Bombay, and University College of Science and Technology, Calcutta, a Clinical Research and Neuropathological Unit at the Tata Memorial Hospital, Bombay, a Clinical Research Unit and a Haematological Research Unit at the School of Tropical Medicine, Calcutta, a Polio Research Unit at the Grant Medical College, Bombay, a Liver Research Unit at the S. N. Medical College, Agra, and an Industrial Health Research Unit and a Public Health Engineering Research Unit at the All-India Institute of Hygiene and Public Health, Calcutta. A Virus Research Centre has also been set up by the Council at Poona in collaboration with the Rockefeller Foundation of the U.S.A. A Blood Group Reference Centre has been set up in Bombay.

Besides, the Council maintains two Chairs, the Chair of the Professor of Bacteriology and Pathology and the Chair of the Professor of Protozoology at the School of Tropical Medicine, Calcutta.

The Council awards a number of research fellowships to deserving medical and science graduates with a view to training teachers and research workers for medical college staffs and aiding the development of certain departments in medical colleges as post-graduate training centres.

The Council maintains a library at the Central Research Institute, Kasauli. The Council has also established Micro-film Service and Photo-copy Service Units at Kasauli, and at the Tata Memorial Hospital, Bombay.

President, D. P. Karmarkar ; *Chairman, Scientific Advisory Board*, Lt.-Col. C. K. Lakshmanan ; *Director*, Dr. C. G. Pandit.

INDIAN COUNCIL OF WORLD AFFAIRS
Sapru House, Barakhamba Road, New Delhi 1.

President : Hriday Nath Kunzru.

Treasurer : P. A. Narielwala.

Secretary-General : S. L. Poplai.

Research Secretary : M. S. Rajan.

Administrative Secretary : Devendra Nath.

Librarian : Girja Kumar.

The Indian Council of World Affairs is a private, non-partisan, academic and research organization. It was founded in 1943. Its primary object is to promote the study of Indian and international questions so as to develop a body of informed opinion on world affairs and India's relation thereto through study, research, discussion, lectures, exchange of ideas and information with other bodies in India and abroad engaged in similar activities.

Membership activities of the Council are built around general meetings and discussion groups both at the headquarters of the Council at Delhi as well as its 23 branch centres. It arranges non-governmental international conferences from time to time and also participates in those convened by other organisations.

A Research Board plans and supervises the Council's research programmes. The Council publishes *India Quarterly* and a monthly, *Foreign Affairs Reports*. It is also associated with the publication of another monthly *Indian Affairs Record*.

The Council has so far published about 40 monographs and a large number of pamphlets. Apart from occasional publications, the Council publishes two series of biennial volumes entitled *India in World Affairs* and *Select Documents on Asian Affairs*.

The Council maintains a research library on international affairs, consisting of about 50,000 volumes and 900 periodicals.

In addition, it has special collections such as newspaper clippings; publications of the United Nations, League of Nations and other international organizations; maps and back files of selected newspapers. It is rapidly building up special collections in foreign languages like Russian, Japanese, etc. Current acquisitions lay special stress upon the countries of Asia.

As on 31st December 1957, the Council had 23 branches in most of the leading cities of India and 1,800 members.

INDIAN FEDERATION OF WORKING JOURNALISTS

23, Theatre Communications Building, Connaught Circus, New Delhi.

President, S. A. Sastri; *Vice-President*, J. P. Chaturvedi; *Secretary-General*, M. K. Ramamurthi.

INDIAN FOREIGN AFFAIRS ASSOCIATION

1, Jiwanlal Building, Queensway, New Delhi.

INDIAN INSTITUTE OF PUBLIC ADMINISTRATION

(6, Bhagavandas Road, New Delhi.)

President: Jawaharlal Nehru.
Vice-Presidents, Pandit Pant, C. D. Deshmukh, Gurmukh Nihal Singh, Pandit Kunzru, Dr. G. S. Mahajani, Shri Ram.
Chairman: V. T. Krishnamachari.
Director: V. K. N. Menon.
Hony. Treasurer: S. B. Bapat.

THE INDIAN MEDICAL ASSOCIATION

"Central Office" Hanging Bridge, Daryaganj, Delhi 7.

President: Dr. D. V. Venkappa (Madras); *Hony. General Secretary*, Dr. A.P. Mittra (New Delhi); *Hony. Editor*, "*Journal of the I.M.A.*" Dr. P. K. Guha (Calcutta).

INDIAN NATIONAL TRADE UNION CONGRESS

17, Janpath, New Delhi 1.

President, G. Ramanujam; *General Secretary*, S. R. Vasavada; *Treasurer*, P K. Sawant.

INDIAN RED CROSS SOCIETY

Red Cross Road, New Delhi 2.

President: Dr. Rajendra Prasad (President of the Republic of India).
Chairman, Managing Body: Rajkumari Amrit Kaur.
Hon. Treasurer: P. C. Padhi.
Secretary-General: Sardar Balwant Singh Puri. *

Constitution.—The Managing Body consists of a Chairman and 25 members, of whom 12 are the Vice-Presidents, 8 selected by the Society at the Annual General Meeting from among the members of the Society, and 5 nominated by the President.

Junior Red Cross.—Junior Red Cross which was started in 1926 is an integral part of the Indian Red Cross Society and is its youth section. The movement functions in over 28,418 schools and colleges with a membership of over 1,720,700.

Medical After-Care Fund.—With a view to granting relief for medical treatment and cognate purposes to the sick Indian ex-service personnel, who participated in the Second World War, the Indian Forces Medical After-Care Fund was instituted at the headquarters towards the end of 1941. The scope of the Fund was extended in 1949 so as to include the ex-servicemen of World War I. Assistance from the Fund is invoked by an increasing number of deserving cases. The total number of applications dealt with till the end of 1957 was 5,636. During 1957, 467 fresh applications were received from ex-servicemen suffering from tuberculosis, leprosy, mental and other diseases, and a sum of Rs. 56,095 was given in grants to 276 new and 191 old cases raising the total of disbursements from the fund during the last 16 years to Rs. 14,25,855. Out of a sum of Rs. 10,000 received from the Armed Forces Reconstruction Fund in 1952 for providing medical after-care to the ex-service personnel of the Jammu and Kashmir operations Rs. 9,854 have so far been spent on 56 cases till the end of 1957.

Bureau of Maternity and Child Welfare.—The Maternity and Child Welfare Bureau of the Society was established in 1931.

The Bureau administers the Lady Chelmsford League Fund for maternity and child welfare, the Victoria Memorial Scholarship Fund for the training of *dais*, and the Army Child Welfare Fund. The Bureau also acts as a Central office for information and offers technical assistance.

A grant from the Government of India has made it possible to initiate work in the backward areas of Tehri-Garhwal where three welfare centres have been opened for providing maternal and child welfare services.

Relief Activities.—Emergency relief forms an important aspect of Red Cross work in India and it comprises two categories: assistance with cash grants, medical and other supplies and provision of trained field workers for first aid, ambulance service, nursing and incidental duties for sudden emergencies.

Health Education.—Popular health education is another important activity. The Society publishes posters, pamphlets and other material on health subjects. Health lectures, film shows, demonstrations of slides, etc. are also regularly organised under Red Cross auspices. Two quarterly Journals are published, namely, the *Indian Red Cross Journal* and the *Indian Junior*.

Hospitals.—The Society runs a Red Cross Home in Bangalore well-equipped for 75 patients for giving expert medical aid and nursing care to permanently disabled ex-servicemen. It provides various amenities and comforts including newspapers, magazines and books to patients in all military hospitals in India and to Medical Units of Jammu and Kashmir Forces. Besides, diversional therapy stores and welfare service are also provided to the military hospitals.

Finances.—The investments of the Society at the end of 1956 stood at Rs. 2,07,24,200 and the floating and fixed deposits at Rs. 3,78,543. From the total income of Rs. 6,88,645 derived from investments of the Society, a sum of Rs. 1,58,160 is distributed under the Act to the State Branches in proportion to their contributions to the Central "OUR DAY" Fund raised in the First World War.

INDIAN ROADS CONGRESS

Jamnagar House, Shahjahan Road, New Delhi 2.

Hon. Secretary: A. J. D'Costa, B.E.; *Hon. Treasurer:* H. P. Sinha, I.S.E.

INSTITUTE OF CHARTERED ACCOUNTANTS OF INDIA

Post Box 268, Mathura Road, New Delhi 1.

The Institute of Chartered Accountants of India which is an autonomous body of all Accountants with perpetual succession was established on the 1st of July, 1949.

The Institute had on its Register 1,071 Fellows and 2,774 Associate members as on 1st April 1957. Out of this 997 Fellow members and 1,715 Associate members are in practice and are entitled to style themselves as Chartered Accountants.

The Institute is governed by a Council consisting of 24 members, 19 of whom are elected from the various regions and five nominated by the Government of India.

Council of the Institute:—President: S. Vaidyanath Iyer; *Vice-President:* S. Suryanarayana Iyer; *Secretary to the Council*, E. V. Srinivasan; *Asst. Secretary:* Lajpatrai Sharma; *Registrar* N. Subramanian.

INSTITUTION FOR THE BLIND

Punchkuin Road, New Delhi.

President: Dr. Mrs. Beant Kaur; *Secretary:* M. M. Aggarwal, *Treasurer:* Gokal Chand Kapoor.

INTERNATIONAL CHAMBER OF COMMERCE, INDIAN NATIONAL COMMITTEE

Federation House, New Delhi 1.

The Indian National Committee of the International Chamber of Commerce was established for the following purposes in the year 1929:—

(i) To facilitate the commercial intercourse of countries.
(ii) To encourage progress and to promote peace and cordial relations among countries and their citizens by the co-operation of businessmen and organisations devoted to the development of commerce and industry.

President: B. P. Singh Roy; *Vice-President:* Madan Mohan R. Ruia; *Secretary-General:* G. L. Bansal; *Secretary:* P. Chentsal Rao.

JAIN SOCIETY FOR THE PROTECTION OF ORPHANS FOR INDIA

Daryaganj, Delhi.

President: Rajendra Kumar Jain; *General Secretary:* Ajit Parshad Jain.

* According to present arrangement, is due to retire in July 1958. Mr. C. K. Lakshmanan at present Director-General of Health Services is due to take his place.

JANGID BRAHMAN MAHA SABHA
440/441, Haveli Haidar Quli, Chandni Chauk, Delhi 6.

President, Pt. Mahadevprasad Sharma; *Vice-President*, Pt. Moolchand Sharma; *General Secretary*, Pt. Rupkishor Sharma.

KALAKENDRA RESEARCH AND INFORMATION ORGANIZATION
5/610, Lodi Road, New Delhi 3.

A Society formed in 1950 with the object of conducting and encouraging research work in the fields of dance, drama, music and other fine arts and to disseminate information to scholars, art organizations in India and abroad, and the Government. The Organisation (formerly known as the Section) was reorganised in 1957 by the Conveners' Committee of the National Federation of Musicians of India as its specialised wing. Maintains a "morgue" of approved biographies of eminent artistes. Gives free guidance service to all scholars in music and dancing, whose approved works are purchased for publication. Its general information service is free to all.

Editorial & Research Supervision Board:

Padma Bhushan Ustad Mushtaq Husain Khan, (*Chairman*); Ustad Hafiz Ali Khan (Akadami Award Holder), (*Vice-Chairman*); Natwari Nritya Samrat Padma Shri Guru Shambhu Maharaj, Ustad Sadiq Ali Khan Sinkar, Ustad Chand Khan, Dagar Brothers (Ustads Nasir Moinuddin Dagar and Nasir Aminuddin Dagar), Ustad Vilayat Khan Sitaria, Pandit Purushottamdas Pakhawaji and Pandit Kishan Maharaj (*members*).

KASTURBA GANDHI NATIONAL MEMORIAL TRUST
8, Lodi Road, New Delhi.

President: Smt. Prem Lila Thakarsi; *Agent & Vice-President:* Smt. Rameshwari Nehru; *Secretary:* Smt. Sushila Pai; *Office Secretary:* Sham Lal.

KIRANA COMMITTEE
372, Khari Baoli, Delhi 6.

Hony. President: Durga Pershad Berry; *Hony. Vice-President:* Ram Narain Dass, B.Sc. LL.B.; *Hony. Genl. Secretary:* Paras Ram Kalra.

LALIT KALA AKADAMI
(National Academy of Art, New Delhi.)

The Lalit Kala Akadami was set up in August 1954 by the Govt. of India. Its aim is to promote the study of and research in painting, sculpture, architecture and applied arts. There is a General Council, an Executive Board and a Finance Committee.

Chairman, Executive Board, D. P. Roy Chowdhury.
Vice-Chairman: Karl J. Khandalawala.
Secretary: Barada Ukil.

MOTION PICTURES ASSOCIATION
52 55, Mangal Market, Chandni Chowk, Delhi.

President: Seth Jagat Narain; *Senior Vice-President:* C. V. Desai; *Junior Vice-President:* Nandlal Oberoi; *Hony. General Secretary:* J. C. Pakshi; *Hony. Joint Secretary:* C. L. Chopra; *Hony. Treasurer:* D. N. Pancholi.

NATIONAL BOOK TRUST, INDIA
Old Mill Road, New Delhi 2.

To publish, or assist publishers, universities, learned societies etc. in the publication of large editions, at low cost, of books in Hindi and other Indian languages, and of the following categories: Indian classics, translation of famous books in foreign languages and all standard books from one Indian language into another, reproduction of Indian paintings, sculptures and other art treasures etc. Lists of short-term and long-term publications are drawn up for implementation. The funds of the society will consist of lump sum and recurring grants made by the Government of India for the furtherance of the objects of the Society and income from its publications and other sources.

Chairman: C. D. Deshmukh; *Secretary:* K. Iswara Dutt.

NATIONAL COUNCIL OF APPLIED ECONOMIC RESEARCH
Bombay Mutual Bldg., Parliament Street, New Delhi 1.

The National Council started functioning from 1st August 1956, as an independent research organisation to study current important economic problems in an objective basis on its own initiative or at the instance of Government, business concerns, associations or individuals and to help in analysing and finding solutions to specific problems in the planning and management of industrial and other undertakings. The Council has been established with the active support and encouragement of the Government of India and the business community and on its Governing Body are represented Ministers of the Central Government, leading business men and other eminent persons. The organisation provides for a broad base of membership including Life, Ordinary and Corporate Members.

The Ford Foundation has made a generous offer of donation of $500,000 (equivalent to Rs. 25 lakhs approx.) spread over a period of 5 years towards the Council's expenses in the formative period.

At the request of the Ministries of the Government of India and some big business concerns, the Council is currently engaged in studies in respect of the following:—(a) problems of small scale industries, (b) taxation and foreign investment, (c) economics of energy resources, (d) demand forecasts, (e) economics of the mineral industry, (f) economics of road transport, etc. (g) Area Development Studies, (h) Domestic Savings.

Publications: Taxation and Foreign Investment; Foreign Exchange Crisis and the Plan; Some Aspects of Road Transport in the Delhi Region; Prospects for a Mica Grinding Plant in India; Utilization of Primary Energy in India; Export Markets for Indian Lac and Lac Products.

President, Dr. John Matthai.
Director-General, Dr. P. S. Lokanathan.
Secretary, V. K. Ramaswami.

THE NATIONAL FEDERATION OF P & T EMPLOYEES
9, Pusa Road, New Delhi.

President, V. G. Dalvi, Bar-at-Law; *General Secretary*, B. N. Ghosh; *Secretary*, V. S. Menon.

NATIONAL GALLERY OF MODERN ART
(Jaipur House, New Delhi.)

The Gallery was inaugurated on March 29, 1954. The institution is directly under the Ministry of Education, Government of India. The collection consists of art objects ranging roughly from 1857 onwards. Among those displayed are 19th century Rajput, Kangra, Bengal School-paintings, sculptures, textiles and Metal images. Separate rooms have been devoted to the works of Abanindra Nath Tagore, Rabindra Nath Tagore, Gaganendra Nath Tagore, Jamini Roy, Nanda Lal Bose and Amrita Sher Gil.

Curator: Prof. Prodosh Das Gupta.

NATIONAL INSTITUTE OF SCIENCES OF INDIA
Mathura Road, New Delhi 1.

Objects:—Founded in 1935 for the promotion of natural knowledge in the country including its practical application to problems of national welfare. Recognised by Government as the premier scientific organisation in India. Has three co-operating Academies, *viz.*, Asiatic Society (Calcutta), Indian Academy of Sciences (Bangalore) and National Academy of Sciences, India (Allahabad). Annual Subscription Rs. 36.

Publications: *Proceedings, Transactions, Bulletin, Progress of Science in India.*

President: Prof. P. C. Mahalanobis; *Treasurer:* Prof. Ram Behari; *Foreign Secretary:* Dr. B. Mukerji; *Secretaries:* S. Basu, Prof. P. Maheshwari; *Editor of Publications:* Prof. R. C. Majumdar.

NATIONAL PRODUCTIVITY COUNCIL
C/o National Council of Applied Economics,
Bombay Mutual Bldg.,
Parliament Street, New Delhi.

Aims and Objects: Launching productivity movement in the country by rousing productivity consciousness and to generate productivity services. Initially it is proposed to limit the scope only to the field of industries but eventually, the movement will include in its scope all economic activities of the nation.

This is an autonomous body representative of Government, employers, labour, technicians, consumers, consultants, scholars and small industries. All-India organisations of employers and labour, and the concerned Ministries of the Government of India, have nominated their representatives on it. The number of members is limited to 60. The size of the Governing Body is limited to 20 members.

President: Manubhai Shah, Minister of Industry, Government of India; *Chairman of the Governing Body:* Dr. P. S. Lokanathan; *Vice-Chairman:* G. P. Kapadia, Michael John, M.P.; *Executive Director-Designate:* H. D. Shourie, I.A.S.

NAVSHAKTI VIDYA MANDIR
Pushpa Bhawan, Basti Ara Kashan, Paharganj, New Delhi 1.

President: Radha Raman, M.P.; *Honorary Secretary:* Lalta Prasad; *Joint Secretary:* Shri Kishna.

PUNJAB & DELHI CHAMBER OF COMMERCE
(Scindia House, Curzon Road, Post Box No. 130, New Delhi 1.)

Exists for the protection of mercantile interests on the usual lines in the Punjab and Delhi. Membership generally restricted to Banks, Merchants (wholesale), Railways and proprietors of large industrial interests. The Chamber is a member of the Federation of Commonwealth and British Empire Chambers of Commerce, London, and the Associated Chambers of Commerce of India, Calcutta. The Chamber is represented on the Municipal Committee of Delhi as well as various other Committees and Local Government Bodies.

Office-Bearers: Kenneth Jowers (*Chairman*); I. D. Anand (*Dy. Chairman*); Sardar Sangat Singh (*Secretary*).

PUNJAB MERCHANTS' CHAMBER (Regd.)
Sadar Bazar, Delhi.

President, L. Bhagwan Das Chopra; *Vice-President*, S. Jagat Singh Kwatra; *Hony. Secretary*, S. Kartar Singh.

QUAKER CENTRE
24, Rajpur Road, Delhi 8.

An international, social and educational body.
Directors: James Bristol; Dorothy Bristol.

RAMAKRISHNA MISSION
Ramakrishna Mission Road, New Delhi. 1

Secretary, Swami Ranganathananda.

THE ROLLER FLOUR MILLERS' FEDERATION OF INDIA
"Scindia House", Curzon Road, Post Box No. 637, New Delhi 1.

Chairman, R. K. Vissanji; *Vice-Chairman*, P. Chandra; *Executive Officer*, V. S. Manian.

SADAR CAP MERCHANTS' ASSOCIATION
Gandhi Market, Sadar Bazar, Delhi.

President, M. Ghiasuddin; *Secretary*, Mohd. Jamil; *Treasurer*, Shujauddin.

SAHITYA AKADEMI (NATIONAL ACADEMY OF LETTERS)
(Theatre Communication Bldg., Janpath (Queensway), New Delhi.)

The Akademi is a national organization to work for the development and Co-ordination of Indian letters, and to set high literary standards. It was inaugurated on March 12, 1954.

There is a General Council of 67 members and an Executive Board of 14.

Among the more concrete projects that are before the Akademi are a national bibliography of Indian literature, a Who's Who of Indian writers, standard works in English and Indian languages on the history of modern Indian literatures, anthologies covering poetry, drama and short stories in Indian languages, translation of select classics from one Indian language into another, translation of foreign classics into Indian languages, etc.

Every year since its inauguration in 1954, the Sahitya Akademi has been awarding prizes of Rs. 5,000 each to some outstanding books published in Indian languages. Books are eligible for prizes in 16 languages: the 14 major languages enumerated in the Indian Constitution and Sindhi and English (as written by Indian authors). Five books in Bengali, Hindi, Malayalam, Telugu and Urdu respectively were adjudged worthy of award in 1957.

President, Jawaharlal Nehru.
Vice-President, Dr. S. Radhakrishnan.
Secretary, Krishna Kripalani.

SANGEET NATAK AKADAMI
(National Academy of Dance, Drama & Music)
70, Regal Buildings, New Delhi 1.

The Akadami was inaugurated on January 28, 1953. The purpose is to foster Indian dance, drama (including films) and music and promote through them the cultural unity of India.

At present the Akadami is conducting a survey of art-forms in the country; it will also build libraries of musical records and of films of classical dancers.

There is a General Council, an Executive Board and a Finance Committee. The General Council consists of representatives among others of Central and State Governments and leading cultural organizations.

It promotes research, encourages setting up of Theatre Centres and training institutions and production of plays, publishes literature, awards prizes and distinctions, grants financial assistance, promotes cultural exchanges with other countries.

The Akadami organised two Music Festivals—one in March 1954 in Delhi, and the other in March 1956 in Patna. The first National Drama Festival was organised in November 1955 in Delhi which lasted for more than three weeks. In the course of the festival 21 plays in 14 Indian languages including Sanskrit and a Greek play in English were presented. The first National Dance Festival was organised again in Delhi in November-December 1955 in which all the classical and traditional styles of Indian dance were presented by most eminent artistes and groups in the country. The Akadami also organised two Seminars—one on Films and the other on Drama in 1955 and 1956 respectively.

In April-May 1957 it organized a seminar on Indian music, and in March-April 1958 one on Indian dances.

Chairman, Justice P. V. Rajamannar; *Vice-Chairman*, Kamaladevi Chattopadhyaya; *Treasurer*, A. V. Venkateswaran; *Secretary*, Nirmala Joshi.

SANT PARMANAND BLIND RELIEF MISSION
18, Alipore Road, Delhi 8.

Object: Eradication of blindness in India.

Office-Bearers:—Seth Jugal Kishore Ji Birla (*President*); Gaya Prasad (*Honorary Secretary*).

SCHOOL OF TOWN AND COUNTRY PLANNING
Office:—13, Mansingh Road Hutments, New Delhi 2.
School: Delhi Polytechnic, Kashmere Gate, Delhi 6.
Director & Professor of Planning: T. J. Manickam; *Administrative Officer*: P. C. Kalcker.

SHARADA SANGHA
115, Naya Bazar, Delhi 6.

President: Dr. (Mrs.) Anusuyabai Gyanchand; *Vice-President*: (Mrs.) Pushpamala Kher; *Secretary*: (Mrs.) Sushila Limaye.

SHREE BALAK SUDHAR SABHA
32-A, Model Basti, Delhi 5.

President, Kumari Vanita; *General Secretary*, H. R. Angula; *Treasurer*, Kamini Kanta.

SHRI MAHAVIR JAIN PUBLIC LIBRARY AND READING ROOM
II/1417, Shree S. S. Jain Mahavir Bhawan, Chandni Chowk, Delhi 6.

Object: To help the progress of religion and society.

Subscription: Life Member Rs. 101, Special Member Rs. 7 and Ordinary Member Rs. 5 per annum.

Office-Bearers:—Nihal Chand Jain (*President*); D. P. Lodha (*Secretary*); Jawahar Lal Kochar (*Treasurer*).

SHRI RAM INSTITUTE FOR INDUSTRIAL RESEARCH
19, University Road, Civil Lines, Delhi 8.

Dy. Directors, Dr. N. R. Kuloor, Dr. V. B. Chipalkatti.

SOCIETY FOR PROMOTING CHRISTIAN KNOWLEDGE
Distribution: S. P. C. K., Post Box 1585, Kashmere Gate, Delhi 6; C.L.S., Park Town, Post Box 501, Madras 3.

ST. JOHN AMBULANCE ASSOCIATION (INDIA) AND ST. JOHN AMBULANCE BRIGADE (INDIA)
Red Cross Road, New Delhi 2.

The St. John Ambulance Association was established in India in 1910 and has among its objects:—

The promotion of instruction and carrying out of works for the relief of suffering of the sick and injured in peace and war independently of class, nationality or denomination.

The association has five grades of members, namely, patrons, honorary councillors, life members, annual members and annual associates. Their respective subscriptions are Rs. 1,000, Rs. 500, Rs. 100, Rs. 5 and Re. one.

The President of the Republic of India is the President of the Association. Its general business is conducted by an executive committee.

The St. John Ambulance Brigade is a uniformed, disciplined body of men and women, all of whom are holders of first aid, and in the case of women also home nursing certificates. They meet together regularly for practice, are inspected and re-examined annually and undertake to turn out for public duty whenever required.

The Brigade in India is commanded by Rajkumari Amrit Kaur as Chief Commissioner. Under her are 19 Districts covering almost all the States and major railways in India with headquarters at Bangalore, Bhubaneshwar, Bombay, Calcutta, Chandigarh, Delhi, Gorakhpur, Hyderabad, Indore, Jaipur, Lucknow, Madras, Patna, Shillong and Simla.

Surgeon-in-Chief, Lt.-Col. C. K. Lakshmanan; *Secretary-General*, Sardar Balwant Singh Puri.

TIMBER ASSOCIATION
Katra Narayan, Delhi.

President: Shambhunath Terhan; *Hony. General Secretary*, Jagdish Narain Gupta; *Hony. Secretary*: Jagdish Prashad Gupta.

TRAINED NURSES' ASSOCIATION OF INDIA
28, Alipur Road, Delhi 8.

The Trained Nurses' Association of India was founded in 1908 and incorporates the Association of Nursing Superintendents of India. It is affiliated with the International Council of Nurses, the National Council of Women in India and the Indian Conference of Social Work and the Nurses Auxiliary of the Christian Medical Association is its affiliated Association.

The Association has an associate consisting of Student Nurses' Association, Health Visitors' League, and Midwives' Association. The number of registered members is 5,200 and student members 6,669 totalling 11,869. The official organ of the Associate is the *Nursing Journal of India*.

President: Miss E. H. Paull.

Vice-Presidents: Miss G. Kapadia; Miss M. Thomas, Miss I. Anderson.

General Secretary: Kumari Lakshmi Devi; *Secretary, Nursing Assocn.*: Miss I. Dorabji; *Hon. Treasurer*, Miss I. Adranvala; *Editor*: Kumari Lakshmi Devi; *Hon. Jt. Editor*: Miss M. Craig.

Hon. Secretaries.—Health Visitors' League: Miss K. Thomas. Midwives' Association: Miss M. Isaac.

Subscriptions.—Annual subscription which includes *Nursing Journal of India* Rs. 12, Health Visitors and Midwives Rs. 6. Membership: Rs. 150.

TUBERCULOSIS ASSOCIATION OF INDIA
Office:—8, Red Cross Road, New Delhi.

The aims and objects are the prevention, control and eventual eradication of tuberculosis in India.

Eighteen State Tuberculosis Associations are affiliated to this Association. It runs model T.B. institutions, namely, the Lady Linlithgow Sanatorium, Kasauli (Simla Hills) with which is annexed the King Edward Sanatorium, Dharampore; the New Delhi Tuberculosis Centre, New Delhi and Tuberculosis Hospital, Mehrauli (Delhi). Publishes the *Indian Journal of Tuberculosis* quarterly and brings out *Directory of Tuberculosis Institutions in India*. Conducts annually the T.B. Seal Sale Campaign, trains doctors and health visitors and organises every year conferences of T.B. workers. The Association is affiliated to the International Union Against Tuberculosis in Paris and works in close collaboration with the Government of India, the World Health Organization, the United Nations International Children's Emergency Fund and other international bodies and other welfare bodies.

Chairman: Lt.-Col. C. K. Lakshmanan, Director-General of Health Services, Government of India; *Vice-Chairman*, Sir Shri Ram. *Hony. Treasurer*, S. Ratnam; *Tech. Adviser*, Dr. P. V. Benjamin, Tuberculosis Adviser to the Government of India; *Secretary*, B. M. Cariappa.

UNITED CHAMBER OF TRADE ASSOCIATIONS
Nai Sarak (Katra Rathi), Delhi.

President, B. S. Bawa.
Hony. Secretary : M. Dayal.
Secretary : O. P. Agarwal.

UNITED COUNCIL FOR RELIEF AND WELFARE
Rashtrapati Bhavan, New Delhi.

Aims and Objects :—Co-ordination of the activities of the charitable organisations, relief of distress, ailment, suffering or calamity.

Sources of funds are from the Prime Minister's National Relief, Government of India and public donations.

Chief Office-Bearers :—President and Chairman, President of India; *Vice-President*, The Prime Minister; *Vice-Chairmen*, Rajkumari Amrit Kaur, Sir Usha Nath Sen, Sucheta Kripalani; *Executive Vice-Chairman*, Smt. Durgabai Deshmukh; *Hon. Treasurer*, N. Banerjee; *Secretary*, B. N. Banerjee.

VALLABHBHAI PATEL CHEST INSTITUTE
Delhi.

VISWAYATAN YOGASHRAM
Willingdon Pavilion, Outside Delhi Gate, Delhi.

THE WHOLESALE GENERAL MERCHANTS ASSOCIATION
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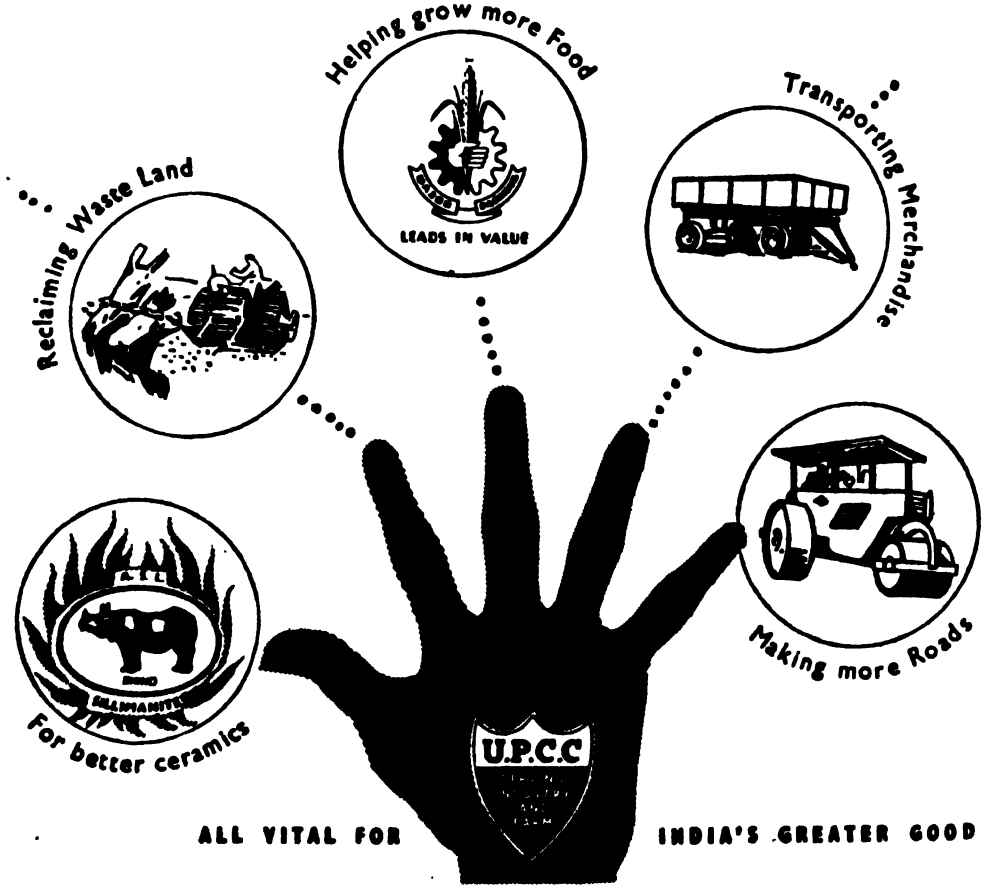
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Philips India, Calcutta, Bombay, Madras, Delhi, Lucknow, Kanpur, Patna & Bangalore.

Pokarmal Jain & Co., Katra Naya, Chandni Chowk, Delhi.

Premier Book Co., Nai Sarak, Delhi-6.

Premnath Motors Ltd., Scindia House, New Delhi.

Punjab Business and Supply Co. Ltd., Naya Bazar, Delhi.

Punjab Cloth Mills Ltd., Katra Asharfi, Chandni Chowk, Delhi.

Punjab National Bank Ltd., Chawri Bazar, Delhi.

Punjab Optical House, 740, Chandni Chowk (between Dariba & Gurdwara), Delhi 6.

Punjab Spectacles Co., The, Fountain, Delhi —6. Manufacturing Opticians.

Punnalal Jainy & Co., Gali Lehawa, Chandni Chowk, Delhi.

Raja Toys Co., Deputy Ganj, Sadar Bazar, Delhi (India).

Rajasthan Trading Co., Katra Nawab, Chandni Chowk, Delhi.

Rajendra & Co., Ladies Coats and Gents Wear Specialists, 16-E, Connaught Place, New Delhi.

RAJKAMAL PRAKASHAN PRIVATE LTD., Faiz Bazar, Delhi. Branches at Bombay, Allahabad, Patna and Madras. Leading Hindi Publishers and Wholesalers.

Ram Kishen & Sons, 18, Marina Arcade, New Delhi.

Ramkishan Sethi & Sons, 283, Chandni Chowk, Delhi.

Rama Krishna & Sons, Book-Sellers, 16/B, Connaught Place, New Delhi.

Rama Textiles Ltd., Nicholson Road, Delhi.

Ramsingh Kundanlal, 5666, Gandhi Market, Sadar Bazar, Delhi 6.

RANBAXY & COMPANY PRIVATE LTD., *Head Office :* No. 16, Marina Arcade, P.O. Box No. 104, Connaught Circus, New Delhi ; *Branches :* BOMBAY : 1st Floor, Queen's Mansion, Bastion Road, Fort ; CALCUTTA : P.36, Royal Exchange Place, Extension ; DELHI : Bhagirath Palace, P.O. Box No. 1664 ; KANPUR : Shyam Sunder Bldg., The Mall ; MADRAS : Ebrahim Bldgs., 3, Erabalu Chetty Street ; *Sole Agents for :* LEPETIT. S. P. A. Milan, Italy ; (Managing Director : Bhaj Mohan Singh) ; Cable Address : "LEPETIT", New Delhi, Bombay, Calcutta, Delhi, Kanpur & Madras.

Ranjitsingh & Sons, Esplanade Road, Delhi.

RANGOON STUDIO (TALREJA BROS.), 58, Janpath, New Delhi, Phone : 47861.

Ravi Brothers, Kashmere Gate, Delhi.

Rawalpindi Automobiles, Kashmere Gate, Delhi.

R. B. Ramjidas & Co., 21, Deputy Ganj, Sardar Bazar, Delhi.

R. S. Madho Ram & Sons, Nai Sarak, Delhi.

Refrigerators (India) Private Ltd., 46, Janpath, New Delhi. Dealers in "Surfrige" Refrigerators and Air-Conditioners and Super Coilers.

Roneo Ltd., Bombay Life Building, Connaught Circus, New Delhi.

Roy Brothers (Cheap John) Ltd., Drapers & Tailors, Queensway, New Delhi.

Royal Fountain Pen Co., Near Fountain, Chandni Chowk, Delhi—6.

Royal Stores, General Merchants, 33, Gole Market, New Delhi.

S. Gupta & Co., Moti Bazar, Chandni Chowk, Delhi.

Sonabhai Murarilal & Co., Katra Asharfi, Chandni Chowk, Delhi.

S. B. Electric Company, Bissumal Colony, Behind State Bank of India, Delhi 6.

S. Gupta & Co., Moti Bazar, Chandni Chowk, Delhi.

S. K. Diwan & Co., 24, Irwin Road, P.B. No. 233, New Delhi-1.

Sarasvati, Jewellers, 19-E, Connaught Place, New Delhi.

Sarson & Co., Chawri Bazar, Delhi.

Sham & Co., 5529, Nai Sarak, Delhi.

Shambhunath & Co., Katra Subhash, Chandni Chowk, Delhi.

Shivmohanlal & Co., Katra Naya, Chandni Chowk, Delhi.

Sohanlal Prem Narain Jain, V/57, Chandni Chowk, opp. Central Bank, Delhi.

SPENCER & CO., LTD., Northern Branches Control Office—19-A, Alipore Road, Delhi; Wholesale and Retail Wine and Provision Merchants; Hotel Proprietors; Cigar Manufacturers; Cold Storage; Refrigeration and Air-Conditioning Specialists, etc. Branches: Kashmere Gate, Delhi & 2, Irwin Road, New Delhi; Grams: "PORTEDOS"-Delhi; Phones: 26222 & 25909; P.O. Box No. 2003.

Standard Radio & Electric Co., Opp. Scindia House, New Delhi.

State Bank of India, Chandni Chowk, Delhi & Parliament Street, New Delhi.

Suraj Perkash & Bros., Katra Naya, Chandni Chowk, Delhi.

Surana & Company, Fountain, Chandni Chowk, Delhi.

Suresh Hosiery Mills, 20, Daryaganj, Delhi-7.

T. Motandas & Co., Thana Saddar Road, Delhi 6.

Tata Industries Ltd., United India Building, Connaught Circus, P.O. Box No. 68, New Delhi-1.

Tilak Chand Rajendra Kumar Jain, 5198, Sadar Bazar, Delhi 6.

Tilak Raj Bhasin & Co., Katra Nawab, Chandni Chowk, Delhi.

Time & Tide, Krishna Niket, Delhi Gate, Delhi.

Tomco, The Tata Oil Mills Co. Ltd., Sales Department, Delhi Gate, Delhi.

Trade Representation of the German Democratic Republic, The, New Delhi.

Trevillion & Clark, 21-B, Connaught Place, New Delhi.

Trikamlal Maganlal Sutaria & Co., Katra Asharfi, Chandni Chowk, Delhi.

Uberoi Ltd., Sports Goods Dealers, 14/E, Connaught Place, New Delhi.

United Dairies Ltd., Connaught Circus, New Delhi.

United Soda Water Factory, Naya Bazar Delhi.

United Sports Traders (Delhi), Ltd., 5838 Khaliq Manzil, Thana Street, Subzi Mandi, Delhi.

Universal Book & Stationery, Co., 16, Faiz Bazar, Delhi 7.

Universal Publishing Co., Esplanade Road, Delhi.

Universal Radio Co., Chandni Chowk, Delhi—6.

Upper India Selling Agency, Katra Piareylal, Chandni Chowk, Delhi.

Upper India Trading Co. Ltd., Kashmere Gate, Delhi.

United Traders, Katra Neel, Chandni Chowk, Delhi.

Vallabh Das & Co., Dan Bazar, Cloth Market, Delhi.

Vijay Trading Co., Mahavir Bazar, Cloth Market, Delhi.

Vishva Sunder, Fabrics Ltd., Katra Nawab, Chandni Chowk, Delhi.

Wholesale Textile Ltd., Chandni Chowk, Delhi.



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ADVERTISING AND PUBLICITY AGENTS

Beecham's India Air Guide.—Beecham's Press Ltd. Building, M-Block, M-6, Connaught Circus, New Delhi 1.
Bharat Publicity Service.—Delhi.
Delhi Publicity Corp.—Kashmere Gate, Delhi.
D. J. Keymer & Co. Ltd.—D.A.G. Extension, New Delhi.
Gaywaya Publicity.—Rohtak Road, New Delhi.
Grant Advertising Inc.—Delite Cinema Bldg., New Delhi.
Hamdard Advertisers.—Hamdard Dawakhana, Delhi.
Hind Publicity Service.—Kamla Market, New Delhi.
Hindustan Publicity Corpn.—23-24, Faiz Bazar, Delhi 7.
Jupiter Publicity Co.—G. B. Road, Delhi.
Lintas Ltd.—D.A.G. Extension, New Delhi.
National Publicity Service.—Connaught Place, New Delhi.
Rama Publicity Service Private Ltd.—2542, Naiwara (Chawri Bazar), G.P.O. Box No. 1164, Delhi 6.
Standard Publicity Service.—Chandni Chowk, Delhi.
Studio Rattan Batra Ltd.—Bombay Life Buildings, Connaught Circus, New Delhi.
Thompson Company (Eastern) Ltd.—Connaught Circus, New Delhi.
Vasudeva Publicity Service.—50-M, Connaught Circus, New Delhi.

AERATED WATER MANUFACTURERS

Ashoka Soda Water Factory.—Opp. Police Station, Faiz Bazar, Daryaganj, Delhi.
Azad Soda Water Factory—Library Road, Pul Bangash, Delhi.
Bahadur Punjab Soda Water Factory.—Chandni Chowk, Delhi.
Batra & Co. Regd. (India).—G. B. Road, Shahganj, Delhi.
Behari Lal & Co.—Mori Gate & Connaught Circus, New Delhi.
Bhola Ram & Sons Ltd., R. S.—Connaught Place, New Delhi.
Chopra Aerated Water Factory.—Roshanara Road, Delhi.
Coronation Soda Water Factory.—Mori Gate, Delhi.
Crystal Aerated Water Factory.—8, Club Road, Delhi.
Daulat Soda Water Factory.—Bara Hindu Rao, Delhi.
Dilbahar Soda Water Factory.—Library Road, Pul Bangash, Delhi.
H. S. Obra's Son & Co.—Naya Bazar, Delhi.
H. S. Obra & Sons.—Connaught Circus, New Delhi.
J. B. Soda Water Factory.—Dev Nagar, Original Road, Delhi.
Kailash Soda Water Factory.—Queen's Road, Delhi.
Kellys Soda Water Factory.—Nicholson Road, Delhi.
National Aerated Water Factory.—Bara Tooti, Saddar Bazar, Delhi.
Nonihal Soda Water Factory.—Bahadurgarh Road, near Deputy Ganj, Delhi.
Prabhat Soda Water Factory.—Behind State Bank, Chandni Chowk, Delhi.
Punjab Soda Water Factory.—Paharganj, Delhi.
R. K. Goyal & Co.—Naya Bazar, Delhi.
Ramsey Aerated Water Factory.—Arora Building, Original Road, Delhi.
Royal Soda Water Factory.—Sadar Thana Road, Delhi.
Shree Mahabir Soda Water Factory.—Model Basti, Delhi.
Teptilta Aerated Water Co.—Church Road, Kashmere Gate, Delhi.
United Soda Water Factory.—Naya Bazar, Delhi.

AGRICULTURAL ENGINEERS

B. K. Khanna & Co.—Connaught Circus, New Delhi.
Delhi Garage Ltd.—Connaught Circus, New Delhi.
Dinanath Balmukand.—Naya Bazar, Delhi.

AGRICULTURAL IMPLEMENTS

Delhi Garage Ltd.—Connaught Circus, New Delhi.
East Asiatic Co. (India) Private Ltd.—Delite Cinema Bldg., D.A.G. Extension, New Delhi.
Escorts (Agents) Ltd.—Connaught Circus, New Delhi.
Goodearth Agencies Private Ltd.—D.A.G. Extension, New Delhi.
Jacks William & Co. Ltd.—Connaught Place, New Delhi.
Jayems Engineering Co.—Connaught Circus, New Delhi.
Larsen & Toubro Ltd.—Indra Palace, Connaught Place, New Delhi.
Man Mohan Lal & Co.—D.A.G. Extension, New Delhi.
Seth Ram Narain Gupta & Bros.—Naya Bazar, Delhi.
Tecalemit (India) Ltd.—L/13, Connaught Circus, New Delhi.

AGRICULTURAL MACHINERY

Bhana Mal & Co., Ltd.—Chawri Bazar, Delhi.
MARSHALL SONS & CO. (INDIA) LTD.—Marshall House, Hanuman Road, New Delhi. Grams: "ENGINE." Phones: 47887 and 47888.

AIR-CONDITIONING AND REFRIGERATION

Ahuja (Refrigeration) Ltd.—D.A.G., Scheme, New Delhi 1.
Air Conditioning Corporation Ltd.—Regal Buildings, New Delhi 1.
ASSOCIATED ELECTRICAL INDUSTRIES (INDIA) PRIVATE LTD.—United India Life Bldg., Connaught Place, New Delhi. (See Commercial Firms in New Delhi).
Best & Co.—Connaught Circus, New Delhi 1.
Blue Star Engineering Co. Ltd.—Behind Kamla Market, New Delhi 1.
Bombay Ammonia & Refg. Co. Ltd.—D.A.G., Scheme, New Delhi 1.
Capital Refrigeration Co.—72, Queensway, New Delhi 1.
Gardners Corporation—25,90, Connaught Circus, New Delhi.
Himalaya Manufacturing & Sales Co.—Faiz Bazar, Delhi 7.
Hindustan Airconditioning Corporation.—Asaf Ali Road, New Delhi 1.
Kanwar Refrigerators (India).—M-45,1, Connaught Circus, New Delhi 1.
Kapsons Refrigeration & Air Conditioning Engineers.—D.A.G., Scheme, New Delhi 1.
Kooler's Refrigeration & Air Conditioning Co.—1/21, Block, Connaught Circus, New Delhi 1.
LLOYD ELECTRIC & ENGINEERING CO.—Punj House, M-13, Connaught Circus, New Delhi 1.
Modern Electro-Mechanical Works.—25/8, Prem House, Connaught Place, New Delhi 1.
National Refrigeration Works.—2, Faiz Bazar, Delhi 7.
New India Motors Ltd.—Connaught Circus, New Delhi 1.
Oriental Radio Corporation.—D Block, Connaught Circus, New Delhi 1.
Oriental Refrigeration & Engineering Co., Ltd.—D.A.G., Scheme, New Delhi 1.
Refrigerators (India) Ltd.—46, Queensway, New Delhi 1.
Refrigerator Service Corporation.—2, Regal Building, Connaught Circus, New Delhi 1.
Standard Radio & Electric Co.—Opp. Scindia House, New Delhi 1.
Tranga Engineering Works.—349-A, Lajpat Rai Market, Delhi 6.
Veer Refrigerating & Air Conditioning Co.—X1/3485, Daryaganj, Delhi 7.
Veer Refrigerators India.—Palewal Building, Ajmeri Gate, New Delhi 1.
Vijay Electronics Ltd.—13-L, Connaught Circus, New Delhi 1.
Voltas Ltd.—7/1, Ajmeri Gate, New Delhi 1.

AIR COMPRESSORS

Brady, W. H. & Co., Ltd.—Indra Palace, Connaught Place, New Delhi.
Consolidated Pneumatic Tool Co. Ltd.—8-A 29, W.E.A., New Delhi.
DELHI GARAGE PRIVATE LTD.—Connaught Circus, New Delhi. Air Compressors for Spray Painting Jobs, Tyre Inflation and for all compressed air-operated equipment.
East Asiatic Co., India (Private) Ltd.—Delite Cinema Bldg., D.A.G. Extension, New Delhi.
F. J. Dillon Engineering Co.,—D.A.G. Extension New Delhi.
Jayems Engineering Co.—Connaught Circus, New Delhi.
Khosla, K. G. & Co., Private Ltd.—D. B. Gupta Road, New Delhi.
Marshall Sons & Co., (India) Ltd.—Marshall House, Connaught Circus, New Delhi.
Tecalemit (India) Ltd.—L/13, Connaught Circus, New Delhi.

AIR SERVICE

Air Carrier Service Corpn.—43, Regal Bldg., Connaught Circus, New Delhi.
Air France, General Agents Escorts (Agents) Ltd.—Connaught Circus, New Delhi.
Air India International.—9, Connaught Place, New Delhi.
Aryan Air Lines, Air Line Co.—Connaught Place, New Delhi.
British Overseas Airways Corporation.—Speedbird House, Connaught Circus, New Delhi.
Himalayan Aviation Ltd.—202, Jor Bagh Nursery, New Delhi.
Indian Air Lines Corporation.—Malhotra Building, Queensway, New Delhi.
K.L.M. Royal Dutch Air Lines.—9-A, Connaught Place, New Delhi.
Pakistan International Air Lines.—Metro Hotel, Queensway, New Delhi.
Pan American World Airways.—Hotel Imperial, New Delhi.
S.A.S.—Western Court, Queensway New Delhi.
Segal Air Transport Ltd.—24 18, Darayaganj, Delhi 7.
T.W.A.—General Agents, Saha & Rai, Connaught Circus, New Delhi.

ALUMINIUM & ALUMINIUM WARE MANUFACTURERS

Aluminium Hindustan Ltd.—Chowdhary Bldg., Block K, New Delhi.
Chawla Brass & Aluminium Factory.—G.T. Road, Delhi-Shahdara.
Chawla Metal Works.—Delhi-Shahdara.
Delhi Brass & Aluminium Works.—Rohtak Road, New Delhi.
Hind Metal Works.—G. T. Road, Delhi-Shahdara.
Indian Aluminium Co., Ltd.—44, Janpath, New Delhi.
Popular Metal Works.—Delhi-Shahdara.
Rama Krishna Rolling & General Mills.—Rohtak Road, Delhi 6.
Sardar Aluminium Factory.—G. T. Road, Delhi-Shahdara.
Shahdara Aluminium Factory.—G. T. Road, Delhi.
Swastik Metal Works.—G. T. Road, Delhi-Shahdara.

ARMS AND AMMUNITION

Basakha Singh & Co., Ltd.—6-L, Basakha Singh Buildings, Connaught Place, Delhi.
Bawa Parduman Singh & Sons.—Cloth Market, Delhi.
Debi Parshad Begaria.—Subzimandi Bazar, Delhi.
Gift House.—Connaught Place, New Delhi.
Manton & Co.—Scindia House, Connaught Circus, New Delhi.
National Stores.—Connaught Circus, New Delhi.
Oriental Arms & Ammunition Co.—Connaught Circus, opp. Fire Brigade, New Delhi.
Oriental Sales Corporation.—Connaught Circus, New Delhi.
Shakti Arms Corporation.—Connaught Place, New Delhi.
SINGH BROS. (1925) REGD.—Kashmere Gate, Delhi 6. Phone : 23341. Grams : "GUNHOUSE."

AUCTIONEERS

B. N. Ramji Das & Co.—278, Esplanade Road, Delhi.
Behanlal & Co.—Connaught Circus, New Delhi.
Haldar Mal Jai Kishan Das.—Fais Bazar, Daryaganj, Delhi.
Ram Gopal Ratti Ram.—Hamilton Road, Delhi.
Rangi Lall Shri Krishan.—Hamilton Road, Delhi.
Ravi Brothers.—Church Road, Kashmere Gate, Delhi.
Seth Kishori Lal & Sons.—49, Panch Kuin Road, Delhi.

AUTOMOBILE DEALERS AND ENGINEERS

Aggarwal Automobiles.—Queen's Road, Delhi.
Allenbury & Co., Ltd.—Connaught Circus, New Delhi.
Allied Engineering Co.—Kashmere Gate, Delhi.
American Radio & Auto Co.—Queen's Road, Delhi.
Anand Automobiles Ltd.—Mehrauli Road, New Delhi.
Associated Engineering Works Ltd.—Kashmere Gate, Delhi.
Asu Traders.—Kashmere Gate, Delhi.
Auto Home.—Kashmere Gate, Delhi.
Auto Trading Co.—Kashmere Gate, Delhi.
Bharat Automobiles.—Kashmere Gate, Delhi.
Bharat Motor Co.—Queen's Road, Delhi.
Bombay Auto & Electric Stores.—Kashmere Gate, Delhi.
British Motor Car Co., Ltd.—Connaught Circus, New Delhi.
Chopra Auto Stores.—Kashmere Gate, Delhi.
Commercial Auto Stores.—Kashmere Gate, Delhi.
Commonwealth Automobiles.—Queen's Road, Delhi.
D. B. Dass & Co.—Kashmere Gate, Delhi.
Dass Motor Stores.—New Delhi.
Delhi Auto Stores.—Kashmere Gate, Delhi.
Delhi Garage Ltd.—Connaught Circus, New Delhi.
Delhi Motor Company.—Kashmere Gate, Delhi.
Federal Auto Stores.—Kashmere Gate, Delhi.
Ganeshdass Vishandass.—Mutiny Memorial Road, Delhi.
General Agencies & Representatives.—Daryaganj, Delhi.
General Automobiles.—Kashmere Gate, Delhi.
General Motor Stores.—Queen's Road, Delhi.
Goodwill Automobiles.—Kashmere Gate, Delhi.
Gupta Bros.—Kashmere Gate, Delhi.
Hind Automobiles.—Kashmere Gate, Delhi.
Howrah Motor Co., Ltd.—Kashmere Gate, Delhi.
Indo Trading Co.—Kashmere Gate, Delhi.
Indra Prasth Traders.—Kashmere Gate, Delhi.
International Industries.—Kashmere Gate, Delhi.
Jain Motor Car Co.—Queen's Road, Delhi.
Jullunder Motor Agency Ltd.—Kashmere Gate, Delhi.
Kamal & Co. (Jaipur) Ltd.—Gandhi Market, Kashmere Gate, Delhi.
Kanoor Motors.—Kashmere Gate, Delhi.
Kanwal Bros. Ltd.—Scindia House, New Delhi.
Kapoor Motors.—Kashmere Gate, Delhi.
Lakshmi Motor Co.—Queen's Road, Delhi.
Marble Motor Stores.—New Delhi.
Mehta Auto Stores.—Kashmere Gate, Delhi.
Midland Motor Co.—New Delhi.
Midland Traders.—Kashmere Gate, Delhi.
Modern Automobiles.—Kashmere Gate, Delhi.
Mudgel Motor Co.—Kashmere Gate, Delhi.
Narula Motor Works.—Queen's Road, Delhi.
National Automobiles.—Kashmere Gate, Delhi.
National Motor Works.—Queen's Road, Delhi.
New Garage Ltd.—11, Scindia House, Connaught Circus, New Delhi.
New Lakshmi Automobiles.—Kashmere Gate, Delhi.
Northern India Motor Co.—New Delhi.
Orient General Agencies.—Kashmere Gate, Delhi.
Overseas Trading Co.—Queen's Road, Delhi.
Pn. D. Kalsao & Co.—Chandni Chowk, Delhi.
Power Tools & Appliance Co.—Kashmere Gate, Delhi.
P. S. Jain Motor Co.—Queen's Road, Delhi.
P. Sharan & Co.—Kashmere Gate, Delhi.
Prefect Auto Stores.—Kashmere Gate, Delhi.
Prem Nath Motors Ltd.—Scindia House, New Delhi.
Prashad Bros.—21, Mumshi Ram Buildings, New Delhi.
Punjab Motor Stores.—Queen's Road, Delhi.
Rama Motor Stores.—Queen's Road, Delhi.
Rane Ltd.—Kashmere Gate, Delhi 6.
Ratan Lal & Co.—Kashmere Gate, Delhi.
Rawalpindi Automobiles.—Kashmere Gate, Delhi.
Sachdeva Bros.—Queensway, New Delhi.
Seth & Sons.—Queen's Road, Delhi.
S. Krishna & Co.—Kashmere Gate, Delhi.
Sondhi Motors Ltd.—Scindia House, New Delhi.
Swastika Motors.—Kashmere Gate, Delhi.
United Trading Co.—Kashmere Gate, Delhi.
Upper India Trading Co., Ltd.—Kashmere Gate, Delhi.
Vir India Motor Co.—Kashmere Gate, Delhi.

AUTOMOBILE PARTS & ACCESSORIES

Asia Udyog Limited.—Connaught Circus, New Delhi.
Delhi Garage Ltd.—Connaught Circus, New Delhi.
Hind Automobiles.—Kashmere Gate, Gandhi Motor Market, Delhi.
Indo Trading Company.—Kashmere Gate, Delhi.
The Jain Motor Car Co.—Queen's Road, Delhi.
Modern Automobiles.—Kashmere Gate, Delhi.
Orient General Agencies.—Hamilton Road, Kashmere Gate, Delhi.
P. SHARAN & CO.—Post Box 1145, Kashmere Gate, Delhi 6; For Everything in Automobiles; Garage Tools and Service Equipments; Phones : 23314, 23649. Grams : "SHARAN".
Siyaram Bros.—Kashmere Gate, Delhi 6 & Connaught Circus, New Delhi 1.
Tecalemit (India) Ltd.—L/13, Connaught Circus, New Delhi.

AUTOMOBILE REPAIRS & SERVICE STATION

Allied Motors Private Ltd.—Scindia House, New Delhi.
Bagal Motor Service.—82-84, Janpath, New Delhi.
British Motor Car Co., Private (1934) Ltd.—Connaught Circus, New Delhi.
Kashyap Motors.—G-40, Connaught Circus, New Delhi.
New Garage Private Ltd.—Scindia House, New Delhi.
Pearey Lal & Sons Private Ltd.—Queensway, New Delhi.
Prem Nath Motors Private Ltd.—Scindia House, New Delhi.

BAKERIES & BISCUIT MANUFACTURERS

Abdul Rashid Bakery.—Lal Kuan, Delhi 6.
Ahuja Bakery.—Bengali Market, New Delhi.
Ambala Bakery.—7, Chitli Quabar, Delhi.
Bharat Bakery.—Mehrauli, New Delhi.
Blue Bird Bakery.—Tokriwalan, Delhi.
Carlton Bakery.—Kashmere Gate, Delhi.
Delhi Biscuit Co.—Ram Bagh Road, Pul Bangesh, Delhi.
Fancy Bakery.—9-A, Kothi Shora, Subzimandi, Delhi.
Food-Well Auto Bakery.—Daryaganj, Delhi.
Ghulam Husain Bakery.—Chitli Qabar, Delhi 6.
Golden Bakery.—Hamilton Road, Kashmere Gate, Delhi 6
Hind Bakery.—Punjab Hotel, Fatehpuri, Delhi 6.
Hindu Capital Bakery.—12, Ramnagar, Paharganj, New Delhi
Ideal Biscuit Co.—Paharganj, Delhi.
Jai Hind Bakery.—Chabiganj, Kashmere Gate, Delhi.
J. B. Mangharam & Co.—Fatehpuri, Delhi.
Kailash Bakery.—53, Gole Market, New Delhi.
Khurja Bakery.—Chhona Mandi, Paharganj, New Delhi.
Maqbooe Bakery.—Near Jumra Masjid, Delhi 6.
Modi Industries.—Fais Bazar, Delhi.
National Bakery.—Near Police Station, Kashmere Gate, Delhi.
New Era Bakery.—Katra Chhagumal, Shidipura, Delhi.
Parbhat Bakery.—Near Dr. Joshi Hospital, Karolbagh, New Delhi.
Popular Bakery.—Kucha Rehman, Delhi 6.
Raj Bakery.—12, Chhonamandi, Paharganj, New Delhi.
Special Diamond Bakery.—10, Pull Bangesh, Delhi 6.
Vishnu Bakery.—Masjid Khajoor, Delhi.

BALL BEARING

Arya Machinery Store.—Naya Bazar, G. B. Road, Delhi.
Orient General Agencies.—Hamilton Road, Kashmere Gate, Delhi 6.
Raghunath Bros.—Naya Bazar, Delhi.

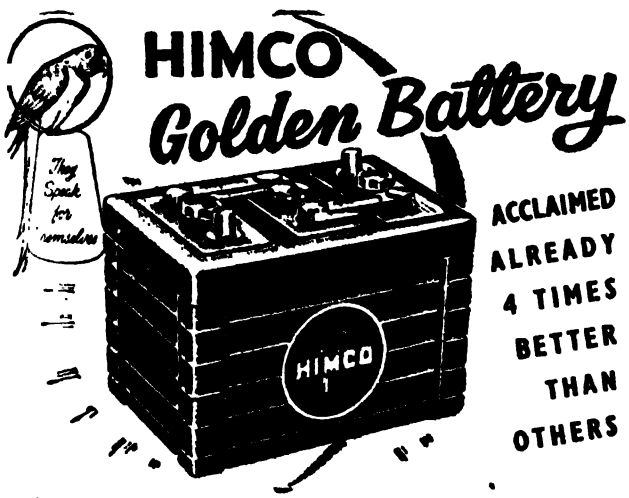
BANKS

Allahabad Bank Ltd.—Chandni Chowk, Karolbagh, Delhi & Scindia House, New Delhi.
American Express Co., Inc., The.—Hamilton House, Block 'A', Connaught Place, New Delhi.
Bank of Baroda Ltd.—Katra Munshi Gauri Shanker, Delhi & Connaught Circus, New Delhi.
Bank of Bikaner Ltd.—Outside Katra Neel, Delhi.
Bank of Jaipur Ltd.—Opp. Katra Tobacco, Khari Baoli & Katra Neel, Delhi.
Bank of India Ltd.—Indra Palace, New Delhi.
Bank of Patiala.—Near Gurudwara, Chandni Chowk, Delhi.
Central Bank of India, Ltd.—Chandni Chowk, Sadar Bazar, Delhi, and 70, Queensway, New Delhi.
Chartered Bank.—Chandni Chowk, Delhi and Indra Palace, New Delhi.
Commercial Banking Corporation.—Chandni Chowk, Delhi.
Delhi Co-operative Bank Ltd.—Khari Baoli, Delhi.

Devkaran Nanji Banking Co. Ltd.—Chandni Chowk, Delhi.
First National Bank Ltd.—Opp. Moti Bazar, Delhi.
Frontier Bank Ltd.—6-B, D.A.G., Extention, New Delhi.
Gadodia Bank Ltd.—Gadodia Market & Karol Bagh, Delhi.
Grindlays Bank Ltd.—Chandni Chowk, Delhi; Connaught Place, New Delhi and Sadar Bazar, Delhi.
Hindustan Commercial Bank Ltd.—Connaught Place, New Delhi and Chandni Chowk, Delhi.
Laxmi Bank Ltd.—Chandni Chowk, Delhi.
Lloyds Bank Limited.—Chandni Chowk Delhi and Regal Building, Connaught Circus, New Delhi.
Mercantile Bank of India Ltd.—Chandni Chowk, Delhi.
National Bank of India Ltd.—Chandni Chowk and Connaught Circus, New Delhi.
New Bank of India Ltd.—Chandni Chowk, Delhi and Connaught Circus, New Delhi.
New Citizen Bank Ltd.—Chandni Chowk, Delhi.
Oriental Bank of Commerce Ltd.—Chandni Chowk, Delhi.
Palai Central Bank Ltd.—461, Chandni Chowk, Delhi and Connaught Circus, New Delhi.
Prabhat Bank Ltd.—Chandni Chowk, Delhi and Connaught Circus, New Delhi.
Punjab National Bank Ltd.—Head Office: 8, Under Hill Road, Delhi. Branches at; Connaught Circus, New Delhi and Fountain, Delhi; Karol Bagh, Kashmere Gate, Subzimandi, Sadar Bazar, Delhi; Minto Road, Chandni Chowk, Chawri Bazar, Delhi.
Reserve Bank of India.—Chandni Chowk, Delhi.
State Bank of India.—Chandni Chowk, Delhi & Parliament Street, New Delhi.
Simla Banking and Industrial Co., Ltd.—88, Queensway Road, New Delhi.
Traders Bank.—(Central Office: 13, Rajpur Road). Branch: Chandni Chowk, Delhi.
United Bank of India.—Connaught Circus, New Delhi & Chandni Chowk, Delhi.
United Commercial Bank Ltd.—Delhi.

BATTERY MANUFACTURERS & DEALERS

Balmer Lawrie & Co., Ltd.—D.A.G. Extension, New Delhi.
Battery Supplying Co.—20, Gokhale Market, Delhi 6.
Delhi Garage Ltd.—Connaught Circus, New Delhi.



HIMCO (INDIA) PRIVATE LTD.

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144, Mount Road, Madras 6. Phone: 85501.
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Premnath Motors Private Ltd.—Scindia House, New Delhi.

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Sahib Singh & Sons.—16-F, Connaught Circus, New Delhi.
Sawhney Brothers.—Esplanade Road, Delhi.
Shame-ul-Arifeen & Co.—Fatehpuri, Delhi.
Sohanlal & Sons.—Esplanade Road, Delhi.
Sukh Dayal-Harnam Das.—Sabzi Mandi (Tram Terminus), Delhi

Twin Brothers.—Bhagirath Palace, Chandni Chowk, Delhi.
Wadhawan Brothers.—Back of Moti Talkies, Chandni Chowk, Delhi.
Young Friend & Co.—Connaught Place, New Delhi.

CINEMAS AND THEATRES

Camp Cinema.—Delhi.
Defence Services Cinema.—(C.S.D (1)), Delhi Cantt.
Excelsior Cinema.—Delhi.
Golcha Cinema.—Faiz Bazar (Daryaganj), Delhi.
Imperial Talkies.—Paharganj, Delhi.
India Garrison Cinema.—Delhi Cantonment.
Jagat Cinema.—Near Juma Masjid, Delhi.
Jubilee Talkies.—Fountain, Delhi.
Khana Talkies.—Paharganj, Delhi.
Kumar Talkies.—Chandni Chowk, Delhi.
Liberty.—Rohtak Road, New Delhi 5.
Majestic Talkies.—Fountain, Chandni Chowk, Delhi.
Minerva Talkies.—Kashmiri Gate, Delhi.
Moti Talkies.—Chandni Chowk, Delhi.
New Amar Talkies.—Delhi.
Novelty Cinema.—Near Railway Station, Delhi.
Odeon Cinema.—Connaught Circus, New Delhi.
Palace Cinema.—Sabzimandi, Delhi.
Palam Cinema, New Delhi.
Plaza Cinema.—Connaught Circus, New Delhi.
Race Course Cinema.—New Delhi.
Regal Cinema.—Connaught Circus, New Delhi.
Ritz Cinema.—Delhi.
Rivoli Cinema.—Connaught Circus, New Delhi.
Robin Talkies.—Delhi.
Shalimar Talkies.—Bhogal, New Delhi.
Stadium Cinema.—New Delhi.
Talkatora Palace.—New Delhi.
West End Talkies.—Delhi.

CLOTH MERCHANTS (RETAILERS)

Ahuja Swadeshi Stores.—Chandni Chowk, near Tower, Delhi.
Amin Chand Jiwan Ram.—Clock Tower, Amritsar and Chandni Chowk, Delhi.
Banbasi Swadeshi Stores.—Near P.O., Karol Bagh, Delhi.
Benares House.—Near Clock Tower, Chandni Chowk, Delhi.
Bengal House.—Nai Sarak, Delhi.
Bharat Swadeshi Stores.—Nai Sarak, Delhi.
Birbal Das Om Parkash.—Nai Sarak, Delhi.
Bishen Singh & Co.—Chandni Chowk, Delhi.
Bombay Silk Stores.—Chandni Chowk, Delhi.
Cawnpore Agency.—Nai Sarak, Delhi.
Cheap Jainy.—Connaught Place, New Delhi.
Chiranji Lal Devi Dayal.—Nai Sarak, Delhi.
Deougar Mal Lachhi Ram.—Nai Sarak, Delhi.
Devichands.—Connaught Place, New Delhi.
Diwan Singh Ram Singh.—Chandni Chowk, Delhi.
Gandhi Ashram Khadi Bhandar.—Chandni Chowk, Delhi.
Ghwar Lal Balj Nath.—Chandni Chowk, Delhi.
Guptajee Connaught Place, New Delhi.
Hazari Lal Basheshar Nath.—Chandni Chowk, Delhi.
Hazari Lal Ram Parkash.—Chandni Chowk, near Tower, Delhi.
Hotu Ram Vas Dev.—Chandni Chowk, near Tower, Delhi.
Indian Stores.—Opp. Central Bank, Chandni Chowk, Delhi.
Jagat Narain Khanna.—Connaught Place, New Delhi.
Jamna Das Khanna.—Chandni Chowk, Delhi.
Jankidas & Co.—23/F, Connaught Place, New Delhi.
Jauhari Mal Shiam Lal.—Nai Sarak, Delhi.
Jhamni Mal Daya Parkash.—Near Clock Tower, Chandni Chowk, Delhi.
Kanshi Pershad Devi Pershad.—Nai Sarak, Delhi.
Kanshi Ram Kesho Ram.—Chandni Chowk, Delhi.
Karachi Cloth House.—Clock Tower, Chandni Chowk, Delhi.
Kashmir House.—Chandni Chowk, Delhi.
Kashmir Swadeshi Stores.—Chandni Chowk, Delhi.
Khalsa General Stores.—Near Clock Tower, Chandni Chowk, Delhi.
Khazana Mal Banwari Lal.—Chandni Chowk, Delhi.
Kishan Chand Chella Ram (India) Ltd.—Chandni Chowk Tower, Delhi.
Kishori Lal & Sons.—Nai Sarak, Delhi.
Krishna Brothers.—Nai Sarak, Delhi.
Lachhman Das Jain & Co.—Nai Sarak, Delhi.
Lahore Silk Store.—Near Clock Tower, Chandni Chowk, Delhi.
Lalro Brothers.—Chandni Chowk, near Bazar Ballimaran, Delhi.
Lakshmi Chand Om Parkash.—Near Clock Tower, Chandni Chowk, Delhi.
Madho Ram & Sons.—Connaught Place, New Delhi.
Miri Mal Darbari Mal Jain.—Nai Sarak, Delhi.
Mohan Bros. Ltd.—Connaught Place, New Delhi.
Murshidabad Sarees Stores.—Chandni Chowk, Delhi.
Nagin Chand Stores.—Chandni Chowk, Delhi.
Novex.—12-C, Connaught Place, New Delhi.
Oriental Cutpieces Stores Ltd.—Chandni Chowk, behind Kumar Talkies, Delhi.
Pandit Bros.—Chandni Chowk, Delhi 6.
Pearay Lal Baldev Pershad.—Nai Sarak, Delhi.
Radhey Lal Kanhya Lal.—Chandni Chowk, Delhi.
Raja Bros.—Connaught Place, New Delhi.
Ram Narain Tirlok Chand.—Near Tower, Chandni Chowk, Delhi.
Ram Nath.—Nai Sarak, Delhi.
Ram Sarup Sham Sunder.—Nai Sarak, Delhi.
Rama Bros.—Chandni Chowk, Delhi.
Roy Brothers (Cheapjohn) Ltd.—Drapers & Tailors, Queensway, New Delhi.
Satya Dev Sudershan Lal.—Near Clock Tower, Chandni Chowk, Delhi.
Shibban Lal Harnam Das.—Nai Sarak, Delhi.
Shri Jawahar Shud Khadi Bhandar.—Nai Sarak, Delhi.
Shyam Lal Sunder Lal.—Nai Sarak, Delhi.
Sita Ram & Sons.—Nai Sarak, Delhi.
Sobh Raj Silk Store.—Near Clock Tower, Chandni Chowk, Delhi.
Sohanlal Prem Narain Jain.—V/57, Chandni Chowk, opp. Central Bank, Delhi.
Tulsi Das Ganga Ram.—Kashmere Gate, Delhi.

CLOTH MERCHANTS (WHOLESALE)

Balj Nath Bala Pershad.—Jagiwara, Nai Sarak, Delhi.
Balj Nath Trilok Chand.—Katra Hira Lal, Delhi.
Balwant Singh Harbans Singh.—Chandni Chowk, near Tower, Delhi.
Bansidhar Prem Narain Jain.—Nayakatra, Chandni Chowk, Delhi
Bansi Lal & Sons Ltd.—'N' Block, Piccadilly Buildings, Connaught Place, New Delhi.
Behari Lal Beni Pershad.—Maha Laxmi Market, Chandni Chowk, Delhi.
Behari Lal Lakha Mal.—Laxmi Bazar, New Cloth Market, Delhi.
Behari Lal Madan Lal.—Maha Laxmi Market, Chandni Chowk, Delhi.
B. Lilaram & Sons (Delhi).—14-15-F, Connaught Place, New Delhi.
Charan Singh Bindra.—Katra Lewa, Chandni Chowk, Delhi.
Delhi Cloth and General Mills Co., Ltd.—Delhi Kishangan), Delhi.
Deougar Mal Lachhi Ram.—Nai Sarak, Delhi.
Dwarka Das Murli Dhar.—Cloth Market, Queen's Road, Delhi.
Gian Singh & Co.—Laxmi Bazar, Cloth Market, Delhi.
Glamour.—20F, Connaught Place, New Delhi.
Hardlay Nath Bhargava & Co Cloth Market, Delhi.
Harlnath Onkarnath. Ganesh Bazar, Cloth Market, Delhi.
Johri Mal Gian Chand Jain.—Cloth Market, Delhi.
Jugal Kishore Murli Dhar.—Cloth Market Delhi.
Kailash Co.—Laxmi Bazar, New Cloth Market, Delhi.
K. Hassaram & Co.—Chandni Chowk (near Fountain), Delhi.
Kedar Nath Dwarka Das.—Laxmi Bazar, New Cloth Market, Delhi.
Kela Chand Dev Chand & Co., Ltd.—Laxmi Bazar, New Cloth Market, Delhi.
Loke Nath Ram Saran Das.—Cloth Market, Delhi.
Mahabir & Girish.—Mahabir Bazar, Cloth Market, Delhi
Malik Gobind Ram Rajinder Kumar.—Mahabir Bazar, Cloth Market, Delhi
Mohan Brothers Ltd.—Clock Tower, Chandni Chowk, Delhi.
Morarka & Co., Ltd.—Laxmi Bazar, Cloth Market, Delhi.
Pratap Mills Co., Ltd.—Mahabir Bazar, Cloth Market, Delhi.
Raj Kumar Chander Kumar.—Laxmi Bazar, Cloth Market, Delhi.
Raj Narain Anant Ram.—Laxmi Bazar, Cloth Market, Delhi.
Rameshwar Das Dwarka Das.—Laxmi Bazar, Cloth Market, Delhi.
Rameshwar Das Potadiya.—Cloth Market, Delhi.
Roy Brothers (Cheap John) Ltd Drapers & Tailors, Queensway, New Delhi
Sagar Mal Jagdish Pershad.—Laxmi Bazar, Cloth Market, Delhi.
Sara Bhai Murari Lal.—Mahabir Bazar, Cloth Market, Delhi.
Shiv Lal Atma Ram.—Katra Nawab, Chandni Chowk, Delhi.
Shub Karan Das Chiranji Lal.—Kucha Natwan, Chandni Chowk, Delhi.
Sohanlal Prem Narain Jain.—V/57, Chandni Chowk, opp. Central Bank, Delhi
Style.—13, E, Connaught Place, New Delhi.
Surat Ram Atma Ram.—Laxmi Bazar, Cloth Market, Delhi.

COAL

Amir Chand & Sons.—Western Extension Area, Karol Bagh, Delhi.
Andrew Yule & Co. Ltd.—12, Pusa Road, New Delhi.
Arjan Dass Gupta & Bros.—25, Fatehpur, Delhi.
Baluja Coal Co.—Marina Camp, New Delhi.
Bhagat Ram & Co. Chandrawal Road, Subzi Mandi, Delhi.
Bharat Coal Co.—Ajmeri Gate, Delhi.
Chamanlal & Brothers Ltd.—Baralani Queens Road, Delhi.
Chandan Mal Inder Kumar.—Chandni Chowk, Delhi.
Chander Bhan Anand Parkash.—Chawri Bazar, Delhi.
Coal Agents Ltd.—Behind Kumar Talkies, Chandni Chowk, Delhi.
Coal Marketing Co. of India Ltd.—Chandni Chowk, Delhi.
Coal Suppliers Ltd.—16, Asaf Ali Road, New Delhi.
Empire Coal Co.—8, S. Park, New Delhi
Hindustan Coal Co.—69-H, Connaught Circus, New Delhi.
Karam Chand Thapar & Bros. (Coal Sales) Ltd.—Naya Bazar, Delhi.
Maha'vir Coal Co.—49, Bengali Market, New Delhi.
New Bharat Charcoal Co.—Chawri Bazar, Delhi.
New Delhi Coal Co.—Block 205, Babar Road, New Delhi.
Nilkanth Industries, Ltd.—4, Daryaganj, Delhi.
Oriental Coal Corporation.—6 5, W.E.A., Karolbagh New Delhi.
Ram Narain Satya Pal.—Jawala Bank Building, Chandni Chowk, Delhi.
Sikri Bros.—Connaught Circus, New Delhi.
S. N. Sunderson & Co. (Office).—Original Road, Paharganj, Delhi.
Sunder Lal Jain.—Lahori Gate, Delhi 6.
Sunderson, S. N. & Co.—Original Road, New Delhi.

COLOURS

Asian Chemical Works.—Queen's Road, Nahar Sadat Khan, Delhi.
Bilakedas Ramchander.—Khari Baoli, Katra Tambaco, Delhi.
Calcutta Art Press.—Katra Burian, Fatehpur, Chandni Chowk, Delhi.
Chunnilal Kanhyi.—Khari Baoli, Delhi.
Dadajee Dhackjee & Co.—Khari Baoli, Katra Tambaco, Delhi.
General Paint and Colour Mart.—Sitaram Bazar, Delhi.
Harbhaghwan Rangwala.—Khari Baoli, Katra Tambaco, Delhi.
Kaloo Mall Prithvi Raj.—Khari Baoli, Delhi.
Khatan Valabhdas & Co.—Khari Baoli, Katra Tambaco, Delhi.
Kohinoor Paint, Colours and Varnishes.—Katra Burian, Fatehpur, Chandni Chowk, Delhi.
Kokamal & Sons.—Khari Baoli, Katra Tambaco, Delhi.
Narayandas Jagjiwan & Co.—Khari Baoli, Katra Tambaco, Delhi.
National Colour Company.—Khari Baoli, Delhi.
Ram Lubhaya Baignath.—Khari Baoli, Katra Tambaco, Delhi.

CONDIMENTS (INDIAN) MANUFACTURERS

FOSTER BELL & CO.—P. Box No. 406, New Delhi. Manufacturers of Quality: Tomato Catsup, Jams, Jellies, Squashes, Juices, Canned Fruits and Vegetables, Pickles, Condiments.

CONFECTIONARY MFRS., & DEALERS

Ahuja Brothers.—Gondhi Wali Gate, Fatehpuri Masjid, Delhi.
Amrit Confectionary Works.—Rajendra Market, Delhi.
Ashoka Confectionary Works.—Rehgerpura, Delhi.
B. R. Prakash Confectionary Works.—Katra Bariyan, Delhi.
Calcutta Confectionary Works.—Mohalla Dhotram, Farash Khana, Delhi.
Cheap Biscuit Manufacturing Co.—Lajpat Rai Market, Delhi.
Delhi Biscuit Co., Ltd.—Ram Bagh Road, Delhi.
Fancy Biscuit Co.—Subzi Mandi, Delhi.
Gupta Biscuit Factory.—Kingsway Camp, Delhi.
Hindustan Confectionery Works.—Lal Kuan Delhi.
Lahore Confectionary Works.—Farash Khana, Delhi.
National Peppermint Products.—Original Road, Paharganj, New Delhi.
Punjab Biscuit Factory.—Bahadurgarh Road, Delhi.
Punjab Confectionary Works.—Motia Khan, Delhi.
Reliance Confectionary Works.—Bazar Churiwalan, Delhi.
Shakti Confectionary Works.—Phatak Habash Khan, Delhi.
Sunlight Confectionary Works.—Roshanara Road, Delhi.

CURIOS DEALERS

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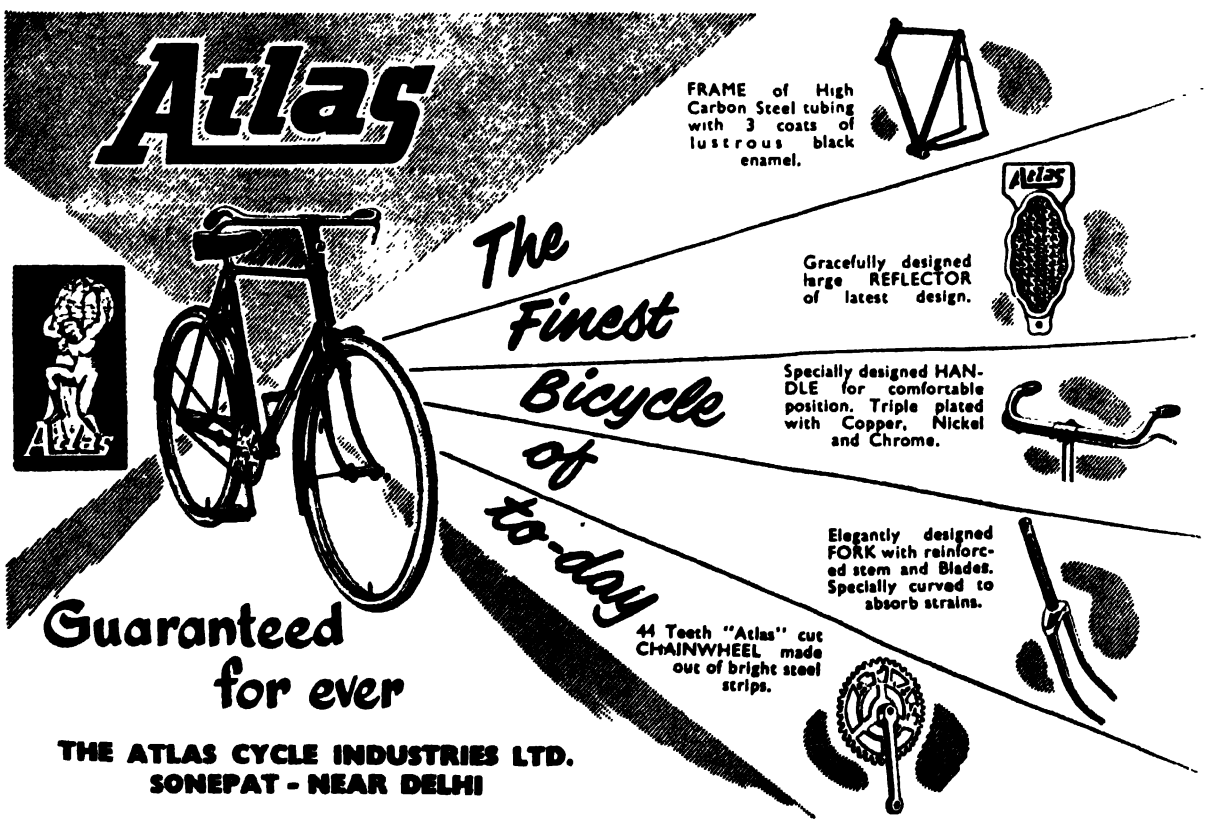
HIGH CLASS SELECTIONS

in

HANDICRAFTS—ART & CURIOS

CYCLES & CYCLE ACCESSORIES

Atlas Cycle Industries Ltd.—Connaught Circus, New Delhi
Bombay & Calcutta Cycle Co.—278, Esplanade Road, Delhi.
Hind Cycles Ltd.—Connaught Circus, New Delhi
Hitkari Brothers (of Delhi). 9, Faiz Bazar, Delhi 7
Malhotra & Co.—2 1668, Behind State Bank, Chandni Chowk Delhi 6.
Orient Industrial Corporation.—XV-10 59, Original Road, Motia Khan, Delhi.
Pearl Cycle Industries.—Peary Lal Mansions, Kashmere Gate Delhi
Reliance Cycle Works.—10 88-A, Motia Khan, Delhi
Republic Cycle Industries.—31, Nafzgarh Road, Delhi
Wearwill Cycle Co. (India) Ltd.—46-M, Connaught Circus New Delhi.



CYCLE MFRS., DEALERS AND IMPORTERS

Ahuja Cycle Mart.—Esplanade Road, Delhi.
Amarsing Pearelal.—Esplanade Road, Delhi.
Appal & Co.—Lady Hardinge Road, New Delhi.
Bestways & Co.—Outside Moti Cinema, Chandni Chowk, Delhi.
B. Dass & Co.—Fountain area, Chandni Chowk, Delhi.
Bansilal & Co.—Esplanade Road, Delhi.
Bombay & Calcutta Cycle Co.—278, Esplanade Road, Delhi.
C. L. Sachdev & Co.— Esplanade Road, Delhi.
Continental Cycle Importing Co.—Esplanade Road, Delhi.
Cycle & Gramophone Stores.—47, Esplanade Road, Delhi 6.
Ennaths Cycle Shop.—D-3, Connaught Place, New Delhi.
Ganesh Cycle Store.—Fountain Area, Chandni Chowk, Delhi.
Gupta Motor Cycle Works.—Hamilton Road, Delhi.
Hemchand & Sons.—Jama Masjid Area, Delhi.
Hitkari Brothers (of Delhi). -9, Faiz Bazar, Delhi 7.
Imperial Cycle Mart.—Esplanade Road, Delhi.
Imperial Cycle & Motor Co.—Fountain Area, Chandni Chowk, Delhi.
Indo Commercial Corporation.—Esplanade Road, Delhi.
Jitindra Auto Engineers.—Faiz Bazar, Daryaganj, Delhi.
Jiwanlal & Co.—Dariba Kurd, Chandni Chowk, Pharutawali Gali, Delhi.
Kailash Stores.—Punchquin Road, Bhagirath Malls Building, New Delhi.
Kanshal Cycle Trading Co.—Esplanade Road, Delhi.
Kapur Brothers.—Back of Moti Talkies, Chandni Chowk, Delhi.
Khanna Cycle Co.—Multani Dhanda, Paharganj, New Delhi.
Kholi Brothers.—Esplanade Road, Delhi.
Khyber Cycle Mart.—Esplanade Road, Delhi.
Kumar Brothers & Co.—Esplanade Road, Delhi.
Mehta Cycle and Motor Works.—Esplanade Road, Delhi
M. R. Malhotra & Co. of Jhelum.—Fountain Area, Chandni Chowk, Delhi.
Munial Brothers.—Esplanade Road, Delhi.
Narayan Behari & Co.—606, Nanghara, Kinari Bazar, Delhi 6.
National Cycle Co.—Subzi Mandi, Delhi.
National Cycle Mart.—Esplanade Road, Delhi.
National Cycle Works.—Esplanade Road, Delhi.
New Delhi Cycle Mart.—Connaught Place, New Delhi.
N. Kishore & Co.—Esplanade Road, Delhi 6.
Pindi Cycle Agency.—Esplanade Road, Delhi.
RAM SWARUP GUPTA.—278, Esplanade Road, Delhi. Dealers in Cycles, Cycle Parts, Motor Parts, General Importers and Hardware Merchants.
Rama Cycle Stores.—Ram Dawara Road, Paharganj, New Delhi.
Sat Brothers.—Lady Hardinge Road, New Delhi.
Sethi & Co.—Queen's Road, Nahar Sadat Khan, Delhi.
Sharma Motor Cycle Co.—Hamilton Road, Delhi
T. C. Khosla & Co.—Esplanade Road, Delhi.
The Krishna Cycle House.—Esplanade Road, Delhi.
The Punjab Cycle Parts Co.—Esplanade Road, Delhi
The Royal Cycle Co.—Esplanade Road, Delhi.
Veer Cycle Co.—Esplanade Road, Delhi.

CYCLES, MOTOR AND MOTOR CYCLES

Bombay & Calcutta Cycle Co.—278, Esplanade Road, Delhi.
Delhi Motor & Cycle Co.—48, Queensway, New Delhi.
Eastern Trading Co.—Madrasa Road, Kashmere Gate, Delhi.
Indo Commercial Corporation.—211, Esplanade Road, Delhi.
Ram Eashwar & Co.—11, Esplanade Road, Delhi.

DAIRIES

Butterways Dairy Farm.—Kashmere Gate, Delhi.
Cow-field Dairy.—648, G. B. Road, Delhi.
Dairy Farm Pinjrapol.—Delhi Kishenganj, Delhi.
Dayal Bagh Dairy Ltd.—Connaught Circus, opp. Scindia House. New Delhi.
Excelsior Dairy Co.—Old Gurgaon Road, Delhi.
Health Dairy.—"B" Block, Connaught Place, New Delhi.
New Royal Dairy.—58, Daryaganj, Delhi.
Raj Dairy.—Nai Basti, Inside Phatak Habash Khan, Delhi.
Simla Dairy Ltd.—"B" Block, Connaught Place, New Delhi.
United Dairies Ltd.—Connaught Circus, New Delhi.

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DRESS MAKERS

B. Lilaram & Sons (Delhi).—14-15-F, Connaught Place, New Delhi.
Burn & Co. - Subzi Mandi, Delhi
Dhera Ram & Brothers - Panchquin Road, Regal Building, New Delhi.
Glamour.—20-F, Connaught Place, New Delhi
H. S. Bhagat.—Panchquin Road, Regal Building, New Delhi.
Roy Brothers (Cheapjohn) Ltd.-Drapers & Tailors, Queensway, New Delhi.

DRY CLEANERS & DYERS

NOVEX.—Dry Cleaners, Dyers and Carpet Cleaners, 12C, Connaught Place, New Delhi 1. Dry Cleaning same day service. Branches: Throughout the City. Phone: 48468. Works Phone: 25907.

DYES, IMPORTERS, DEALERS, ETC.

Hiralal Devidas & Co.—Khari Baoli, Katra Tambaco, Delhi.
Jai Hind Dye Cutting Works.—Maliwara, Back of Moti Bazar, Chandni Chowk Area, Delhi.
Kaloomal Shorimal Sachdev.—Khari Baoli, Katra Tambaco, Delhi.

DYEING, PRINTING AND BLEACHING

Motiram Sarendar Kumar.—Bhangi Katra, Chandni Chowk, Delhi.
The New Calico Dyers & Cleaners. Bhagirath Palace, Chandni Chowk, Delhi.

ELECTRIC FURNACES

ASSOCIATED ELECTRICAL INDUSTRIES (INDIA) PRIVATE LTD. -United India Life Bldg., Connaught Place, New Delhi, (See Commercial firms in New Delhi).

ELECTRIC LAMPS

ASSOCIATED ELECTRICAL INDUSTRIES (INDIA) PRIVATE LTD.—United India Life Bldg., Connaught Place, New Delhi, (See Commercial firms in New Delhi).

ELECTRIC MOTORS, GENERATORS & SETS

ASSOCIATED ELECTRICAL INDUSTRIES (INDIA) PRIVATE LTD.—United India Life Bldg., Connaught Place, New Delhi. (See Commercial firms in New Delhi.)

ELECTRICAL ENGINEERS & CONTRACTORS

Acme Electric Co.—23, Prem House, Connaught Place, New Delhi.
Balmer Lawrie & Co. Ltd.—D.A.G. Extension, New Delhi.
Bhalla Electric Co.—Palvarganj, New Delhi.
Brady, W. H. & Co., Ltd.—Indra Palace, Connaught Circus, New Delhi.
British Insulated Callendar's Cables Ltd.—Connaught Circus, New Delhi.
Central Electric Stores —218, Davilba Kalaw, Delhi 6.
Central India Electric Works—Jawalvar Nagar, Delhi 6.
Chicago Telephone & Radio Co Ltd —Janpath, New Delhi.
Common Electric Co.—Bhagirath Palace, Delhi.
Commercial Electric Works —Chandni Chowk, Delhi.
F. & C. Osler (India) Ltd.—Scindia House, Queensway, New Delhi.
Joti Sarup Goela & Son.—15-L, Connaught Circus, New Delhi.
MATCHWEL ELECTRICALS (INDIA) LTD.—Ramjas Building, 4/11, Asaf Ali Road, P.O. Box No. 156, New Delhi ; Manufacturers of all types of A.C. and D.C. famous low Consumption M.E.I. Kassels Electric fans.
Oriental Radio & Electric Store.—17-C, Connaught Place, Post Box No. 103, New Delhi.
Paul Radio & Electric Corporation.—132, Sadar Bazar, Delhi 6.
Raghu Engineering Works Ltd.—5, Daryaganj, Delhi.

ELECTRICAL GOODS & APPLIANCES

ALLIANZ ELECTRIC & RADIO CO.—Chandni Chowk, Delhi 6. Specialists in Insulating Materials, Conduit Pipes and Accessories, Armature Wires, Rekofa German Carbons, Plates and Brushes, Bakelite and Fabric Sheets.
Azad Electric Co.—Fountain, Chandni Chowk, Delhi.
ASSOCIATED ELECTRICAL INDUSTRIES (INDIA) PRIVATE LTD.—United India Life Bldg., Connaught Place, New Delhi. (See Commercial firms in New Delhi).
Bansal Electric Stores.—Dariba Kalan Bazar, Delhi.
B. Datta & Sons.—Paharganj, Delhi.
BHAGWAN SINGH & SONS.—20-C, Connaught Place, New Delhi.
Bhalla Electric Co.—Paharganj, Delhi.
Bharat Electric Co.—Connaught Place, New Delhi.
Bharat Electric & General Stores.—Subzi Mandi Tram Terminus, Delhi.
Bindra Electric & Trading Corporation.—579, Dariba Kalan, Delhi.
British Insulated Callender's Cables Ltd.—Connaught Circus, New Delhi.
Calcutta Electric Co.—Dariba Kalan Bazar, Delhi.
Champion Electric & Engineering Works.—Chandni Chowk, near Fort, Delhi.
Commer Electric Co., The.—Shri Mahalakshmi Market, near Reserve Bank of India, Chandni Chowk, Delhi.
Commercial Electric Co.—Chandni Chowk, near Gurdwara, Delhi.
C. R. E. Wood & Co., Ltd.—Faiz Bazar, Daryaganj, Delhi.
Delhi Wires Ltd.—24, Daryaganj, Delhi.
Eastern Electric & Trading Co.—23-E, Connaught Circus, New Delhi.
Electric Trading Co.—Chandni Chowk, near Gurdwara, Delhi.
Electronics Ltd.—Connaught Place, New Delhi.
Empire Industries.—Malkaganj, Delhi.
English Electric Co., Ltd —Chaudhary Bldg , "K" Block, Connaught Circus, New Delhi.
Escorts (Agents) Ltd.—Pratap Buildings, Connaught Circus, Post Box No 187, New Delhi
Expert Electric & Radio Co.—Chandni Chowk, near Gurdwara, Delhi.
General Electric Trading Co.—Chandni Chowk, near Gurdwara, Delhi.
General Electronic Corporation.—Connaught Place, Post Box No. 316, New Delhi.
Imperial Electric Mart.—Sadar Bazar, Delhi.
Imperial Electric & Radio Mart.—Chandni Chowk, near Gurdwara, Delhi.
Jagota Electric Trading Co.—13, Maha Laxmi Market, Chandni Chowk, Delhi.
Jankidas & Co.—23/F, Connaught Place, New Delhi.
Jyoti Swarup Goela & Sons.—New Delhi.
Kapurja Ltd.—72, G B. Road, Delhi.
Khyber Electric Stores.—Connaught Circus, New Delhi.
Lakshmi Electric Co.—Chandni Chowk, near Fountain, Delhi.
Mahavir Electric Co.—Chandni Chowk, near Gurdwara, Delhi.
Manchanda Electric Co.—Bazar Dariba Kalan, Delhi.
Matchwel Electricals (India), Ltd.—Subzi Mandi Tram Terminus, Delhi.
Modern Radio & Electric Stores.—Chandni Chowk, near Gurdwara, Delhi.
Narain Electric Stores.—Chandni Chowk, near Gurdwara, Delhi.
Nath & Co.—Connaught Place, New Delhi.
National Conduits Ltd.—Kashmere Gate, Delhi.
Netar Krishena Sehgals Ltd.—4/90, Connaught Circus, New Delhi.
N. Kishore & Co.—Esplanade Road, Delhi 6.
Oriental Electric Company.—Behind State Bank of India, Chandn Chowk, Delhi 6.
Paragon Electric Co.—Bengal Central Bank Building, Connaught Circus, New Delhi.
Parkash Electric Stores.—Chandni Chowk, Delhi.
Paul Radio & Electric Corporation.—132, Sadar Bazar, Delhi 6.
Philips Electrical Co. (India) Ltd.—Lakshmi Insurance Buildings, Delhi.
Premier Electric Co., Ltd.—Chandni Chowk, near Gurdwara, Delhi.
Radio Supply & General Electric Co.—Kashmere Gate, Delhi.
Raghbar Dayal & Co.—Fatehpuri, Delhi.
Raghu Engineering Works, Ltd.—5, Daryaganj, Delhi.
R. C. Durant & Co.—Connaught Circus, New Delhi.
Roshan Electric Co.—Bazar Dariba Kalan, Delhi.
Russa Electric Works.—Chandni Chowk, Delhi 6.
Sagar Electric Trading Co.—Bazar Dariba Kalan, Delhi.
S. B. Electric Company.—Bisamral Colony, Behind State Bank of India, Chandni Chowk, Delhi 6.
S. Bhalla Electric Stores.—Mori Gate, Delhi.
Sehgal Electric Trading Co.—Dariba Kalan, Delhi.
Shree Nursingh Sahay Mudun Gopal Electric Co., Ltd. —Chandni Chowk (Film Colony), Delhi.
S. P. Kishore & Co.—Chandni Chowk, near Gurdwara, Delhi.
Superior Electric Co.—Delhi, 17, Faiz Bazar, Daryaganj, Delhi
Trilok Chand & Co.—8-G, Connaught Circus, New Delhi.
Uday Electrical Equipment Co.—"K" Block, Connaught Circus New Delhi.
United Electric Co.—Chandni Chowk, near Gurdwara, Delhi
United Electric & Radio Co.—Chandni Chowk, Delhi.
West End Traders.—574, Dariba Kalan Bazar, Delhi.

ELECTRICAL INSTRUMENTS & METERS

ASSOCIATED ELECTRICAL INDUSTRIES (INDIA) PRIVATE LTD.—United India Life Bldg., Connaught Place, New Delhi. (See Commercial firms in New Delhi.)

ELECTRODES

ASSOCIATED ELECTRICAL INDUSTRIES (INDIA) PRIVATE LTD.—United India Life Bldg., Connaught Place, New Delhi (See Commercial firms in New Delhi.)

ELECTROPLATERS, ELECTROTYPERS AND GILDERS

India Electroplating Works.—Jama Masjid Area, Delhi.
Moradabad Art Emporium.—771, Chandni Chowk, Delhi
Yadav & Co.—Ajmere Gate, Delhi.

EMBROIDERY MANUFACTURERS & MERCHANTS

Amritsar Fancy Embroidery.—Mallwara, Back of Moti Bazar, Chandni Chowk Area, Delhi.
Deepak India.—11-A, Connaught Place, New Delhi.
Hindustan Embroidery.—Ashrafi Katra, Chandni Chowk, Delhi
Prakash Embroidery Works.—Pahargunj, Main Bazar, New Delhi
Prem Brothers (Regd.).—414, Sadar Bazar, Delhi 6.
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The Art Museum.—1726, Burn Bastion Road, Delhi 6.

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Shivchandrai Rampartap.—Lahori Gate, G. B. Road, Delhi.
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Lakshmi Electric Co.—Esplanade Road, Delhi.
The Lakshmi Engineering Works.—Haus Qazi, Delhi 6.
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Motiram & Sons.—65/1, G. B. Road, Delhi.
National Engineering Co.—Naya Bazar, Delhi.
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Sharma Sharma & Sons.—Naya Bazar, Delhi.
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Chandulal Surajmal.—Naya Bazar, G. B. Road, Delhi.
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Shantilal Kashmerilal.—Naya Bazar, Delhi.
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Bharat Glass Co.—Sardar Bazar, Delhi 6
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Shadiram Chanderbhan.—Naya Bazar, G. B. Road, Delhi
Shiblal Prabhu Dayal.—Naya Bazar, G. B. Road, Delhi.
Sundoomal Ram Swarup.—Naya Bazar, Delhi.
Udmichand Jagannath.—Naya Bazar, Delhi.
Ugarsen Ramnarain.—Naya Bazar, G. B Road, Delhi.

GRAMOPHONE DEALERS

Bakhshi Gramophone Co.—Fountain Area, Chandni Chowk, Delhi.
Calcutta Gramophone Agency.—1423 Chandni Chowk, Delhi 6.
Cycle & Gramophone Stores (Estd. 1933)—47, Esplanade Road, Delhi 6.
Delhi Gramophone Co.—Chandni Chowk, Delhi
Gramophone Co. Ltd.—1, Maharaja Lal Lane, Civil Lines, Delhi 8
Imperial Gramophone Dealers.—Chandni Chowk, Delhi.
K. R. Charan & Co.—Chandni Chowk, Delhi.
Maharaja Lal & Sons.—Chandni Chowk, Delhi 6
Parkash Music House.—Fountain Area, Chandni Chowk, Delhi.

HARDWARE MERCHANTS AND IRONMONGERS

Arjan Dass Gupta & Bros.—25, Fatehpur, Delhi.
Associated Textile Engineers.—Chawri Bazar, Delhi.
Badami Bagh Agency.—Naya Bazar, Delhi
Batto & Nandwani.—M. J. Building, Chandni Chowk, Delhi.
Bhanamal Gulzarimal, Ltd.—Chawri Bazar, Delhi. Phone: 26432. Grams: "BHANAMAL".
Bharat Machine Tools & Hardware Co.—Naya Bazar, Delhi.
Chhuttan Lall Mattumal.—Chawri Bazar, Delhi 6.
Devindra & Co.—Katra Raji, G. B. Road, Delhi.
Dherumal Kapur & Sons.—Lahori Gate, G. B. Road, Delhi.

Phone: 26991. Grams: "IRONDEAL."
FAKIR CHAND MOHANLAL
(Estd. 1840)
Chawri Bazar, Delhi 6.
STOCKISTS: Files Nicholson, Hinges, Rivets, Bolts, Screws, Saws and all kinds of Fancy Building Fittings.
AUTHORISED DEALERS: Tata Iron and Steel Co., Ltd. Government Licencees for Weights, Scales and Measures.

General Engineering Co.—Katra Raji, G. B Road, Delhi
Guran Das & Co.—Lahori Gate, G. B. Road, Delhi.
Hazuramall Kundan Lall.—Lahori Gate, G. B. Road, Delhi.
Jagannath & Co.—Naya Bazar, G. B. Road, Delhi.
Jai Hind Machinery Store.—Naya Bazar, Delhi
Jay Dee Brothers.—Lahori Gate, G. B. Road, Delhi.
Jhalani Brothers.—Gali Lohe Wali, Chawri Bazar, Delhi.
Krishna Water Supply Co.—Lahori Gate, G. B. Road, Delhi.
Lachmandass Ramchand.—Chawri Bazar, Delhi.
Mahabir Pershad & Sons.—Chawri Bazar, Delhi 6.
Manilal & Brothers.—Chawri Bazar, Delhi 6.
Mills Store Co.—Naya Bazar, Delhi.
Nanda & Sons, S. D.—Lahori Gate, G. B. Road, Delhi.
Punjab Steel Works.—Naya Bazar, G. B. Road, Delhi.
Ramsingh Kundanlal.—5666, Gandhi Market, Sadar Bazar, Delhi 6.
Raunaq & Co.—Lahori Gate, G. B. Road, Delhi.
Seth & Co., A. N.—Katra Raji, G. B. Road, Delhi.
United Steel Industries.—Naya Bazar, G. B. Road, Delhi.
Uttamchand Bansilal.—Katra Raji, G. B. Road, Delhi.

HOSIERY MERCHANTS

Aggarwal Hosiery Mills.—Khajur Road, Karol Bagh, Delhi.
Bharat Agencies.—Sadar Bazar, Delhi.
Bharat Hosiery Works.—Kutab Road, Delhi.
Bharat Trading Co.—Sadar Bazar, Delhi.
Bhola Ram Rikhab Das Jain.—Sadar Bazar, Delhi.
Chunilal Bhatia & Co.—Sadar Bazar, Delhi. Phone : 23493.
Din Bhandhu Hosiery Mills Ltd.—Khajur Road, Karol Bagh, Delhi.
Frontier Hosiery Stores.—5742-43, Gandhi Market, Sadar Bazar, Delhi 6.
Govind Ram Shri Kant.—Sadar Bazar, Delhi.
Haryana Hosiery.—Model Basti, Bara Hindu Road, Delhi.
Hindustan Hosiery & General Mills.—Mamman Jamadar Street, Pahari Dhiraj, New Delhi.
Jado Rai Madho Rai.—Chandni Chowk, Delhi.
Jankidas & Co.—23/F, Connaught Place, New Delhi.
Kapurchand & Brothers.—5805, Sadar Bazar, Delhi.
KAPURSON, Wool, Hosiery & General Merchandise, Opp. Chartered Bank, Chandni Chowk, Delhi.
Kishori Lal Kesho Ram.—Sadar Bazar, Delhi.
Krishna Traders.—Serai Allawali, Sadar Bazar, Delhi.
Lakshmi Knitting Co.—Original Road (Karol Bagh), Delhi.
M. D. Bhageria.—Sadar Bazar, Delhi.
New Agency.—Pan Mandi. Sadar Bazar, Delhi 6.
Ram Hosiery.—Jawahar Nagar, Subzimandi, Delhi.
Roy Brothers (Cheapjohn) Ltd.—Queensway, New Delhi.
Style.—13/E, Connaught Place, New Delhi.
Suresh Hosiery Mills.—20, Daryaganj, Delhi 7.
Tilak Hosiery Store.—B-Block, Connaught Place, New Delhi.
Western Hosiery & General Mills Ltd.—142, Teliwara Road, Delhi.

HOSPITAL EQUIPMENTS AND SUPPLIES

ASSOCIATED ELECTRICAL INDUSTRIES (INDIA) PRIVATE LTD.—United India Life Bldg., Connaught Place, New Delhi. (See Commercial firms in New Delhi.)
FOURRHAI (PRIVATE) LTD.—14, Faiz Bazar (Daryaganj), Delhi 7. Manufacturers, Importers & Exporters, Surgical Instruments and Hospital Furniture; Managing Director : J. N. Maira; Grams : "FOURRHAI." Phone : 24416.
Godrej. Godrej & Boyce Mfg. Co., Private Ltd.—20, Ajmeri Gate Extension, New Delhi.
Mittra Pharmacy.—Wholesale Chemists and Druggists, Ballimaran, Chandni Chowk, Delhi 6.

HOTELS

Agra Hotel.—16, Daryagunj, Delhi 7.
Apollo Hotel & Billiards.—Nicholson Road, Kashmere Gate, Delhi.
Associated Hotels of India Limited.—Simla : Cecil & Clarke's; Delhi.
Cecil Hotel.—Ludlow Castle Road and Club Road, Delhi.
Coronation Hotel.—Fatehpuri, Delhi.
Crown Hotel.—Katra Baryan, Fatehpuri, Delhi.
Grand Hotel.—Underhill Road, opp. Exchange Store, Alipore Road, Delhi.
HOTEL CHITRA.—Katra Baryan, Fatehpuri, Delhi.
IMPERIAL HOTEL.—Church Mission Road, Fatehpuri, Delhi. Phone : 20394. (Prop. : New Standard Hotel Karachi-wala.)
Lakshmi Hotel.—Chandni Chowk, Delhi.
Madras Boarding House.—Connaught Circus, New Delhi.
Maidens Hotel.—Alipore Road, Delhi.
MAHARAJA HOTEL.—Nahar Saadat Khan, Queen's Road, Delhi; Boarding & Lodging House; Estd. : 1911; Grams : OLDEST". Phone : 25294.
Marina Hotel.—Connaught Circus, New Delhi.
Minerva Hotel.—Queen's Road, Delhi.
New India Hotel & Restaurant—Katra Baryan, Fatehpuri, Delhi.
New Empress Hotel.—Fatehpuri, Delhi.
OBEROI IMPERIAL.—New Delhi.
OBEROI MAIDENS.—Delhi.
OBEROI SWISS.—Delhi.
Park-View Hotel.—Fatehpuri, Delhi.
Pink Hotel.—Queen's Gardens, opp. Rly. Station, Delhi.
Prince Hotel.—Queen's Road, New Delhi.
Punjab Hotel—Fatehpuri, Delhi.
Regal Hotel.—Queen's Road, Delhi.
River Hotel.—Faiz Bazar, Daryaganj, Delhi.
Royal Hotel.—Queen's Road, New Delhi.
Sher-i-Punjab Hotel & Restaurant.—Bazar Pahargunj, New Delhi
South India Boarding House.—Connaught Circus, New Delhi.
Standard Hotel & Restaurant.—Faiz Bazar, Daryaganj, Delhi.
Swiss Hotel.—Alipore Road, Delhi.

ICE AND ICE-CREAM MACHINES

Himalaya Manufacturing & Sales Co.—Park Mansions, Daryaganj, Delhi.
National Refrigeration Works.—2, Faiz Bazar, Daryaganj, Delhi

Grams : "AGRAHOTEL". Estd. 1934 Phone : 24606

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16, DARYAGUNJ, DELHI 7

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RAIL AND AIR BOOKING ★ CONVEYANCE AVAILABLE AT ALL TIMES ★ AIR CONDITIONED ROOMS ★ ENGLISH, INDIAN AND VEGETARIAN CUISINE

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AGRA HOTEL : .. .. .. 165, Metcalfe Road, Agra. Phone: 330.
AGRA HOTEL : .. .. .. Bengaleeghat, Mathura.
HOTEL HINDUSTAN : .. .. Gopinath Bazar, Vrindaban.

IMPORTERS, EXPORTERS AND STOCKISTS

Arjan Dass Gupta & Bros.—25, Fatehpur, Delhi.
Arora Brothers.—Kucha Mahajani, Chandni Chowk, Delhi.
Asanand & Co.—Ph. Habas Khan, Khari Badli, Delhi.
Bansidhar Prem Narain Jain.—Nayakatra, Chandni Chowk, Delhi.
Bestways & Co.—Outside Moti Cinema, Chandni Chowk, Delhi.
Bhola Ram Rikhab Dass Jain.—Sadar Bazar, Delhi 6.
Bulakhidas Ramchander.—2104/1, Katra Tobacco, Delhi 6.
Chinnu Bhai Vadilal & Co.—Cloth Market, Delhi.
Chunilal Bhatia & Co.—Sadar Bazar, Delhi. Phone : 23493.
Coxwell & Company.—2, Faiz Bazar, Delhi.
Eastern Trading Co.—Madrasa Road, Kashmere Gate, Delhi.
Foster Bell & Company.—P.B. No. 406, New Delhi 1.
Fourbhai Ltd.—14, Faiz Bazar, (Daryaganj), Delhi 7.
Fakir Chand Mohanlal (Estd. 1840).—Chowri Bazar, Delhi.
Frontier Hosiery Stores.—5742/43, Gandhi Market, Sadar Bazar, Delhi 6.
G. T. Mehra & Co.—Chawri Bazar, Delhi.
Gulzarilal Suri & Co.—764, Katra Neel, Chandni Chowk, Delhi.
Gurprasad Kapoor & Bros.—534, Katra Neel, Chandni Chowk, Delhi.
Handicrafts.—10F, Connaught Place, New Delhi 1.
Hari Chand Jain & Sons.—20, Daryaganj, Delhi 7. Phone : 6878.
Himalaya Manufacturing & Sales Co.—Park Mansions, Daryaganj, Delhi.
Hind Overseas Trading Co.—Amar Bhawan, Behind State Bank, Delhi.
Hirdaynath Bhargava & Co.—Ganesh Bazar, Cloth Market, Delhi.
Indo Commercial Corporation.—211, Esplanade Road, Delhi.
J. Kishore & Co.—Chandni Chowk, Delhi.
Jagmohandas Mashruwala, 91, Mahabir Bazar, Cloth Market, Delhi.
Jainy Bros., & Co.—Gali Leshwa, Chandni Chowk, Delhi.
Jainiprasad & Co.—Roshanpura, Nai Sarak, Delhi.
Jamuna Trades Corporation.—Chandni Chowk, Delhi.
Jhalani Bros.—Gali Lohewali, Chawri Bazar, Delhi.
Kalicharan & Co.—Chatta Pratapsingh, Kinari Bazar, Delhi.
Kapurchand & Brothers.—5805, Sadar Bazar, Delhi.
Kantilal & Co.—Ganesh Bazar, Cloth Market, Delhi.
Khanna & Sons.—Kucha Ghasvam, Chandni Chowk, Delhi.
Kidarnath Kishinchand.—Ashrafi Katra, Chandni Chowk, Delhi.
Kishorilal & Sons.—Chawri Bazar, Delhi 6.
Kunjlal Sital Pershad Oswal.—Sadar Bazar, Delhi. H.O. Amritsar.
L. N. Gadodia & Son Ltd.—Kucha Natwan, Chandi Chowk, Delhi.
Lachhman Dass Ramchand.—Chawri Bazar, Delhi.
Mera Chemicals.—Lahori Gate, G. B. Road, Delhi.
Modern Scientific Instrument Co.—Chawri Bazar, Delhi.
Mongia Bros.—Opp. Kumar Talkies, Chandni Chowk, Delhi. Phone: 25564.
Motandas & Co., T.—4E, Thana Sadar Road, Delhi 6.
Munshi Ram Manohar Lal.—Post Box 1165, Nai Sarak, Delhi 6.
National Refrigeration Works.—2, Faiz Bazar Road, Delhi.
N. Kishore & Co.—Esplanade Road, Delhi 6.
Norfolk Syndicate (India) Limited.—Opposite Scindia House, Connaught Circus, New Delhi.
Northland (India) Limited.—Opposite Scindia House, Connaught Circus, New Delhi.
Oriental Electric Company.—Behind State Bank of India, Chandni Chowk, Delhi 6.
Oriental Radio & Electric Store.—17-C, Connaught Place, Post Box No. 103, New Delhi.
Oriental Stores.—Hamilton Road, Delhi.
Packar Wates & Co.—Chandni Chowk, Delhi.
Pandit Bros.—10F, Connaught Place, New Delhi.
Paul Radio & Electric Corporation.—132, Sadar Bazar, Delhi 6.
Pohoomal Bros. (India).—Chandni Chowk, Delhi.
Prem Brothers (Regd.).—414, Sadar Bazar, Delhi 6.
Raj Gupta & Co.—Faiz Bazar, Daryaganj, Delhi.
Ram Eashwar & Co.—11, Esplanade Road, Delhi.
Ram Narain Gupta & Bros.—Naya Bazar, Delhi.
Ramkishin Sethi & Sons.—Chandni Chowk, Delhi.
Ramkishore Sharma & Co.—Chandni Chowk, Kucha Ghasi Ram, Delhi.
Ramsingh Kundanlal.—5666, Gandhi Market, Sadar Bazar, Delhi 6.
RANBAXY & COMPANY PRIVATE LTD.—Head Office : No. 16, Marina Arcade, P.O. Box No. 104, Connaught Circus, New Delhi ; Branches: Bombay—1st Floor, Queen's Mansion, Bastion Road, Fort; Calcutta—P/36, Royal Exchange Place Extension; Delhi—Bhagirath Palace, P.O. Box No. 1064; Kanpur—Shyam Sunder Bldg., The Mall; Madras—Ebrahim Bldgs., 3, Errabalu Chetty Street; Sole Agents for : LEPETIT. S.P.A. Milan, Italy ; (Managing Director—Bhai Mohan Singh); Cable Address : "LEPETIT" New Delhi, Bombay, Calcutta, Delhi, Kanpur & Madras.
Roy Brothers (Cheap John) Ltd.—Queensway, New Delhi.
B. Electric Company.—Bhaumal Colony, Behind State Bank of India, Chandni Chowk, Delhi 6.
Seth & Co.—Naya Bazar, G. B. Road, Delhi.
Seth Ramnarain Gupta & Bros.—Naya Bazar, Delhi.
S. K. Diwan & Co.—214, Irvin Road, P.B. No. 233, New Delhi 1.
Style.—13-E, Connaught Place, New Delhi.
Sohanlal Prem Narain Jain.—V/57, Chandni Chowk, opp. Central Bank, Delhi.
Sudam & Co.—Esplanade Road. Delhi
Suraj Bhan Agarwal.—Chawri Bazar, Delhi 6.
Tandon Bros.—16, Daryaganj, Delhi.
Tilak Chand Rajendra Kumar Jain.—5198, Sadar Bazar, Delhi 6.
T. J. Kishore & Co.—Cloth Market, Delhi.
Trevillion & Clark.—21-B, Connaught Place, New Delhi.
United Commercial Co.—Gali Qasimjan, Chandni Chowk, Delhi.
Victo.—Esplanade Road, Delhi.

IRON AND STEEL MERCHANTS

Bhagirathmal Govind Persad.—Chawri Bazar, Delhi.
Bhagwan Sahai & Co.—Chawri Bazar, Delhi.
Delhi Iron Syndicate.—20, Barakhamba Road, New Delhi
Fakir Chand Mohanlal (Estd. 1840).—Chawri Bazar, Delhi.
Gangabishan Aggarwal.—Chawri Bazar, Delhi.
Godrej. **Godrej & Boyce Mfg. Co., Ltd.**—168, Chandni Chowk, Delhi.
Iron Traders Ltd.—Lal Kua, Delhi.
Jagannath & Co.—Naya Bazar, G. B. Road, Delhi.
Jwalanath Bhagwandas.—Chawri Bazar, Delhi.
Khandelwal Bros. Ltd.—Chawri Bazar, Delhi.
Lachmandas Jaidayal.—Chawri Bazar, Delhi.
Lachmandas Ramchand.—Chawri Bazar, Delhi.
Manilal & Co.—Chawri Bazar, Delhi.
Munalal Ramdayal.—Chawri Bazar, Delhi.
Munshilal Omperkash.—Chawri Bazar, Delhi.
Parkash Iron & Steel Co.—Hauz Kazi, Delhi.
Peayarelal Kanumal.—Chawri Bazar, Delhi.
Ramchand Bengalimal.—Chawri Bazar, Delhi.
Rattanlal Rajkishan.—Chawri Bazar, Delhi.
Tata Industries Ltd.—Connaught Circus.

JARIWALA (SAREE BORDERS)

Bhukhandas Nathubai Suratwala.—Kinari Bazar, Delhi.
Central Cottage Industries Emporium on Janpath, New Delhi.
Chaganlal Jaikashindas.—Kinari Bazar, Delhi.
Chhaganlal Motiram Suratwala.—Kinari Bazar, Delhi.
Dayabhai Ranchhodbhai Patel.—Kinari Bazar, Delhi.
Hasmukhlal Jaikishindas.—Kinari Bazar, Delhi.
Hind Stores.—771, Chandni Chowk, Delhi.
Jagjivandas Keshavram.—Kinari Bazar, Delhi.
Manherlal Mohanlal.—Kinari Bazar, Delhi.
Motiram Narsinghdas.—Kinari Bazar, Delhi.
Om Parkash Agarwal.—Kinari Bazar, Delhi
Om Sewaram Chhotelal.—Kinari Bazar, Delhi.
Prabhudas Bhaichand & Co.—Kinari Bazar, Delhi.
Punjab Jari House.—Kinari Bazar, Delhi.
Ramanlal Chunilal.—Kinari Bazar, Delhi.
Ramanlal Gulabdas.—Kinari Bazar, Delhi.
Ramesh Chandar Ganesh Kumar.—Kinari Bazar, Delhi.
Sha Vasantlal Panachand.—Kinari Bazar, Delhi.

JEWELLERS

Babu Jewellery House.—Bazar Dariba Kalan, Delhi.
Babu Mull & Co.—Kashmere Gate, Delhi.
Baboshar Nath & Sons.—Bazar Dariba, Delhi.
Bhagwan Das & Sons.—Bazar Dariba, Delhi.
Bharata-Ji-Di-Hatti.—Chandni Chowk, Delhi.
Bishandas Barkatram & Co.—Connaught Circus, New Delhi
Cook & Kelvy.—Scindia House, Connaught Circus, New Delhi.
Deepak India Jewellers and Art Dealers.—11-A, Connaught Place, (Near Post Office), New Delhi.
Dina Nath.—Connaught Place, New Delhi.
Giridharlal Bros.—Diamond Merchants, opp. Scindia House, New Delhi 1.
Gopal Das Nawal Rai.—Shanker Terrace, Fountain, Delhi.
Hamilton & Co. Ltd.—Connaught Place, New Delhi.
Hari Chand & Sons.—Dariba Kalan, Delhi.
Indian Art Palace (Regd.).—3, Kashmere Gate, Delhi.
Ivory Palace.—Connaught Place, New Delhi.
Jagadhar Mal Dhannu Mal Jain.—Dariba Kalan, Delhi.
Jagat Kishore.—Chandni Chowk, Delhi.
Jagat Narain & Sons.—Chandni Chowk, Delhi and 64, Queensway, New Delhi.
JAGINDER NATH WASAN, Bullion Merchant, 288, Dariba Kalan, Delhi 6.
Jugal Kishore & Sons.—Chandni Chowk, Delhi.
Kali Charan & Sons.—Chandni Chowk, Delhi.
Kamala Jewellery House.—Subzimandi, Delhi.
Kanjimull & Sons.—Scindia House, Queensway, New Delhi.
Khanna & Co.—Chandni Chowk, Delhi.
Kharaiti Lal & Sons.—80, Queensway, New Delhi.
Kotal Arts.—Connaught Place, New Delhi.
Krishena & Sons.—Connaught Place, New Delhi.
LPQR (Indian Jewellery Trading Co.).—Chandni Chowk, Delhi.

Maha Laxmi Jewellery House.—Chandni Chowk (Fatehpuri), Delhi.
Mahboob Singh Jain.—Dariba Kalan, Delhi.
Mahboob Singh Ranjit Singh.—Dariba Kalan, Delhi.
Mahrae-Di-Hatti.—Dariba Kalan, Delhi.
Mal Nem Chand Jain.—1788, Dariba Kalan, Delhi.
Mani Lal Sham Sundur.—Dariba Kalan, Delhi.
Manick Chand.—Chandni Chowk, Delhi.
Manohar Lal & Sons.—Near Odean, Connaught Circus, New Delhi.
Manoharlal & Son.—Connaught Circus, New Delhi.
Miri Mal Nem Chand Jainl.—Dariba Kalan, Delhi.
Mukha Mal Gokal Chand.—Chandni Chowk, Delhi.
Nanak Chand Radha Kishen.—Dariba Kalan, Delhi.
Panna Lal Roshan Lal.—Chandni Chowk, Delhi.
Pearey Lal Amar Nath.—Dariba Kalan, Delhi.
Pooran Mal Nannu Mal Jain.—Dariba Kalan, Delhi.
Raj Narain & Sons.—Dariba Kalan, Delhi.
Raja Jewellery House.—Dariba Kalan, Delhi.
Rawalpindi Jewellery House.—Chandni Chowk and Subzimandi, Delhi.
R. L. Jagdishwar Lal.—Dariba Kalan, Delhi.
Roshan-Di-Hatti.—Dariba Kalan, Delhi.
Sarasvati.—19-E, Connaught Place, New Delhi. Phone: 44967; Grams: "MANICK".

SHANTIVIJAY & CO.—Leading Jewellers in the East, 52, Queensway, New Delhi. Branches: Imperial & Ashoka Hotels, New Delhi.

Shibban Lal Raghbir Singh.—Dariba Kalan, Delhi.
Shiv Charan & Sons.—Dariba Kalan, Delhi.
Shri Ram Hari Ram.—Dariba Kalan, Delhi.
Sultan Singh Jain.—Dariba Kalan, Delhi.
The Art Museum.—1726, Burn Bastion Road, Delhi 6.
Uttam Singh Kala Singh, B.—Dariba Kalan, Delhi.
Vir-Jee-Di-Hatti.—Dariba Kalan, Delhi.

LACES, RIBBONS, TRIMMINGS AND EMBROIDERY MERCHANTS

Bhagwandas Labhuram & Co.—Chandni Chowk, Delhi.
Bharat Embroidery & Lace Mill.—Roshan Ara Road, Delhi
Delhi Embroidery Works.—Nai Sarak, Delhi 6
Delhi Lace Mills.—Beriwala Bagh, Pul Bungash, Delhi 6
Dinkaria & Sons.—B. B. Road, Delhi 6
Fancy silk and Smallware Weaving Mills, Ltd., Khyber Pass Market, Civil Lines, Delhi 6
Guptajee.—Connaught Place, New Delhi.
Imperial Lace Mills.—Nai Basti, Sadar Bazar, Delhi 6
Munshilal Ajit Parshad.—Chandni Chowk, Delhi.
National Embroidery Works.—1014, Library Road, Delhi 6
Raj Narain Lace Factory.—Dariba Kalan, Delhi 6
United Embroidery Works.—Bari Market, Sadar Bazar, Delhi

LADIES HAND BAGS

Art Museum, The.—1726, Burn Bastion Road, Delhi 6.
Guptajee.—Connaught Place, New Delhi.
Jankidas & Co.—23-F, Connaught Place, New Delhi.

LEATHER GOODS

Anand Trunk House.—Chandni Chowk, near Fatehpuri, Delhi
Central Cottage Industries Emporium on Janpath, New Delhi.
Desraj Bhagwandas.—opp. Chartered Bank, Chandni Chowk, Delhi.
Duffadar Dull Chand & Bros.—5, Regal Building, Parliament Street, New Delhi.
Hindu Trunk House.—Chandni Chowk, opp. Central Bank, Delhi
Imperial Leather Works.—Connaught Circus, New Delhi.
Jankidas & Co.—23-F, Connaught Place, New Delhi.
Kashmir Stores.—Connaught Place, New Delhi.
Leather & Artistic Craft Ltd.—Faiz Bazar, Daryaganj, Delhi.
Leatherite.—3F, Connaught Place, New Delhi.
Mew Cawnpore Saddlers House (Regd.).—Chandni Chowk, Delhi.
The Art Museum.—1726, Burn Bastion Road, Delhi 6.

LIGHTING FITTINGS

ASSOCIATED ELECTRICAL INDUSTRIES (INDIA) PRIVATE LTD.—United India Life Bldg., Connaught Place, New Delhi. (See Commercial firms in New Delhi).

LIME MERCHANTS

Bharat Stone Lime Co.—Naya Bazar, G. B. Road, Delhi.
Delhi Stone & Lime Syndicate.—Katra Raji, G. B. Road, Delhi.
Diwan Lime Co.—Naya Bazar, G. B. Road, Delhi.
Jagannath & Co.—Naya Bazar, G. B. Road, Delhi.
Lakshmi Stone Lime Co.—Katra Raji, G. B. Road, Delhi.
Mahabir Pershad & Sons.—Chawri Bazar, Delhi 6.
Multan Lime & Stone Co.—Naya Bazar, G. B. Road, Delhi.
National Cement & Lime Stores.—Katra Raji, G. B. Road, Delhi.
Punjab Lime & Stone Co.—Naya Bazar, G. B. Road, Delhi.

LOCK AND SAFE MERCHANTS

Godrej, Godrej & Boyce Mfg. Co., Private Ltd.—20, Ajmeri Gate Extension, New Delhi.
Latham Abercrombe & Co., Private Ltd.—D. A. G. Extension, New Delhi.
Marshal Sons & Co. (India) Ltd.—Marshal House, Connaught Circus, New Delhi.
New Rattan Safe Factory.—70, Gokhale Market, Delhi.
Western Engineering Co.—Library Road, Delhi 6.

LUBRICATION EQUIPMENT

DELHI GARAGE PRIVATE LTD.—Connaught Circus, New Delhi. All your requirements in Lubrication Equipment from the Smallest Grease Nipple to the Biggest Service Station.

MACHINERY MFRS., IMPORTERS AND DEALERS

Ambee Machinery Mart.—Naya Bazar, Delhi.
Arjan Singh Khemchand.—Lahori Gate, G. B. Road, Delhi.
Aster Engineering Co. (Regd.).—Naya Bazar, Delhi.
Balbir Bros., Ltd.—Importers and Merchants of Paper, Stationery, Printing Machinery and other allied Material, Jama Masjid Delhi
Batliboi & Co.—Lahori Gate, G. B. Road, Delhi.
Bery Engineering Co.—Naya Bazar, Delhi.
Bhagwandas & Sons.—Naya Bazar, Delhi.
Bharat Engineering Corp. (of Lahore).—Naya Bazar, G. B. Road, Delhi.
Bharat National Foundry and Workshop.—Motia Khan, New Delhi
Bombay Machinery Co.—Lahori Gate, G. B. Road, Delhi.
Delhi Garage Ltd.—Connaught Circus, New Delhi
Dewan Sohan Lal & Co.—Naya Bazar, G. B. Road, Delhi.
Dherumal Kapur & Sons.—Lahori Gate, G. B. Road, Delhi
Doyal & Co., H. M.—Lahori Gate, G. B. Road, Delhi.

"ESCORTS" (AGENTS) PRIVATE LTD.—Pratap Bldgs, Connaught Circus, Phone: 40146 (4 lines). Grams: "ESCORTS" Post Box No. 183, New Delhi.

Ganesons Machinery Corporation.—Naya Bazar, G. B. Road, Delhi
G. D. Siegell & Co.—Church Road, Kashmere Gate, Delhi
G. J. Bros. & Sons.—Lahori Gate, G. B. Road, Delhi.
G. L. Khanna & Sons.—65, G. B. Road, Delhi.
Guran Das & Co.—Lahori Gate, G. B. Road, Delhi.
Hans Raj & Co., J. R.—Naya Bazar, Delhi.
Harischandra & Co.—Naya Bazar, G. B. Road, Delhi
Harish Bros. (Regd.).—Naya Bazar, Delhi.
Hindustan Machinery Store.—Naya Bazar, G. B. Road, Delhi
Ice & Refrigeration Machinery Stores.—Lahori Gate, G. B. Road, Delhi.
Imperial Engineering Co.—Naya Bazar, Delhi.
Indo-Europa Trading Co.—Chandni Chowk, Delhi
J. Mahabir & Co., Ltd.—Jama Masjid, Delhi. Telephone 6154
Jai Bharat Trading Co.—Naya Bazar, Delhi.
Karam Singh Gian Singh Chhabra.—Naya Bazar, Delhi.
K. B. Sons.—Naya Bazar, G. B. Road, Delhi.
Lahore Machinery Corporation.—Katra Raji, G. B. Road, Delhi
Lakshmi Kal Bhandar.—Naya Bazar, G. B. Road, Delhi.
Machinery & Oil Store Co.—Naya Bazar, Delhi.
Manilal & Brothers.—Chawri Bazar, Delhi 6.
Mano Ramesh & Co.—Lahori Gate, G. B. Road, Delhi.

MARSHALL, SONS & CO., (INDIA) LTD., Marshall House, Hanuman Road, New Delhi; Grams: "ENGINE". Phone. 47088 & 48087.

Mill Store Co.—Naya Bazar, Delhi.
Modern Machinery Store Co.—Naya Bazar, Delhi.
National Engineering Co.—Naya Bazar, Delhi.
Parhawk Co.—11, Esplanade Road, Delhi.
Power Tools & Appliances Co.—Kashmere Gate, Delhi.
Punjab Machinery Mart.—Katra Raji, G. B. Road, Delhi.
Punjab Steel Works.—Naya Bazar, G. B. Road, Delhi.
Ram Narain Gupta & Bros.—Lahori Gate, G. B. Road, Delhi
Refrigerators (India) Ltd.—Scindia House, Connaught Circus, New Delhi.
Reliable Machinery Supply Co.—Katra Raji, G. B. Road, Delhi.
Seth & Co., A. N.—Katra Raji, G. B. Road, Delhi.
Seth & Sons, S. R.—Naya Bazar, G. B. Road, Delhi.
Sharma Engineering Co.—Naya Bazar, Delhi.
Talwar & Co.—Lahori Gate, G. B. Road, Delhi.
U. K. Industrial Corporation.—Katra Baryan, Fatehpuri, Delhi
United Steel Industries.—Naya Bazar, G. B. Road, Delhi.
Vijay Kumar & Co.—Lahori Gate, G. B. Road, Delhi.
Volkart Bros.—70, Queensway, New Delhi.
Worthington Simpson Ltd.—128, Baird Road, New Delhi.

MANUFACTURERS' REPRESENTATIVES

Coxwell & Company.—2, Faiz Bazar, Delhi.
D. S. Bawa & Co.—14, Barakhamba Road, New Delhi. Phone: [illegible]
Foster Bell & Company.—P.B. No. 406, New Delhi 1.
India's Import & Export Syndicate.—International Merchants, 784, Burn Bastion Road, Delhi.

Mittra Pharmacy.—Wholesale Chemists and Druggists, Ballimaran, Chandni Chowk, Delhi 6.

ORIENTAL ELECTRIC COMPANY.—Behind State Bank of India, Chandni Chowk, Delhi 6.

S.B. Electric Company.—Bissumal Colony, Behind State Bank of India, Chandni Chowk, Delhi 6.

Sikandarlal Shamlal & Co.—Katra Subhash, Chandni Chowk, Delhi.

S. K. Diwan & Co.—211, Irwin Road, P.B. No. 233, New Delhi 1.

T. S. Thadhani & Sons.—Fountain Area, Chandni Chowk, Delhi.

MARBLE & TILES MANUFACTURERS & DEALERS

SURESH BROTHERS.—64, G.B. Road, Delhi 6. Phone : Office : 26127. Residence : 27613.

MILL AND GIN STORE SUPPLIERS

Associated Textile Engineers.—Chawri Bazar, Delhi. Phone : 23291.

Chhuttan Lall Mattu Mal - Chawri Bazar, Delhi 6

Delhi Machinery Stores, The.—Chawri Bazar, Delhi.

Delhi Mill Stores.—Chawri Bazar, Delhi.

Devkinandan Krishan Kumar.—Lahori Gate, G. B. Road, Delhi.

Jhalani Brothers. Gali Lohe Wali, Chawri Bazar, Delhi.

J. M. Bodiwala & Sons.—Chawri Bazar, Delhi.

Khanna & Sons, G. L.—Lahori Gate, G. B. Road, Delhi.

Seth & Co., A. N.—Katra Raji, G. B. Road, Delhi.

MOTOR PARTS AND ACCESSORIES

Aggarwala Automobiles. -Queen's Road, opp. Railway Station, Delhi.

Bharat Motor Company, The.—Queen's Road, opp. Railway Station, Delhi.

Coronation Motor Works.—Queen's Road, opp. Railway Station, Delhi.

Delhi Motor & Cycle Co.—48, Queensway, New Delhi.

Eastern Trading Co, Madrasa Road, Kashmere Gate, Delhi

Federal Auto Stores.- Kashmere Gate, Delhi 6.

General Motor Stores.—Queen's Road, opp. Railway Station, Delhi.

Howrah Motor Co Ltd.— Kashmere Gate, Delhi

Indo Commercial Corporation, 211 Esplanade, Delhi

Indo Trading Co.— Kashmere Gate, Delhi 6. Phone : 5539.

Jain Motor Car Co., The. - Queen's Road, opp. Railway Station, Delhi

Lakshmi Motor Company, The.—Queen's Road, opp. Railway Station, Delhi.

National Motor Stores.- Roshanara Road, Delhi.

Northern India Motor Co Connaught Circus, New Delhi

Olympia Motors—Hamilton Road, Delhi.

Orient General Agencies Hamilton Road, Kashmere Gate, Delhi 3.

P S. Jain Motor Co.— Queen's Road, opp. Railway Station, Delhi

Seth & Sons Ltd. - Queen's Road, opp. Railway Station, Delhi.

Universal Trading Corporation.—Hamilton Road, Delhi.

MUSICAL INSTRUMENT DEALERS

Gerlin & Co Regal Bldg., Parliament Street, New Delhi.

Jawant Reed & Co Kashmere Gate, Delhi.

Lahore Music House Faiz Bazar Road Near Moti Mahal, Delhi 6.

Marquis & Co Connaught Circus, New Delhi.

R. K. Mohan Musical Instrument Mfg Co - Hamilton Road, Kashmere Gate, Delhi.

Ram Ram & Sons.—Nai Sarak, Delhi

Rikhi Ram Musical Instrument Mfg. Co —Connaught Place, New Delhi.

Sohan Singh Harmonium Co - Esplanade Road, Delhi.

Victory Gramophone Co - Behind State Bank Bldg., Chandni Chowk, Delhi.

NEWSPAPERS AND PERIODICALS

Agricultural Situation in India (Monthly). Civil Lines, Delhi.

All India Motorist (Monthly) D-24, Odeon Bldg., New Delhi.

Atal Bharati (Monthly). -P.O. Box No. 2011, Delhi.

Banking Insurance & Commerce (Monthly). -Vinney Nagar, New Delhi

Beecham's India Air Guide (Monthly) - M. Block, M-6, Radial Road, No. 7, New Delhi.

Chitra (Weekly). - Bhagirath Palace, Chandni Chowk, Delhi 6.

Commerce & Industry (Weekly).— Prabhudayal Bldg., Connaught Circus, New Delhi.

Congress Sandesh (Weekly).—Jantar Mantar Road, New Delhi.

Congress Bulletin (Monthly).—7, Jantar Mantar Road, New Delhi.

Daily Pratap (Daily).—Mathura Road, New Delhi

Daily Watan (Daily).—Chandni Chowk, Delhi

Eastern Economist (Weekly).— 52, Queensway, New Delhi.

Eclmart (Weekly).— Burn Bastion Road, Delhi.

Food & Farming (Monthly).— D-24, Odeon Bldg, P.O. Box 540, New Delhi.

Hindustan (Daily).—Connaught Circus, New Delhi.

Hindustan Standard (Daily).—Qutab Road, Delhi.

Hindustan Saptahik (Weekly).— Connaught Circus, New Delhi.

Hindustan Times (Daily) —Connaught Circus, New Delhi.

Indian Express (Daily) — Mori Gate, Delhi

Indian Farming (Monthly) — I C A R Queen Victoria Road, New Delhi

Indian Labour Gazette (Monthly) — Civil Lines Delhi.

Indian Listener (Weekly).— Curzan Road, New Delhi.

Jan Kalayan (Quarterly) Lakshmi Insurance Bldg., New Delhi.

Journal of the United Service Institution of India (Quarterly) — Kashmir House, New Delhi

Journal of Industry & Trade (Monthly) — Civil Lines, Delhi.

Kurukshetra (Monthly) - C P A , Rashtrapati Bhuvan, New Delhi

Medical Review of Reviews (Monthly) Post Box 1160, Burn Bastion Road, Delhi

NAVBHARAT TIMES (Daily).—10, Daryaganj, Delhi.

Overseas Hindustan Times (Weekly) —Connaught Circus, New Delhi

People (Weekly) 19-C Block, Connaught Place New Delhi

Pitrueger (Monthly) - 92 Daryaganj Delhi

Prasarika (Quarterly) Post Box 2011, Delhi

Samik Samachar (Weekly) —F-Block, D H P Q New Delhi.

Statesman (Daily) - Connaught Circus, New Delhi

Swarajya (Daily) Dharam Nagar, Sarwara Chawri Bazar, Delhi

Tax & Commercial Reports (Monthly) M-27 Connaught Circus, New Delhi

TIMES OF INDIA (Daily).—10, Daryaganj, Delhi.

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Blackwoods India Ltd —D A G Extension, New Delhi

General Equipment Merchants Ltd.— 2 80, Connaught Circus, New Delhi

Gestetner Duplicators Ltd - 9, Scindia House New Delhi.

Godrej, Godrej & Boyce Mfg. Co., Private Ltd.—20, Ajmeri Gate Extension, New Delhi.

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Charandas Khanna & Sons.—1, Chandni Chowk, Delhi.

COMRADES OPTICAL CO., THE.—Wholesale Opticians, 5245, Ballimaran Street, Delhi 6.

Delhi Optical Co. -Chandni Chowk East, Delhi 6.

Kirparam & Sons.—Connaught Circus, New Delhi

Lawrence & Mayo (India) Ltd.—Queensway Road, New Delhi.

Modern Optical Company Ltd. - Chandni Chowk, Delhi.

Munick Ltd.— Opticians, 12-B, Connaught Place, New Delhi.

PUNJAB SPECTACLES CO., THE.—Manufacturing Opticians, Affiliated to the Royal Fountain Pen Co., 1458, Fountain, Delhi.

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Bharat Paint House (Regd.) Chandni Chowk, Delhi. Phone . 24365. Grams : "Bharatpaints."

Buildwell Stores.—Katra Raji, G. B. Road, Delhi.

B. Uttamsingh Kesarsingh.—Chandni Chowk, Delhi.

Delhi Colour and Paint Mart.—Fatehpur, Chandni Chowk, Delhi.

Dewanchand & Sons.—Katra Raji, G. B. Road, Delhi.

Dherumal Kapur & Sons.—Lahori Gate, G. B. Road, Delhi.

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Himalaya Trading Co. -Fatehpuri, Delhi 6.

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India Paint, Colour and Varnish Co. Ltd.—Chandni Chowk, Delhi.

India Trading House.—Fatehpur, Chandni Chowk, Delhi.

Jagannath & Co.—Naya Bazar, G. B. Road, Delhi.

Jansar Paint House.—Sadar Bazar, Delhi.

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Maira Sales Corporation.—Faiz Bazar, Delhi.

Narnamsingh & Sons.—Chandni Chowk, Delhi.

National Paint House.—Chandni Chowk, Delhi.

Nikkamall & Sons, S.—Naya Bazar, G. B. Road, Delhi.

Northern India Paint & Colour Co.—Naya Bazar, Delhi.

RAM PRAKASH & SONS.—Fatehpuri, Delhi. Paint Factory : Patel & Prakash Industries, Delhi—Shahdra; Glue Factory : Sunlight Glue Manufacturing Co., Rhotak Road, Delhi. Sizing Material Suppliers : Glue "TREE" Brand, Ram Prakash & Sons, Fatehpuri, Delhi.

Santram Nikka Mal.—Fatehpur, Chandni Chowk, Delhi.
Shadi & Co.—Fatehpur, Chandni Chowk, Delhi.
Shalimar Products Ltd.—Connaught Circus, New Delhi.
Spraylac Paints Corporation.—9, Fais Bazar, Delhi.
Sunderlal Jain.—Lahori Gate, G. B. Road, Delhi.
SURESH BROTHERS.—64, G.B. Road, Delhi 6. Phone : Office : 26127 ; Residence : 27613.
Swastika Colour & Paint Industries.—Katra Raji, G. B. Road, Delhi.
Tayal Brothers.—Katra Raji, G. B. Road, Delhi.
United Commercial Syndicate.—Fatehpur, Chandni Chowk, Delhi.

PAPER MERCHANTS

A. C. Goel & Sons.—Chawri Bazar, Delhi.
Amar Singh Dhoomi Mal.—Chawri Bazar, Delhi.
Bansi Dhar Kapoor & Sons (Regd.).—Chawri Bazar, Delhi.
Behari Lal Madan Lal.—Maha Laxmi Market, Chandni Chowk, Delhi.
Bengal Paper Mills Co. Ltd.—Behind Jama Masjid, Delhi.
Bhagwat Parshad & Sons.—Chawri Bazar, Delhi.
Bhola Nath Rachho Mall.—Fatehpuri, Delhi.
Birdhi Chand Naunag Ram.—Khari Baoli, Delhi.
Birdhi Chand Jain & Sons.—Chawri Bazar, Delhi.
B. N. Mehra & Co.—Importers, 5198, Sadar Bazar, Delhi 6.
Chhutan Lal Chaman Lal.—Chawri Bazar, Delhi.
Dalmia Cement & Paper Marketing Co. Ltd.—Scindia House, Queensway, New Delhi.
Dasondhi Mal Kapur.—Chawri Bazar, Delhi.
Eastern Paper Mart.—Chawri Bazar, Delhi.
Frank Bros. & Co.—Chandni Chowk, near Dariba, Delhi.
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J. Mahabir & Co. Ltd.—Near Jama Masjid, Dariba, Delhi.
Kalamazoo Parchment Paper Co.—37-G, Connaught Circus, New Delhi.
Karam Chand Thapar & Bros. Ltd.—Naya Bazar, Delhi.
K. C. Bhargava & Co.—Post Box No. 1247, Delhi.
Kishori Lal & Sons.—Chawri Bazar, Delhi 6.
K. N. Dawar & Co.—12-L, Connaught Circus, New Delhi. Phone : 43965.
Munshi Lal Parkash Chand.—Chawri Bazar, Delhi.
Munshi Lal & Sons.—Chawri Bazar, Delhi.
Nand Ram Suraj Mal.—Chawri Bazar, Delhi.
Nanu Mal & Sons.—Chawri Bazar, Delhi.
Naunag Ram Sumair Chand Jain.—Chawri Bazar, Delhi.
Nem Chand Rajender Kumar.—Chawri Bazar, Delhi.
New India Paper Mart.—Chawri Bazar, Delhi.
Paras Das Lalit Pershad.—Chawri Bazar, Delhi.
Premier Trades & Agencies.—Chawri Bazar, Delhi.
P. L. Bachu Mal.—Chawri Bazar, Delhi.
Raghbar Dayal Pannu Lal.—Chawri Bazar, Delhi.
Raja Lal & Sons.—Chawri Bazar, Delhi.
Ram Parshad Radhey Sham.—Charkhewalan, Chawri Bazar, Delhi.
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Ram Lal Kapoor & Sons.—Nai Sarak, Delhi.
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Ram Kishore Chaman Lal.—Khari Baoli, Delhi.
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Titaghar Paper Mills Co. Ltd.—Shiv Narain Building, Chandni Chowk, Delhi.
Upper India Paper Co.—Wholesale Paper Merchants, 4030, Chawri Bazar, Delhi.

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B. L. Ramrichpal.—Lothian Road, Kashmere Gate, Delhi.
Bestways & Co.—Outside Moti Cinema, Chandni Chowk, Delhi.
Bharat Brass & Metal Industries.—G.T. Road, Delhi.
Bright Steel Industries.—Near Juma Masjid, Delhi.
British Perambulator Manufacturing Co.—Qutab Road, Delhi.
Madan Brothers.—IV/86, Chandni Chowk, near Dariba, Delhi 6.
N. Kishore & Co.—Esplanade Road, Delhi 6.
Raja Lal & Sons.—1475-1, Chandni Chowk, Delhi 6.

PERFUMERS

Dharampal Premchand.—Chandni Chowk, Delhi.
Gupta & Co.—Sadar Bazar, Delhi 6.
Gupta & Co.—Khari Baoli, Delhi.
Mathur Perfumery Works.—Paharganj, Main Bazar, New Delhi.
Shanta Stores.—Fatehpur, Chandni Chowk, Delhi.

PHARMACEUTICALS

Albert David Ltd.—262, G. T. Road, Delhi.
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British Drug House (India) Ltd.—24, Daryaganj, Delhi.
Chemical, Industrial & Pharmaceutical Laboratories Ltd.—Connaught Place, New Delhi.
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Ranbary & Co., Ltd.—16, Marine Arcade, Connaught Place, New Delhi.

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BAKHSHI BROTHERS.—Artists, Photographers and Dealers, 17, Fais Bazar, Darya Ganj, Delhi 7 and The Mall, Nainital (U.P.), India.
DELHI PHOTO CO.—78, Janpath New Delhi, Phone : 48575.

PHOTOGRAPHERS AND PHOTOGRAPHIC MATERIAL DEALERS

A. R. Dutt.—Alipore Road, near Ludlow Castle, Delhi.
Artland Studio.—Chawri Bazar, Delhi.
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Bashimber Dayal & Sons.—Dariba Kalan, Delhi.
Berry Studio.—Kashmere Gate, Delhi.
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Kanwal Bros.—Esplanade Road, Delhi.
Karachi Photo House.—Subzimandi Tower, Delhi.
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K. L. Arora & Sons.—Baird Road, New Delhi.
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Lakshmi Photo Co.—Chandni Chowk, opp. Imperial Bank, Delhi
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Metro Studio.—Connaught Circus, New Delhi.
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Nice Photo Studio.—Chandni Chowk, Delhi.
Oriental Art Studio.—Esplanade Road, Delhi.
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Rangoon Studio.—56, Queensway, New Delhi.
R. K. Gupta & Sons.—Baird Road, New Delhi.
Royal Photos Co.—Connaught Circus, New Delhi.
Royal Studios.—B-Block, Connaught Place, New Delhi.
Simla Studios.—Regal Building, Connaught Circus, New Delhi
Soni Studio.—Esplanade Road, Delhi.
Star Photo House.—Esplanade Road, Delhi.
Talreja Bros. (Rangoon Studio).—56, Queensway, New Delhi. Phone : 47861.

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Batra Fruit Products Corporation.—18, Amrit Kaur Market, Paharganj, New Delhi.
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Blue Bird Manufacturing Co.—Dev Nagar, Karolbagh, New Delhi.
Delhi Fruit Products.—Ajmeri Gate, Delhi.
Delhi Pickles Manufacturing Co.—Gali Batashan, Khari Baoli, Delhi.
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Hem Fruit Products —Connaught Place, New Delhi.
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India Fruit House—Gali Farharullah Beg, G. B. Road, Delhi.
Kashmir Fruit Products Laboratory.—Qutab Road, Delhi.
Moti Canning Corporation.—Loni Road, New Delhi.
Northern India Canning Industries.—16-E, Kamla Nagar, Subzimandi, Delhi.
Peshawar Fruit & Canning Industries.—Jungpura, New Delhi.
Royal Fruit Products.—6, Municipal Market, Panchkuin Road, New Delhi.
Sunshine Fruit Products.—70, Lajpat Rai Market, Delhi.
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Vijay Fruit Industries.—Gali Halwain, Paharganj, Delhi.

PICTURE DEALERS & FRAME MAKERS

Himalaya Trading Co.—Fatehpuri, Delhi 6.
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PIPES AND FITTINGS MERCHANTS

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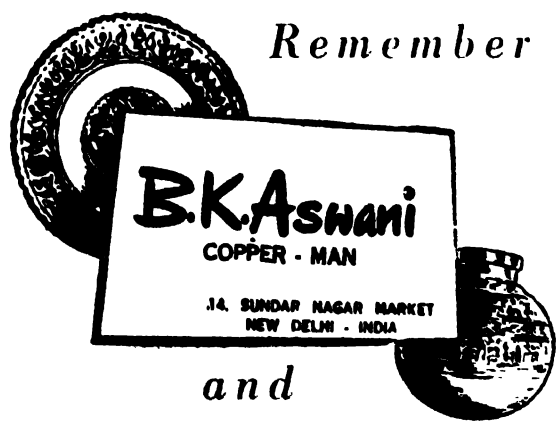
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Aneja Printing Press.—Bara Tooti, Sadar Bazar, Delhi.
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Durga Art Press.—Nicholson Road, Kashmere Gate, Delhi.
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Federal Trade Press —Connaught Circus, New Delhi.
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Gita Printing Press.—Library Road, Pul Bangash, Delhi.
Gondal Press.—Connaught Circus, New Delhi.
Great India Press —G. B. Road, Delhi.
Grover Art Press —Esplanade Road, Delhi.
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Indraprastha Printing Press.—Queen's Road, behind Novelty, Delhi.
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New India Press.—Connaught Circus, New Delhi.
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Oxford Printing Works.—Scindia House, Connaught Circus, New Delhi.
Paramount Art Press.—Daya Nand Road, Daryaganj, Delhi.
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P. B. I. Press.—Original Road, near Multani Tanda, Delhi.
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Pioneer Fine Art Press.—Ajmeri Gate, Delhi.
P. & O. Printing Works.—Nicholson Road, Delhi.
Prem Art Press.—Kinari Bazar, Chandni Chowk, Delhi.
Punjabi Press.—Bara Tooti, Sadar Bazar, Delhi.
Puri Printing Works.—Chawri Bazar, Delhi.
Raj Hans Press.—Rui-ki-Mandi, Sadar Bazar, Delhi.
Ram Krishena Press.—Katra Neel, Chandni Chowk, Delhi.
Ranjit Printing Press.—Kutab Road, Delhi.
Rashtriya Printing Press.—78, G. B. Road, Delhi.
Rattan Press (Regd.). —Fatehpuri, Delhi.
Rooprani Printing House.—23, Daryaganj, Delhi.
Roxy Printing Press.—Connaught Circus, New Delhi.
Sachdeva Printing Works.—Chawri Bazar, Delhi.
Shanti Press.—Naya Bazar, Delhi.
Sharda Printing Press.—Naya Bazar, Delhi.
Shri Laxmi Printing Press.—Roshanara Road, Delhi.
Shri Maha Laxmi Art Press.—Bahadurgarh Road, Delhi.
Sorindro Press.—Bara Tooti, Sadar Bazar, Delhi.
Statesman Press.—Connaught Circus, New Delhi.
Style Printing Works.—Bara Tooti, Sadar Bazar, Delhi.
Sunder Press.—Gali Lalu, Kutab Road, Delhi.
Swan Press.—Thana Road, Sadar Bazar, Delhi.
Swatantra Bharat Press.—423, Esplanade Road, Gali Jamun, Delhi.
Tej Press.—Naya Bazar, Delhi.
Tropical Press.—Connaught Circus, New Delhi.
Victoria Cross Press.—3, Daryaganj, Delhi.
Victoria Electric Press.—Sadar Bazar, Delhi.
Vijey Press.—Naya Bazar, Delhi.
Vir Arjun Press.—Naya Bazar, Delhi.

PRINTERS, PUBLISHERS & BOOKSELLERS

K. N. Dawar & Co.—12-L, Connaught Circus, New Delhi. Stationers and Printers.
Om Prakash Anand.—Prop., Messrs. Thakar Dass Anand & Sons, Educational Publishers, 58, Esplanade Road, Delhi 6.
Sharda Mandir.—Nai Sarak, Delhi.

PRINTING PRESS MATERIALS

Balbir Bros., Ltd.—Importers and Merchants of Paper, Stationery, Printing Machinery, Jama Masjid, Delhi.
J. Mahabir & Co., Ltd.—Jama Masjid, Delhi.

PROVISION MERCHANTS

Army and Navy Stores, Ltd.—Regal Building, Connaught Circus, New Delhi.
Arora Provision Store.—Paharganj, Main Bazar, New Delhi.
Bahal Provision Store.—Ram Dawara Road, Paharganj, New Delhi.
Bhola Ram & Sons.—Connaught Place, New Delhi
Capital Stores.—Connaught Place, New Delhi.
Chopra Modern Stores.—Multani Dhanda, Paharganj, New Delhi.
Empire Stores.—Connaught Place, New Delhi.
FOSTER BELL & COMPANY.—P.B. No. 406, New Delhi 1. Manufacturers of Quality Tomato Catsup, Jams, Jellies, Squashes, Juices, Canned Fruits and Vegetables, Pickles, Condiments.
Friends Provision Store.—Paharganj, Main Bazar, New Delhi.
Gaindamull Hemraj.—Connaught Place, New Delhi.
General Stores.—Lady Hardinge Road, New Delhi.
Handa Provision Store.—Main Bazar, Paharganj, New Delhi.
Himalaya Manufacturing & Sales Co.—Park Mansions, Daryaganj, Delhi.
Khalsa Provision Store.—Paharganj, Main Bazar, New Delhi.
Lakshmi Stores.—Lady Hardinge Road, New Delhi.
Marwar Stores.—Lady Hardinge Road, New Delhi.
Motandas & Co., T.—4E, Thana Sadar Road, Delhi 6.
Nayyar & Co.—16, Faiz Bazar, Daryaganj, Delhi.
New General Store.—4-G, Connaught Circus, New Delhi.
Sargoda Provision Store.—Paharganj, Main Bazar, New Delhi.
S. K. Diwan & Co.—214, Irwin Road, P.B. No. 233, New Delhi 1
Wadhera Provision Store.—Paharganj, Main Bazar, New Delhi.

PUMPS & PUMPING SETS MFRS. & DEALERS

ASSOCIATED ELECTRICAL INDUSTRIES (INDIA) PRIVATE LTD.—United India Life Bldg., Connaught Place, New Delhi. (See Commercial firms in New Delhi.)

RADIO MFRS., REPAIRERS, DEALERS AND PART SUPPLIERS

Best & Company.—M-53, Connaught Circus, New Delhi.
BAKHSHI RADIOS.—Authorised National EKCO Radio Dealers, Radio Service Experts, 15, Faiz Bazar, Darya Ganj, Delhi 7
British Radio Products.—Connaught Place, New Delhi.
Chicago Telephone & Radio Co., Ltd.—68, Queensway, New Delhi.
Delhi Radio Company.—Chandni Chowk, Delhi.
Eastern Electric and Trading Co.—Connaught Place, New Delhi
Electronics Ltd.—Connaught Place, New Delhi.
Empire Radios.—Connaught Place, New Delhi.
Empire Trading Co.—Esplanade Road, Delhi.
General Electronic Corporation.—Connaught Place, P. O. Box No. 316, New Delhi.
General Electric Co. of India, Ltd.—Connaught Place, New Delhi
Howard Radio Co. - Opp. Plaza, New Delhi 6
Indian Radio Corporation Ltd. —11, Chandni Chowk, Delhi 6.
Indiatone Radios Ltd.—Subzimandi, Delhi.
Jai Hind Radio Co —Fatehpur, Church Mansion Road, Chandni Chowk, Delhi.
Jay Ray Radio and General Stores.—Lady Hardinge Road, Delhi.
Modern Music and Electric Stores —Esplanade Road, Delhi
National Service Corporation.—Kashmere Gate, Delhi.
New Radio Service. —Baird Road, New Delhi.
Oriental Radio Corporation.—D Block, Connaught Place, P. O. Box No. 371, New Delhi.
Philips Electrical Co. (India), Ltd. —Lakshmi Insurance Building, Delhi. Ajmeri Gate Extension, New Delhi.
Radio Centre.—Opp. Clock Tower, Chandni Chowk, Delhi 6.
Sharma Electric and Radio House.—Kinari Bazar, Delhi
Simla Trading Corporation (India), Ltd.—Connaught Circus, Delhi
Standard Radio & Electric Co. - Opp. Scindia House, New Delhi
Universal Radio Co. - Chandni Chowk, Delhi.
Vijay Electronics Ltd. —13-L, Connaught Circus, New Delhi 1.

RAILWAY SIGNALLING EQUIPMENT

ASSOCIATED ELECTRICAL INDUSTRIES (INDIA) PRIVATE LTD.—United India Life Bldg., Connaught Place, New Delhi (See Commercial firms in New Delhi).

READYMADE CLOTH DEALERS

Glamour. —20/F, Connaught Place, New Delhi.
Novex —Cloth Merchants, 120, Connaught Place, New Delhi
Roy Brothers (Cheap John) Ltd.—Queensway, New Delhi.
Style.—13-E, Connaught Place, New Delhi. Phone No. 42072
Trevillion & Clark.—21B, Connaught Place, New Delhi. Phone 40736.

SAND, STONE & CHUNAM MERCHANTS

SURESH BROTHERS.—64, G. B. Road, Delhi 6; Phone : Office 26127. Residence : 27613.

SANITARY ENGINEERS

D. S. Bawa & Co.—14, Barakhamba Road, New Delhi. Tel. A/c "BHARAT". Phone : 3935.
Himalaya Trading Co.—Fatehpuri, Delhi 6.
J. B. Norton & Sons Ltd.—Kashmere Gate, Delhi.

John Tinson & Co., Ltd.—54, Queensway, New Delhi.
Mahabir Pershad & Sons.—Importers & Merchants, Chawri Bazar, Delhi 6.
S. D. Marker & Co.—57, Punchkuin Road, New Delhi 2.
Sunderson & Co., S. N.—Naya Bazar, G. B. Road, Delhi.

SAREE MERCHANTS

B. Lilaram & Sons (Delhi).—14-15F, Connaught Place, New Delhi.
Glamour.—20-F, Connaught Place, New Delhi.
Hazarilal Sitaram Rastogi.—Near Moti Bazar, Chandni Chowk, Delhi.

SCIENTIFIC INSTRUMENT DEALERS

Capital Scientific Instrument Co., Ltd.—Faiz Bazar, Daryaganj, Delhi.
Empire Scientific & Surgical Co.—Naya Bazar, Delhi.
Sindsagar (Scientific) Industries.—Daryaganj, Delhi 7.

SERVICE STATION EQUIPMENT

DELHI GARAGE PRIVATE LTD.—Connaught Circus, New Delhi. Workshop and Garage Equipment including Specialised Lubrication Equipment for Automobiles, Tractors, Earth moving Machinery, etc.—Compressors,—High Pressure Car Washers,—Tyre Inflation Equipment, Air Meters and Air Towers,—Spray Painting Equipment,—Workshop and Garage Tools,—Battery Chargers,—Spark Plug Cleaning & Testing Machines, etc.

SHAWL MERCHANTS

Aminchand Jeewanram.—771, Chandni Chowk, Delhi.
Girwarlal Baijnath.—771, Chandni Chowk, Delhi
Hukamchand Bholanath.—Moti Bazar, Chandni Chowk, Delhi.
Kahanchand & Sons.—771, Chandni Chowk, Delhi.
Kanshiram Keshoram.—771, Chandni Chowk, Delhi.
Khazanamal Banwarilal.—771, Chandni Chowk, Delhi.
Laxmi & Co.—Moti Bazar, Chandni Chowk, Delhi.
Naginchand Shori.—771, Chandni Chowk, Delhi.
Ragopal Krishandev.—Moti Bazar, Chandni Chowk, Delhi.
Ramratan Mehra.—771, Chandni Chowk, Delhi.
Vidyaram Satyanarain.—Moti Bazar, Chandni Chowk, Delhi.

SILK AND COTTON MERCHANTS

Ahuja Stores.—Chandni Chowk, Delhi.
Amritsar Tan-Di-Hatti.—Baird Road, New Delhi.
Beliram Amernath.—Katar Choban, Chandni Chowk, Delhi.
Benares House.—771, Chandni Chowk, Delhi.
Bhagwandas Narainji.—Ashrafi Katra, Chandni Chowk, Delhi.
Bishambernath Amernath.—Katar Choban, Chandni Chowk, Delhi.
Boota Singh & Sons.—771, Chandni Chowk, Delhi.
Chetram Verma & Co.—Ashrafi Katra, Chandni Chowk, Delhi.
Delhi Silk Store.—Chandni Chowk, Delhi.
Desh Depak.—Chandni Chowk, Delhi.
Eddy—Queensway, 'N' Block, New Delhi.
Gian Singh Baljit Singh.—Katra Subhash, Chandni Chowk, Delhi.
Glamour.—20-F, Connaught Place, New Delhi.
Gopalrai Ramkumar.—Katar Choban, Chandni Chowk, Delhi.
Jankidas & Co.—23/F, Connaught Place, New Delhi.
J. Kimatrai & Co.—771, Chandni Chowk, Delhi.
Khanna Silk Store.—Chandni Chowk, Delhi.
Kishanchand Chellaram.—Chandni Chowk, Delhi.
Kishandas Khiaram.—Chandni Chowk, Delhi.
Krishin Kumar Gupta & Co.—Katar Ashrafi, Chandni Chowk, Delhi.
Lahore Silk Store.—771, Chandni Chowk, Delhi.
Lalro Brothers.—Chandni Chowk, Delhi.
Lilaram & Sons.—Connaught Place, New Delhi.
Lokenath & Sons.—Connaught Place, New Delhi.
Mangaldas Valjee.—Katar Choban, Chandni Chowk, Delhi.
Moondra Brothers.—Katar Ashrafi, Chandni Chowk, Delhi.
Musdilal Ratanlal.—Ashrafi Katra, Chandni Chowk, Delhi.
Narsindas Vasdev.—771, Chandni Chowk, Delhi.
Parsram Dwarkadas.—Katar Choban, Chandni Chowk, Delhi.
Pindi Silk Store.—Chandni Chowk, Delhi.
Punjab Silk Store.—Nai Sarak, Delhi.
Rama Brothers.—Chandni Chowk, Delhi
Rambuburam Ramkumar.—Katar Ashrafi, Chandni Chowk, Delhi.
Roshanlal Satyapal.—Ashrafi Katra, Chandni Chowk, Delhi.
Sardar Silk House.—771, Chandni Chowk, Delhi.
Selection House.—Chandni Chowk, Delhi.
Silk Glamour.—771, Chandni Chowk, Delhi.
Sohanlal Prem Narain Jain.—V/57, Chandni Chowk, opp. Central Bank, Delhi.
Sri Ram & Son.—771, Chandni Chowk, Delhi.
Style.—13/E, Connaught Place, New Delhi.
Udmiran Phulchand.—Katar Ashrafi, Chandni Chowk, Delhi.
Valiram & Sons.—Chandni Chowk, Delhi.
Vensimal Tirathdas.—Chandni Chowk, Delhi.

SOAP FACTORIES

Asiatic Soap Works.—Khari Baoli, Delhi.
Bharat Soap Works, Gali Bahuji, Sadar Bazar, Delhi
Crown Soap Co.—Chapparwala Kuan, Karolbagh, New Delhi.
Ganga Industries—Subzimandi, Delhi.
Hindustan Levers Ltd.—D. A. G. Extension, New Delhi.
GODREJ. Godrej Soaps Private Ltd.—168, Chandni Chowk, Delhi.
Jubilee Soap Works.—Mohalla Nabi Karim, Delhi
Krishna Soap Factory.—Ahata Kidara, Sadar Bazar, Delhi
Punjab Soap Factory.—2659, Basti Punjabi, Subzimandi, Delhi.
Railway Soap Works.—Sadar Bazar, Delhi

SPORTS GOODS

Anand Industries.—564, Kucha Natwan, Chandni Chowk, Delhi.
Beatways & Co.—Outside Moti Cinema, Chandni Chowk, Delhi.
British Sports Works.—4066, Sir Syed Ahmad Road, behind P.O. Daryaganj, Delhi.
B. T. Shuttle Cock House.—Thana Street, Subzimandi, Delhi.
"Harisons Uppal".—9577, Bhargarh-Roshanara Road, Subzimandi, Delhi.
Job & Co.—Gali Tantawali, Faiz Bazar, Daryaganj, Delhi.
Khosla Sports Industries.—28, Barakhamba Road, New Delhi.
Light Way Sports.—52, Municipal Market, Connaught Place, New Delhi.
Mongia Bros.—Opp. Kumar Talkies, Chandni Chowk, Delhi. Phone: 25564.
Norfolk Syndicate (India) Ltd.—Scindia House, Connaught Circus, New Delhi.
Northland (India) Ltd.—(Opposite Scindia House), Connaught Circus, New Delhi.
Ojhasons.—Near Clock Tower, Subzimandi, Delhi.
Prince Rose.—90, Daryaganj, Delhi.
Rattan & Co.—Gali Abdulla Beg, Roshanara Road, Subzimandi, Delhi.
Sahaney Shuttlecocks House.—Ajmal Khan Road, Karol Bagh, Delhi.
S. S. Balbir & Co. (Regd.).—Bhargarh, Roshanara Road, Delhi 6.
United Sports Traders (Delhi) Ltd.—5838, Khaliq Manzil, Thana Street, Subzimandi, Delhi
Uppal & Co.—Gali Abdulla Beg, Roshanara Road, Subzimandi, Delhi.
Uppal Sports Ltd.—5838, Khaliq Manzil, Thana Street, Subzimandi, Delhi.

STARTERS & SWITCHGEAR

ASSOCIATED ELECTRICAL INDUSTRIES (INDIA) PRIVATE LTD.—United India Life Bldg., Connaught Place, New Delhi. (See Commercial Firms in New Delhi).

STATIONERS

Balbir Bros., Ltd.—Importers and Merchants of Paper, Stationery & Printing Machinery, Jama Masjid, Delhi.
Jankidas & Co.—23/F, Connaught Place, New Delhi.
K. N. Davar & Company.—12-L, Connaught Circus, New Delhi.
New Book Depot.—Connaught Place, New Delhi.
New Delhi Stationery Mart—81 Prem House, Connaught Place New Delhi

STEEL WINDOWS

Balmer Lawrie & Co., Ltd.—D. A. G. Extension, Delhi
GODREJ. Godrej & Boyce Mfg. Co., Private Ltd.—20 Ajmeri Gate Extension, New Delhi.

SURGICAL INSTRUMENTS, REPAIRERS & DEALERS

Fourbhai Ltd.—14, Faiz Bazar (Daryaganj), Delhi 7.
Mittra Pharmacy.—Ballimaran, Chandni Chowk, Delhi 6.

TAILORS AND DRAPERS

Eddy.—"N" Block, Piccadilly Buildings, Queensway, New Delhi.
Jagat Narain Khanna, B.A.—Opp. Scindia House, New Delhi
Lal's.—L. Gopi Nath Block, 22-E, Connaught Place, New Delhi.
Style.—13-E, Connaught Place, New Delhi.
Trevillion & Clark.—21-B, Connaught Place, New Delhi.

TAILORS AND OUTFITTERS

Agit Tailoring House.—Choona Mandi, Paharganj, New Delhi.
Amrit Tailoring House.—Choona Mandi, Paharganj, New Delhi.
Brig Tailoring House.—Choona Mandi, Paharganj, New Delhi.
Eddo Tailors.—Connaught Place, New Delhi.
Elite Style Tailors.—Connaught Place.
Jai Bharat.—Paharganj, Main Bazar, New Delhi.
Kailash Tailoring Mart.—Behind Imperial Bank, Bisaumal Colony, Chandni Chowk, Delhi.
Kapur Bros.—Faiz Bazar, Daryaganj, Delhi.
Kirpa Ram & Bros.—Connaught Place, New Delhi.

Lachman Dass & Sons.—Pahargunj, Main Bazar, New Delhi.
Narankari Cloth and Tailoring House.—Pahargunj, Main Bazar, New Delhi.
Novex.—12-C, Connaught Place, New Delhi 1.
Ragho Mull & Sons.—Connaught Circus, Delhi.
Rajendra & Co.—16-E, Connaught Place, New Delhi.
Ranken & Co., Ltd.—Scindia House, Delhi.
Rashtria Tailoring House.—Ajij Building, Choona Mandi, Pahargunj, New Delhi.
Rattan Tailors.—Main Bazar, Pahargunj, New Delhi.
Sohanlal Prem Narain Jain.—V,57, Chandni Chowk, opp. Central Bank, Delhi.
Roy Brothers (Cheap John) Ltd.—Queensway, New Delhi.
Sham Tailoring House.—Choona Mandi, Pahargunj, New Delhi.
Sind Sagar Tailors.—Main Bazar, Pahargunj, New Delhi.
Style.—13-E, Connaught Place, New Delhi.
TREVILLION & CLARK.—21-B, Connaught Place, New Delhi. Phone: 40736. Grams: "TREVILLION". Drapers, Hosiers. Branch: 8-A, Lindsay Street, Calcutta. Phone: 24/2464. Gram: "TREVCLARK". Incorporating: Pooran Chand & Sons, Mussoorie. Phone: 12. (Owners: Mohanlal Sons).

TEA AND COFFEE MFRS. AND SUPPLIERS

Brooke Bond (India) Ltd.—Kashmere Gate, Delhi.
Lipton Ltd.—Mori Gate, Delhi.
Miller & Co.—Connaught Place, Delhi.
Mukban & Co.—Fountain Area, Chandni Chowk, Delhi.

TIMBER MERCHANTS

Burma Timber Traders.—Original Road, Delhi.
Delhi Timber Supply Co.—Katra Burian, Fatehpur, Chandni Chowk, Delhi.
Hari Chand Jain & Sons.—6464, Katra Baryan, Delhi 6.
Sehgal Timber Co., The.—Arora Building, Original Road, Delhi.
S. Gopal Singh & Sons.—Original Road, Delhi
Sita Ram Timber Supply & Wood Works.—Katra Barayam, Delhi 6.
V. Karnail Singh & Co.—Original Road, Delhi.

TIN BOX MANUFACTURERS

THE METAL BOX COMPANY OF INDIA LIMITED.—Sales-Office at Hamilton House, Connaught Place, New Delhi. Factory at Naniwala Bagh, Azadpur, Delhi. Head Office Barlow House, 59C Chowringhee Road, Calcutta 20. Branches also at Calcutta, Bombay and Madras. Specialists in tinprinting and the production of Open Top cans for processed foodstuffs and plain and lithographed General Line tinplate containers; Composites; Collapsible and Rigid Tube; Polyethylene Bags; Calendars, Advertising Show-cards and Novelties; Insecticide Sprayers; Trays, Toys and other Hardware; Crown Corks, Screw Caps, Pilferproof and other Closures; Industrial Components, particularly deep stampings. Manufacturers of Can and Bottle Closing Equipment. Suppliers of Can Reforming and Can and Bottle Closing Equipment manufactured by The Metal Box Company Limited, and Bottling Equipment manufactured by Meyer Liquid Limited.

TOILETRIES

"BELL" (Deptt. New General Store).—4G, Connaught Circus, New Delhi.
GODREJ. Godrej Soaps Private Ltd.—168, Chandni Chowk, Delhi.
Jankias & Co.—23-F, Connaught Place, New Delhi.
New General Store.—4-G, Connaught Circus, New Delhi.

TOOL MERCHANTS

P. SHARAN & CO.—Post Box 1145, Kashmere Gate, Delhi 6. For everything in Automobiles, Garage Tools and Service Equipments. Phones: 25314 and 2648. Grams: "SHARAN".

TOYS AND FANCY GOODS

Art Museum.—1726, Burn Bastion Road, Delhi 6.
Bestways & Co.—Outside Moti Cinema, Chandni Chowk, Delhi.
B. L. Ramrichpal.—Lothian Road, Kashmere Gate, Delhi.
Central Cottage Industries Emporium on Janpath, New Delhi.
Madan Brothers (Estd. 1931).—IV,86, Chandni Chowk, near Dariba, Delhi 6.
Raja Toys Co.—Deputy Gunj, Sadar Bazar, Delhi.
Sunbeam Cottage Industries.—20, Daryaganj, Delhi.

TRANSFORMERS

ASSOCIATED ELECTRICAL INDUSTRIES (INDIA) PRIVATE LTD.—United India Life Bldg., Connaught Place, New Delhi. (See Commercial Firms in New Delhi).

TRANSPORT COMPANIES

Bharat Transport Co.—Naya Bazar, Delhi.
First National Transport Co.—Naya Bazar, Delhi.
Goods Transport Co.—Naya Bazar, Delhi.
Green Bus Ltd.—Church Mission Road, Delhi.
Ittad Motor Transport Ltd.—Fatehpuri, Delhi.
Jaggi Oberoi Transport Co.—Naya Bazar, Delhi.
Jai Motor Transport Co.—Naya Bazar, Delhi.
Lyallpur Doabi Transport Co.—Naya Bazar, Delhi.
New Golden Transport Co. Ltd.—Roshanara Road, Delhi.
New India Transport Co. Ltd.—Roshanara Road, Delhi.
Prem Nath Transport Co. Ltd.—Connaught Circus, Delhi.
Ravi Goods Transport Co.—Naya Bazar, Delhi.
Royal Goods Transport Co.—Naya Bazar, Delhi.
Simla Hills Transport & Service Ltd.—Connaught Circus, Delhi.
Vir Bharat Motor Transport Co.—Naya Bazar, Delhi.

TRAVEL AGENTS

ORIENT EXPRESS CO. PRIVATE LTD., THE.—70, Janpath, New Delhi 1. Phones: 48156 & 44014. Grams. "OREXPRESCO."

TRUNK MFRS. AND DEALERS

Bharat Hardware Mfg. Co.—Naya Bazar, G. B. Road, Delhi
Dayal Trunk Factory.—Naya Bazar, G. B. Road, Delhi.
General Trunk Manufacturers.—Naya Bazar, G. B. Road, Delhi
Harnamdas Gumanlal.—Naya Bazar, G. B. Road, Delhi.
Isardas Tillaram (of Multan).—Naya Bazar, G. B. Road, Delhi.
Kartarsing & Sons, S. (of Rawalpindi).—Naya Bazar, G. B. Road, Delhi.
Khalsa Trunk Factory.—Naya Bazar, G. B. Road, Delhi.
Lajpatrai (Lahorewala).—Naya Bazar, G. B. Road, Delhi.
L. Chanuram Vazirchand.—Naya Bazar, G. B. Road, Delhi.
Lunidaram Mulchand.—Naya Bazar, G. B. Road, Delhi.
National Trunk Factory.—Naya Bazar, G. B. Road, Delhi.
Quetta Steel Trunk Factory.—Naya Bazar, G. B. Road, Delhi.
Ramlal Banarsilal.—Naya Bazar, G. B. Road, Delhi.
Sardar Fateh Singh Harnamsing (Lyallpurwala).—Naya Bazar, G. B. Road, Delhi.
Sardar Gulabsing Ramsingh.—Naya Bazar, G. B. Road, Delhi.
Seth Gandaram Basantlal.—Naya Bazar, G. B. Road, Delhi
Sham Singh (of Jhelum).—Naya Bazar, G. B. Road, Delhi.
Western Vijay Industries Co.-op. Society Ltd.—Naya Bazar, G. B. Road, Delhi.

TYPEWRITERS

Allied Typewriters.—F-42, Connaught Place, New Delhi
Associated Typewriters.—1, Tindal House, D.A.G. Extension, Delhi
Continental Commercial Co. Ltd.—M-42, Connaught Circus, Delhi
GODREJ. Godrej & Boyce Mfg. Co., Private Ltd.—2, Y Gate Extension, New Delhi.
India Typewriting Co.—1804, Chandni Chowk, Delhi 6
Pioneer Typewriter Co.—Hotel India Bldg., Queen's Garden, Delhi
Remington Rand of India Ltd.—D. A. G. Extension, New Delhi
Smith & Co.—276, Irwin Road, New Delhi.

WASHING AND DYEING COMPANIES

Eclipse Dry Cleaning Co.—Next to Spencers, New Delhi.
Friends Dyers and Dry Cleaners.—Pahargunj, Main Bazar, New Delhi
Klenwel.—Connaught Circus, New Delhi.
Multan Fancy Laundry (of Multan).—Lahori Gate, G. B. Road Delhi
Novex Dry Cleaners, Dyers and Carpet Cleaners.—12C, Connaught Place, New Delhi.
Paris Laundry.—Multani Dhanda, Pahargunj, New Delhi.
Snow White.—Connaught Place, New Delhi.
Victoria Dry Cleaners.—Punchquin Road, Regal Building, New Delhi
Whiteways, The.—Faiz Bazar, Daryaganj, Delhi.
Young Dyeing Co.—Punchquin Road, Regal Building, New Delhi

WATCHES AND CLOCKS DEALERS

American Watch Co.—Kashmere Gate, Delhi.
Balkishindas & Sons.—Chandni Chowk, Delhi.
British Watch Agency.—Fatehpur, Church Mansion, Chandni Chowk, Delhi.
Bukshiram & Sons.—Chandni Chowk, Delhi.
English Watch Co. (India), The.—Bhagirath Palace, Chandni Chowk Delhi.
Imperial Watch House.—771, Chandni Chowk, Delhi.
Kapadia & Co.—Connaught Place, New Delhi.
Krishna Watch Co.—Pahargunj, Main Bazar, New Delhi.
Lakshminarain & Co.—Chandni Chowk, Delhi.
New Friend & Co. Ltd.—625, Chandni Chowk, Post Box 1310 Delhi 6.

Premier Watch Co.—Chandni Chowk, Delhi.
Puranchand & Co.—Chandni Chowk, Delhi.
Pyarilall Watch Co.—Chandni Chowk, Delhi.
S. B. Electric Company.—Bissumal Colony, Behind State Bank of India, Chandni Chowk, Delhi 6.
Singer Watch Co.—Chandni Chowk, Delhi.
Singha Watch Co.—Pahargunj, Main Bazar, New Delhi.
Swastik Watch Co.—Chandni Chowk, Delhi.
Union Watch Co.—Chandni Chowk, Delhi.

WELDERS (ELECTRIC & GAS)

ASSOCIATED ELECTRICAL INDUSTRIES (INDIA) PRIVATE LTD.—United India Life Bldg., Connaught Place, New Delhi. (See Commercial firms in New Delhi).

WELDING SETS

ASSOCIATED ELECTRICAL INDUSTRIES (INDIA) PRIVATE LTD.—United India Life Bldg., Connaught Place, New Delhi. (See Commercial firms in New Delhi).

WINE & SPIRIT MERCHANTS

Empire Stores.—Connaught Place, New Delhi.
J. Diesh & Co.—Baird Road, New Delhi.
MOHAN BROTHERS.—3, Sadar Thana Road, Delhi 6. Offices at Bombay, Calcutta, Jodhpur and Hyderabad. Also Suppliers of Liquor, Provisions and Cigarettes to Foreign Ships and Embassies in India.
Motandas & Co., T.—4E, Thana Sadar Road, Delhi 6. Head Office: Bombay.
Phipson & Co. Ltd.—Connaught Circus, New Delhi.
Spencer & Co. Ltd.—Connaught Circus, New Delhi.

WOOLLEN PIECE-GOODS

Amarnath Talwar.—Katra Subhash, Chandni Chowk, Delhi.
Glamour.—20/F, Connaught Place, New Delhi.
Guiraj Babulal.—Hiralal Katra, Chandni Chowk, Delhi.
Jankidas & Co.—23/F, Connaught Place, New Delhi.
Joti Persad Bheshmdas.—Kartar Choban, Chandni Chowk, Delhi.
Kashmir Svadeshi Store.—771, Chandni Chowk, Delhi.
Kundanlal Girdharilal.—Katar Choban, Chandni Chowk, Delhi.
Lakhmichand Matwalchand.—Katra Subhash, Chandni Chowk, Delhi.
Lalimli Woollen Mills Depot.—Nai Sarak, Delhi.
Mamman Lal.—Pahargunj, Main Bazar, New Delhi.
Novex.—Cloth Merchants. 12C, Connaught Place, New Delhi 1.
Ragubeer Sharan Rakesh Kumar.—771, Chandni Chowk, Delhi.
Royal Stores.—Lady Hardinge Road, New Delhi.
S. Bahadur Bros.—771, Chandni Chowk, Delhi.
Siri Kanth Banwari Lal & Co.—Dua Bldg., 2160, Bahadur Garh Road, Delhi 6.
Sohanlal Prem Narain Jain—V, 57, Chandni Chowk, opp. Central Bank, Delhi.
Style.—13-E, Connaught Place, New Delhi.

HIMACHAL PRADESH

Area: 10,904 sq. miles; Population: 11,09,466; Capital: Simla; Strength of Territorial Council: 41.

The centrally administered territory of Himachal Pradesh comprises 22 former Punjab Hill States and their 9 tributaries. The 22 States are Baghal, Baghat, Balsan, Bilaspur, Bushahr, Bhajl, Bija, Chamba, Darkoti, Dhami, Jubbal, Keonthal, Kumarsain, Kunihar, Kuthar, Malhog, Mandi, Mangal, Sangri, Sirmur, Suket and Tharoch.

The 9 tributaries are Delath, Dhadi, Ghund, Khanet, Koti, Madhan, Ratesh, Rawingarh and Theog.

The State came into being on April 15, 1948; the consolidation was achieved with the full agreement and support of the Rulers and the people.

Bilaspur was merged into Himachal Pradesh on July 1, 1954.

Himachal Pradesh lies between North Latitude 30° 30′ and 33° 10′ and East Longitude 75° 55′ and 79° 50′. It is bounded on the north by the Jammu and Kashmir State, on the south by Tehri-Garhwal and Dehra Dun Districts of Uttar Pradesh and the Ambala District of Punjab; on the west by Ambala, Hoshiarpur and Kangra. On the east the boundaries are undefined.

The Territory is divided into five administrative districts, Mahasu, Sirmur, Mandi, Chamba and Bilaspur.

Mahasu District has a population of (1951) 330,614 (Rural 322,616; Urban 7,998) and is divided into the following tehsils: Rampur, Rohru, Chini, Jubbal, Chopal, Theog, Arki, Solan and Kasumpti and the sub-Tehsils of Kumarsain, Suni and Kotkhai. 312,761 persons out of the total population are agriculturists.

Sirmur District has a population of (1951) 166,077 (Rural 155,700; Urban 10,377) and is divided into four Tehsils, Nahan, Pachhad, Rainka and Paonta. 147,144 persons out of the total population depend upon agriculture.

Mandi District has a population of (1951) 310,626 (Rural 294,458; Urban 16,168) and contains the Tehsils of Sadar, Mandi, Karsog, Sundernagar, Joginder nagar, Sarkaghat and Chachiot. 286,763 persons out of the total population depend upon agriculture.

Chamba District has a population of (1951) 176,050 (Rural 169,192; Urban 6,858) and is divided into the Tehsils of Chamba, Chura and Bhattiyat. 167,570 persons are agriculturists.

Bilaspur District has a population of (1951) 126,099 (Rural 122,354; Urban 3,745). It lies on both the banks of the Sutlej River and is divided into two tehsils Bilaspur and Ghumarwin. Agriculture is the main occupation of the people, 114,898 persons being agriculturists.

ECONOMY

The main agricultural wealth of the Territory consists in potatoes and fruits such as apple, peach, almond, nuts, pomegranate.

The climatic conditions in this Territory are suitable for the growing of a large variety of fruit. Citrus and stone fruit is confined to the valleys and warmer places, while some fruit apples, pears are grown in the cooler regions. The finer variety of apples which was restricted to a few progressive areas like Kotgarh and Kotkhai is now grown extensively all over the Territory. At present about 50,000 maunds of apples are exported to various parts of India. With the new plantation coming up, the production of fruit will increase considerably.

Salt is another important item; while forests yield timber, fire-wood and charcoal. Handicrafts which include Pashmina shawls, wool of fine quality, resin, herbs, musk and skins are a third source of income.

Himachal Pradesh forests supply the largest quantities of coniferous timber in Northern India. They are the main source of revenue in the Territory, the estimated revenue during 1956-57 being Rs. one crore. The forests are also useful in ensuring the safety of the catchment areas of the Jumna, Sutlej, Beas, Ravi and Chenab rivers. On the protection of these catchment areas depends the steady and constant flow of water in these rivers, and the success of irrigation and engineering works in the plains. For purposes of forest utilization the Territory has been divided into twelve territorial forest divisions, viz., Chamba, Churaha, Mandi, Nauchan, Suket, Jubbal, Simla, Solan, Nahan, Rajgarh, Upper and Lower Bushahr.

Seed potato is the chief cash crop. The Territory has established itself as a vital source of potatoes, especially seed potatoes, for the plains of India. It exports nearly 12 lakh maunds of potatoes annually out of which over 5½ lakh maunds are directly utilised as seed potatoes.

There is a resin and turpentine factory at Nahan.

Five year plan investment for 1958-59: Rs. 5·8 crores The total investment for the whole plan: Rs. 14·72 crores.

For 1958-59, budget estimates provided for revenue receipts of Rs. 265·89 lakhs and expenditure Rs. 762·77 lakhs, thus showing a deficit of Rs. 496·88 lakhs. The Union Government later imposed a cut of Rs. 52 lakhs in the estimates.

JAMMU AND KASHMIR STATE

Area : 85,861 sq. miles; Population: 4·41 millions (1951); Capital : Srinagar.

Official language : Urdu ; Regional languages : Kashmiri, Dogri, Balti, Dardi, Punjabi, Pahari, Ladakhi. There are 33 local bodies, three municipalities, 26 town area committees and four notified area committees in the State.

The State has now a Legislative Assembly (100 including 25 for occupied areas) and a Legislative Council (36).

For administrative purposes, the State is divided into two provinces : Kashmir (including the Frontier District) and Jammu.

Districts : in Kashmir Province : Srinagar, Baramulla, Anantnag and the Frontier District of Ladakh ; in Jammu Province : Jammu, Kathua, Udhampur and Doda.

Names of districts showing within brackets the names of tehsils and the population of each tehsil:

Kashmir Province : Srinagar (Srinagar City 230,000 ; Khas 128,000 ; Badgam 181,000) ; Baramulla (Baramulla 141,000 ; Sopore 165,000 ; Handawara 184,000 ; Uri and Karnah 53,000); Anantnag (Anantnag 231,000 ; Kulgam 193,000 ; Pulwama 173,000) ; Ladakh (Ladakh 37,000 ; Kargil 43,000).

Jammu Province : Jammu (Jammu including Jammu City 189,000 ; Samba 66,000 ; Akhnoor 81,000 ; Ranbirsinghpora 67,000) ; Kathua (Kathua 49,000 ; Jasmirghar 41,000 ; Basoli 75,000) ; Udhampur (Udhampur 50,000 ; Ramnagar 63,000 ; Reasi 97,000) ; Doda (Kishtwar 65,000 ; Bhaderwah 59,000 ; Ramban 92,000).

The Jammu and Kashmir State constituting the extreme western section of the Himalayas, lies between 32°17′ and 36°58′ north latitude, and 73°26′ and 80°30′ east longitude. The total area of the State is 84,471 sq. miles and the population 4,410,000 with an average density of 48 per sq. mile.

Non-Muslims form about 23 per cent of the total population—a percentage slightly higher than the one which Muslims formed in India before the partition. Culturally both Muslims and Hindus belong to the same group. Consequently, they speak the same language and have common customs and conventions, and sometimes even places of common worship.

About 10·3 per cent of the total population is urban. There are 2 cities, 37 towns and 6,740 villages in the whole State.

A double tube 1½ miles long low level tunnel the Jankhir Tunnel, was bored through the mountain of Banihal and traffic has been allowed through one of its tubes from 1957. The tunnel has provided an all weather link between Kashmir Valley and the outside world.

In recent years, the State has made all round progress. To give a fillip to State trade, a net work of Kashmir Arts & Crafts Emporia has been established in important cities in India. These account for Kashmir goods worth about Rs. 32 lakhs annually. The State owns a transport fleet of nearly 500 vehicles. Distribution of essential commodities within the State is made mostly through multi-purpose co-operative societies. This has resulted in all areas of the State being fully served with essential supplies and elimination of the black market. In the matter of literacy, the State is well ahead of many former Princely States, with a University of its own established in 1949. In 1957-58, there were about 2,800 Government educational institutions in the State including 12 colleges. A Kashmiri script has been evolved for the first time in history. Text books in Kashmiri have been introduced in elementary schools.

The State occupies an important position in the political geography of India as it has common frontiers with China, the U.S.S.R., Pakistan and Afghanistan.

AGRICULTURE

Kashmir State has a delightful climate, though winter months are very cold. The maximum recorded temperature of the Kashmir Valley is 99·3 degrees and the minimum 11°. In Jammu the temperature in summer goes upto 115°, or sometimes even higher, but comes down to 30° and even to 20° during winter in some parts of the State. The average rainfall for the whole of the State is 28·45".

Forests hold an important place in the economy of the State. They yield fine wood of many varieties, medicinal herbs and also provide game and fodder for the cattle. The forest operations do not extend to the Frontier Province which forms three-fourths of the total area of the State. In the two remaining provinces, 11,058 sq. miles or about 50 per cent of their total areas constitute forest land.

The oldest forest industry is that of rosin and turpentine. In 1955-56, 52,927 maunds of rosin and 108,875 gallons of turpentine were manufactured in the factory and the income from sales amounted to about Rs. 19 lakhs.

Agriculture is the main occupation of the people. But the soil is not very fertile. Only 3·6 per cent of the total area is cultivable, and the remaining portion is full of mountains and deserts. The total amount of land actually under cultivation in the State is 2,069,767 acres. The main crops grown are rice and maize, and in Jammu wheat and maize. The State on the whole is deficit with regard to food supply.

The total area of the State in acres is 54 million. Out of this the culturable area today would be of the order of 2·1 million acres. The area under irrigation in 1955 was 744,000 acres.

With the completion of several new irrigation canals and lift irrigation projects 47,225 acres of land were brought under cultivation. In the Second Plan an additional acreage of 1·44 lakh acres is expected to come under cultivation and food production to increase by 15 lakh maunds.

The State has three development blocks under the Community Projects programme, one at Badgam in Kashmir, one at Mansar in Jammu and the third in Ladakh where it covers the whole district. The three blocks cover about 579 villages and a population of 1·75 lakhs. The projects cost Rs. 20 lakhs (Badgam), Rs. 20 lakhs (Mansar), Rs. 10 lakhs (Ladakh).

There are also ten National Extension Blocks.

By the end of the Second Plan the entire State will have been covered by NES Blocks — 37 in number.

The Government passed the 'Big Landed Estates Abolition Act' in 1951, by virtue of which the right of ownership held by a landlord owning more than 22½ acres was extinguished without compensation and was thereafter vested in tillers of such lands. In pursuance of this Act, the Government distributed the land held by big landlords (as defined in the Act) among the tillers and thus landlordism, to a large extent, was abolished in the State. 8,989 persons held more than 22½ acres each and together accounted for 900,000 acres. The area of land from which expropriation took place without compensation was 4·5 lakh acres. About 2·3 lakh acres of land were transferred in ownership right to about 2 lakh tillers with more than 7 lakh dependents. Land vested in the State amounted to 2·2 lakh acres.

The Land Compensation Committee appointed by the Constituent Assembly presented its report to the Assembly in the last week of March 1953. The Constituent Assembly accepted its recommendations and unanimously passed a resolution on March 31, 1953, that no compensation be paid for land expropriated under the Big Landed Estates Abolition Act.

Debt claims upto nearly Rs. 175 lakhs were conciliated by the various Debt Conciliation Boards (set up under the Distressed Debtors' Relief Act) and scaled down to Rs. 85 lakhs. This freed the peasantry from the age old burden of the money lending agencies. In August 1953 the system of Mujwara (forced levy) was abolished making the peasant free to sell his surplus produce to the Government whenever he chose to do so.

The Government has started a new land settlement drive beginning with Baramulla and Poonch districts.

INDUSTRY, MINERALS

Woollen textile manufacturing is the biggest single industry in the State. It gives employment to about 800,000 people, including both part-time and whole-time workers. Kashmir woollens, such as shawls, carpets, namdas and gabbas have a world-wide popularity. During the 18th and 19th centuries especially Kashmir shawls had a wide demand in England, and, as it was expressed at the time, 'adorned the proudest beauties in Europe and the rest of the world.'

Next in importance comes the silk industry. Kashmir filatures are the largest in the world for a single unit of production, and produce one of the finest quality silks.

Silk worm rearers number about 60,000. The total number of persons employed would be over 100,000 and the number dependent on the silk industry would be about a million. The industry is run by a Government department.

A joinery mill has been set up in Kashmir. The factory is a unique venture, as very few such industries exist outside Europe and North America. The factory has an installed capacity for the manufacture of 36,000 doors and 36,000 windows which on an average should mean a turn-over of goods worth Rs. 35 lakhs per year.

Two other factories set up are a tannery and a carpet factory.

Papier-mache, silver-ware, and wood-carving are among the other minor industries of the State.

The industrial co-operatives include carpet weaving, pashmina weaving and embroidery chain stitch weaving, tapestry weaving, wood carving and papier-mache. The total value of the goods sold by the Induscos in one year is about Rs. 3 lakhs.

Production centres of calico printing, khadi, wooden articles, hand made paper etc have been recently started at various places in both the Provinces.

The production of some industries is given below : Government woollen mills (1955-56) : Yarn, 3,84,945 lbs. ; cloth, 2,03,892 yds ; total sales : Rs. 12,50,242.

Sericulture (Government) (1954-55) : Raw silk, 3,45,340 lbs. ; bye-products, 1,27,898 lbs.

Drug Research Laboratory (1955-56) : Spirituous, non-spirituous ampoules, tablets, etc., value Rs. 6,84,200.

Government Silk Weaving Factory (1955-56) : Georgette crepe, 3,29,870 yds, value Rs. 14,84,415.

Government Joinery Mills (1955-56) : Windows, doors, flooring, ceiling, sales Rs. 3 lakhs.

Match Factory, Baramulla (1954-55) : Gross boxes of matches 92,265, value Rs. 5,88,189-0-0.

Tanneries (Government) (1956-57) : Leather goods, 1,200 mds. of tanned hides, 2,000 pairs of shoes ; Sales Rs. 1,10,200.

Other particulars about industry are given below. The first figure shows the number of factories and the second, where available, the number of workers in that industry.

Woollen : 1, 495 ; Silk : 17, 2,913 ; Transport workshops : 2, 229 ; Press : 4, 269 ; Oil Mills : 3, 73 ; Flour mills : 2, 59 ; Match industry : 1, 98 ; Fruit canning : 1, 150 ; Rosin and turpentine : 1, 73 ; Sports : 1, 100 ; Drug manufacturing : 2, 135 ; Timber industry : 1, 250 ; Wood : 1, not available ; Cold storage : 1, 25 ; Carpets : 2, 270 ; Electric workshops : 2, 25 ; Saw mills : 2, 20 ; Iron and Steel : 2, 47 ; Water works : 1, 60.

The total no. of factories in the State : 47. Total labour : 5,060.

Number of workers in the main cottage industries are given below :

Raffugari : 3,554 ; Jalakdozi : 1,858 ; Carpets : 1,703 ; Numdah : 599 ; Wood carving : 1,088 ; Pashmina : 801 ; Papier Mache : 296 ; Gubba : 442 ; Fur : 182 ; Handloom weaving silk : 3,000 ; Zarikari and tapestry : 683 ; Metal and silver : 125 ; Willow works : 200.

Total no. of workers in cottage industries: about 14,430.

Woollen manufactures, silks, forest products such as timber, herbs, some chemicals, furs and skins, and fruit and vegetables are the main items of export, whereas foodstuffs, textiles, sugar and tea, spices and hardware form the main imports into the State.

The following is a list of the minerals found in the State: Coal, Lignite (possibilities of petroleum), Bauxite, Iron ore, Copper ore, Lead, Zinc, Nickel ore, Manganese, Gold, Arsenic, Chromite, Ochre, Gypsum, Graphite, Kaoline, Bentonite, Fuller's Earth, Marble, Slate, Steatite, Terpentine, Barytes, Corrundum (Sapphire and Ruby), Beryl and Aquamarine and Tour-mallin. There are other minerals too, suitable for glass manufacture. But it is not known, whether the exploitation of all these minerals is an economic proposition. Coal, Lignite and Iron ore are supposed to be in existence in fairly large quantities.

Tertiary coal deposits in Jammu occupy an important position in the economy of north India. The two fields are Jangal Gali about 40 miles from Jammu and Kalakot about 75 miles from Jammu.

The total labour force at Jangali is 125 and the target of production 5,000 tons. The total labour force at Kalakot is about 80 and the target of production 5,000 tons.

Soap stone, barytes and China clay are worked by the Mining Department of the State and products sent to the Government Paint and Mineral Factory at Jammu. The total production during 1956 was 100 tons. Number of workers, 15.

The sapphire mines are about 200 miles from Jammu and are not worked at present. Applications for leasing out were under the consideration of the Government.

Gypsum deposits occur in areas 75 to 100 miles from Jammu. A Plaster of Paris factory is being established by private business men.

The bentonite deposits which occur about 40 miles from Jammu are not worked at present. In the past a few hundred tons were raised every year. There are plans for re-starting the mines.

Power Schemes: During the First Five-Year Plan, the Rs. 2·30 crore Sindh Hydro-electric Project was completed and the production of electric power increased from 4,850 kWs. to 7,950 kWs. Besides, 1,500 kWs. were purchased from the Punjab Government. In the Second Five-Year Plan 17,800 additional kWs. of energy will be generated. Out of this about 16,000 kWs. will be utilified in industry.

The purchase of power from Jogindernagar, Punjab to the tune of 1,500 kWs., has improved the power position in Jammu. Samba and Kathua in the Jammu Province have also been electrified.

Tourist traffic is one of the main sources of income both to the State and the people. It is estimated that before the trouble started in Kashmir, about 40,000 people used to visit that place annually, spending about Rs. 1,80,00,000 during their stay of a few months in the Valley. Great efforts are now being made by the State to develop this traffic to the maximum possible extent.

During 1956-57, the number of tourists who visited the State touched the record figure of 70,000. This is more than a four-fold increase in the number of visitors who came to the State in 1947.

To further stimulate tourist traffic, a Reception Hall at Srinagar and a number of Dak Bungalows at various places have been built, and more beauty spots are being opened up.

The new Banihal Tunnel which has been thrown open to traffic, will, besides, making a profound influence on the economy and social life of Kashmir, give a fillip to tourist traffic in the winter also as the road will no longer be snow-bound.

EDUCATION

Education was declared free throughout the State from Primary to the University stage, in the year 1953. This has resulted in an increase of about 70 per cent in the budget for education. Over 1·5 lakh students have benefited by this reform.

Before the First Plan came into operation, the State had 4 colleges, 27 high schools, 170 middle schools and 1,466 primary schools. During the First Plan period 5 colleges, 3 training schools, 29 high schools, 48 middle schools, 76 central schools, 590 primary schools, 90 Maktabas and Pathshalas, and 13 lower high schools were established and the status of a number of institutions was raised. In 1957 a Polytechnique was also opened at Srinagar.

During the Second Plan period it has been decided to establish 1,500 basic schools, six post-matric training schools, 2 post-graduate colleges for women, and a college for physical education. Besides, 50 primary schools will be converted into Basic Activity schools, 40 middle schools into high schools, 20 high schools into higher secondary schools, 10 secondary schools into higher secondary schools and 4 inter-colleges into degree colleges. One M.Ed. class will also be started.

The following figures relate to 1956-57:

The no. of primary schools for boys: 1,671; for girls: 299. No. of boys on roll in primary schools: 75,618; of girls: 13,700.

The no. of middle schools for boys: 225; for girls: 35. The no. of boys on roll in middle schools: 37,500; of girls: 5,584.

The no. of high schools for boys: 86; for girls: 23. The no. of boys on roll in high schools: 39,354; of girls: 10,749.

The no. of men teachers in primary schools: 1,849; of women teachers: 340.

The no. of men teachers in secondary schools: 2,822; of women teachers: 576.

ROAD DEVELOPMENT

In respect of means of communication the State was very backward having a very poor road system. Before the Plan was taken in hand there were 2·5 miles of road per 100 sq. miles and only one mile of road per 2,000 of population. There were only 1,600 miles of motor road, 427 miles of jeep track and 2,400 miles of bridle path.

During the Plan Period, 425 miles of new road were constructed, 482 miles of existing roads improved and over 20 major bridges of 7,000 ft. aggregate length constructed.

In the Second Plan the target set is construction and development of 820 miles and upgrading of 740 miles of roads and the building of 19 major bridges.

PUBLIC HEALTH

At the end of the First Five Year Plan period the State had 2 central hospitals, 2 chest disease hospitals, 8 district hospitals, 18 first class dispensaries, 74 second class dispensaries, 127 unani and ayurvedic dispensaries, 2 central laboratories, 2 sanatoria and one T.B. clinic.

Mass campaigns against malaria, typhus and venereal diseases were also launched successfully in various parts of the State.

In the Second Plan period, the bed strength of hospitals would be raised to 600, and 16 more dispensaries will be opened. A medical college will also be established.

The bed strength in the State Central Hospitals is 450, in the tuberculosis department 200. The eight district hospitals have a bed strength of over 80.

CO-OPERATION

The figures relate to 1956-57:

The total no. of societies: 842; no. of members: 160,244, working capital: Rs. 15,350,802.

The table below gives the details:

Name	Number of Societies	Members	Working Capital
Multi-Purpose Societies	620	138,483	3,765,788
Urban Credit Societies	123	3,265	637,729
Central Co-operative Bank	4	2,410	2,083,303
State Co-operative Bank	1	974	2,856,837
Fishermen's Co-operative Societies	1	178	13,397
Milk Society	1	180	—
Supply and Sale Societies	77	11,176	2,762,436
Provincial Supply and Marketing Societies	1	89	2,503,604
Farming Societies	3	230	7,250 (Loan)
Indusco	7	1,480	268,270 (Goods manufactured)
Forest Labourers Co-operative Societies	1	707	180,578
Processing of Hides and Skin Societies	1	20	227,017 (Goods processed)
Transport Workers Co-operative Societies	2	1,082	44,593 (Share capital)

Figures for 1955-56:

Deposits in Central and District Banks: Rs. 16,52,116; Other funds and reserve: Rs. 4,68,269; Paid-up: Rs. 3,22,918.

Deposits in J. & K. State Co-operative Bank: Rs. 15,44,064; Share capital: Rs. 10,39,850; Reserve and other funds: Rs. 2,72,919.

About 40 per cent of the families are in the co-operative fold.

BUDGET ESTIMATES FOR 1956-59

Revenue receipts : Rs. 1,476·93 lakhs.

Revenue expenditure: Rs. 1,390·39 lakhs.

Total aid from Centre: Rs. 918 lakhs (For Plan Rs. 430 lakhs, Grant-in-aid etc. Rs. 488 lakhs).

The main sources of income are land revenue, forests, profits of silk reeling (which is a State monopoly), courts, etc., and the main items of expenditure are salaries, public utility works, education, sanitation, irrigation, electricity, etc.

HOUSING

A Housing Board under the Chairmanship of the Prime Minister, Jammu and Kashmir deals with housing schemes in the State.

A sum of Rs. 95,00,000 has been allocated by the Government of India for the Low Income Group Housing and Industrial Housing Schemes under the Second Five-Year Plan.

One hundred and fifty quarters have been built in the newly established townships of Gandhinagar, Jammu (104 quarters), and Jawaharnagar, Srinagar (50 quarters), on Government account. About 150 houses have been constructed for the low-income group in both the townships.

The cost of the building of each class of house is about Rs. 4,500, 3,500, 3,000 and 2,500 respectively as specified for the different classes of loanees.

The buildings are to be constructed according to a plan approved by the Government for the new townships, and according to the plan

approved by the Jammu Municipal Council so far as the construction of flats on private plots is concerned.

The houses are not generally built for renting out.

Loans are issued directly to the loanees. The construction of quarters built on Government account is, however, done through the State P.W.D. also.

FIVE-YEAR PLANS

The Government of the State revised the First Five-Year Plan to meet the genuine requirements and needs of the people. The provision for the Plan was raised from 700·00 lakhs to 973·21 lakhs in the Central Sector and from Rs. 300·00 lakhs to Rs. 300·94 lakhs in the case of the State Sector.

The State's Second Five Year Plan is estimated to involve a total outlay of Rs. 5,067·74 lakhs as against Rs. 1,274·2 lakhs of the First Five-Year Plan. The Plan gives high precedence to the development of agriculture and industry and the expansion of educational and medical facilities. It is estimated that employment opportunities to the tune of 14·85 lakh man-months will be created during the Plan-Period.

POLITICAL DEVELOPMENTS

Kashmir acceded to India on October 26, 1947. Simultaneously, to fulfil one of the conditions of the acceptance of accession by the Government of India, the Maharaja invited Sheikh Mohammad Abdulla, President of the All Jammu and Kashmir National Conference, to form an interim Government, and to carry on the administration of the State. The interim Government later changed into a full-fledged Cabinet, with Sheikh Abdulla as the first popular Prime Minister.

The Maharaja withdrew from the State and handed over power to his 21-year-old son who was to act during his absence as a constitutional ruler. The latter, Yuvraj Karan Singh, formally took over from his father on June 20, 1949.

For the first time in history, the people of Kashmir elected a sovereign Constituent Assembly which met in Srinagar in October-November 1951. The Constituent Assembly had before it four main tasks, (1) to devise a Constitution for the future governance of the country, (2) to decide the future of the ruling dynasty, (3) to decide whether or not compensation should be paid to the landlords whose lands had been transferred to the tillers and (4) to declare its mind on the future affiliations of the State.

On November 20, 1951 was promulgated the Jammu and Kashmir Constitution (Amendment) Act which amended 42 Sections of 78 clauses of the old constitution. By this the State attained complete and unfettered responsible democratic government.

The new enactment transferred power from the ruler to the popular Government and gave legal recognition to the principle of full, responsible Government which, in theory only, was enforced by the Maharaja's proclamation of March 5, 1948.

Independence of the judiciary was fortified further by extending the normal tenure in keeping with the law in other parts of India. The Board of Judicial Advisers was retained.

The enactment also amended the oaths of office for Ministers and Judges. Unlike the old oath, under which one had to swear and owe allegiance to the Maharaja, his heirs and successors, the new one specified allegiance to " the Constitution of the State as by law established."

The amended Constitution authorised the Constituent Assembly to convert itself or set up another body to discharge the functions of the State Legislature until a new one was elected. The Government would be collectively responsible to that Assembly which would be unrestricted in its powers. The Legislature would have the right to legislate for all parts of the State, even Azad Kashmir. The Government was given extra territorial jurisdiction not enjoyed by any other State in India.

The Constituent Assembly set up a Basic Principles Committee, a Fundamental Rights Committee and Land Compensation Committee.

The recommendations of the Basic Principles Committee led to the abolition of hereditary rule in the State.

The Constituent Assembly also adopted unanimously the report and recommendations of the Land Compensation Committee.

The Constituent Assembly then adopted a flag and emblem for the State.

In February, 1954 the Constituent Assembly ratified the decision of the State's accession to India, adopted in October, 1947.

On the recommendation of the State Constituent Assembly, the President of the Union of India issued on May 14, 1954 the Constitution (Application to Jammu and Kashmir) Order, 1954.

Some of the broad features of the Presidential Order were: No action can be taken by the Union Parliament for increasing or diminishing the area of the State or altering its name without the consent of the State Legislature.

Permanent residents of the State who after having migrated to Pakistan, return to the State under a proper permit for resettlement, shall be deemed to be citizens of India.

Discrimination on grounds of religion, race, caste, sex or place of birth has been prohibited and the State Legislature has been granted the right to make special provisions for the advancement of socially and educationally backward classes of citizens.

All citizens living within the territory of Jammu and Kashmir State have the right to freedom of speech and expression, to assemble peaceably and without arms, to form associations or unions, to move freely throughout the territory of India or to settle in any part of the Union, to acquire or dispose of property and to practise any profession.

The people of the State were granted the right to move the Supreme Court by appropriate proceedings for the endorsement of the Fundamental Rights. No existing law in force in the State of Jammu and Kashmir and no law enacted by the State Legislature in future, defining the classes of persons who are permanent residents of the State Government, acquisition of immovable property in the State, settlement in the State, or right of scholarships, etc shall be affected by any provision of the Union Constitution.

Sheikh Mohamad Abdullah was put under detention in Aug. 1953, was released on Jan. 8, 1958 and was again arrested on May 1, 1958.

CONSTITUTION

The task of constitution making entered a decisive phase when on October 10, 1956 the Drafting Committee presented the Draft Constitution to the Constituent Assembly.

The Assembly discussed the Draft Constitution for more than a month.

The Constitution was finally approved and adopted unanimously on November 17. It came into effect on January 26, 1957.

The Constitution declares the State of Jammu and Kashmir to be "an integral part of the Union of India."

The territory of the State will comprise all the territories which on August 15, 1947, were under the sovereignty or suzerainty of the Ruler of the State.

The executive and legislative power of the State will extend to all matters except those with respect to which Parliament has powers to make laws for the State under the provisions of the Constitution of India.

The Directive Principles of the Constitution lay down that the prime object of the State should be the promotion of the welfare of the mass of the people by establishing and preserving a socialist order of society wherein all exploitation of man has been abolished and wherein justice—social, economic and political—inform all the institutions of national life.

Every person who is, or is deemed to be, a citizen of India shall be a permanent resident of the State, if on the 14th of May, 1954 he was a State subject of Class I or of Class II or having lawfully acquired immoveable property in the State, he has been ordinarily resident in the State for not less than 10 years prior to that date. Any person who, before the fourteenth day of May, 1954, was a State Subject of Class I or of Class II and who, having migrated after the first day of March, 1947, to the territory now included in Pakistan, returns to the State under a permit for re-settlement in the State or for permanent return issued by or under the authority or any law made by the State Legislature will on such return be a permanent resident of the State. The permanent residents will have all the rights guaranteed to them under the Constitution of India.

The Constitution lays down that the Executive of the State should consist of the Sadar-i-Riyasat who will be elected by a majority of the total membership of the Legislative Assembly. He will hold office during the pleasure of the President. The executive power of the State will be vested in him and shall be exercised by him. The Sadar-i-Riyasat will hold office for a term of five years.

The Council of Ministers will be collectively responsible to the Legislative Assembly. The Prime Minister will be the head of the Council of Ministers.

The Legislature of the State will consist of the Sadar-i-Riyasat and two Houses, to be known respectively as the Legislative Assembly and the Legislative Council. The Legislative Assembly will consist of one hundred members chosen by direct election from territorial constituencies in the State.

Twenty-five seats in the Legislative Assembly will remain vacant to be filled by representatives of people living in Pakistan-occupied areas of the State.

The Legislative Council will consist of 36 members. Eleven members will be elected by the members of the Legislative Assembly from amongst persons who are residents of the Province of Kashmir, provided that of the members so elected at least one shall be a resident of Tehsil Ladakh and at least one a resident of Tehsil Kargil, the two outlying areas of the State. Eleven members will be elected by the members of the Legislative Assembly from amongst persons who are residents of the Jammu Province. Of the remaining 14 members, 6 will be elected by various electorates, such as municipal councils, educational institutions, etc., 2 will be elected by Panchayats and such other local bodies and 6 will be nominated by the Sadar-i-Riyasat.

The fixation of parity in membership of the Legislative Council as between Kashmir and Jammu is very significant and important as the population of Kashmir is much larger than that of Jammu.

The High Court of the State will consist of a Chief Justice and two or more other judges. Every judge of the High Court will be appointed by the President after consultation with the Chief Justice of India and the Sadar-i-Riyasat, and in the case of appointment of a judge other than the Chief Justice, the Chief Justice of the High Court.

There will be a Public Service Commission for the State. The Commission along with its Chairman will be appointed by the Sadar-i-Riyasat.

The superintendence, direction and control of the preparation of the electoral rolls for the election will be vested in an Election Commissioner appointed by the Sadar-i-Riyasat. There will be one general electoral roll for every territorial constituency and elections will be on the basis of adult franchise.

Every member of the civil service or one holding a civil post will hold office under the pleasure of the Sadar-i-Riyasat.

The official language of the State will be Urdu, but English will, unless the Legislature by law otherwise provides, continue to be used for all official purposes of the State.

There will be an Academy of Arts, Culture and Language in the State where opportunities will be afforded for the development of art and culture of the State and for the development of its languages.

The Constitution can be amended by the introduction of a Bill in the Legislative Assembly and passed in each House by a majority of not less than two-thirds of the total membership of that House. But no Bill or amendment seeking to make any change in the provisions relating to the relationship of the State with the Union of India, the extent of executive and legislative powers of the State or the provisions of the Constitution of India as applicable in relation to the State shall be introduced or moved in either House of the Legislature.

The emoluments of the Sadar-i-Riyasat will be Rs. 5,500 a month.

Elections : Elections to the new legislature were held in March 1957 under the new Constitution. The National Conference secured 68 seats in the 75 member Legislative Assembly and formed the Government in July 1957.

ADMINISTRATIVE PERSONNEL

(See under 'States Administrative Personnel').

LEGISLATIVE ASSEMBLY

(See under 'General Election').

THE UNIVERSITY OF JAMMU AND KASHMIR

Chancellor : Yuvaraj Karan Singh Ji, Sadar-i-Riyasat.
Pro-Chancellor : Bakshi Ghulam Mohammed, Prime Minister.
Vice-Chancellor : A. A. A. Fyzee.
Registrar : Ghulam Mohammad.
Honorary Treasurer : R. L. Gupta, Accountant General.
Deputy Registrar : S. Bhagat Singh.

Deans of Faculties :

Arts : S. L. Pandit; *Science :* Ghanashyam; *Oriental Learning :* G. N. Mattoo; *Education :* Agha Ashraf; *Commerce :* M. L. Shandilya.

Number of affiliated colleges : 25.

Number of students who appeared for the previous examinations in 1956 : Men 8,110; Women 1,938.

Budget for 1957-58 :
Income : Rs. 4,33,380.
Expenditure : Rs. 6,10,305.
Govt. grant : Rs. 50,000.

COLLEGES

Amar Singh College, Srinagar.
Sri Pratap College, Srinagar.
Govt. Women's College, Srinagar.
Gandhi Memorial College, Srinagar.
Govt. Gandhi Memorial Arts College, Jammu.
Govt. Gandhi Memorial Science College, Jammu.
Govt. Women's College, Jammu.
T. T. College, Srinagar.
T. T. College, Jammu.
S. P. M. Rajput Commerce College, Jammu.
Govt. Inter College, Anantnag, Kashmir.
Govt. Inter College, Sopore, Kashmir.
St. Joseph's College, Baramulla, Kashmir.
Govt. Inter College, Bhadarwah.
Govt. Inter College, Poonch.
Jamia Madinatul Uloom, Hazratbal.
Mahila Maha Vidyalaya, Srinagar.
Government Oriental College, Srinagar.
Shri Rugh Nath Sanskrit Mahavidyala, Jammu.
Rupa Devi Shardha Peeth, Srinagar.
Vishwa Bharti Girls College, Rainawari, Srinagar.
Hindu Kanya Maha Vidyalay, Chinkral Mohalla, Srinagar.
Sanatan Dharm Kanya Vidyalaya, Jammu.
Vidya Peeth Mahila Oriental College, Jammu.
Nusrat-ul-Islam Oriental College, Srinagar.

ASSOCIATIONS

BEOPAR MANDAL
Sri. Ranbir Ganj, Srinagar 2.

President : Haji Abdul Aziz Mir; *Vice-President :* L. Girdhari Lal; *O. Secretary :* A. N. Saraf.

KASHMIR CHAMBER OF COMMERCE
Srinagar.

President : Jai Dev; *Vice-President :* S. K. Kaul; *Secretary :* G. R. Mattoo.

KERALA

Area : 15,035 sq. miles.

Total population : 13,549,118 (1951 Census).

Capital : Trivandrum.

Names of Districts with names of District Headquarters within brackets: Trivandrum (Trivandrum); Quilon (Quilon); Kottayam (Kottayam); Alleppey (Alleppey); Trichur (Trichur); Cannanore (Cannanore); Kozhikode (Kozhikode); Palghat (Palghat); Ernakulam (Ernakulam).

Total number of Districts : 9.

POPULATION

Area and population of Districts (the first figures within brackets shows the area in sq. miles and the second figure population) :

Trivandrum District (847; 1,327,862); Quilon District (2,602; 2,966,694); Kottayam District (2,954; 1,783,771); Trichur District (1,072; 2,171,552); Cannanore District (2,759; 1,484,781); Kozhikode District (2,022; 1,957,228); Palghat District (1,974; 1,564,067).

Names of Districts showing the names, area and population respectively of the talukas in each District :

Trivandrum District—Neyyattinkara : 234 sq. miles; 395,205; Trivandrum : 98 sq. miles; 371,091; Nedumangad : 368 sq. miles; 266,424; Chirayinkil : 147 sq. miles; 295,182.

Quilon District—Quilon : 147 sq. miles; 397,760; Kottarakkara : 212 sq. miles; 250,202; Pathanapuram : 413 sq. miles; 171,992; Pathanamthitta : 926 sq. miles; 251,779; Kunnathur : 150 sq. miles; 185,072; Karunagapally : 88 sq. miles; 256,578; Karthikapally : 74 sq. miles; 182,910; Mavelikkara : 111 sq. miles; 231,632; Thiruvalla : 211 sq. miles; 452,462; Ambalapuzha : 147 sq. miles; 326,202; Sherthaly : 123 sq. miles; 254,774.

Kottayam District—Changanachery : 269 sq. miles; 361,454; Kottayam : 214 sq. miles; 343,584; Vaikom : 137 sq. miles; 197,425; Minachil : 279 sq. miles; 279,087; Peermade : 451 sq. miles; 96,289; Devikulam : 667 sq. miles; 86,185.

Trichur District—Cranganur : 17 sq. miles; 54,111; Mukundapuram : 515 sq. miles; 384,935; Trichur : 248 sq. mills; 375,741; Talapilly : 258 sq. miles; 276,262; Chowghat (a).

Cannanore District (a) : Kasargod; Hosdurg; Taliparamba; Cannanore; Kottayam; North Wynad; South Wynad.

Kozhikode District (a) : Badagara; Quilandy; Kozhikode; Ernad; Tirur.

Palghat District (a) : Perintalmanna; Ottapalam; Ponnani; Palghat; Chittur; Alathur.

Ernakulam District—Cochin (a); Kanayannur (a); Parur; 113 sq. miles; 243,112; Kunnathunad; 303 sq. miles; 321,222; Alwaye (a); Thodupuzha : 362 sq. miles; 159,862; Muvattupuzha : 575 sq. miles 259,885.

Strength of the Legislative Assembly : 127 (126 elected and one nominated).

Number of members returned from the State to the Lok Sabha : 18.

Number of members returned from the State to the Rajya Sabha : 9.

Geography : The climate of the whole region is generally temperate and the rainfall heavy. Languages spoken in the State are Malayalam and Tamil.

GOVERNMENT

Kerala is the only State in India ruled by a non-Congress Party. The strength of the party in power, the Communist Party, in the legislature is 64 in a house of 126 members excluding the Speaker, who was also a member of the Communist Party.

The Ministry headed by Mr. E. M. S. Namboodiripad assumed office on April 5, 1957. There is a woman member in the Cabinet Smt. Gouri Thomas.

Soon after the assumption of power the Ministry released all "political prisoners" previously convicted. Some of them were sentenced in murder cases. The Government also reduced the sentences of imprisonment passed on many convicts and decided to commute all death sentences which were pending when the Ministry took office. There were ten of these of which one was in relation to a Communist worker, whose mercy petitions had been rejected by the President of India.

The Government constituted in 1957 an Administrative Reforms Committee with the Chief Minister Mr. E. M. S. Namboodripad as Chairman to inquire into the working of the administrative machinery existing at that time and the systems and procedures under which it was functioning with a view to assessing their adequacy and devising measures for improving the efficiency of the machinery. The Committee was expected to submit its final report before the end of 1957.

New land legislation has been drafted and was expected to be introduced in the budget session of the Assembly. The bill, which is based broadly on the recommendations of the Land Reforms Panel of the Planning Commission, proposes to confer on the permanent tenant ownership rights of the land he tills on payment of purchase price, fix fair rents and a ceiling on land holdings.

The draft bill has been sent to the Union Government for views and comment.

The measure, which is also being circulated for public opinion, seeks to fix the maximum holding at 15 acres of double crop land or its equivalent and draws up maximum and minimum rates of fair rent. Excess lands are to be surrendered to the Government and compensation will be paid.

Land tribunals are to be constituted to fix fair rents.

The cost of production and land revenue tax are to be borne by the tenant.

The quantum of compensation has been fixed at 16 times the annual fair rent or two and two-thirds of the annual gross produce. This is payable in instalments.

Pending legislation, the Government has banned all eviction of tenants. Occupants of Government lands will also not be evicted if they had occupied the lands before April 26, 1957.

The Government of Kerala issued an order on January 7, 1958, empowering the Collectors to compel holders of waste or arable land to cultivate it with food crops either personally or through lessees.

The order called the "Kerala Land Utilisation" Order, 1958, was issued under the Essential Commodities Act of the Centre and with the prior approval of the Central Government.

An experiment, the first of its kind in Kerala, to reconstruct the villages on Sarvodaya lines, was launched on November 24, 1957 with the inauguration by the Governor of Kerala of 27 gram panchayats to take charge of the Gramdan villages around Malayadi, 22 miles from Trivandrum. According to the organisers, over 1,000 families in 30 villages had surrendered their lands and come forward to establish a new social order based on Sarvodaya.

The Kerala Education Bill was passed by the Kerala Legislative Assembly on September 2, 1957 and was sent to the Central Government

(a) Taluk-wise figures not available.

for the President's assent. The Union Home Ministry decided to refer the Bill to the Supreme Court for its opinion on certain controversial clauses of the measure.

The Bill laid down that the teacher's salaries even in private aided schools should be paid by the Government directly. Recruitment of teachers will be by the Public Service Commission. The Bill also seeks to bring about equality in the conditions of service of the teachers in all schools, Government and private. The private schools however have the option to waive Government grants and function only as recognised schools without the regulations regarding recruitment and payment of salaries.

The Supreme Court which gave its opinion on May 22, 1958 held that the power to take over the management of certain schools which the Bill vested in the Government and the provision that no fee should be charged in primary schools offended against the Constitution.

The Government is considering the abolition or reorganisation of District Boards.

BUDGET ESTIMATES FOR 1958-59

Revenue : Rs. 33·62 crores.

Expenditure : Rs. 34·17 crores.

Surplus : Rs. 35·01 lakhs (with new taxes).

KERALA FINANCIAL CORPORATION

The Kerala Financial Corporation was established under the State Financial Corporations Act, 1951, on 1st Dec. 1953, with an authorised capital of Rs. 2 crores divided into 200,000 shares of Rs. 100 each and an issued, subscribed and paid-up capital of Rs. 1 crore divided into 100,000 shares of Rs. 100 each. The Corporation was started with the object of making available long term credits to industrial concerns in Kerala State in need of financial assistance and thereby quickening the pace of industrialisation of the State.

The shares of the Corporation were distributed among the various classes of shareholders as follows as on 31st March, 1957 :—

State Government 60,415 Shares.

Reserve Bank of India 15,000 Shares.

Scheduled Banks, Co-operative Banks, Insurance Companies, Investment Trusts, and other financial institutions 22,540 Shares.

Parties other than those referred to above 2,045 Shares.

Total No. of applications received : 82 ; *Total amount applied for :* Rs. 1,59,62,400 ; *Total No. of applications disposed of :* 75 ; *Total amount of loan sanctioned :* Rs. 1,14,72,800 ; *Total amount disbursed :* Rs. 87,23,350 ; *Total amount of instalments received :* Rs. 10,67,642-11-0.

The Corporation charges an interest on all its loans and advances at the rate of 6½ per cent, subject to a rebate of ½ per cent for prompt repayment of all instalments. Hence the effective rate of interest levied by the Corporation is 6 per cent. It may be mentioned here that the Corporation has received all instalments promptly on the due date or sometimes even earlier. There are, therefore no defaulters.

During the year ended 31-3-1957, the Corporation earned a gross profit of Rs. 5,46,517-9-0. The total expenses during the same period amounted to Rs. 57,704-0-2. After providing Rs. 2,13,754 towards income-tax and corporation tax, and setting apart Rs. 24,441 for the reserve fund, the Corporation had at its disposal Rs. 2,50,618-8-10, whereas the total amount of guaranteed dividend payable by it for the year ended 31-3-1957 was Rs. 3,50,000. The Corporation was therefore obliged to call upon the State Government to give a subvention for the balance of Rs. 99,381-7-2 to make up the guaranteed dividend.

P. K. Krishnankutty Menon (*Chairman*); C. I. Abraham, I.A.S. (Retd.) (*Managing Director, appointed by Government*).

Secretary : C. Nilakanta Menon, B.A.

Chief Accountant : N. Gopinathan, B.A., A.C.A.

INDUSTRIES

Important industries of the State : Coir, textiles, tea, rubber, manufacture of bricks and tiles, cashew nut processing, printing, saw milling including plywoods and manufacture of splints and veneers for matches, rice milling and extraction of oils.

Main large-scale industries of State : Rubber, Plywood, Fertilisers and Chemicals, Rayons, Glass, Paper, Aluminium, Sugar, Cement, Textiles, Rare Earths and Engineering.

State-owned Industrial Undertakings : Travancore Rubber Works, Trivandrum ; Travancore Plywood Industries, Punalur ; Government Press, Trivandrum ; Government Press, Ernakulam ; Government Stamp Manufactory, Trivandrum ; Station Workshop, E.M.E., Cochin, Wellington Island ; Government Engineering Workshops, Trivandrum ; Government Tramway Workshop, Chalakudy ; Government Hydrogen Station Factory, Kozhikode ; Cochin Harbour Workshops, Dry Dock and Power station, Wellington Island ; Kerala Soap Institute, Kozhikode ; Pallivasal Hydro-Electric Generating Station, Chithirapuram ; Indian Rare Earths, Udyogamandal, Alwaye ; Government Oil Factory, Kozhikode ; State Transport District-Garage, Thayakathukara Pakuthy, Alwaye ; State Transport District-Garage, near Boatjetty, Quilon ; State Transport District Garage, Pulamon, Kottarakara ; State Transport District Garage, Alleppey ; State Transport District Garage, Kottayam ; State Transport District Garage, Trivandrum City ; State Transport Garage, Ernakulam ; State Transport Boat Building Yard, Perumanoor, Ernakulam ; State Transport Central Works, Pappanamcode ; State Transport Central Depot, Thampanoor ; Body Building Workshop, State Transport, Cantonment, Trivandrum.

(The various Transport garages in the state are registered as factories according to the Factories Act, 1948).

State-sponsored Industrial Undertakings : The Fertilisers and Chemicals (Travancore) Ltd., Alwaye ; The Travancore Cochin Chemicals Ltd., Alwaye ; The Travancore Rayons Ltd., Perumbhavoor ; The Travancore Ogale Glass Mfg. Co., Ltd., Alwaye ; The Punaloor Paper Mills Ltd. ; The Aluminium Industries Ltd., Kundara ; The Travancore Sugars and Chemicals Ltd., Trivandrum ; The Travancore Electro Chemical Industries Ltd., Chingavanom ; The Travancore Cements Ltd., Kottayam ; Forest Industries Travancore Ltd., Perumbhavoor ; The Vijayana Mohini Mills Ltd., Trivandrum ; Balaramavarma Textiles Ltd., Shencottah ; The United Electrical Industries Ltd., Quilon ; West Coast Fisheries (Travancore) Ltd. ; The Indian Aluminium Co., Ltd., Alwaye ; The Caustic Soda Plant, Alwaye ; The Travancore Titanium Products Ltd., Trivandrum.

Private Sector (Important Industrial Undertakings) : The Alagappa Textiles (Cochin) Ltd. ; The A.D. Cotton Mills Ltd., Quilon ; Sri Chitra Mills, Alwaye ; The Ashok Textile Mills Ltd., Alwaye ; The Jumna Thread Mills Ltd., Koratti Angadi.

The management of the Sitaram Spinning and Weaving Mills Ltd., Trichur, and the Cochin Mahalakshmi Mills, Mulakunnathukavu has been taken over by Government. Besides these two industrial concerns, the Electrical and Allied Industries, Kundara, which was defunct for some time, has also been reopened under Government auspices.

Steps have been taken to reorganise the Shark Liver Oil Factory on a commercial basis. 80 per cent of the world's output of lemon grass oil is from Kerala. A Lemon Grass Research Station has been started in a suitable site covering 25 acres. A State Aid to Industries Act has been passed by Government.

A rayon wood pulp factory is to be started in the Nilambur-Beypore area by the Gwalior Rayon Silk Manufacturing and Weaving Company.

Total number of registered factories (31-12-1956) : 1,528.

Number of average daily employees in the registered factories : 1,01,000.

Main cottage industries : Coir and Handloom

Their location : Alleppey and Coastal areas for Coir, Handloom in many parts of the State.

Number of workers employed in the Coir Industry : About 5 to 6 lakhs.

Total number of workers engaged in the Handloom Industry under co-operative fold : 40,000.

Value of handloom cloth produced by weavers under the co-operative fold during 1955-56 : Rs. 94,81,917.

Chief minerals produced in the State : The beach sands contain the much valued and strategic mineral monazite besides five others of great economic value namely ilmenite, rutile, zircon, sillimenite and garnet. The extensive white clay deposits contribute to the ceramic industry. Other minerals available are mica, graphite, limestone, quartz-sand and lignite.

AGRICULTURE

Main food crops of the State : Rice, Tapioca and Sweet-potato.

Main cash crops of the State : Coconut, Arecanut, Tea, Coffee, Cardamom, Rubber, Pepper, Ginger, Lemon grass, Sesame, Groundnut, Cashewnut.

The following table shows the area under these crops, average yield per acre, production in tons and value in crores of rupees for the period 1955-56 :

Name of crop	Area (1,000 acres)	Average yield per acre (Lbs.)	Production in 1,000 tons	Value (in crores of rupees)
Paddy	1,954	1,557	1,368	41.4
Pulses	111	343	17	0.4
Tapioca	558	6,298	1,569	7.8
Bananas	116	6,005	311	8.5
Sugarcane	18	40,693	327	1.3
Pepper	214	283	27	7.1
Ginger	26	1,120	13	2.8
Cardamom	69	32	1	3.0
Arecanut	144	45,000	648*	9.9
Cashewnut	93	1,349	56	3.8
Coconut	1,107	2,800	310*	49.4
Groundnut	33	950	14	0.8
Rubber	160	294	21	6.8
Coffee	41	164	3	1.6
Tea	99	679	30	14.2
Sesamum	50	—	—	—
Lemongrass	35	—	—	—
Total	4,828	1,07,567	4,705	158.8

* In crores of nuts.

Total value of fruits and other minor crops: Rs. 21·2 crores.

FORESTS

The figures relate to 1956-57.

Total forest area in State : 3,065 sq. miles.

Location of forest: The main forest tract lies north to south bordering the eastern boundary of the State.

The main types of forests: Evergreen, deciduous and semi-evergreen.

Total revenue from the forests for the year (1956-57) : Rs. 2,28,68,219.

Total expenditure (1956-57) : Rs. 1,00,86,637.

Main forest produce: Timber, Firewood, Charcoal, Bamboo, Reeds, etc.

Quantity of each variety : Timber 36,30,749 cubic feet ; Firewood 42,373 tons.

TRANSPORT

Total mileage of roads : 10,379 miles.

Total mileage of waterways : About 1,100 miles.

Total number of aerodromes : Two.

Number of broadcasting stations : 2.

Transport has been partly nationalised in the State.

Name of Transport Authority : Kerala State Transport Department, Telegraphic Address: Kertrans, Trivandrum.

Capital invested : Rs. 199·2 lakhs (as on 31-3-1957).

Figures for the following seven items are as on 4-10-1957 :

Road mileage monopolised : 520·5.

Road mileage over which services are operated in competition with private operators : 615·9.

Number of routes : 238.

Route mileage : 4,627.

Number of buses owned : 486.

Number of lorries owned : 64.

Total number of employees : 4,836.

The following three figures represent the average for October 1957 :

Mileage operated per day by buses : 56,248.

Mileage operated per day by lorries : 2,520.

Number of persons transported per day : 1,60,938.

Total amount of goods carried : 32 lorries of 5 tons each a day.

The pay scales of 3,000 odd State Transport employees were revised in June 1957 fixing the lowest grade of an employee at Rs. 30 to Rs. 50 as against Rs. 20 existing before.

POWER PROJECTS

Capacity of power plant installed : (a) Hydro-electric—Pallivasal 37,500 kW ; Sengulam 48,000 ; Poringalkuthu 24,000 kW ; (b) Thermal (Diesel)—Kasergod 252·5 KVA.

Total installed : 109,753 kW ; Production : 560 million units.

Total effective capacity : (a) Hydro-electric—Pallivasal 32,500 kW ; Sengulam 36,000 kW ; Poringalkuthu 16,000 kW ; (b) Thermal (Diesel)—Kasergod 225 KVA.

Pallivasal 2nd stage extension : Production expected : 33,700 kW—in the High Ranges in Devicolam. Under this scheme, a storage reservoir to impound 1,900 c.ft. of water, has been constructed. The work was started in 1944 and was completed in 1956-57. Estimated cost of dam—Rs. 220 lakhs.

Sengulam Hydro-Electric Scheme : The power station is located at Vellathuval below Pallivasal in Devicolam. The installed capacity is 4 units each of 12,000 kW rating. The project was commenced in 1947. The work is complete and all the generating sets have been commissioned for service. Estimated cost of the scheme is Rs. 864·73 lakhs.

Poringalkuthu Hydro-Electric Scheme : The power station is located at Poringalkuthu on the Chalakudy river in Trichur District. The installed capacity now is 24,000 kW. The works connected with the project were started in 1947 and were completed in May 1957. The estimated cost is Rs. 306·27 lakhs.

Poringalkuthu Hydro-Electric Scheme IInd Stage : Proposed to instal one more set of 8,000 kW involving an expenditure of Rs. 40 lakhs. The work is now in progress.

Neriamangalam Hydro-Electric Scheme : The power station is located at Panankutty on the right bank of the Periyar river. The installed capacity will be three units of 15,000 kW each. Work was started in January 1955 and the various works connected with the scheme are in progress. Estimated cost is Rs. 290 lakhs

Panniar Hydro-Electric Scheme : The power house is to be located on the left bank of the Mudhirapuzha river almost opposite to the Sengulam power house. The installed capacity will be two sets of 15,000 kW each. The estimated cost is Rs. 295 lakhs. Preliminary works connected with the project are in progress.

Sholayar Hydro-Electric Scheme : This scheme utilises the waters of the Sholayar river, a tributary of the Chalakudy river in Trichur District. The generating station will have three sets each of 18,000 kW capacity. The estimated cost of the scheme is Rs. 391 lakhs. The preliminary works connected with the scheme have been started.

Pamba Hydro-Electric Project : The proposal is to construct two reservoirs one in Pambayar and the other in Kakkar and to install generators in an underground power house near Kakkar. Six vertical sets of 50,000 kW each will be installed. The cost of the scheme excluding transmission lines is Rs. 2,080 lakhs. The preliminary works connected with the first stage of the project have been started. The first stage works with an estimated capacity of 100000 kW are to be completed in 1961-62.

All the above schemes are programmed under the Second Five Year Plan of the State The plan also includes provision for investigation of Idikki and other hydro-electric schemes and the construction of new transmission lines sub-stations and distributions.

Estimated rise in output by the end of the Second Plan : On the completion of the Second Five Year Plan the total installed capacity of the Hydro-electric stations will be 240,500 kW, as against 109,753 kW at present The total units generated also will go up from the present 560 million to 1,300 million units per annum.

Organisation : An Electricity Board was set up for the State from 1st April 1957 under the provisions of the Electricity Act, 1948

IRRIGATION

Major Irrigation Schemes : The following are the major irrigation projects :

Name of Scheme.	Estimated cost in Rs. lakhs	Area to be served in acres
1. Peechi Scheme ..	235·00	46,000
2. Chalakudy Scheme—		
(1st stage) ..	153·23	48,650
(2nd stage) ..	60·00	
3. Wadakkancherry (Vazhani) Scheme	104·57	12,800
4. Neyyar Scheme—		
(1st stage) ..	148 00	24,900
(2nd stage) ..	105·00	
5. The Kuttanad Development Scheme—		
Spillway	57·65	121,000
6. Malampuzha Project	527·75	47,600
7. Walayar Project ..	116·66	8,000
8. Mangalam Reservoir ..	97·51	6,000
9. Periyar Valley Scheme	348·00	63,300
10. Cheerakuzhy ..	47·00	4,000
11. Meenkara (1st Stage)	88·00	5,900
(2nd Stage)	47·00	2,500

Of the Schemes 1 to 9, Peechi has been inaugurated and Chalakudy 1st Stage has almost been completed. The other schemes except Neyyar 2nd Stage and Chalakudy 2nd Stage and Schemes 9 to 11 are schemes started in 1956-57.

The spill-way at Thottappally which forms part of the Kuttanad Development Project was completed and inaugurated in December 1954.

Lift Irrigation Works : Extensive lands are located on a higher level from the rivers by the side of Chalakudy, Periyar, Muvattupuzha and Pampa. A series of schemes have been started by the Government whereby water is lifted from rivers by means of electric pumps and led on to the fields through channels.

About 2,000 items of minor irrigation works are being attended to annually in aid of the G.M.F. Programme.

In 1954-55 minor and lift irrigation works in the State were transferred to the Panchayat Department. This work has been started on a mass and intensive scale in furtherance of the G.M.F. campaign.

Land Reclamation : Area of land reclaimed by State Tractor Organisation : About 50,000 acres.

Land Tenure : There are a number of land tenure systems in the State. Janmam lands, Pandaram, Kanapattam, Verumpattam, etc., are some of these.

Edavagai Abolition Act abolished special tenancy rights of four ancient chieftains and conferred full rights on tenants. This bill was part of one of seven bills *viz.* Special Rights Abolition Bills.

PUBLIC HEALTH

No. of allopathic hospitals : 320.

No. of ayurvedic hospitals and vaidyasalas : 450.

Causes of death and number of deaths due to each disease (figures for 1956) : Cholera 1 ; Plague 3 ; Smallpox 329 ; Fevers (including Malaria and Typhoid) 13,179 ; Respiratory diseases (T.B. included) 12,099 ; Dysentery and Diarrhoea 5,460 ; Injuries (Suicide included) 2,259 ; all other causes 75,573.

EDUCATION, LABOUR

Position in the area covered by the Kerala state during 1957 . Number of primary schools 7,073 (both departmental and private) ; middle schools 1,580 (both departmental and private) ; high schools 736 , nursery schools 11 ; pre-basic schools 8 ; basic schools 367 ; senior basic schools 94 ; basic training schools 28 , post-basic schools 1 ; non-basic training schools 64 ; special schools 482 basic training colleges 1.

Number of students under instruction 20,70,653 (boys 11,51,049 ; girls 9,19,604).

Percentage of literacy : 45·88.

Percentage of school age children attending schools : 94·5.

Enrolment in primary schools 15,34,500 ; Middle schools 1,98,981 ; high schools 3,37,172. Total enrolment in schools 20,70,653.

Total number of arts and science colleges : 40. Number of women's colleges : 9.

Total number of professional colleges : Medical colleges 2 ; Law Colleges 2 ; Engineering College 1. Ayurveda College 1 . Training Colleges 11 ; Veterinary College 1 ; Technical institutions 4.

Total number of students in the colleges during 1957-58 : 30,850.

Polytechnic : Started in 1951. Provides Diploma courses in Automobile Engineering, Chemical Engineering, Food Technology and Fisheries Technology.

Elementary education is free and compulsory only in certain districts. Middle school education is free.

Place of language in the education system : Regional language is compulsory from primary stage. It is the medium of instruction up to S.S.L.C. In parallel divisions of the primary classes of a few schools English had been permitted as the medium of instruction for the benefit of pupils whose mother tongue is English. Hindi is also compulsory from Form II to Form

VI. English except at college stage is taught as second language. English is the medium of instruction in college education. There are no plans for replacing English at the college stage.

Basic Education : There are a few basic schools in the State. An institution has recently been started by the Government to train teachers in the basic system of education—a three months course of training. Steps have been taken to constitute a Board of Basic Education.

There are about 90 social education centres.

A Vocabulary Research Unit was started in 1956 with the object of collecting simple words in Malayalam which may be usefully employed later for the preparation of adult literature.

A literary Workshop organised by the Government of India was being conducted by the Department of Education. Eighteen simple books were written by the members of the Workshop and 10 of them were printed and published.

The pupils belonging to the Backward Communities were allowed free education. The Backward communities not coming under the above head were allowed half fee concession as per rules in force. The poor and deserving candidates of the Backward Communities were exempted from payment of examination fees.

The education of the juvenile delinquents in the State was carried on by the Certified School, Trivandrum which is one of the oldest institutions of its kind in India.

Names of industries in which a minimum wage is fixed : Oil mills, coir, public motor transport, panchayats and municipalities, leather and hides, rice mills, road and building construction and stone-crushing.

No. of registered factories in the State as on 31-12-1956 : 1,528. Average daily employment in registered factories : 1,01,000.

No. of accidents in registered factories during 1956 : 1,159.

No. of fatal accidents among them : 8.
No. of trade unions as on 31-3-1957 : 979.

Total number of trade disputes for the period November 1, 1956 to September 30, 1957 5,359. No. of disputes pending at the beginning of the period : 621. No. of fresh cases during the period : 4,738. No. of disputes settled 4,571. No. of cases leading to strike or lock out : 361.

Names of important State laws affecting trade disputes : Trade Unions Act, Factories Act, Shops and Establishments Act, Industrial Disputes Act, Minimum Wages Act and in a few places Industrial Employment (Standing Order) Act.

SECOND FIVE-YEAR PLAN

Total outlay : Rs. 87 crores.
Total outlay for 1958-59 : Rs. 18·5 crores.
Central assistance for 1958-59 : Rs.10·5 crores.

Agriculture and Community Development : Rs. 15 16 crores.

Irrigation and Power : Rs. 31·65 crores.
Industry and Mining : Rs. 8·41 crores.

Transport and Communications : Rs. 5·48 crores.

Social services : Rs. 23·03 crores.
Miscellaneous : Rs. 3·21 crores.
Total : Rs. 86·94 crores.

Kerala now has a Central Planning Advisory Board. A Development Committee to coordinate the activities of all departments implementing the Second Five Year Plan in Kerala was set up with the Chief Minister as the Chairman and the ten ministers as members of the Committee.

UNIVERSITY OF KERALA

Trivandrum.

(The University of Travancore was reconstituted as the University of Kerala with effect from 30th August 1957).

Chancellor.

Dr. B Ramakrishna Rao, B.A., LL.F., LL.D.

Pro-Chancellor.

Joseph Mundassery, M.A.

Vice-Chancellor.

Dr. John Matthai, B.A., B.L. (Mad.), D.Lit. (Oxon.), D.Sc. (Loud.), C.I.E.

Pro-Vice-Chancellor.

V. Sundararaj Naidu, M.A., B.L., T.D.

Registrar.

V. P. Kannan Nair, M.A., L.T.

Type of University : Teaching and Federal.

Subjects in which there is provision for post-graduate work and for research : English, History, Economics, Philosophy, Mathematics, Physics, Chemistry, Botany, Zoology, Statistics, Malayalam and Sanskrit.

The Research Institute offers facilities for research courses leading to the M.Sc., Ph.D. and D.Sc. Degrees of the University in the following branches of pure and applied Science : Pure and Applied Chemistry, Statistics, Marine Biology and Oceanography, Entomology, Mycology, Astronomy and Meteorology and Pure and Applied Geology.

Number of colleges under the University : Arts and Science Colleges 43 ; Professional Colleges 24 ; Colleges under the Faculty of Oriental Studies 5.

Total number of students in the University during 1957-58 : 32,396.

List of Colleges under the University :

Agricultural College, Vellayani, Trivandrum.
Alagappanagar Polytechnic, Alagappanagar.
Assumption College for Women, Changanacherry.
Ayurveda College, Trivandrum.
Bishop Chulaparambil Memorial College, Kottayam.
Catholicate College, Pathanamthitta.
Christ College, Irinjalakuda.
College for Women, Trivandrum.
College of Engineering, Trivandrum.
C. M. S. College, Kottayam.
Farrook College, Feroke.
Fatima Mata National College, Quilon.
Govt. Brennen College, Tellicherry.
Govt. College, Chittur-Cochin.
Govt. College, Kasargod.
Govt. Polytechnic, Kalamassery.
Govt. Training College, Kozhikode.
Govt. Training College, Trichur.
Govt. Victoria College, Palghat.
Guruvayurappan College, Kozhikode.
Institute of Textile Technology, Trivandrum.
Law College, Ernakulam.
Law College, Trivandrum.
Little Flower College, Guruvayur.
Madeenathul Uloom Arabic College, Pulikkal P.O., Via Feroke.
Maharaja's College, Ernakulam.
Mahatma Gandhi College, Trivandrum.
Malabar Christian College, Kozhikode.
Mar Athanasius College, Kothamangalam.
Mar Ivanios College, Trivandrum.
Mar Theophilus Training College, Trivandrum.
Mar Thoma College, Tiruvalla.
Medical College, Kozhikode.
Medical College, Trivandrum.
Mount Carmel Training College, Kottayam.
Nirmala College, Muvattupuzha.
N.S.S. College for Women, Trivandrum.
N.S.S. College, Pandalam.
N.S.S. Hindu College, Changanacherry.
N.S.S. Training College, Changanacherry.
Providence Women's College, Kozhikode.
Rouzathul Uloom Arabic College, Feroke.
Sahitya Deepika Sanskrit College, Pavarathy.
Sanatana Dharma College, Alleppey.
Sanskrit College, Trivandrum.
Sree Kerala Varma College, Trichur.
Sree Narayana College for Women, Quilon.
Sree Narayan College, Quilon.
Sree Sankara College, Kalady.
St. Albert's College, Ernakulam.
St. Berchmans' College, Changanacherry.
St. Joseph's College for Women, Alleppey.
St. Joseph's Training College for Women, Ernakulam.
St. Joseph's Training College, Mannanam.
St. Mary's College, Trichur.
St. Teresa's College, Ernakulam.
St. Thomas' College, Kozhencherry.
St. Thomas' College, Palai.
St. Thomas' College, Trichur.
St. Thomas' Training College, Palai.
Sulamassiam Arabic College, Areacode.
Titus II Teachers' College, Tiruvalla.
Training College, Tellicherry.
Training College, Trivandrum.
Union Christian College, Alwaye.
University College, Trivandrum.
University Intermediate College, Trivandrum.
Vetorinary College, Mannuthy, Trichur.

Senior classes in the Scott Christian College, Nagercoil and the South Travancore Hindu College, Nagercoil have continued their affiliation to this University during 1957-58.

Finance :

The year 1956-57 opened with a balance of Rs. 75,38,310. The total receipts under fees, State Govt. grant of Rs. 25,24,266 and miscellaneous accounts (including a grant of Rs. 2,88,832 from the Govt. of India for the development of science, equipment, etc. and an interest free loan of Rs. 1,50,000 from the Government of India) amounted to Rs. 62,04,495.

The total expenditure during the year under the various heads came to Rs. 68,35,417. The closing balance for the year came to Rs. 69,07,388.

ADMINISTRATIVE PERSONNEL

(*See under States Administrative Personnel*)

ASSOCIATIONS, ETC.

ALLEPPEY PRODUCE MERCHANTS ASSOCIATION

Alleppey.

President : A. R. Sulaiman Sait ; *Vice-President*, V. J. Joseph ; *Hon. Secretary :* K. Madhava Nayak.

ARCHDIOCESE OF TRIVANDRUM

Archbishop's House, Trivandrum 1

His Grace the most Rev. Benedict Mar Gregorios, O.I.C., M.A., D.D., *Archbishop of Trivandrum*. Rt. Rev. Msgr. Philipose Rembau, *Vicar General* Rt. Rev Msgr. C. I. Kuruvilla, *Vicar-General*.

ASSOCIATION OF PLANTERS OF TRAVANCORE

Mangalam, Puthupally P.O

THE CALICUT CHAMBER OF COMMERCE

Beach Road, Calicut 1.

Chairman : L. Aldred.

CALICUT TALUK BAKERS' ASSOCIATION

S. M. Street, Kozhikode 6.

President, K. Samy ; *Secretary*, T. Sekharan ; *Treasurer*, K. Narayanan.

THE CALICUT TOBACCO MERCHANTS' UNION

Big Bazaar, Kozhikode 1.

President, K. Unnikrishna Pillai ; *Secretary*, G. Umanath Maller ; *Treasurer*, M. L. Patel.

CENTRAL RESEARCH INSTITUTE

University of Kerala, Trivandrum.

Head of the Institute and Professor of Marine Biology : Dr. C. C. John, M.A., D.Sc. (London), D.I.C.

Professor of Applied Chemistry : Dr. P. P. Pillai, D.Sc., F.R.I.C. (Lond.) ; *Professor of Statistics :* Dr. U. S. Nair, M.A., Ph.D. (London), F.N.I., F.I.A.Sc.

THE CENTRAL TRAVANCORE PLANTERS' ASSOCIATION

Thengakal Estate, Vandiperiyar P.O.

Chairman, C. J. Madden, M.B.E. ; *Honorary Secretary*, G. B. Shuttleworth.

CHAMBER OF COMMERCE

The Chamber of Commerce, Olesall Buildings, K. K. Road, Kottayam.

President : K. M. Cherian, M.A. ; *Vice-President :* Kurian Abraham ; *Secretary :* O. V. Mathew.

CHAMBER OF COMMERCE
Trichur.

President, Chackola Lonappan Palu ; *Secretary*, Kurian S. Manavalan, B.A. ; *Jt. Secretary*, C. C. George, M.A., LL.B.

THE CHANGANACHERRY MERCHANTS' ASSOCIATION
Market, Changanacherry.

President, V. K. Chacko, B.A., B.L. ; *Secretary*, Joseph M. Thomas; *Treasurer*, Cherian Sacarin.

CHRISTIAN LITERATURE SOCIETY
Malayalam Branch.
Tiruvalla P.O.

Branch Secy., George Alexander, M.A., B.D. *Promotional Secy.*, Rev. I. S. David, M.A., B.D.

COCHIN CHAMBER OF COMMERCE
P. O. Box No. 16, Cochin.

Vice-President, J. K. Hopkins ; *Secretary*, V. N Sundaresan. Grams : "Cochincham". Phones : 209 and 604.

THE COCHIN STATE OIL MILLERS' ASSOCIATION
Ernakulam Mills Buildings, Ernakulam.

President: K. P. Madhavan Nair ; *Vice-President* K. J. Lazar ; *Hony. Secretary :* C. K. Rama Iyer.

THE COCHIN STATE TILE MANUFACTURERS' ASSOCIATION
Trichur.

President : P. Devaraja Iyer ; *Vice-President* S. Viswanatha Iyer ; *Hony. Secretary :* K. R Bhaskaran.

THE DIOCESE OF KOTTAYAM
Kottayam.

Rt. Rev. Mar. Thomas Tharayil, Ph.D., D.D., M.A., LL.D., *Bishop of Kottayam*, Very Rev. Mgr. Cyriac J. Mattathil. *Pro. Vicar General of the Diocese of Kottayam*. Rev. Fr Joseph Malieckal, *Procurator*.

DIOCESE OF TRICHUR
Catholic Bishop's House, Trichur.

Bishop, Rt. Rev. Dr. C. C. Alappat, Ph.D., D.D. ; *Vicar-General :* Msgr. Paul Chittilapilly ; *Chancellor :* Msgr. Sebastian Chereath ; *Secretary :* Very Rev. Fr. Mathew Muringathery.

GOVT. MENTAL HOSPITAL
Kozhikode 4.

Superintendent : Dr. T. Bhaskara Menon, M.S.R., M.B.B.S. ; *Asst. Superintendent :* Dr. N M Nair, M.B.B.S.

INDIAN CHAMBER OF COMMERCE
Cochin-2.

President : L. D. Kilikar ; *Vice-Presidents :* O. J. Khona, Kantilal Raychand Mehta. *Secretary :* S. Krishna Warrier.

THE MALABAR BUS OWNERS' ASSOCIATION
Oyitty Road, Kozhikode.

President, C. Kunhikutty ; *Vice-President*, C. T. Raman Nambiyar ; *Hony. Secretary*, M. Raghavan.

THE MALABAR CHAMBER OF COMMERCE
Kozhikode 1.

President : Leeladhar N. Mehta.

Vice-Presidents : Haji S. Umbichi Koya ; V. K. Eradi, B.A., B.L.

Hon. Secretaries : C. C. Vulson, R. Ramakrishna Chettiar. *Manager :* M. K. Krishnan.

THE MALABAR PRODUCE MERCHANTS' ASSOCIATION
Silk Street, Kozhikode 1.

President : Narayandas Murarji Parekh.

Vice-Presidents : Narothamu Ramdas, H. M. Bavooty, A. M Barbhaya.

Hon Secretaries : Himatlal Gulabchand, K. M. Ahammed Koya.

THE MALABAR UMBRELLA STICKS MANUFACTURERS' ASSOCIATION
Kuttichira, Kozhikode 1.

President, T Balakrishnan Nair ; *Vice-President* C. Achutha Menon, Advocate ; *Hon Secretary*, P. A. Ahamed Koya.

NORTH TRAVANCORE CHAMBER OF COMMERCE
Bank of Alwaye Buildings, Alwaye.

President : M M. Abdul Hameed ; *Vice-President :* K. Raghunatha Kamath ; *Secretary :* T. O. Abdullah.

THE PALGHAT CHAMBER OF COMMERCE
Palghat.

President : S. Krishnan Kutty Moothan.

Vice-Presidents : S. Pazamisami Chettiar, R. Sulaiman.

Hon Secs. : M. V. Gupta, R S. T. Swaminathan.

Treasurer : R. V. Govindaraj Gowder.

SANATANA DHARMA COLLEGE
P.O. Sanatanapuram, Alleppey.

A literary body.
Principal : V. Ramanathan, M.A., L.T.

SOUTH INDIA CASHEWNUT MANUFACTURERS' ASSOCIATION
Quilon.

Chairman, M. P. Kesavan ; *Hon. Secretary*, P. G. Varghese, B.A., B.L. ; *Hon. Treasurer*, N. Ramachandra Reddiar.

SOUTH INDIA SOAP MAKERS' ASSOCIATION
C/o Post Box No. 74, Kozhikode.

SOUTH MALABAR TIMBER MERCHANTS ASSOCIATION
Kallai

SOUTH TRAVANCORE PLANTERS' ASSOCIATION
Shaliacary Estate, Punalur, Kerala.

President : S. Sampson : *Hon. Secretary :* Walter D. Seshiah.

TEA TRADE ASSOCIATION OF COCHIN
P. O. Box No. 84, Cochin.

Chairman, M. R. B. Shaw ; *Vice-Chairman :* F. A. Murphy ; *Secretary*, K. Damodaran Nair.

TRAVANCORE CHAMBER OF COMMERCE
Alleppey.

Chairman, A. R. Sulaiman Sait ; *Vice-Chairman :* Ravi Karuna Karan ; *Secretary*, R. Krishna Aiyar.

TRAVANCORE COIR MATS AND MATTING MANUFACTURERS' ASSOCIATION
Alleppey.

President, S. Narayanswamy ; *Secy.*, R. Krishna Aiyar.

THE TRAVANCORE CO-OPERATIVE COLLEGE
Trivandrum 1.

Chairman College Committee and Hon. Principal, Prof. V. Narayana Pillai, M.A., B.L. ; *Registrar of Co-operative Societies and Ex-Officio Secretary, The Co-operative College Committee*, P. Sivarama Pillai, M.A., LL.B.

THE TRAVANCORE OIL MILLERS' ASSOCIATION
Naga Mahal, Alleppey.

President, V. Ananthanarayana Iyer ; *Vice-President*, V. J. Joseph ; *Honorary Secretary*, N. V. Antony.

TRAVANCORE TILE MANUFACTURERS ASSOCIATION
Quilon.

THE TRIVANDRUM FRIEND-IN-NEED SOCIETY
Trivandrum.

President, K. C Abraham ; *Vice-President*, Dr. C. O. Karunakaran ; *Honorary Secretary and Treasurer*, C. M. John.

THE WEST COAST INDUSTRIALISTS' ASSOCIATION
Empress Hotel Road, Kozhikode 1.

President : Rao Bahadur S. Chellam Ayyar. *Hony. Secretary :* Rao Saheb C. N. Suganandha Mudaliar, B.A.

TRADES & PROFESSIONS

A. K. KALIAPPA CHETTIAR & SONS, Importers of non-ferrous metals and Manufacturers and exporters of Copper and Brass Vessels, Ernakulam 1.
Alleppey Co. Ltd., The, Alleppey (Kerala).
Aspinwall & Co. (Travancore) Ltd., Alleppey (Kerala).
Beetoll Trading Corporation, Alleppey (Kerala).
Bombay Co. Ltd., The, Alleppey (Kerala).
Bowden Matting Co. Ltd., Alleppey (Kerala).
Charankattu Coir Manufacturing Co. Ltd., S. L. Puram, Shertallai, (Kerala).
Commercial Emporium, The, Alleppey (Kerala).
C. V. Xavier Sons, Distributors, Herbo-Mineral Medicines, Broadway, Ernakulam.
Christian Literature Society, Malayalam Branch, Tiruvalla P.O. Kerala State.
Darragh, Small & Co. Ltd., Alleppey (Kerala).
Eastern Produce Co. Ltd., Alleppey (Kerala).
Empire Coir Works Ltd., Alleppey (Kerala).
Indian Coir Mfg. Co., The, Alleppey (Kerala).
Jaya Bharatham Co., Manufacturers of Jabco Products, Banerji Road, Ernakulam.
Kader Coir Works, Alleppey (Kerala).
Kattappuram Engineers, Thevara Road, Ernakulam ; Automobile Repair Specialists and Dealers.
Kerala Coir Manufacturing Co., Alleppey (Kerala).
Luis & Company, P.O. Box No. 72, Ernakulam.
Madura Co. Ltd., Alleppey (Kerala).
Modern Co. Ltd., Alleppey (Kerala).
"Narmada"—Humorous Malayalam Journal, Ernakulam.
Nenshi Devshi Kathawala (Private) Ltd., Jew Town, Post Box No. 27, Cochin 2.
Peirce, Leslie & Co., Ltd., Alleppey (Kerala).
Pooppally Coir Mills, Alleppey.
Rama Iyer, K. R. & Sons, Cloth Merchants, Big Bazar, Palghat (Kerala State).
Royal United Carpet Factories Ltd., The, P.O. Box No. 23, Cochin (Kerala).
S. K. V. Industries Ltd., Paravar, Mayyanad P.O. (Kerala).
UNITED ELECTRICAL INDUSTRIES LTD., Post Box No. 87, Quilon, Kerala. Manufacturers of "Iron" Electricity Single and Polyphase Meters.

LACCADIVE, MINICOY AND AMINDIVI ISLANDS

Administrator, S. Moni; *Headquarters (temporary)*: Kozhikode.
Secretary, M. V. Narayana Iyer
Area: 10* sq. miles; Pop: 21,035*

Island	Area	Population	Density
Minicoy	1·75 sq. miles	3,447	1,970
Kalpeni	1·02 sq. miles	2,269	2,225
Androth	1·67 sq. miles	3,659	2,186
Agathy	1·08 sq. miles	2,038	2,020
Kavarathy	1·35 sq. miles	2,250	1,667
Ameni	0·97 sq. mile	3,159	3,257
Kadamath	1·17 sq. miles	1,642	1,403
Chetlat	0·39 sq. mile	994	2,549
Kiltan	0·62 sq. mile	1,252	2,013
Bitra	0·05 sq. mile	76	1,520

With the reorganisation of States, in Nov. 1956 the Government of India took over the administration of the Laccadive, Minicoy and Amindivi group of Islands, a small sprawling group of coral islands in the Arabian Sea, lying between the latitudes of 8° and 12° north lat.

They now constitute a Union Territory under an Administrator.

Ten of the islands are inhabited out of a total number of 19. Minicoy, Kalpeni, Kavarathy, Agathy and Androth lie in the Laccadive group and Ameni, Kadamath, Kiltan, Chetlat and Bitra in the Amindivi group.

Before the reorganisation, the Laccadive and Minicoy Islands were part of Malabar District and the Amindivi Islands, of South Kanara District, forming part of the former composite State of Madras.

The administration of the islands was carried on by the Collectors of Malabar and South Kanara.

The islands lie from north to south, Minicoy being the southernmost and Chetlat the northernmost. They are within 20 to 114 miles away from one another except Ameni and Kadamat which are only six miles apart. They are 125 to 250 miles off the Malabar and South Kanara coast.

The area and population of the inhabited islands are given according to the latest census, which also show that the density of population is high. There is thus no scope for colonisation in the small satellite islands on any appreciable scale.

All the inhabitants of the Islands are Muslims. Originally Hindus, from Malabar (except for Minicoytes) the islanders appear to have been converted to Islam sometime in the sixth century. In appearance, mode of dress, manners and customs, the islanders, except those from Minicoy, are indistinguishable from the Moplahs of Malabar. Their dialect is old Malayalam, with local variations peculiar to each island. The Minicoytes are more akin to the inhabitants of the Maldives and their language, Mahl, is said to be allied to primitive Sinhalese. In appearance too they are strikingly different from the inhabitants of the Laccadives and the Amindivis. Their customs and manners are also different.

The inhabitants of the Laccadives can be divided into three classes the Koyas, Malmis and Melacheris, the first are landed classes, the second sailors or fishermen and the third are small tenants or belong to the servant class.

Practically the same distinction of class exists in the Amindivi group and also in Minicoy, where the cast system is even more rigid. The classes here are known as Manikfan, Malmis, Thakrus and Raveris.

Mainly as a result of isolation, the islanders have remained backward economically, though in point of intelligence and initiative they are in no way inferior to the Moplahs of Malabar. They have been declared 'Scheduled Tribes' but in reality are far more advanced than similar tribes elsewhere.

The islanders have never had what may be described as benevolent rule. Patriarchal Government prevailed from the earliest known times, and all authority vested in a chief assisted by a Panchayat formed by members from leading families. This form of Government exists in a modified form to this day. In an intermediate period when they came under the sway of the Cannanore Rajahs, the administration fell virtually into the hands of the latter's paid agents who practised a regular system of extortion which did not relax even when native islanders were appointed to the posts.

In the Islands formerly administered from South Kanara, the British Government had right from the start, a Resident Managar assisted by Karanis or clerks in every island. This system has taken root and at the moment a Deputy Tahsildar exercises the powers of a Second Class Magistrate, a Police Officer, a Revenue Officer and a Port Officer in the Amindivis. He is also a Civil Judge without monetary limits operating under the customary laws of the islands and is assisted both in his civil and criminal work by Panchayats known as Mukthesars in Ameni and, by Moopans in the other Islands. The Karanis exercise powers similar to those of village headmen on the mainland.

In the Malabar group the present system is based on Amins appointed from among competent and influential islanders, assisted by clerks. Neither post is hereditary. In the place of Mukthesars or Moopans in the Amindivi group there are here Karanavans or assessors to assist the Amins in the administration of civil and criminal justice, which is governed by the Island Regulation of 1912. The Amin is usually selected from Karanavans.

The Island law is a curious mixture of the ordinary Muhamadan law and the Marumakkathayam law of Malabar, a distinction being made between self-acquired and inherited property. In the early years there was no private property in land, but with the increase of population and the resultant pressure on land, a tendency grew among the people to demarcate plots by means of boundaries mentioned in documents. This is now a source of civil litigation among the islanders, which has assumed alarming proportions. Civil disputes in the Laccadive group are decided by Amins in the first instance, while appeals lie to the Secretary to the Administrator and the Administrator.

In the Amindive group the Civil Procedure Code is applicable to a limited extent, but there are no well defined laws. Consequently much depends upon the interpretation of the customary law, which is no easy matter and is again a source of perpetual litigation.

Criminal justice is also administered by the Amin in the Laccadive group in accordance with Regulation I of 1912 which endows him with an authority equal to that of a Magistrate of the Third Class on the mainland. Appeals from this decision lie to the Secretary to the Administrator and the Administrator. The Deputy Tahsildar who administers criminal justice in the Amindivi group is a Magistrate of the Second Class under the Criminal Procedure Code and was under the jurisdiction of the District Magistrate Judicial of South Kanara, till the States reorganisation.

Appeals now lie to the Administrator who, it is expected, will be invested with powers of a District and Sessions Judge under the Criminal Procedure Code shortly. First class offences in the Amindivi group will be dealt with by the Secretary to the Administrator who is proposed to be invested with powers of a First Class Magistrate under the Criminal Procedure Code.

The Union Territory is now under the jurisdiction of the Kerala High Court.

The Government of India have now sanctioned the appointment of Two Tahsildars, one for Minicoy and the other for the Laccadive group with a view to improving the existing administrative machinery.

There is no land tax on any of the island, of the Malabar group but only a tree tax on Government land. On private land no tax is leviable on the trees. Government land is either leased to the community as a whole under the description of Pandaram land or as cowle land where a tax is collected on yielding trees from individuals to whom they are leased. The register of trees maintained by Government is a rough and ready document and the number of trees is checked and a correct account maintained with the help of a surveyor who accompanies every inspection party. Unauthorised excursion into Government cowle land have also opened up a large field of litigation, made possible by the out-of-date measurement books which are all that Government have to go by, in the absence of a proper survey of the Islands.

There is also complication in the revenue rates of the islands as they are calculated on various basis. There has been no proper demarcation of land and the account relating to the number of trees is only rough and ready.

The total revenue from these trees can never be a large amount, because the occupied area of the islands is only about 10·67 sq. miles. The present average annual income from this source is only about Rs 20,000.

There is no tax of any kind in the Amindivi group of islands except from two minor leases of Government Pandaram lands and also from court fees, search fee, copying fees, magisterial and customary fines.

The Minicoy Island, which deserves separate mention, pays a lease amount on Pandaram lands, a poll tax of Re. 0-4-0 per unmarried woman, Re. 0-6-0 per unmarried man, and 12 annas per married couple, and two other lease amounts for garden crops and village sites. The poll tax is subject to exceptions.

To set right the existing system of land ownership and collection of taxes it is proposed to conduct a survey of all islands after changing the basis of ownership from one of trees to one of land.

ECONOMY

The major source of income from the islands is however the coir monopoly held by the Government. The islanders are given rice in exchange for coir at depots at the exchange rates fixed by Government from time to time by reference to market rates for coir and rice on the mainland. Government have coir depots in all the islands except Minicoy which is not subject to this monopoly. Islanders are prohibited from selling coir to the public. The object is to ensure the islanders, whose main occupation is coir twisting, a regular supply of rice in exchange for coir, thereby minimising the chances of middlemen interfering in the coir trade.

* There is a slight discrepancy between the Government of India and local figures.

The only agriculture on the island is coconut cultivation but no scientific approach to the question has ever been made. Over-planting is the rule with the result that there is a decrease in the annual crop. There is also no wide scope for development of food crops on the islands.

Proposals for the development of fisheries are under consideration. On Minicoy, the bonite or mass fishing forms an important and valuable industry. There is provision for the expansion of the fishing industry in the island under the Second Five-Year Plan. An allotment of Rs. 2,46,000 has been made in the budget estimate for 1957-58 for this Territory.

No concrete steps have, however, been taken so far in the development of this industry.

The main health problems are the eradication of leprosy and filariasis.

Leprosy is on the increase in two islands, Minicoy and Androth. A leper colony started in 1952 with the aid of a local committee has now been taken over by the Government. A sum of Rs. 90,000 has been provided in the budget estimates for 1957-58 for this purpose.

In Minicoy too there is a leper colony run by Government.

In the Laccadive group, each island has a Government dispensary, with a Civil Assistant Surgeon, a compounder, a maternity assistant, a ward boy and a sweeper.

In the Amindivi group there is a Government dispensary at Ameni in the charge of a Civil Assistant Surgeon which caters for the medical needs of all the five islands. Another dispensary which was sanctioned for Kiltan by the Madras Government will be opened before the end of 1957. The Madras Government also sanctioned three Health Inspectors for the Laccadives and Minicoy and one for the Amindivis. The appointments have yet to be made.

There are nine primary schools, one in each island except Bitra where free midday meals and books and slates are given to the students. The schools are however under-staffed and the teaching equipment poor. Furniture and buildings are also inadequate.

Lack of proper communication is however the biggest single handicap of the administration. Contacts of officers under the Madras Government with the administration have been as few as once in two years through vessels specially chartered for the purpose when the officers made a hurried inspection tour. The normal communication to the islands is by means of sailing boats during the months of October to May when the islanders buy all their requirements from the mainland and sell their produce especially copra, coconuts, cadjan leaves, vinegar, palm gur, mas fish and coir in the mainland markets. For the rest of the year the islands are practically cut off from any contact with the mainland. In Minicoy there is a wireless station. In other islands there are not even postal facilities. Inter-island communication is also rare because the islanders have more contact with the mainland than among themselves.

SECOND FIVE YEAR PLAN

Immediately after the Government of India took over the administration, a draft Second Five Year Plan was drawn up involving an expenditure of Rs. 124·107 lakhs, out of which 94 lakhs formed regular plan items. This was scrutinised by the various Ministries of the Government of India and finally approved by the Planning Commission on 30th Sept., 1957 subject to certain minor modifications.

As approved by the Planning Commission, the broad proposals for improvement of these islands under a Second Five Year Plan, that is, for the three and a half years still left, are as below :

	Rs.	
Agriculture and Community Development including development of Fisheries ..	19·98	lakhs
Transport and Communication	23 25	,,
Industries	4·11	,,
Education	12·40	,,
Publicity	0·92	,,
Public Health	15 40	,,
Survey and Settlement ..	1 03	,,

Under agriculture which on the islands consists mainly of coconut cultivation, the improvements in view are the organisation of demonstration plots, the supply of seedlings at concessional rates, the eradication of coconut disease through a free supply of insecticides, the eradication of rat nuisance, subsidised compost schemes and the introduction of homestead horticulture.

There is no scope for animal husbandry schemes on these islands, there being no pasture or fodder available

Fisheries improvement, which is a major development proposed for the islands, will consist of mechanised fishing through pablo boats in off shore waters, new types of fishing gear, expansion of 'mas' fishing, extraction of shark liver oil and research.

Co-operative societies will be introduced in all the islands.

The most important item in reconstruction will however be a monthly steamer service as an experiment with a cargo vessel touching all the major islands. A new lighthouse will be opened in Androth and the existing lighthouse at Kiltan will be improved.

The Posts and Telegraphs Department have been requested to install wireless stations in the major islands. There will also be branch post offices in all the islands as soon as the steamer service starts functioning.

Under industry, coir twisting will be developed through training-cum-production centres in all islands and oil pressing through Wardha Ghanies. Cottage industries like mat making, soap making, spinning etc., will be set up as an experiment.

Under education the main items of development will be the conversion of at least four out of the nine primary schools now in existence into middle schools, out of which one will be converted into a Secondary School with hostel facilities by the end of the Plan period. The existing hostel for island boys at Kozhikode will be improved and its strength increased to 100.

To improve sanitation safe drinking water will be introduced through a scheme of subsidised draw wells. Water seal squatting slabs will be distributed to the islanders practically free. A lady doctor will be appointed and local 'Dais' trained under a 'Dais' training scheme. One of the island dispensaries will be converted into a hospital by the end of the Plan period. One more dispensary will be opened in the Ameni group.

Among other miscellaneous improvements will be the provision of community listening sets for all islands.

A lump sum provision of Rs. 50,000 is also made for self-help schemes under community development.

It is also proposed to move the headquarters of the Administrator to the islands after a regular steamer service is established and wireless stations opened in all the islands. A land revenue system will be organized by the end of the Plan period. A regular administrative machinery will gradually come into existence.

The Plan also includes many construction works including community hall-cum-library in each island involving an expenditure of more than Rs. 17 lakhs

This is an ambitious plan almost two and a half times the size of the plan which the Madras Government had in mind. The outlay on the Plan items alone works out to about Rs. 350 per head of population, which is much more than any allocation to any backward area on the mainland of India. It is hoped that this Plan will succeed in diversifying the occupational pattern of the islands.

An Advisory Council has been constituted by the Ministry of Home Affairs with five islanders to advise the Administrator on matters of administration involving general policy, schemes of development, improvement in sanitation, communications, education, health and other items intended for the betterment of the condition of the population and to make the islands self-supporting.

One member is nominated to the Lok Sabha from the islands. The name of the present member is Koyilat Nallakoya from Androth Island.

MADHYA PRADESH

Area : 171,201 Square miles.

Population (1951): 26,071,654* (Males 13,254,936. Females 12,816,718).

Density of Population per square mile : 152.

Number of Hindus	24,653,276
Sikhs..	39,877
Muslims	1,040,345
Christians	81,005
Number of persons :	
Scheduled Castes	3,490,761
Scheduled Tribes	3,865,254
Rural Population	22,958,836
Urban Population	3,141,164

Number of persons speaking each of the Languages prevalent :

Hindi	19,065,972
Urdu	365,969
Marathi	582,821
Rajasthani	896,644
Gujrati	114,000
Sindhi	128,041
Other Languages	4,392,000

Literacy : 9·9 per cent.

ADMINISTRATIVE SET-UP

For administrative purposes, the State has been split up into seven divisions with a Commissioner at the head of each. The headquarters of each of these are located at Bhopal, Bilaspur, Gwalior, Indore, Jabalpur, Raipur and Rewa with the following districts (headquarters in brackets) under their charge :—

1) *Bhopal*—Sehore (Sehore) ; Raisen (Raisen) ; Bhilsa (Vidisha) ; Hoshangabad (Hoshangabad) ; Betul (Betul) ; Rajgarh (Rajgarh) ; Shajapur (Shajapur).

2) *Bilaspur*—Bilaspur (Bilaspur) ; Raigarh (Raigarh) ; Surguja (Ambikapur).

3) *Gwalior*—Gwalior (Gwalior) ; Bhind (Bhind) ; Morena (Morena) ; Shivpuri (Shivpuri) ; Guna (Guna) ; Datia (Datia).

4) *Indore*—Indore (Indore) ; Ratlam (Ratlam) ; Ujjain (Ujjain) ; Mandsaur (Mandsaur) ; Dewas (Dewas) ; Dhar (Dhar) ; Jhabua (Jhabua) ; Nimar (Khargone) ; Nimar (Khandwa).

5) *Jabalpur*—Jabalpur (Jabalpur) ; Balaghat (Balaghat) ; Chhindwara (Chhindwara) ; Seoni (Seoni) ; Sagar (Sagar) ; Mandla (Mandla) ; Damoh (Damoh) ; Narsimhapur (Narsimhapur).

6) *Raipur*—Raipur (Raipur) ; Bastar (Jagdalpur) ; Durg (Durg).

7) *Rewa*—Rewa (Rewa) ; Sidhi (Sidhi) ; Satna (Satna) ; Panna (Panna) ; Chhatarpur (Chhatarpur) ; Tikamgarh (Tikamgarh) ; Shahdol (Shahdol).

Number of Districts	43
Number of Tahsils	190
Number of Municipalities	150
Strength of the State Legislative Council†	90
Strength of the State Legislative Assembly	289††
Number of members returned from State to the Lok Sabha	36
Number of members returned from State to the Rajya Sabha	16

Tahsils

The area, population and the names of the Tahsils into which the Districts are divided are given below :

INDORE
A. 1,468·74 Sq. miles. P. 5,06,622.
Indore, Sawer, Depalpur, Mhow.

RATLAM
A. 1,861·64 Sq. miles. P. 3,83,894.
Ratlam, Sailana, Jaora, Alot.

UJJAIN
A. 2,359·72 Sq. miles. P. 5,44,260.
Ujjain, Mahidpur, Tarana, Badnagar, Khachrod.

MANDSAUR
A. 3,860·48 Sq. miles. P. 6,36,915.
Mandsaur, Sitamau, Neemuch, Jawad, Bhanpura, Malhargarh, Manasa, Garoth.

DEWAS
A. 3,021·97 Sq. miles P. 3,45,306.
Dewas, Sonkatch, Bagli, Kannod, Khategaon.

DHAR
A. 3,034·05 Sq. miles. P. 5,05,268.
Kukshi, Manawar, Sardarpur, Dhar, Badnawar.

JHABUA
A. 2,500·63 Sq. miles. P. 3,82,673.
Alirajpur, Jowat, Jhabua, Thandla, Petlawad.

NIMAR (Khargone)
A. 5,074·15 Sq. miles. P 7,58,694.
Sendhwa, Rajpur, Badwani, Khargone, Bhikangaon, Kasaravad, Badwah, Maheshwar

NIMAR (Khandwa)
A. 4,227 Sq. miles. P 5,23,496.
Khandwa, Burhanpur, Harsud.

REWA
A 2,513 Sq miles. P 6,33,706.
Hujur, Teonthar, Sirmaur, Mauganj.

SIDHI
A. 4,072 Sq. miles. P. 4,64,302.
Gopadbanas, Deosar, Singroli.

SATNA
A 2,740 Sq miles. P. 5,55,603
Raghurajnagar, Maihar, Amanpatan, Nagod.

PANNA
A. 2,789 Sq miles P. 2,58,703.
Panna, Ajaygarh, Pawai.

CHHATARPUR
A 3,389 Sq miles. P. 4,81,140.
Chhatarpur, Londi, Bijawar.

TIKAMGARH
A. 1,948 Sq. miles. P. 3,66,165.
Tikamgarh, Jatara, Niwari.

SHAHDOL
A. 5,419 Sq. miles P. 6,50,757.
Bandhogarh, Beohari, Sohagpur, Pushparajgarh.

JABALPUR
A. 3,912 Sq. miles. P. 10,42,596.
Jabalpur, Sehora, Murwara, Patan.

BALAGHAT
A. 3,557 Sq. miles. P. 6,93,379.
Balaghat, Baihar, Waraseoni.

CHHINDWARA
A. 4,578 Sq. miles. P. 6,46,430.
Chhindwara, Amarwara, Saunsar.

SAGAR
A. 3,770 Sq. miles. P. 6,36,191.
Sagar, Rahli, Khurai, Bunda.

NARSIMHPUR
A. 1,978 Sq. miles. P. 3,39,110.
Narsimhpur, Gadarwara.

SEONI
A. 3,216 Sq. miles. P. 4,34,061.
Seoni, Lakhnadon.

DAMOH
A. 2,022 Sq. miles. P. 3,57,463.
Damoh, Hatta.

MANDLA
A. 5,057 Sq. miles. P. 5,47,620.
Mandla, Dindori, Niwas.

RAIPUR
A. 8,285 Sq. miles. P. 16,39,986.
Raipur, Mahasamund, Bindranawagarh, Dhamtari, Baloda Bazar.

DURG
A. 7,466 Sq. miles. P. 14,90,859.
Durg, Bemetara, Sanjari, Nandgaon, Khairagarh, Kawardha.

BASTAR
A. 15,091 Sq. miles. P. 9,13,746.
Jagdalpur, Kondagaon, Antagarh-Narayanpur, Dantewada, Bijapur, Konta, Kanker, Bhanupratappur.

BILASPUR
A 7,031 Sq miles. P. 17,37,176.
Bilaspur, Mungeli, Janjgir, Katghora, Sakti

RAIGARH
A. 5,093 Sq. miles. P. 8,51,903.
Raigarh, Gharghoda, Udaipur, Saranaggarh, Jashpur.

SURGUJA
A 8,613 Sq. miles P. 8,22,041.
Surguja, Ambikapur Pal, Samari, Baikunthpur, Manendragarh, Bharatpur.

GWALIOR
A. 1,713·5 Sq. miles P. 5,30,299
Bhander, Pichhor, Gwalior, Ghatigaon

BHIND
A. 1,723 Sq miles. P 5,27,978.
Lahar, Bhind, Gohad, Mehgaon.

MORENA
A. 4,361 Sq miles. P 6,33,581.
Ambah, Morena, Jaora, Sabalgarh, Vijaipur and Shivpur.

SHIVPURI
A. 3,792 Sq. miles. P 4,76,092
Pohari, Shivpuri, Pichhaur, Karera, Kolaras

GUNA
A. 4,554 4 Sq miles. P. 4,78,810
Chachoda, Raghogarh, Guna, Pachhar, Mungaoli.

DATIA
A. 733 Sq miles. P. 1,69,319
Datia, Seonda.

SEHORE
A. 3,581 Sq miles. P. 5,03,126
Huzur, Ashta, Budhani, Ichhawar, Berasia, Nasganj, Sehore.

RAISEN
A. 3,251 Sq miles. P 3,20,378
Begumganji, Raisen, Silwani, Udaipura, Borell, Gairatganj, Goharganj.

VIDISHA (formerly Bhilsa).
A. 2,964·4 Sq. miles. P. 3,89,161.
Kurwai, Basoda, Vidisha, Seronj, Atari.

HOSHANGABAD
A. 3,713. P. 5,08,788.
Hoshangabad, Seoni-Malwa, Harda, Sohagpur and Pachmarhi.

BETUL
A. 3,910. P. 4,51,655.
Betul, Multai, Bhensdehi.

RAJGARH
A. 2,435·65 Sq. miles. P. 4,27,523.
Khilchipur, Rajgarh, Biaora, Narsingarh, Sarangpur.

SHAJAPUR
A. 2,555 Sq. miles. P. 4,33,216.
Shujalpur, Shajapur, Susner, Agar.

GEOGRAPHY

On November 1, 1956, as a result of the States reorganisation, Madhya Pradesh emerged as the second largest State on the new map of India. Stretching from the Chambal in the north to the Godavari in the south, the new State is composed of the former Madhya Bharat, Bhopal and Vindhya Pradesh States together with the 17 Hindi districts of the former Madhya Pradesh.

* The figure is slightly different from the Central Govt. figure. † Not formed yet (June 1958). †† One nominated.

and Sironj Sub-division of Kotah district of Rajasthan, excluding the Sunel enclave of the Mandsaur district in former Madhya Bharat. It comprises an area of 171,201 sq. miles with a population of 26,071,654. Situated centrally, girdled by six states, viz., Uttar Pradesh, Bihar, Orissa, Andhra-Pradesh, Bombay and Rajasthan, it lays a rightful claim to be the heart of India.

Physical Regions: Ranging between latitudes 18° N and 26½° N and between longitudes 74° E and 84½° E, with the Tropic of Cancer running along parallel to the Narmada, the main physical regions of the new State are, the Gird Region, the Malwa Plateau, the Narmada Valley, the Satpura ridge and the Chattisgarh plains. Except for a few undulations the level of the plains is generally unbroken. The Vindhyas and Satpuras are the two parallel ranges running west to east through the middle of the State. The main river systems are the Chambal, Betwa, Sone, Narmada, Tapti, Mahanadi and Indrawati.

Nearly the entire State receives good rainfall ranging from 30 to 60 inches generally and between 30 and 35 inches in Bhopal, 30 and 40 inches in Malwa, 30 and 35 inches in Bundelkhand and nearly 60 inches in Chhattisgarh.

The climate is dry in the north, cool and breezy in the Malwa Plateau and generally wet and humid in the eastern and southern parts.

The density of population in the State is 152 per sq. mile The literacy rate is 9·9 per cent The population of the rural areas and of the urban areas is roughly in the proportion of 88 : 12. The State has five cities, viz., Indore, Jabalpur, Gwalior, Ujjain and Bhopal and 150 municipal committees. A network of 15,217 miles of roads is spread over the area.

Soil and Crop: The State possesses soils of almost every class, from the rich black cotton soil to the dry and stony red earth. The Malwa region abounds in rich black cotton soil. The low-lying areas of Gird, Bundelkhand and Baghelkand have lighter soils with a proportion of sand in them. The Narmada Valley is formed of deep alluvial deposits of extreme richness and the Chhatisgarh plains have yellow and sandy soil.

The chief food crops are wheat in Malwa, Narmada Valley, Satna, Chhatarpur and Bhopal, rice in Chhattisgarh, Shahdol, Rewa, Dhar and Indore, and Juar in Bhopal, Khargone, Ujjain, Shajapur, Mandsaur and Guna and pulses all over the State. Cash crops include cotton in Malwa, and Nimar and sugarcane and oil seeds all over the State.

Nearly 30 per cent of the State's area is covered by forests The forests are chiefly saj, palsa, babul, salai, dhavra, tendu, mahua, bamboo, teak, sal, anjan and harra. The largest products of the best quality teak in India come from these forests.

The total cultivated land in the State accounts for about 37,540,000 acres which is about 51 per cent of the total area. Of this, irrigated land is 2,057,000 acres with 1,247,000 acres under paddy, 336,000 acres under wheat and 59,000 acres under sugarcane. Percentage of irrigated land to the net cropped area is 5·5 per cent.

Economy: The economy of the State is predominantly agricultural, since 78 per cent of its total population is dependent on agriculture for its livelihood. Nearly a third of its area has been brought under the plough, principal crops being rice, wheat, juar, maize, bajra, pulses, oilseeds and cotton.

MINERALS

The State contains extensive belts of mineral deposits. Nearly 25 various minerals are at present being exploited from 591 mines. In 1951, the estimated value of the output of these mines was round about Rs. 8·4 crores. The State has great industrial potential. The expansive coal and iron and manganese deposits in the Chhattisgarh Division promise to make it the industrial beehive of the country. Deposits of bauxite have been located in Amarkantak, Balaghat, Seoni and other districts. The mineral areas of former Vindhya Pradesh are Sidhi, Rewa, Panna, Chhatarpur and Tikamgarh, the minerals exploited being coal, ochre, sillimanite, corundum and diamond. Limestone is also found extensively. The number of mines in 1956 was : coal 67, manganese 277, limestone 97, china-clay 9, bauxite 6, steatite 12, felspar 2 and diamond 3. The diamond mines are spread over an area of 23 50 sq miles and are responsible for 95 per cent of India's diamond production.

The Chief Minerals under active exploitation in the State with district location in brackets are as below :

Coal (Chhindwara, Betul, Narsinghpur, Bilaspur, Raigarh, Surguja, Shahdol, Sidhi); Iron Ore (Durg, Bastar Jabalpur, Gird, Mandsaur, Khargone, Chhattarpur, Sidhi); Manganese Ore (Balaghat, Chhindwara, Jabalpur, Jhabua, Bilaspur, Mandla), Bauxite (Jabalpur, Surguja, Bilaspur, Mandla Balaghat Raigarh, Shahdol, Satna); Diamond (Panna); Corundum and Sillimanite (Sidhi); Glass sand (Satna, Jabalpur, Morena); Graphite (Betul), Barytes (Sidhi Jabalpur Tikamgarh, Dewas); Felspar (Chhindwara, Shahdol), Talc (Jabalpur, Jhabua); Soap stone (Durg Jabalpur, Sidhi, Jhabua, Chhattarpur), Yellow ochre (Satna, Datia) Red Ochre (Gird Shivpuri) Red Oxide of Iron (Jabalpur); Kaolin (Jabalpur Shahdol, Dewas), White clay (Satna Jabalpur); Fuller's Earth (Jabalpur); Asbestos (Jhabua); Refractory clay (Jabalpur, Hoshangabad, Surguja, Bilaspur, Shahdol, Chhindwara Mandsaur Raisen), Dolomite (Bilaspur, Khargone), Slate-pencil-shale (Mandsaur)

The following non-ferrous metals are reported to occur in districts shown in bracket against each

Lepidolite (Bastar); Mica (Surguja Balaghat), Fluorspar (Durg, Jabalpur, Raigarh), Lithographic stone (Damoh, Nimar); Copper (Bastar, Sidhi, Jabalpur, Balaghat, Narsinghpur, Sheopuri, Dewas), Lead Ore (Jabalpur, Sheopuri, Gird, Surguja, Raipur, Durg), Alluvial gold (Raipur, Surguja, Raigarh, Balaghat, Bastar).

The total production of minerals in 1956 and 1955 (*in brackets*) was 47,13,391 tons (44 52,882 tons); Manganese ore 4,43,368 tons (3 88,677 tons), Limestone 10 27 400 tons (9 42,778 tons); Iron ore 34,569 tons (5,261 tons); Talc 3,918 tons (2,847 tons); Fireclay and White Clay 72,327 tons (40 279 tons); Bauxite 41,544 tons (31,760 tons); Red and Yellow Ochres 10 299 tons Felspar 941 tons; Graphite 25 tons; Asbestos 387 tons (65 tons); Shale 1,12,241 cases (94 035 cases), Corundum 339 tons (107 tons); Sillimanite 893 tons (560 tons); Diamonds 1,190 Rattis (1,696 Rattis), Coal 4,324,217 tons (1954); Steatite 42,609 cwt (1954); Dolomite 11,442 tons (1954).

The value of minerals produced and despatched for consumption during the year 1956 was Rs 12,80,35,000 and the State receipt by way of royalty was Rs 59,25,000 to which coal contributed Rs 32,68,597, Manganese Rs. 18,13,163 and other minerals Rs 8,43,217.

The total number of labourers employed in the mines of major minerals was 75,129 out of which 30,423 were engaged in coal mines, 33,678 in manganese mines and 11,028 in other mines : Bauxite 317 (1953); Steatite 157 (1953); Limestone 6,063 (1953); Fireclay 161 (1953); Diamond 2,169 (1953). No. of workers employed in mining industry in 1957 : 76,198 (29,238 in coal and 37,016 in manganese mines.

TRANSPORT

1956 figures : Total Mileage of Roads : 15,217.

Mileage of metalled roads : 8,966.

Mileage of unmetalled roads : 6,251.

Transport has been partly nationalised in the State.

Name of the Authority :—

Central Provinces Transport Services and Madhya Bharat Roadways.

(Government owned and operated.)

LARGE-SCALE INDUSTRY

Main large-scale industries of the State with location in brackets :—

Cotton Textile (Indore, Gwalior, Ujjain, Durg, Sehore, Dewas, Bhopal, Ratlam, Burhanpur, Rajnandgaon); Newsprint (Nepanagar); Cement (Kymore, Banmore); Sugar (Dabra, Dalauda, Jaora, Alot, Harpalpur, Sarangpur, Mahidpur); Potteries (Gwalior, Jabalpur, Shahdol); Biscuits (Gwalior); Art-silk (Gwalior, Ujjain, Indore); Glass (Gwalior, Jabalpur, Ran, Basoda); Jute (Raigarh); Rayon (Gwalior, Nagda).

The cotton textile industry in the State has 12,447 looms and 597,900 spindles in 20 mill- The biggest cement factory of the country is located at Kymore near Katni. The country's only newsprint mill is located at Nepanagar. The Bhilai Steel Plant near Durg is fast coming up. Other important industries are potteries, biscuits, sugar, carpets, art silk, razor blades, diesel engines, jute, glass, engineering goods and rayon.

Production in each industry : Cotton textile 40 crore yards Sugar 13 35,735 maunds; Biscuits and confectionery 2,000 tons; Cement 4 10,000 tons, Newsprint 30 000 tons

Total no of registered factories : 1,811.

Total no of workmen employed : 1,53,256.

COTTAGE INDUSTRIES

The State is also famous for traditional village and home crafts such as Chanderi Saree, leather toys, cloth, paper and clay toys, pottery, grass mats, lac work, coconut bangles, metal utensils etc. Ancillary industries such as dyeing, calico-printing and bleaching have also concentrated in areas which produce handloom cloth, silk or woollen products. Woodwork and lacquerware are also famous.

Main Cottage Industries in the State with location in brackets :—Handloom (Nearly 68,076 looms spread all over the State); Kosa & Silk (Surguja, Indore, Bilaspur); Chanderi turbans and saries (Maheshwar, Chanderi); Woodwork and Lacquerware (Sivpuri, Sabalgarh); Wooden Toys (Bhopal); Softstone work (Jabalpur); Brasswork (Balaghat and Chhindwara); Lac (Seoni, Raipur and Bilaspur); Saw-milling (Betul, Balaghat, Bilaspur and Mandla).

AGRICULTURE

Main food crops of the State : Rice, Juar, Wheat, Gram, Pulses, Maize, Bajra.

Main cash crops of the State : Cotton, Sugarcane, Oilseeds, Tobacco.

Total production of food crops in tons (1955–56) : 7,337,000.

Production of individual food crops in tons ; (1955-56); Rice 2,861,000; Wheat 1,358,000; Juar 725,000; Gram 548,000; Bajra 88,000; Maize 234,000.

Production of cash crops in tons : Oilseeds (1953–54) 327,000; Cotton bales (1955–56) 419,000; Sugarcane (Average 1949–50 to 1953–54) 87,000; Tobacco (1953–54) 3,000.

Total area cultivated (1956-57) : 37,540,000 acres.

Total area under wet cultivation (1956-57) : 2,057,000 acres.

Total area under food-crops (1954–55) : 34,455,000 acres.

Area under individual food-crops (1955-56) : Rice 9,417,000 acres; Juar 5,183,000 acres; Wheat 5,976,000 acres; Bajra 529,000 acres; Maize 1,034,000 acres; Barley 415,000 acres; Gram 3,500,000 acres; Tuar 997,000 acres.

Area under cash crops (1955-56) : Sugarcane 76,000 acres; Groundnut 654,000 acres; Cotton 2,324,000 acres; Tobacco 16,000 acres; Castor 20,000 acres; Tilli 1,106,000 acres; Linseed 1,293,000 acres; Mustard 334,000 acres.

A deficit of 15 to 25 inches of rainfall during the 1957 monsoon created severe drought conditions in almost all parts of the State. The overall loss in rice production in the 12 rice producing districts covering 72,052 square miles of the State's 171,201 square miles area was officially estimated at 1,482,000 tons. Rewa, Shahdol and Panna districts in the former Vindhya Pradesh area suffered most, the loss in the three districts being estimated at 75,62 and 62 per cent respectively of the normal yield.

Plantation in State : Jute.

Forests : Total Forest Area of State (1953–54) : 33,617,000 acres.

Main forest produce : Timber, Firewood and Charcoal wood, Katha.

Cattle (1956) : Total number of Cows : 22,560,000 ; Total number of Buffaloes : 4,995,000 ; Total number of Horses and Ponies : 253,000 ; Total number of Sheep : 898,000 ; Total number of Goats : 5,220,000 ; Other Livestock : 425,000 ; Poultry : 5,383,000.

(*For more statistical information see main article on Agriculture.*)

ELECTRIC POWER

The development of electricity in the constituent units of Madhya Pradesh is recent, the First Five-Year Plan being responsible for the establishment of a number of power projects. Including the installed capacity of the former Madhya Pradesh, Vindhya Pradesh, Bhopal and Madhya Bharat, the total installed capacity was nearly 180,000 kW. ; of this total, the former Madhya Pradesh alone had a capacity of 100,000 kW. Apart from the share to be available from Khaparkheda, the new State has a capacity of about 90,000 kW. apart from the new projects being installed. The major power stations in the 17 districts of Madhya Pradesh include a pilot power station at Raipur with an installed capacity of 4,000 kW., Chandni Power House with 17,000 kW., Jabalpur Power House with 9,250 kW., Katni Power House with 3,300 kW., Itarsi Power Station with 3,000 kW. A total of 31,100 kW. in former Madhya Bharat, includes 16,000 kW. Power House at Indore, 4,500 kW. Power House at Gwalior,* and a dozen other power houses. The former Vindhya Pradesh had a total capacity of 5,985 kW. and Bhopal 3,600 kW. The power projects in the offing include among others the Korba Power Station with a capacity of 90,000 kW. and the Gwalior Thermal Station* with a capacity of 25,000 kW. The Sagar Power Station was opened on 3-11-1957. It has a capacity of 2,500 kW. and the cost of the station is Rs. 7 lakhs.

Among the important power schemes under the Second Five-Year Plan are the Chambal Power Project with a capacity of 210,000 kW., the Bhopal Power Scheme, the Katni Power Station Scheme, the Burhar Steam Power Scheme and the Satna Thermal Station Schemes.

CO-OPERATION

As on 30-6-1956.

Total number of Co-operative Societies : 19,556.

Total membership of Co-operative Societies : 6,66,232.

Total Share Capital : Rs. 2,551·42 lakhs.

Number of Agricultural Co-operative Credit Societies : 16,645.

Number of Agricultural Co-operative Non-Credit Societies : 626.

Number of Non-agricultural Co-operative Credit Societies : 484.

Number of Non-Agricultural Co-operative Non-Credit Societies : 1,156.

Number of Co-operative Societies under liquidation : 549.

LAND TENURE

Different land tenure systems have been operating in the four constituent units of the new State but a uniform pattern is slowly emerging. In the former Madhya Pradesh, Vindhya Pradesh, Bhopal and Madhya Bharat, Zamindari, Malguzari and Jagirdari systems were abolished and legislative enactments have been framed and implemented. The former Madhya Pradesh also codified all land laws into what is now known as the Land Revenue Code.

The Madhya Pradesh Abolition of Proprietary Rights (Estates, Mahals, Alienated Lands) Act, 1950 (1 of 1951), has now been fully implemented and the State has taken possession of all the villages vested in the State under the above Act.

Number of persons expropriated under the law : about 150,000.

The compensation money will be paid from the State Revenues.

The State Government have decided that in future, Government land should be given for cultivation purposes to only co-operative societies of landless and petty cultivators or to landless or petty cultivators.

Under the new Land Revenue Code, there would be only two classes of tenures (besides Government lessees) for persons holding land from the State Government. After the abolition of proprietary rights, the land is now held directly from the State Government.

Any person who held land as a malik-makbuza in the Central Provinces or the merged territories or who held land as raiyat malik in the Central Provinces, or who held land as an absolute occupancy tenant or a plot proprietor or as a lessee of the Government will now be called "Bhumiswami."

Any person who held land as an occupancy tenant in the Central Provinces, as a raiyat in the merged territories, or as a permanent tenant or lessee of Government will be called "Bhumidhari."

A "Bhumiswami" may transfer any interest in his land and a "Bhumidhari" may transfer, otherwise than by way of mortgage, any interest in his land. No decree or order shall be passed for the sale or foreclosure of any right of the "Bhumidhari" in his land nor shall such right be attached or sold in execution of any decree or order.

The Madhya Pradesh Abolition of Proprietary Rights Act, 1950, provided for the acquisition of malik-makbuza rights on payment of a multiple of land revenue which varied from two to five times. To secure uniformity a multiple of three times has been prescribed for acquisition of "Bhumiswami" rights.

The "Bhumiswami" will have full rights in trees standing on his holdings ; but a "Bhumidhari" will have no right in the corpus of the trees.

Any person who holds land for agricultural purposes from a tenure-holder and who is not occupancy tenant or protected lessee and who pays lease money in the form of crop share will be ordinary tenant of such land.

The Land Tenure System in the former Madhya Bharat State—Ryotwari.

Number of cultivators under the system : 1,569,182.

Law governing land tenure system : Madhya Bharat Land Revenue and Tenancy Act, Samvat 2007.

Main provisions of the Act : No land to be allotted to a person holding 50 acres or more as pucca tenant ; Allotment of land for any purpose other than agriculture can only be made by Government sanction.

No partition of pucca tenant's holding unless the tenant is left with at least 15 acres ; A pucca tenant may mortgage his land by a simple or usufructuary mortgage to a *bona fide* agriculturist for a period not exceeding six years.

Pucca tenant's rights not to be sold if his total holding is 15 acres or less ; Tenant to be exempt from arrest and imprisonment in execution of decree passed by civil court or revenue authority.

Subject to rules under the Act, pucca tenant entitled to have, free of charge, suitable house site in village ; Allotment of land to be made by auction, preference being given to those having less than 15 acres in the same village or to those who have no land as pucca tenant.

Zamindari and Jagirdari abolition ; Laws for abolition of Zamindari and Jagirdari (Madhya Bharat Zamindari Abolition Act, Samvat 2008, and Madhya Bharat Jagirdari Abolition Act, Samvat 2008) have been enacted and enforced. Compensation payment to zamindars and jagirdars already commenced.

Provision of compensation : Eight times the net income for zamindars and seven times the net income for jagirdars.

In the former Vindhya Pradesh region [illegible] area was under the Jagirdari system. The M.P. Abolition of Jagirs and Land Reforms Act, 1952 was passed and the Jagir rights were abolished by 30-6-1954. According to this Act rights of 21,722 jagirdars were abolished and the State revenue increased by Rs 40,44,000.

The dispossessed jagirdars have challenged the Abolition of Jagirs and Land Reforms Act before the Supreme Court and meanwhile receive interim compensation.

In about ¼th of former State of Bhopal there were Jagirdars and their rights were abolished by the Bhopal Abolition of Jagirs and Land Reforms Act, 1953.

The following table gives an idea of the progress in the payment of compensation as at the end of 1957 :

Region	Amount payable (in lakhs)	Amount paid (in lakhs)	Balance payable (in lakhs)
Mahakoshal	500	350	150
Madhya Bharat	950	200	750
Vindhya Pradesh	250	62·06	187·94
Bhopal	7·15	6·13	1·02
TOTAL	1707·15	618·19	1088·96

EDUCATION AND PUBLIC HEALTH

The figures relate to 1956-57 :

Total number of Primary Schools ..	21,040
Total enrolment (1956)	7,70,794
Total number of Secondary Schools	1,311
Total enrolment (1956)	2,95,535
Total number of High Schools ..	346
Total number of Arts and Science Colleges	56
Total enrolment in all Colleges (1956)	6,569
Total number of professional Colleges	20
Total enrolment (1956)	5,052

Total number of Teacher Training Colleges (upto November 1, 1957).

Number of Universities 4

Names of the Universities with location in brackets :—University of Sagar (Sagar), Jabalpur University (Jabalpur), Vikram University (Ujjain), Indira Kala Sangeet Vishwa Vidyalaya (Khairagarh).

Education is free for the boys and girls of the age group 6–14 in the 17 districts of Mahakoshal. Primary education is compulsory and till the 10th class free in Vindhya Pradesh. In Bhopal and Madhya Bharat education is free upto VIII class.

* A grid linked to Chambal is now preferred.

PUBLIC HEALTH

Common diseases in the State : Malaria, Filaria and Tuberculosis.

Number of Medical Institutions : 1,070.

Number of beds : 12,155.

Number of Medical Colleges : 4

No. of allopathic hospitals : 204.

No. of allopathic dispensaries : 481.

Total no. of beds in the allopathic hospitals : 7,498.

No. of T.B. hospitals : 8.

No. of T.B. clinics : 21.

No. of leprosy homes and hospitals : 10.

No. of leprosy clinics : 70.

No. of Maternity homes : 67.

No. of mental hospitals : 2.

LABOUR

Position 1957 :

Number of registered factories : 1,811.

Number of workers employed in registered factories : 153,250.

Important industries with the number of units and workers employed respectively in each industry within brackets :

Textile (20 ; about 52,000) ; Ordnance (5 ; 11,608) ; Sugar (5 ; 4,460*) ; Cement (3 ; 3,375) ; Potteries (4 ; 2,508) ; Engineering (5 ; 2,467) ; Paper and Straw Board (3 ; 1,500) ; Rayon Silk (2 ; 1,450) ; Jute (1 ; 818) ; Biscuits and Confectionery (1 ; 750).

Total number of Trade Unions : 275.

Members of the Trade Unions : 100,540.

Total number of employments covered under the Minimum Wages Act : 14 (1957).

Approximate number of workers employed in the above employments : 525,000 (1957).

Important categories of employment under the Minimum Wages Act and the approximate number of workers employed in each category :

Bidi Making 232,000 ; Road construction and building operations 117,500 ; Local authorities 91,051 ; Cotton ginning and pressing 29,500 ; Stone breaking and stone crushing 14,000 ; Rice, Dal, Flour, Oil 12,930 ; Public Motor Transport 8,979 ; Cement 5,000 ; Potteries 2,670 ; Leather goods manufactories and tanneries 2,500 ; Lac manufacture 1,500 ; Glass 1 080.

Number of employees in shops and commercial establishments in 18 important towns in the Madhya Bharat and Mahakoshal regions (1957) ; 41,080.

No. of factories covered by the Provident Fund Scheme : 85 ; no. of factories exempted : 49 ; no. un-exempted : 36. Total no. of workers contributing : 62,591 ; no. of workers exempted 33,412 ; no. not exempted 29,179.

No. of factories covered by the employees State Insurance Scheme : 150 ; no. of employees covered : 59,640.

IRRIGATION

Projects in execution :

Name of Project	Location District	When started	When to be completed	Capacity M.cft.	Area proposed for irrigation acres	Total cost. Lakhs of Rs.	Financing Bodies	Estimated rise in output after completion
Gangulpara tank project ..	Balaghat	May 1953	March 1959	387·47	8,525	27·18	State and Central Govts.	(Food grains in Tons) 1,705
Durkrikheda tank project ..	Hoshangabad	,,	,,	406·998	6,600	24·83	,,	1,320
Dudhwa	Raipur	October 1953	March 1963	10,019·8	2,40,000	125·00	,,	28,000
Gondli	Durg	,,	March 1959	3,080·01	50,000	84·29	,,	10,000
Sarodha	,,	,,	March 1959	1,853·68	21,000	39·62	,,	4,200
Sampna	Betul	,,	,, ,,	528·87	9,500	31·00	,,	1,900
Chambal Valley Development Scheme.	Mandsaur	1952	1962	..	14,00,000	7,169·00	M. P. & Rajasthan Govts.	4,75,000

SECOND FIVE-YEAR PLAN

The Second Five-Year Plan of the State involves a financial outlay of Rs. 19,090·27 lakhs. The First Five-Year Plan of the four units envisaged a total outlay of only Rs. 8,375 lakhs. The Second Plan, in contrast, is much bigger in size as well as in scope. The distribution of the total outlay between various sectors of development is as follows :—

Head of development	Total (in lakhs of Rs.)
1. Agriculture & Community Development	4,253 ·?
2. Irrigation & Power	7,28·30
3. Industry & Mining	1,034·46
4. Transport & Communications ..	1,299·62
5. Education	2,062·85
6. Health	1,433·11
7. Housing	450·24
8. Other Social Services	928·17
9. Scientific & Industrial Research etc.	334·53
Total (includes other items not mentioned above)	19,090·27

Broadly speaking, 74·70 per cent of the total outlay represents real investment which would lay the foundations of the State's growing prosperity, both in industrial as well as in agricultural fields. The remaining outlay of 25·30 per cent will be spent on social services including education, health, housing etc. Besides, there are the Central Government Projects such as the Rs. 131-crore Steel Plant at Bhilai, opening of the Korba Coal Mines with an approximate cost of Rs. 21 crores and the establishment of a Heavy Electrical Equipment Plant at Bhopal.

Agriculture : Continued emphasis has been given to agriculture and allied subjects including the Community Development Programmes. During the period, about 35,000 acres of land will be brought under the plough and over 3 lakh acres of land under irrigation. During the same period, Rs. 628·11 lakhs will be spent over agricultural production and Rs. 651·88 lakhs over land development. The Animal Husbandry Plan is for Rs. 385·40 lakhs. For Dairying and Milk supply Rs. 77·59 lakhs, for Co-operation Rs. 378·80 lakhs, for Forests Rs. 276·94 lakhs and for Fisheries Rs. 24·80 lakhs have been provided in the Plan.

Community Development Programme : By the end of the Second Plan period, every village will be covered by the Community Development Projects. The State has been divided into 404 N.E.S. Blocks.

In 1956, there were 104 N.E.S., 8 Intensive T. W. and 50 C.D. blocks—162 in all in operation. They covered 32,009 villages and a population of 10,422,938. At the end of the Second Plan when the whole State will be covered there will be 404 blocks.

Irrigation & Power : About 37·66 per cent of the total outlay is provided in the Plan for irrigation & power plans. These include Rs. 77·15 crore Chambal Hydel & Irrigation Project, remodelling of Mahanadi Canal in Raipur district, Rila River Project in Sagar, Sukta River Project in Nimar, Pampavati Tank Project in Jaora District, Choral River Project in Indore District, Chillar River Project in Shajapur District, Ravigawan Canal Project in Satna District, the upper Ken Valley Project in Panna and the Nagod Canal in Satna District.

The Chambal and Tawa projects alone will irrigate about 20 lakh acres of land and generate 232,500 kW. of power. The Korba Thermal Scheme will generate 90,000 kW. of power.

Important among the power schemes are the Chambal Power Project with a capacity of 2,10,000 kW., the Tawa Power Project with 22,500 kW., the Korba Thermal Station Scheme with 90,000 kW., the Bhopal Power Scheme, the Birsinghpur Power Station and Satna Thermal Station Schemes.

Special mention may be made of the Korba Thermal Station Scheme which was originally estimated to cost Rs. 1148·31 lakhs. However, due to the demand for additional power and the accelerated development of the Bhilai Steel Plant with which the scheme is intimately connected, the outlay has been raised to 1228·86 lakhs. The progress of this scheme has to be maintained according to schedule to meet the demands of the Bhilai Project.

The original proposal for constructing a new Thermal Station at Gwalior has been changed for an alternative proposal for laying a transmission line under the Chambal grid from Sawai-Madhopur to Gwalior. This is now being undertaken by the Chambal Hydel Organisation.

The expansion of the Bhopal Power House has been linked with the Heavy Electrical Equipment Factory to be established very shortly.

Industry & Mining : During the Second Plan period, 2 Sugar Factories on co-operative basis will be started. A spinning mill of 12,500 spindles will be started which will have a production of 10,000 bales per year. A vegetable oil and solvent extraction Plant will be set up at a cost of Rs. 14·25 lakhs. A distillery for power and industrial alcohol is proposed to be started. Preliminary steps have already been taken for the establishment of a synthetic petrol plant at Korba, and a cement factory in Bilaspur district. Nearly 1,000 industrial co-operatives with a membership of 10,000 would be opened to help small scale industries.

All these besides the three major industrial undertakings, viz. the Bhilai Steel Plant, the Heavy Electrical Equipment Plant and the exploitation of the Korba Mines, as also the harnessing of the rich deposits of a variety of mineral resources will make Madhya Pradesh an important industrial area.

Roads will also be improved in the State for which Rs. 1,299·62 lakhs have been provided.

* During the season.

Education: In the Plan, Rs. 782·89 lakhs have been provided for primary, Rs. 448·85 lakhs for secondary, Rs. 242·73 lakhs for technical and vocational and Rs. 85·03 lakhs for social and Rs. 10·94 lakhs for physical education.

Over 10,000 Primary Schools, 7 new girls' high schools, one degree College, One University and a number Junior Technical Schools, Polytechnics and Multi-purpose schools will be started during the Plan.

Public Health: New schemes for the control and eradication of diseases, opening of new hospitals, providing medical facilities in rural areas will be taken up. The Plan provides Rs. 463 lakhs for hospitals, Rs. 231 lakhs for water-supply, Rs. 202·65 lakhs for control of diseases, Rs. 285 lakhs for medical education and training, etc.

Provision has also been made for other social services *e.g.* Rs. 69 lakhs for industrial housing, Rs. 92 lakhs for urban land development and Rs. 262 lakhs for special housing schemes.

The Plan also provides a sum of Rs. 490 lakhs for the welfare of Scheduled and Backward classes and Rs. 53 lakhs for labour welfare. A sum of Rs. 22·50 lakhs has also been provided for developing tourist traffic.

BUDGET ESTIMATES FOR 1958-59

Revenue: Rs. 5,616·79 lakhs
Expenditure: Rs. 5,506·76 ,,
Surplus: Rs. 110·03 ,,

MADHYA PRADESH FINANCIAL CORPORATION

(Shiv Vilas Palace, Indore City.)

The Madhya Bharat Financial Corporation was set up by a notification of the former Madhya Bharat Government dated 30th June 1955 in exercise of the powers conferred by the State Financial Corporations Act, 1951. After the integration of M.B. into Madhya Pradesh it is now called M. P. Financial Corporation.

The Corporation started functioning on 1st July 1955.

The object of the Corporation is to assist and further the industrialisation of the State by providing institutional credit, medium and long term, to industrial concerns in Madhya Pradesh. Financial accommodation will not only be granted by the Corporation to public limited companies and Co-operative Societies but also to private limited companies, partnerships, joint Hindu families, and sole proprietorship concerns. The Corporation is however intended to supplement the activities of the existing lending agencies and not to displace them or make inroads into the field of Commercial Banks, nor can it possibly do away with the need of raising a substantial part of the capital finance required by industrial concerns through other sources.

Industrial concerns which are eligible for financial accommodation are those engaged in the following activities namely manufacture of goods, preservation of goods, processing of goods, mining, and generation or distribution of electricity or any other forms of power.

The Corporation will generally grant accommodation for acquisition of fixed assets—for renovation, expansion or modernization but may also give loans for working capital in special cases. Loans will also be given for the development of new concerns. While the Corporation is set up to provide medium and long term credit to industrial undertakings, it would also provide working capital only in those cases where the industrial concerns are unable to obtain finance from commercial banks or other sources and the Corporation is satisfied in the matter, provided that uneconomic units shall not be given any fresh lease of life by the grant of loans for working capital by the Corporation.

The Corporation is authorized by its Act to make advances on the security of the fixed assets of the concern *viz.* land, building, plant and machinery. Loans will not ordinarily be given in excess of 50 per cent of the net value of the assets mortgaged and the assistance will in no case exceed Rs. 10 lakhs. A personal guarantee of proprietors, partners, managing agents or directors where there are no Managing Agents or Managing Directors as the case may be, is required in addition to the security in the form of fixed assets with a view to safeguarding the interests of the Corporation.

The rate of interest will be six per cent per annum with half-yearly rests.

The period of loan will be decided on the merits of each case, but will not ordinarily exceed 10 to 12 years though the maximum period upto which loans can be granted has been fixed at 20 years. The principal amount of loan will be repayable by instalments which would be determined according to the circumstances of each case.

The assets offered in mortgage to the Corporation should be insured by the borrowing concern upto their full value with insurance companies approved by the Corporation.

The authorized share capital of the Corporation is Rs. 2 crores divided into two lakh fully paid shares of the face value of Rs. 100 each, out of which one lakh fully paid shares of the value of Rupees one crore are issued in the first instance. A dividend of 3¼ per cent per annum on the share capital of the Corporation has been guaranteed by the former Madhya Bharat Government by their notification dated 18th July 1955.

The Corporation received 47 completed loan applications till 31st March 1958. The Board sanctioned advances to 20 industrial concerns for Rs. 71,90,000 and rejected 12 cases for Rs. 22,79,000. Six applications for Rs. 9,90,000 were withdrawn by the applicants. Nine applications for Rs. 16,05,000 were under consideration as on 31st March 1958.

Board of Directors:

D. P. Mandelia (*Chairman*), Secretary, Finance Dept., M.P. (B. L. Pandey, I.A.S.), Secretary, Commerce and Industry Dept., M.P. (P. D Chatterjee, I.A.S.), Nominee of the Reserve Bank (O. R. Srifilvasan), Nominee of the Industrial Finance Corporation of India (D. R. Madhok), Elected by financial institutions like Scheduled Banks, Co-operative banks, etc. (N. D. Joshi, D. G. Bhalerao, Suganmal Bhandari), Elected by share-holders (Lalchand B. Sethi), C. B. Gupta (*Managing Director*).

GWALIOR MUNICIPAL CORPORATION

Commissioner, B. S. Arora, M.B.A.S. (Senior).

Administrator, K. N. Sinha, I.A.S.

Income for 1956-57: Rs. 21,20,848-13-11.

Expenditure for 1956-57: Rs. 17,36,078-0-10.

INDORE MUNICIPAL CORPORATION

Mayor, Purushottam Vijay.

Deputy Mayor, Balakrishna Gohar.

Commissioner, B. V. Vora, I.A.S.

Administrator, Narayan Singh, I.A.S. (Collector of Indore District).

Estimated Income for 1957-58: Rs. 62,19,700·

Estimated Expenditure for 1957-58: Rs. 61,83,900.

ADMINISTRATIVE PERSONNEL

(*See under 'States Administrative Personnel'.*)

LEGISLATIVE ASSEMBLY

(See under 'General Elections'.)

UNIVERSITIES

JABALPUR UNIVERSITY

Building of Veterinary College, Opposite G.P.O. Jabalpur.

The Jabalpur University was established on 11th March 1957. It is a teaching and affiliating University.

Chancellor, H. V. Pataskar, B.A., LL.B., Governor of Madhya Pradesh.

Vice-Chancellor, Pandit K. L. Dubey, B.A., LL.B., M.L.A.

Rector, U. Misra, M.A., LL.B.

Registrar, K. R Pandya, M.A.

Number of affiliated colleges: 17 (The status of colleges as constituent colleges to be decided later).

Number of students in the University Approximately 7,000.

List of Colleges affiliated to the University

G. S. College of Commerce & Econms., Jabalpur.
Mahakoshal Mahavidyalaya, Jabalpur
Prantiya Shikshan Mahavidyalaya, Jabalpur.
Govt. Engineering College, Jabalpur.
Veterinary College, Jabalpur.
Hitkarini Mahavidyalaya, Jabalpur.
Hitkarini Law College, Jabalpur.
Nabin Vidyabhawan Law College, Jabalpur.
Training Institute for Women, Jabalpur
D. N Jain College, Jabalpur
St. Aloysius College, Jabalpur
M. H. Home Science College, Jabalpur
Mahila Mahavidyalaya, Jabalpur.
Govt. Polytechnic, Jabalpur.
Govt. Agricultural College, Jabalpur.
Govt. Medical College, Jabalpur
Post Graduate Training College, Jabalpur

Sagar University

Founded: 1946

Chancellor, Dr. K. N. Katju, Chief Minister, Madhya Pradesh.

Vice-Chancellor, Dr. D. P. Mishra, B.A., LL.B., D. Litt.

Registrar, Prof. Ishwar Chandra.

It is a teaching as well as an affiliating University.

Number of affiliated Colleges: 26.

Number of Students: Teaching Departments: 1,192. Affiliated Colleges: 4,969.

Budget (1957-58).

Total income: Rs. 1,14,65,287.

Total expenditure: Rs. 1,18,42,870.

COLLEGES

Chhattisgarh College, Raipur.
College of Science, Raipur.
Damoh Arts College, Damoh.
D.S.V. Sanskrit Mahavidyalaya, Raipur.
Digvijai Mahavidyalaya, Rajnandgaon.
Government Ayurvedic College, Raipur.
Government College of Engineering and Technology, Raipur.
Government Training College, Khandwa.
Government Training College, Raipur.
Jagannath Mahavidyalaya, Chhindwara.
Janata Arts College, Betul.
Kirodimal Govt. Polytechnic, Raigarh.
Law College, Durga Education Society, Raipur.
Maharaja College, Chhatarpur.
Narmada Mahavidyalaya, Hoshangabad.
Narsingh Mahavidyalaya, Narsinghpur.
New Arts and Commerce College, Raipur.
Post-graduate Basic Training College, Bhopal.
Pt. Chhitani Pd. Mitani Pd. Dubey Commerce & Arts College, Bilaspur.

Rani Durgavati Mahavidyalaya, Mandla.
Sardar Vallabhbhai Polytechnic, Bhopal.
Seva Sadan Arts College, Burhanpur.
Shri Nilkantheshwar College, Khandwa.
S. B. R. College, Bilaspur.
Lahiri College, Chirimiri.
Thakur Ranawat Singh College, Reva.

Vikram University
(Ujjain)

The Vikram University was established by law under Act 18 of 1955 and came into being on March 1,1957. It is an affiliating and teaching University.

Chancellor : H. V. Pataskar, B.A., LL.B., Governor of Madhya Pradesh.

Vice-Chancellor, Dr. Mata Prasad, D.Sc., F.R.I.C., F.N.I.

Registrar, G. D. Widhani, M.A.

DEANS OF FACULTIES

Arts : Dr. C. P. Brahme, M.A., Ph.D., LL.B., Prof. & Head of the Deptt. of Philosophy, Indore Christian College, Indore.

Science : Dr. S. S. Saxena, M.Sc., Ph.D., F.A.Z., Prof. & Head of the Deptt. of Zoology, Victoria College, Gwalior.

Commerce : S. L. Sharma, M.A., B Com., LL B. Prof. & Head of the Deptt. of Commerce, Holkar College, Indore.

Law : P. P. Pandit, B.Sc., LL B., Prof. & Head of the Deptt. of Law, Holkar College, Indore.

Agriculture : M. L. Purohit, B.Sc., Asso. I.A.R.I., Prof., College of Agriculture, Gwalior.

Medicine : Dr. B. C. Bose, M.D., D Sc., Principal, M. G. Medical College, Indore.

Engineering : V. H. Acharya, B A., B Sc., M Inst., M.E. (Lond.), Principal, Sri Govindram Seksaria Technological Institute, Indore.

Veterinary Science & Animal Husbandry : R. L. Kaushal, L.V.P., P.G., Principal, College of Veterinary Science & Animal Husbandry, Mhow.

Education : Vacant.

The names of the constituent and affiliated colleges are given below :

CONSTITUENT COLLEGES :

Indore Christian College, Indore.
Holkar College, Indore.
Madhava College, Ujjain.
M.G.M. Medical College, Indore.
Victoria College, Gwalior.
G. R. Medical College, Gwalior.
Government Hamidia College, Bhopal.
Gandhi Memorial Medical College, Bhopal.

AFFILIATED COLLEGES :

Girls' Degree College, Indore.
Shri Govindram Sakseria Technological Institute, Indore.
Kamla Raje Girls' College, Gwalior.
M. B. College of Agriculture, Gwalior.
Government Degree College, Ratlam.
G. P. Degree College, Morena.
M. B. College of Veterinary Science and Animal Husbandry, Mhow.
Rafi Ahmed Agricultural Research Institute, Sehore.
Basic Training College, Bhopal.

ASSOCIATIONS, SOCIETIES, ETC.

ALL-INDIA LOCAL BODIES FEDERATION
Satna (M.P.).

THE ASSOCIATION OF ELECTRICAL UNDERTAKINGS
Madhya Pradesh and Rajasthan, Mandasaur (Madhya Pradesh).

Founded in 1950.
President : J. L. Mittal.
Vice-President : N. C. Jhaveri.
Secretary : Balwant Singh Singhvi, B.com.

CENTRAL TECHNICAL INSTITUTE
Maharani Laxmibai Road, Lashkar, Gwalior.
Principal : B. D. Kelkar.

CHAMBER OF COMMERCE
Ujjain.
President, M. D. Singh.
Vice-President, Phulchand Ajmera.
Secretary, Meghraj Kothari.

CHRIST CHURCH
Mhow.
Priest in charge, Rev. Wilfred Parmer.
Hony. Secretary, Lt. Col. E. G. Pettengel.

CHURCH OF ENGLAND
Neemuch.
Visiting Chaplain, Revd. A. M. Dalaya.
Secretary & Treasurer, P. G. White.

DIOCESE OF INDORE
Bishop's House, Catholic Church, Indore.
Bishop of Indore, Rt. Rev. Dr. Francis M. Simons, S.V.D.
Superior Regular, Very Rev. Father Henry Wichelmann, S.V.D.

The Diocese of Jabalpur
Bishop's House, -Jabalpur.
Bishop of Jabalpur, C. Dubbelman, o praem. D. D.

THE CATHEDRAL OF S.S PETER & PAUL
1, Queen's Road, Jabalpur.

THE CHURCH OF THE MOST H. TRINITY
23, Napier Town, Jabalpur.

THE CHURCH OF ST THOMAS
Ranjee Khamaria, Westland, Jabalpur.

THE ST. ALOYSIUS' COLLEGE
Cecil East Street, Jabalpur.

GOVERNMENT AGRICULTURAL INSTITUTE
Laxmipur P.O., Panna, M.P.
Principal, Shiva Nand Jha, M.A., B Sc. (Ag).

SHRI GOVINDRAM SEKSARIA TECHNOLOGICAL INSTITUTE
Opposite Nehru Park, Indore.
Principal & Secretary and Head of Civil Engineering Department, Prof. V. H. Acharya, B A., B Sc. (Hons.), (Bom.), B.Sc. (Hons.) (Edin.), M. Inst., M.E. (Lond).
Professor & Head of the Mechanical and Electrical Engineering Department, Prof. N. R. Das Gupta, B Sc. (Hon.) Cal., B. Eng. (Sheffield), M.I.E., M.M G I, Dip. in Admn. (Man.).

JABALPUR PRESS OWNERS' ASSOCIATION
468, Marhatal, Jabalpur.

KASTURBA GANDHI NATIONAL MEMORIAL TRUST
Address :—P. O. Kasturbagram, Dist. Indore (Madhya Pradesh).

Aims and Objects :—Welfare of women and children in rural areas of India. The Trust trains women workers for educational, vocational and health programmes and after training deputes them to rural areas.

The Fund amounts to Rs. 91 lakhs which have been invested in Government Securities. The sources of income are :—Corpus of the original Trust Fund ; Interest on Government Securities ; from the Gandhi Smarak Nidhi ; from Central Social Welfare Board and subscriptions collected in States towards part of the expenses of the village centres.

The Trust at present runs about 300 centres in pre-basic, basic, adult education and craft centres, maternity homes, leprosy relief centres, etc.

Besides running 21 training schools, the Central Training Institute is located at Kasturbagram, five miles from Indore, where Social Education Organisers' Training, Instructors' Training, Gram Sevika Training, Pre-basic Teachers' Training and Midwifery Training are being conducted by the Trust.

The Trust is the principal agency for training gram sevikas of the Central Social Welfare Board, who will work in their welfare extension projects. The Trust has so far trained nearly 500 trainees of the Board and about 1,000 are under training.

Chairman : Mrs. Premlila Vithaldas Thackersay.

Vice-Chairman : Mrs. Rameshwari Nehru.
Secretary : Susheela Pal.

MADHYA BHARAT CHAMBER OF COMMERCE AND INDUSTRY
"Chamber Bhavan", Dharma Mandir Road, Lashkar (Gwalior).

Advisory Body for the promotion of Trade and Industry.

President, D. P. Mandelia.
Vice-President, Bansidar Bansal.
Hony. Secretary, Ram Babu Vaishya.
Hony. Jt. Secy., Krishnadass Garga.

MADHYA PRADESH MILLOWNERS' ASSOCIATION
11, South Tukoganj, Indore.
Chairman, Rao Raja Lt.-Col. Seth Hiralalji.
Vice-Chairman, Pearelalji Seksaria.
Secretary, G. B. Zalani.
Telegraph : 'Millowners'.

MAHAKOSHAL CHAMBER OF COMMERCE
Jabalpur.

MASIHI SEVA MANDAL
Malwa Church Council.

The Masihi Seva Mandal works under the auspices of the Malwa Church Council of the United Church of Northern India.

Secretary and Executive Officer, Rev. I. Khimia, United Church of Northern India, Ratlam.

Treasurer, Miss M. E. Martin, Dhar.

THE MALWA CHAMBER OF COMMERCE
49, Sitlamata Bazar, Indore City.

President, Rai Bahadur Shri Rajkumarsinhji Kasliwal ; *Vice-President,* Seth Suganmalji Bhandari ; *Honorary Secretary,* Muntzim Bahadur Chhaganlalji Mital ; *Honorary Jt. Secretary,* Seth Radhakishanji Muchhal.

SACRED HEART CHURCH & HIGH SCHOOL (RAJESHVARVIDYALAY)
Cath. Church, Mhow, M.P.
Parish Priest, (Rev.) Fr. Bernard Wisniewski ; *Principal,* (Rev.) Fr. Mario Barreto.

TOBACCO & BIDI MERCHANT'S ASSOCIATION
Sagar.
President, Chintaman Rao ; *Treasurer,* Mathurbhai Patel ; *Secretary,* G. K. Kher.

TRADES AND PROFESSIONS

(Jabalpur)

Abdulla Bhai & Sons, Dr., Juma Masjid, Jabalpur.
Allahabad Bank Ltd., Civil Lines, Jabalpur.
Bhargava Commercial Bank Ltd., Jabalpur.
Bhatia Corporation, Bombay House, Jabalpur.
Bhatia Morarji Dhanji Bhai, Jawaharganj, Jabalpur.
Bombay Cycle Stores, Marhatal, Jabalpur, M.P.
Delite Talkies, South Civil Lines, Jabalpur.
Dunne, T. C., P. O. Katni, Jabalpur, M.P.
Educational Book Depot, Jabalpur.
Empire Engineering Works, Jabalpur.

For representation in Madhya Pradesh & Viderbha : ALLIED COMMERCIAL CORPORATION, Importers, Exporters & Manufacturers' Representatives, Dealers in Electrical Goods & Machinery, Nagpur 2. Managed by C. D. Shah & Sons ; Phone : 2819; Grams : "ALLIEDCO"; P. B. 5106, Bombay 9.

Franklyn-Woods, Dr., B., Dental Surgeon, 49, Denning Road, Jabalpur.
Gopal Plywood Industries, The, Madan Mahal, Jabalpur.
Gujarat Boot House, Netaji Subash Chandra Road, Jabalpur.

HARPRASAD VISHWANATHPRASAD, Lime & Mineral Works, Post Box No. 60, Katni, M.P.

Hussain, G. K., & Co., Cantonment, Jabalpur.
Imperial Pharmacy, Jabalpur.
Imperial Tobacco Co. of India Ltd., 111-A, Sleeman Road, Jabalpur.
Jackson's Hotel, Jabalpur.
Jubbulpore Automobiles, East Street, Cantt., Jabalpur.
Jubbulpore Electric Supply Co. Ltd., Jabalpur.
Khushalchand Nirmalkumar, Sarafa Jabalpur.
Kingsley & Co., 18, Civil Station, Jabalpur, M.P.
Macpherson & Co., Mine Owners, P.O. Bandhi, Jabalpur.
Madanmahal Industries, The, near Madanmahal Railway Station, Amanpur, Jabalpur.

MALAIYA OIL MILLS, Sauger, M.P., Manufacturers of Til Oil, Coconut Oil, Niger Oil, Mohwa Oil and Linseed Oil; Also Soap and Dal Manufacturers; Other Concerns ; 1. Shremik Oil Mills, Satna, V.P. 2. Rajkumar Oil Mills Ltd., Damoh, M.P.

Modern Book House, 286, Jawahargunj, Jabalpur, M.P.
Motor House, 106, Wright Town, Jabalpur.
Oriental Government Security Life Assurance Co. Ltd., Jabalpur.
Patel, J. L., & Sons, Machinery Merchants, Jabalpur.

PERFECT POTTERY CO. LTD., Jabalpur (Estd. 1905). Head Office and Works : Jabalpur, M.P. Tel. Address : "STONEWARE". Telephone No. 30. Manufacturers of Stoneware pipes and fittings, Sanitarywares, Fire bricks, Flue covers, Seating blocks and all other Refractory articles. Branch at : Calcutta ; Stockists in all important cities.

Plaza Talkies, Marhatal, Jabalpur.
Rosalia & Sons, Fourth Bridge Road, Jabalpur.
S. Amar Singh Pall & Bros., Narbudda Road, Gorakhpur, Jabalpur.
Sanghi Electric Company, Jawaharganj, Jabalpur.
Sanghi Emporium, Tilakbhumi, Jabalpur.
Shambhu Nath & Sons, Cantonment, Jabalpur.
Shree Krishna Talkies, Jabalpur.
Shyam & Laxmi Talkies, Jabalpur.
Shyam Medical Hall, Andherdeo, Jabalpur.
Shyam Stationery Mart, Andherdeo, Jabalpur.
The Mahakoshal Metal Works, Ltd., Jabalpur.
The Calcutta Shop, Netaji Road, Andherdeo, Jabalpur.
Thuber, S. K., & Sons, 656, Wright Town, Jabalpur, M.P.
Tiwari, P. N., & Sons, Jabalpur.
Victor, I., & Co., Station Road, Jabalpur.

TRADES & PROFESSIONS

(Indore)

Agarwal Store, 20, Mahatma Gandhi Road, Indore.
Anupam Bhandar, Stationers & Booksellers, Dewas.
Anupam General Stores, 15, Ranipura, Indore.
Ashok Medical Stores, Jawahar Chowk, Dewas.
Aspi & Company, 64, Maharani Road, Indore.

BANK OF DEWAS LIMITED, THE, (Established in Dewas 1936), Head Office : Anandpura Road, Dewas. Branch Office : Sarangpur.

BANK OF INDORE LIMITED, Head Office : Prince Yeshwant Road, Indore City. Branch Offices at Cloth Market, Siyaganj and Sanyogitaganj, Indore City. Other Branches at 44, Mamam Street, and Jai Hind, Bhuleshwar, Bombay, Ajmer, Bhopal, Dhar, Khargone, Shajalpur, Sanawad, Mhow, Ujjain, Ratlam and Tarana. Pay Offices at Jaora and Sendhwa.

Bansilal Agarwal & Bros., 4, Ranipura, Siyaganj, Indore.
Bata Shoe Agency, Shalini Road, Dewas.
Bharat Radio and Auto Electric Co., The, 56, Snehalata Gunj, Indore City.
Central Stores, Rampurawala Building, 57, Mahatma Gandhi Road, Indore City.
Dewas Senior Bank Ltd., The, Shri Shalini Raje Building, Dewas (Senior).
General Stores, Topkhana Main Road, Indore City.
Gulzar Stores, Dewas.
Hukam Chand Mills Ltd., The, Indore.
Indore Umbrella Factory, Siyaganj, Indore.
International Produce Exchange, 84, Topkhana Main Road, Indore City.
Jain Brothers, Maharani Road, Siyaganj, Indore (M.B.).
J. B. Mancharam & Co., Gwalior (M.B.).
Kasyap & Company, Mahatma Gandhi Road, Ratlam.
Keshrimal Bherulal, Jaora, Malwa.
Khandekar, G. W., 72, Juna Topkhana Road, Indore City.
Krishna Cycle Company, 14, Maharani Road, Indore City.

Madhyan Vargeeya Vyaparik Limited, 26, Gandhi Road, Indore City.

Malwa Traders, Maharani Road, Indore.

Merwanji Rustomji & Company, Partabgarh (Rajputana), *Via* Mandsaur, Western Rly.

NEMICHAND R. JAIN & CO., 35, Gorakund, Indore City. Manufacturers of Mill Crayons and Chalk Crayons; Dealers in Stationery and Mill Stores. Phone: 6436. Grams: "MITALCO."

New Glass Stores, The, Jawahar Chowk, Dewas.

New Medical Hall, The, opp. Civil Hospital, Dewas.

Patel Shah & Co., Maharani Road, Indore City.

Pherozeshah & Co., The Times of India Agents, Nemuch.

Pioneer Dairy Farm, Manorama Ganj, Indore.

Poorker Brothers, 68, Topkhana Main Road Indore.

Prem Stores, Shalini Road, Dewas.

Ramaji Kishanlal Modi & Sons, 13, Sardar Bazar, Dhar.

Ramchandra Munnalal Jhavar, Motor Stand, Dewas.

Rasiklal Kadia & Co., Jail Road, Indore.

Rising Sun Watch Co., 70, Mahatma Gandhi Road, Indore City.

Saijee Stores, Shalini Road, Dewas.

Shanker Medical Stores, The, Jawahar Chowk, Dewas.

SANGHI BROTHERS (INDORE) PRIVATE LTD., Post Box No. 1. Indore City, M.P. Phones: 7156 & 7494. Grams: "SANGHI". Dealers for Tata-Mercedes-Benz Diesel trucks and Buses, Willys Jeep Vehicles, Standard Cars, Royal Enfield Motorcycles and Agents for Godrej Steel Goods and Typewriters.

Seva Medical Stores, The, Near M. G. Hospital, Dewas.

Stationery and Paper Mart, The, 4/11, Ranipura Main Road, Indore City.

Sudhakar Natu Bros., 265, Bajarangpura, Dewas.

Surajmal Munnalal, Dhar.

SWADESHI COTTON AND FLOUR MILLS PRIVATE LTD., Shilnath Camp, Indore (Madhya Pradesh). Tel. Address: "SWADESHI." Tel. No.: Indore 7486. Cloth Shop at 31, M. T. Cloth Market, Indore City. Tel. Address: "GOODWILL". Telephone No. 7485. 27,196 Ring Spindles, 558 Looms. Manufacturers of Grey Sheeting, Long Cloth, Coatings, Kashmiras, Cotton Waste Blankets, Flannels, Twills, Drills, Dosuti and all types of Dyed, Bleached and Printed Piece-goods. Largest Exporters of Piece-goods in Madhya Pradesh.

Surajmal Munnalal, Dhar, Madhya Pradesh.

The College Stores, Mahatma Gandhi Road, Indore.

The Jaora High Class Confectionery Works, Jaora.

The Union Stores, Mahatma Gandhi Road, Indore.

Tyyebi Dawakhana Unani (Indore) Private Ltd., 52, Bohra Bazar, Indore City (M.P.).

UNITED ENGINEERS & CO., Electrical Dealers, 88, Mahatma Gandhi Road, Indore City.

Variety Stores, 39, Mahatma Gandhi Road, Indore City.

Varma Metal Turning Works, 27, Gorakund, Indore.

Vasanji Torkhia, A. & Co., 35, Sutargali, Indore City.

Venus Medical Stores, 72, Maharani Road, Indore City.

Yunus & Iqbal Co., 3, Ranipura, Indore City.

Wazir Mohamed Noormohamed, Cloth Market, Indore City.

ZALANI BROTHERS, 88, Mahatma Gandhi Road, Indore City.

THE BINOD MILLS COMPANY LIMITED, UJJAIN

(Including THE DEEPCHAND MILLS)

Established in 1914 *under the Patronage of H. H. Maharaja Scindia.*

Paid-up Capital Rs. 60,00,000 • Divided into Shares of Rs. 100 each.

Cotton Spinners, Weavers and Manufacturers of Absorbent Cotton Wool and Lint Cloth, Art Silk Fabrics, Textile Auxiliaries, Oils, Spindle Tape, Art Silk Ribbons and small Oil Engines, Dyeing and Bleaching Machinery, Cast Iron Pipes and Specials, Machinery Spare Parts, etc., etc.

UJJAIN - MADHYA PRADESH

Telegrams: "BINOD", Phone Nos. 144 Mills; 11 Director. Codes used: A B C 5th and 6th Editions and Bentley's.



Rai Bahadur Seth Lalchand B. Sethi, President.

Total No. of Spindles at work—Binod: 37,244. Deepchand: 23,396. Total No. of Looms at work—Binod: 858. Silk Looms: 82. Deepchand: 480. Total No. of hands employed: 4,500.

Sole Selling Agents:
Messrs. Binodiram Balchand & Sons.

Auditors:
Messrs. S. B. Bilimoria & Co.,
Registered Accountants.

Type of goods produced:
All kinds of Dyed, Bleached, Printed, Grey Cloth, Absorbent Cotton Wool and Lint Cloth, Satins, Voiles and Georgettes, Etc., Etc., Etc.

Other Concerns: Binod Silk & Art Silk Mills, Bhupendra Iron and Metal Works, Naresh Ginning and Pressing Factory, Naresh Oil Mills, Narendra Chemical Works, Absorbent Cotton Factory, Pradeep Tape and Webbing Factory at Ujjain, Rajendra Pressing Factory at Agar.

Other Directors: 1. Sir Seth Hukamchand Sarupchand, Kt., 2. Vanijya Bhushan Seth Nemichand B. Sethi, 3. Seth Bhanwarlal D. Sethi, 4. Danvir Seth Mannalal Omkarmal, 5. Seth Jawerilal Ramlal Gangwal, 6. Mr. R. C. Jail, M.A., LL.B., 7. Mr. Kailashchand B. Sethi, 8. Shri Chandmal Agrawal, 9. Shri Bhupendrakumar Sethi, B.A.

MADRAS STATE

Area : 50,111·81 sq. miles; Population : 29,975,357†.

Capital : Madras.

Representation in the Rajya Sabha : 17 ; in the Lok Sabha : 41 ; Strength of Assembly : 205 ; strength of Council : 63.

Districts with District headquarters in brackets : Madras (Madras), Chingleput (Saidapet), South Arcot (Cuddalore), Tanjore (Tanjore), Madurai (Madurai), Ramanathapuram (Tallakulam, at Madurai), Tirunelveli (Tirunelveli), North Arcot (Vellore), Salem (Salem), Tiruchirapalli (Tiruchirapalli), Coimbatore (Coimbatore), Nilgiris (Ootacamund), Kanyakumari (Nagercoil).

The pre-reorganization Madras State lost, in accordance with the provisions of the States Reorganization Act, the District of Malabar, the District of South Kanara, the Kollegal Taluk of Coimbatore District, and the Laccadive, Minicoy and Amindivi Islands and acquired five Taluks from the pre-reorganization Travancore-Cochin : Agastheeswaram, Thovala, Kalkulam, Vilavancode which have been constituted into a separate district known as Kanyakumari, and Shencottah taluk which was attached to the Tirunelveli District with effect from November, 1, 1956.

According to the Pataskar Award, Madras is to get some areas from Chittor District in Andhra Pradesh which in its turn will get some areas from Salem and Chingleput districts in Madras.

Languages spoken : Tamil, Malayalam, Telugu. The vast majority of the people is of the Dravidian race.

BUDGET (1958-59)

Revenue	: Rs. 62·4	crores.
Expenditure	: Rs. 63·75	,,
Deficit	: Rs. 1·35	,,

POPULATION

Population of districts : Madras 1,416,056 ; Chingleput 1,853,619* ; North Arcot 2,859,157 ; Salem 3,371,769* ; Coimbatore 3,154,296 ; South Arcot 2,776,767 ; Tanjore 2,982,670 ; Tiruchirapalli 2,943,882 ; Madurai 2,891,817 ; Ramanathapuram 2,080,519 ; Tirunelveli 2,445,967 ; Nilgiris 311,729 ; Kanyakumari 891,837.

Area of districts in sq. miles : Madras 49 ; Chingleput 3,054* ; North Arcot 4,674 ; Salem 7,063* ; Coimbatore 6,024 ; South Arcot 4,204 ; Tanjore 3,740 ; Tiruchirapalli 5,514 ; Madurai 4,910 ; Ramanathapuram 4,849 ; Tirunelveli 4,343 ; Nilgiris 984 ; Kanyakumari 646.

Names of the Districts with the names of Taluks within brackets. The first figure following the name of each Taluk indicates the area in square miles and the second figure the population of that particular Taluk :

Chingleput District* (Ponneri 626 ; 2,62,910 ; Tiruvallur 523 ; 3,08,314 ; Sriperumbudur 306 ; 2,05,739 ; Saidapet 227 ; 3,10,384 ; Kancheepuram 412 ; 2,96,759 ; Chingleput 436 ; 2,24,887 ; Madhuranthakam 531 ; 2,44,626) ; North Arcot District (Gudiyattam 481 ; 3,48,914 ; Vellore 432 ; 3,82,988 ; Walajapet 395 ; 3,18,907 ; Arkonam 319 ; 2,28,083 ; Tiruppattur 589 ; 3,57,111 ; Polur 568 ; 2,37,042 ; Arni 176 ; 1,67,510 ; Cheyyar 327 ; 1,98,931 ; Wandiwash 340 ; 2,11,123 ; Chengam 652 ; 1,79,128 ; Tiruvannamalai 375 ; 2,29,420) ; Salem District* (Hosur 1,168 ; 2,70,667 ; Krishnagiri 688 ; 2,87,359 ; Dharmapuri 946 ; 3,13,113 ; Harur 915 ; 2,21,227 ; Omalur 557 ; 3,87,926 ; Salem 377 ; 5,21,220 ; Tiruchengode 603 ; 4,75,287 ; Rasipuram 316 ; 1,85,906 ; Namakkal 692 ; 4,23,834 ; Attur 651 ; 2,65,471 ; Yercaud 148 ; 19,739) ; Coimbatore District (Gobichettipalayam 1,129 ; 3,94,267 ; Bhavani 572 ; 2,35,170 ; Avanashi 493 ; 2,72,536 ; Erode 599 ; 4,39,641 ; Coimbatore 528 ; 5,62,522 ; Palladam 585 ; 3,51,734 ; Dharapuram 854 ; 3,23,307 ; Pollachi 709 ; 3,84,677 ; Udumalpet 555 ; 1,90,442) ; South Arcot District (Gingee 410 ; 2,44,851 ; Tindivanam 561 ; 3,18,106 ; Kallakurichi 873 ; 3,69,040 ; Tirukoilur 584 ; 3,82,221 ; Villupuram 352 ; 3,16,989 ; Cuddalore 448 ; 4,30,082 ; Vriddachalam 576 ; 3,17,467 ; Chidambaram 404 ; 3,89,002) ; Tanjore District (Sirkali 171 ; 1,63,891 ; Mayuram 282 ; 3,21,403 ; Kumbakonam 212 ; 3,48,104 ; Tanjore 421 ; 3,81,984 ; Papanasam 228 ; 2,16,408 ; Nannilam 291 ; 2,48,487 ; Mannargudi 301 ; 2,48,830 ; Nagapattinam 240 ; 2,61,236 ; Pattukkottai 698 ; 4,01,818 ; Tiruthuraipundi 496 ; 2,48,942 ; Arantangi 398 ; 1,41,387) ; Tiruchirapalli District (Musiri 675 ; 3,03,680 ; Perambalur 678 ; 2,66,569 ; Udayarpalayam 749 ; 3,98,231 ; Lalgudi 373 ; 2,38,931 ; Karur 610 ; 324,801 ; Kulittalai 913 ; 4,05,847 ; Tiruchirapalli 328 ; 4,69,145 ; Kulathur 465 ; 1,47,155 ; Alangudi 347 ; 1,76,070 ; Tirumayam 367 ; 1,53,453) ; Madurai District (Palni 625 ; 2,72,002 ; Kodaikanal 361 ; 40,250 ; Dindigul 894 ; 5,54,767 ; Nilakkottai 410 ; 2,77,187 ; Melur 484 ; 2,24,211 ; Periyakulam 1,106 ; 5,84,530 ; Tirumangalam 721 ; 3,74,465 ; Madurai 268 ; 5,64,505) ; Ramanathapuram District (Tirupattur 567 ; 2,96,863 ; Sivaganga 657 ; 2,32,952 ; Tiruvadanai 548 ; 1,85,624 ; Srivilliputtur 437 ; 3,03,662 ; Sattur 580 ; 3,14,944 ; Aruppukottai 615 ; 2,42,777 ; Paramakudi 440 ; 1,81,593 ; Mudukalathur 647 ; 1,58,125 ; Ramanathapuram 334 ; 1,63,979) ; Tirunelveli District (Sankaranayinarkoil 635 ; 3,19,145 ; Kovilpatti 1,086 ; 3,66,261 ; Tenkasi 403 ; 3,22,351 ; Tirunelveli 325 ; 2,94,402 ; Srivaikuntam 362 ; 3,01,859 ; Ambasamudram 498 , 2,65,046 ; Nanguneri 705 ; 3,02,819 ; Tiruchendur 323 ; 2,74,044) ; Nilgiris District (Gudalur 279 ; 45,598 ; Ootacamund 462 ; 1,26,114 ; Coonoor 241 ; 1,40,017) ; Kanyakumari District (Agastheeswaram 107 ; 2,25,405 ; Thovala 142 ; 52,980 ; Kalkulam 229 ; 2,87,519 ; Vilavancode 167 ; 2,60,476 ; Shencottah 128 ; 65,457) ; Madras (Madras 49 ; 1,416,056).

There are proposals for reorganising the Local Administration. The major proposals in this regard are 1) substitution of District Boards by Unions of Panchayats ; 2) each village to have a Panchayat ; 3) transfer of powers of District Boards to Panchayat Unions ; 4) extension of tenure of panchayats and municipalities from three to five years.

While the panchayat unions are in formation the District Boards will be administered by Collectors who will be called Special Officers for this purpose.

Tamil has been introduced as official language in many Government Offices in the State from January 1, 1958, in pursuance of State Official Languages Act, passed by the last Assembly in December 1956, calling for the progressive introduction of Tamil as State's official language.

About 90 units of the several State Government departments in the city have switched over to Tamil for correspondence internally and with the public.

These include 17 units of the Electricity Department, three of the Food Production Department, six of the Public Works Department, and a few of the Revenue and Education Departments.

One thousand nine hundred and twenty-two Government offices in the mofussil have also started implementing this change-over from January 14.

INDUSTRIES

Chief Industries in this State are Textiles, General and Electrical Engineering, Sugar, Cement, Tobacco including bidis and cigar manufacture, bricks and tiles, tanning, glassware, chemicals, bicycles, and manufacture of utensils.

There were 114 cotton spinning and weaving mills at the end of 1957 (70 mills in Coimbatore District including the one newly licensed ; 18 in Madurai District, 7 in Tiruchirapalli District and 10 in Tirunelveli District). One mill in Madras City is one of the biggest in the country employing 13,727 workers. Another large mill in the State is in Madurai, which employs 12,341 workers. The largest employer of labour in the State is the Textile Industry.

The production of yarn for sale for civil consumption during the period January to June 1957 (six months) in the State was 109,157,000 lbs. or 2·73 lakh bales (bale of 400 lbs.)

Sugar :—There are five sugar factories in the State including the newly installed one at Tiruvarur, Tanjore District, and the installed capacity of these factories at the end of 1957 was 7,620 tons of cane per day.

Cement :—There are three cement factories in the State. The installed capacity of these factories at the end of 1957 was 7,24,820 tons.

Cycles :—There are two bicycle factories in the State. The Factory at Ambathur near Madras with an installed capacity of 2 lakh bicycles a year is one of the four biggest factories in the country.

Matches :—There are nearly 100 match factories using power and also not using power. The number of workers employed in the 23 power factories in 1957 was about 10,200. The production of matches in these factories during that year was 10·8 million gross boxes.

Tanneries :—There are nearly 300 tanneries in the State and most of them are non-power tanneries. The number of persons employed in the tannery using power in 1957 was 5,613. Value of exports of tanned hides and skins to overseas markets in 1956-57 was Rs. 24·21 crores.

Magnesite, bauxite and iron ores occur in Salem District. The Government are exploring the possibilities of setting up an iron and steel plant with Salem iron ore and South Arcot lignite and also an aluminium extraction plant. The following are some of the important minerals with their output during 1955 as shown within brackets : Limestone (8,73,376 tons), China-Clay (4,348 tons), Gypsum (51,022 tons), Magnesite (67,509 tons) and Bauxite (2,019 tons).

There is an Industrial Investment Corporation in Madras.

Main cottage industries : metals, leather goods manufacture, silk worms rearing, brass and bronze metal ware, conch shell.

A dozen major industries were either being started afresh or expanded in the State in 1957-58. The State has been assured of an aluminium plant with a capacity of 10,000 tons to be located at Mettur in Salem District. The National Industrial Development Corporation was expected to set up an iron smelting plant in Salem utilising local ore. A new paper mill has been licensed at Papanasam. A rayon pulp plant using eucalyptus and wattle, grown in the Nilgiris, was likely to be started at Bhavanisagar. A new cement factory at Ramanathapuram and a rubber tyre factory at Ambattur had been licensed. The erection of the new caustic soda plant at Tirunelveli was progressing and the capacity of the existing one at Mettur was being expanded. The new plant at Avadi for the manufacture of steel tubes commenced production early in 1957. Many new sugar factories were being organised. Work on the Rs. 4 crore Government of India printing press located halfway between Coimbatore and Mettupalayam was expected to be taken up early in 1958.

The Employees' State Insurance Corporation was inaugurated on 3rd January 1955. It covers 100 establishments with 36,000 workers of whom 8,000 are women.

* Population and area will change when the Pataskar Award takes effect.
† There is a slight discrepancy between this figure and the Central Govt. figure.

AGRICULTURE

The figures are for 1955-56 and have been worked out for the reorganised Madras State :

Total area cultivated (gross area) : 16·96 mln. acres.

Total area irrigated (net area) : 5·3 mln. acres.

Net area sown and its percentage to the total area : 14·15 million acres and 44·3 per cent.

Classification of area.	Area in acres.	Percentage to total area.
Forests	4,476,000	14·0
Barren and unculturable land	2,350,000	7·3
Land put to non-agricultural uses.. ..	3,187,000	10·0
Cultivable waste ..	2,105,000	6·6
Permanent pastures and other grazing lands..	933,000	2·9
Land under miscellaneous trees, crops and groves not included in the net area sown	570,000	1·8
Current fallows ..	2,594,000	8·1
Other fallow lands ..	1,608,000	5·0
Net area sown ..	14,158,000	44·3
Total area according to village papers ..	31,976,000	100·0

Livestock census of 1956 : Cattle 9,698,251 ; Buffaloes 2,040,944 ; Sheep 7,041,616 ; Goats 3,757,582 ; Horses and ponies 23,942 ; Mules 243.

Statement showing the area under important food crops and the yield in 1955-56.

	Area in acres	Yield in tons
Paddy	5,456,000	4,410,000
Millets	5,528,000	1,462,000
Pulses	1,099,000	114,000
Sugarcane.. ..	121,000	335,000*
Potatoes	21,000	56,000
Sweet Potatoes ..	14,000	54,000
Tapioca	42,000	161,000

The total area under paddy cultivation in the State for 1957-58 ; 5,540,000 acres.

The principal commercial crops of the State in order of the acreage under cultivation in 1955-56 were as follows :

Crops	Area in acres	Yield in tons
Groundnut .	1,793,000	827,000 (in shell)
Cotton ..	1,111,000	311,000 (Bales of 392 lb. lint).
Gingelly ..	360,000	44,000
Coconut ..	127,300	59,640**
Tobacco ..	67,000	36,000 (cured leaf)
Pepper† ..	10,000	2,000
Coffee ..	45,000	2,546††

Total area under paddy cultivation in Kanyakumari District . 221,041 acres.

Yield in 1957 . 110,000 tons.

Bananas, mangoes and citrus are the most important fruit crops of the State. The average area for three years ended 1955-56 under bananas was 64,550 acres with an yield of 428,400 tons, under mangoes 59,400 acres yielding 200,800 tons ; under citrus fruits 10,500 acres yielding 26,100 tons.

Total forest area : 4·48 mln. acres.

Total quantity of fish produced : 65,231 maunds.

The estimated marine fish landings for the State : 38,000 tons.

ZAMINDARI ABOLITION

The Zamindari Abolition Act facilitated State purchase of the rights of the intermediaries under a deferred payment system. Upto December 1957 the Government had bought the rights of 4,788 estate-holders for Rs. 2·87 crores paid as advance compensation and interim payment. The total compensation to be paid to zamindars will be Rs. 14 to Rs. 15 crores.

BHOODAN

The Bhoodan Campaign by Acharya Vinoba Bhave has gained momentum. The State Bhoodan Committee estimated that 50,000 acres had been given away. The Government introduced legislation for regularising and giving legal validity to the gifts, exempting gift deeds from court and stamp fees, constituting Bhoodan boards responsible for cultivation, and granting loans to these boards.

The Bill is before a select committee of the State Legislature. When approved it would facilitate the cultivation of bhoodan lands.

IRRIGATION

a) Total area irrigated : 5·3 million acres.

b) Total area which was expected to be irrigated at the end of the First Five-Year Plan : 5·03 million acres.

c) Total area which was expected to be irrigated when the projects under construction were completed : 5·34 million acres.

d) Anticipated extra food production at the end of the second Plan : 63,580 tons of food grains and 18,270 tons of cotton.

e) Anticipated extra food production on completion of the projects : 123,105 tons of foodgrains and 14,700 tons of cotton.

f) Total investment at the moment. : Rs. 2,604·16 lakhs.

Number of major projects: 9(excluding those in Malabar District which has merged into Kerala).

Name of Project	Date begun	Date for Completion	Estimated cost in Rs. lakhs	Area to be benefited (acres)
Lower Bhavani Reservoir Project (Coimbatore and Tiruchirapalli Districts)	January 1949	1955-56	951	207,000
Mettur Canals Scheme (Salem and Coimbatore Districts)	June 1949	March 1957	1s3·0 (revised)	45,000 (half wet and half dry)
Cauvery Delta Drainage Scheme	1945-46	1956-57	30	—
Manimuthar Reservoir Project (Tirunelveli Dist.) .	November 1950	December 1957§	505	20,000 dry converted into wet. 83,000 existing.
Aranlar Reservoir (Chingleput Dist.)	July 1951	December 1956	104	3,000 new 13,600 existing ayacut (gross).
Amaravathi Reservoir (Coimbatore Dist.)	1954	September 1957	310	21,000 half wet and half dry. 32,000 existing.
Vaigai Reservoir (Madurai Dist.)	April 1954	December 1958	330	13,000 dry to wet. 7,000 existing.
Sathanur Reservoir Project (North and South Arcot) ..	October 1954	September 1957	289	16,700 dry to wet. 3,300 existing.
Krishnagiri Reservoir (Salem Dist.)	December 1954	September 1957	202	5,040 new 2,460 existing.

* In terms of gur or jaggery. ** Copra. † Figures for 1954-55. †† As per annual statements of coffee production sent by the Collectors.

§ Commissioned in January 1958.

Extra production of foodgrains on completion of projects: Mettur Canals Scheme—10,000 tons rice; 7,500 tons millets; Manimuthar Project—20,000 tons rice; Aranlar Reservoir Projects—5,000 tons rice; Amaravathi Reservoir Project—5,500 tons rice and 2,150 tons millet; Vaigai Reservoir Project—7,500 tons rice; Sathanur Reservoir Project—8,000 tons rice; Lower Bhavani Project—33,000 tons rice. Also 14,700 tons of cotton; Krishnagiri Reservoir —2,855 tons rice.

In the short term programme for 1954-55 consisting of small irrigation schemes called G.M.F. or intensive cultivation schemes, were included 14 continuation works on which Rs. 2,78,718 were spent during 1954-55 to benefit to the extent of 5,940 acres of new and 17,518 acres of old ayacut; under the Tank Improvement Scheme there were 64 continuation works on which Rs. 1,99,107 were spent during the period to benefit an extra 1,704 acres. The special minor irrigation projects consisted of 99 continuation works and 101 new works. A sum of Rs. 20,64,450 was spent on the special minor irrigation works, the area to be benefited being 10,789 acres (new) and 48,329 acres (existing). Ayacut particulars relating to special minor irrigation programme are only approximate.

In the programme for 1955–56 under Intensive Cultivation (Grow More Food) Schemes there was one continuation work. The Tank Improvement Schemes consisted of 14 continuation works and the Special Minor Irrigation Programme consisted of 219 continuation works and 381 new works.

MINOR IRRIGATION

1955-56 :—

Name of the Scheme	No. of works	Programmed expenditure in lakhs	Actual expenditure in lakhs	Area to be benefited (acres)
Intensive Cultivation (Grow More Food) Scheme	1 (Continuation work)	0·30	..	361
Tank Improvement Schemes ..	14 (-do.-)	0·14	0·10	2,960
Special Minor Irrigation Programme works.	219 (-do.-) 381 New works	54·68	36·06	*

* 219 continuation and 381 new works were taken up for execution. A sum of Rs. 36·06 lakhs has been spent. Against 600 schemes shown, 102 works were completed by 31st March 1956. By the completion of these works, 30,14,007 acres of existing and 1,728·57 acres of new ayacut have been irrigated with an additional yield of 5,586·85 tons.

Special Minor Irrigation Programme works numbering 381 and continuation works numbering 219 new works have now been completed and an additional production of 15 per cent in paddy and 3 per cent in millet has been recorded. Programmed expenditure: Rs. 50·27 lakhs.

ELECTRIC POWER

Installed capacity (1955-56): 256,700 kW.

First Five Year Plan: The period was confind to construction of a new Power House at Moyar and extensions to the existing power stations at Pykara, Papanasam, Madurai and Madras. The installed generating capacity increased by nearly 65 per cent from 156,000 kW to 256,700 kW. The full Five Year Plan target of 110,200 kW was realised even during the fourth year of the Plan. The aggregate power demand increased from 130,000 kW to 208,000 kW and the units generated from 630 millions to 1,055 millions. About 3,000 miles of H.T. lines and 4,500 miles of L.T. lines were added to the grid during this period. Over 1,800 villages and towns were electrified and 18,000 pumpsets connected up for supply during the Plan period. Out of the allotment of Rs. 30·86 crores, a sum of Rs. 30·68 crores was spent to achieve these targets.

With the completion of the schemes in the First Plan, Madras State ranks third in India in generation and utilisation of power, Bombay and West Bengal leading; in respect of utilisation of power for irrigation purposes, Madras stands first by way of number of consumers, consumption and connected load. In the matter of hydro-electric output, Madras is second only to Bombay. While the bulk of the power in Bombay and West Bengal is consumed in big industries and urban loads, Madras has built up an electricity grid extending to almost all the districts and rural areas. In fact, Madras leads the rest of India in rural electrification with over 5,000 villages taking electricity supply by the end of 1956-57.

Power Grid: The grid comprises four hydro-electric Power Houses at Pykara, Moyar, Mettur, Papanasam and two Thermal Power Houses at Madras and Madurai with the total installed capacity of 2,56,500 kW, 9,065 miles of high tension transmission lines of voltages varying from 11,000 to 1,10,100, 11,006 miles of low tension distribution lines and 49 EHT and 59 HT sub-stations and 5,286 distribution stations.

In 1956-57, this grid served electricity to 459 lakhs of consumers, about 80 per cent of them served directly by the Board and the rest served through 5 municipal licensees and 8 private company licensees.

The peak demand met totalled 2,33,800 kW. Power generated was 1,135 million units in 1956-57 out of which about 75 per cent was from water power and the balance from coal. The entire power output in the State is by the Electricity Board.

The total capital investment to the end of 1956-57 is Rs. 65·90 crores and the gross revenue earned during 1956-57 was Rs. 8·13 crores.

The Mettur Dam is 176 feet high and can impound a total of 93,500 m.c. ft. of water mainly for irrigation purposes. Part of this water is utilised for the generation of hydro-electric power. Power is generated at 11,000 volts, 50 cycles, 3 phase and stepped upto 110,000 volts for transmission to various load centres.

At Erode the Mettur System is linked with the Pykara network. Power is transmitted to Singarapet in the north and Erode in the south (a total of 100 miles) taking off from the power station.

Second Five Year Plan: The power schemes for the Madras State included in the Second Five Year Plan are estimated to cost Rs. 53·25 crores. This period will be confined to the construction of 3 new power plants, two at Kundah and one at Periyar and extensions to the existing thermal station at Madras. With the completion of these schemes, the installed capacity will be more than doubled. It is also proposed to erect about 8,200 miles of Extra High Tension and 8,000 miles of Low Tension lines during the period to extend supply to about 1,000 villages and 10,000 pumpsets per annum.

Periyar Hydro-Electric Scheme: The Periyar Hydro-Electric Scheme, estimated to cost Rs. 10·09 crores, has been taken in hand and will add 105,000 kW of installed capacity. The first unit was expected to be commissioned by June 1958 and the entire scheme by 1958-59.

Madras Plant Extensions: Erection of the two Nos. 150,000 lb. s/hr. boilers and one No. 30,000 kW, turbo-set was expected to go into commercial operation by March 1958.

Kundah Hydro-Electric Scheme: Preliminary works in respect of Kundah Hydro Electric Scheme, the sixth and the biggest Hydro Electric Scheme so far undertaken by the Madras Government were in progress. The scheme is estimated to cost Rs. 35·44 crores and when the initial stage is completed in 1961, it will add 180,000 kW to the Grid in two plants.

This scheme is getting aid under the Colombo Plan from the Canadian Government to the tune of 2·5 million dollars by way of machinery and materials and is programmed for completion by 1960-61.

TRANSPORT

Total mileage of roads as on 31st March 1957—31,822 miles.

Different classes of roads and the mileage of each class: National Highways (1,142 miles), State Highways (1,744 miles); Major District Roads (9,310 miles); Other District Roads (5,425 miles); Village Roads (10,326 miles), Public Works Department Roads (888 miles), Municipal Roads (2,987 miles).

Length of roads newly formed during 1955-56 not classified under the above categories and not included—24 miles.

Types of roads and their mileage: Cement Concrete surfacing (424 miles); Black Top surfacing (5,977 miles); Metalled roads (13,144 miles); Unmetalled roads (10,364 miles).

Links of National Highways within towns having a population of 20,000 are maintained entirely from State Funds.

An expenditure of Rs. 49,84,826 was incurred during the year 1956–57 on Road Development Schemes under the Post-War Road Development Programme which was later on continued in the First Five-Year Plan. The sums of Rs. 20,31,894 and Rs. 16,36,427 were incurred for the development of West Coast Roads and for development of Economic and Inter-State importance Roads respectively during the year 1955–56 from the Union Funds. A sum of Rs. 78,706 was also incurred on Tools and Plant — New Supplies — under the schemes included in the First Five-Year Plan in respect of 1955–56.

The Planning Commission allotted a sum of Rs. 3·58 crores for the First Five Year Plan period in this State for development of roads other than National Highways including the roads under the control of District Boards. A total sum of Rs. 424·57 lakhs was incurred during the First Five-Year Plan period (1951-52 to 1955–56) for the development of roads other than National Highways including the roads under the control of District Boards.

The Bus Transport in Madras City is Government owned. The transfer to public ownership was carried out in stages starting in October 1947 and ending in June 1948.

Number of routes served by the Department: 101 out of which 63 are regular routes and the rest peak-hour routes operated during peak hours only.

Total daily mileage: 40,823.

Number of suburban services: 8

Number of mofussil services: 8 (district services)

The mofussil services (District services) operate from Madras to Kancheepuram, Madras to Tirupathi and Madras to Venkatagiri.

The total number of buses operated by the Government: 431.

CO-OPERATION

Number of co-operative societies on 30th June 1957 : 16,228. Members : 27·24 lakhs.

Share capital : Rs. 874·22 lakhs.

Working capital : Rs. 64·87 crores.

Total deposits held by the State Co-operative Bank on 30th June 1957 : Rs. 398·85 lakhs.

The State Co-operative Bank has continued to guide, supervise and control the financial policy of the Central Banks.

Total loans issued to Central Banks in 1956-57 : Rs. 327·72 lakhs.

Working capital of the co-operative central banks : Rs. 12·28 crores.

Their net profits : Rs. 9·29 lakhs.

Co-operation played an increasingly useful role in raising food production and the manufacture of handloom goods and cottage industrial products.

Number of milk supply unions on 30th June 1957 : 22.

Number of members on their rolls : 3,287 including 356 affiliated societies with a paid-up share capital of Rs. 3·84 lakhs.

Number of milk supply societies on 30th June 1956 : 576. Of these 231 functioned independently and the rest served as feeder societies to the unions.

Number of members on their rolls : 70,096.

Paid-up share capital : Rs. 9·8 lakhs.

Value of milk and milk products sold by these institutions during 1955-56 : Rs. 139·76 lakhs.

Number of primary co-operative stores on 30th June 1956 : 687 with 346 branches and sales depots and 14 co-operative wholesale stores.

The sales turnover of both primary and wholesale stores : Rs. 871·67 lakhs.

Purchases and sale of primary stores : Rs. 616·38 lakhs and Rs. 656·25 lakhs respectively.

Purchases and sale of co-operative wholesale stores : Rs. 209·81 lakhs and Rs. 215·42 lakhs respectively.

Important Features of the Working of the Societies : The problems facing the individual stores were discussed at the conference of primaries held in each district and steps were taken to weed out the stores which had no future either by liquidating them or by reorganising them into other types of societies or by converting them into branches of the co-operative wholesale stores. Due to this consolidation and reorganisation process, there was a fall in the number of stores societies. They handled food stuffs, groceries and cloth both handloom and mill-made. They have been utilised as fair price shops for the distribution of Government rice under the price stabilisation scheme. A rebate of 0-1-6 per rupee was allowed to them on the sale of handloom goods from the Cess Fund.

Central Land Mortgage Bank Ltd. : Amount of loans issued by the Bank in 1956-57 : Rs. 42·84 lakhs.

The Bank has floated its 50th series of debentures to the value of Rs. 40 lakhs bearing interest at 4½ per cent per annum and redeemable in 20 years, the issue price being Rs. 99·8 per cent.

Government's guarantee for these debentures : Rs. 7 crores.

Value of debentures in circulation on 30th June 1957 : Rs. 423·84 lakhs.

Total amount of loans outstanding at the end of June 1956 : Rs. 342·97 lakhs.

Co-operative Housing Societies : Number of co-operative housing societies : 175 ; Share capital : Rs. 110·20 lakhs ; Working capital : Rs. 408·47 lakhs ; Number of houses built : 6,152.

The urban housing scheme was introduced in the middle of 1947. Accordingly housing committees were formed in about 200 urban centres. By the end of June 1955, there were 175 housing societies of all types in the State, functioning in the urban areas of the State.

Number of various types of societies as on 31st June 1955 : 175 composed of 124 ordinary building societies, 38 house-building societies, 11 house construction societies, one township and one tenancy society.

Total number of members on their rolls with the paid-up share capital within brackets : 16,421 (Rs. 110·2 lakhs).

Total number of houses constructed by all types of housing societies with the aid of State loans till the end of June 1957 : 8,282.

Number of houses under different stages of construction at the end of December 1957 : 1,224.

EDUCATION

In the budget estimate for 1956-57, a provision of Rs. 12·2 crores was made for education.

The Madras and the Annamalai Universities are the two Universities in the State.

The State-wide adoption of basic education, *i.e.* craft-centred education at the primary stage has been accepted as the aim of the Government. Accordingly, the existing elementary schools and ordinary training schools are being converted into the basic type. Every year, new basic schools and basic training schools are opened.

Under the unemployment Relief Scheme, the Central Government sanctioned 3,076 teachers for this State, for opening schools in school-less centres, with a population of 500 and above, for appointing additional teachers in single teacher schools opened already, and for appointing teachers in the higher elementary standards in the existing schools. About 1,703 teachers out of the above were allotted for opening new single teacher schools, and about 1,533 schools were opened upto 31st March 1956. A grant of Rs. 12 lakhs was received from the Central Government during the year towards the expenditure on teachers employed under the Scheme. These schools were continued in 1957, but the Central grant for the year was only Rs. 7·5 lakhs.

Ninety-five schools were equipped during the year with 16 m.m. projects, and 221 schools with 35 m.m. filmstrip projectors, raising the total number of Secondary Schools so equipped at the end of the year to 471 and 395 respectively. 22 more schools were equipped with Radio receiving sets, the total number of Secondary Schools so equipped at the end of the year being 626.

Number of institutions and students in the State as on 31st March 1956 are given below. The first figure against each item indicates the number of institutions and within brackets the first figure indicates the total number of students, followed by the number of boys and girls :

Universities : 2 (2,786—Boys 2,555 ; Girls 231).

Colleges for general education : 45 (36,894—Boys 35,617 ; Girls 1,277).

Professional Colleges :

Education (Teachers' Training) : 12 (1,050—Men 987 ; Women 63).

Engineering : 5 (1,797—1,797).

Medicine : 7 (3,377—Boys 2,708 ; Girls 669).

Veterinary : 1 (443—Boys 440 ; Girls 3).

Agriculture : 1 (346—Boys 338 ; Girls 8).

Forestry : 1 (98—Boys 98).

Law : 1 (1,258—Boys 1,239 ; Girls 19).

Physical Education : 1 (330—Boys 246 ; Girls 84).

Total number of professional colleges and total number of students : 29 (8,699—Boys 7,853 ; Girls 846).

College for Special Education :

Music : 2 (113—Boys 18 ; Girls 95).

Oriental Studies : 22 (1,390—Boys 1,284 ; Girls 106).

Social Education : 1 (39—Boys 28 ; Girls 11).

Total number of Colleges for special education with total number of students within brackets : 25 (1,542—Boys 1,330 ; Girls 212).

Schools for General Education :

High Schools : 774 (4,43,475—Boys 3,93,045 ; Girls 50,430).

Middle Schools : 89 (19,047—Boys 15,639 ; Girls 3,408).

Elementary Schools : 24,741 (3,062,252—Boys 1,926,841 ; Girls 1,135,411).

Post-Basic Schools : 3 (97—Boys 85 ; Girls 12).

Senior Basic Schools : 342 (1,00,140—Boys 62,544 ; Girls 37,596).

Junior Basic Schools : 2,063 (2,34,401—Boys 1,44,278 ; Girls 90,123).

Total number of schools for general education and number of students : 28,012 (3,859,412—Boys 2,542,532 ; Girls 1,316,980).

Schools for Professional Education :

Training ordinary : 32 (5,174—Boys 5,042 ; Girls 132).

Training—Basic : 57 (5,709—Boys 5,598 ; Girls 111).

Polytechnics : 10 (4,783—Boys 4,778 ; Girls 5).

Industrial Schools : 30 (2,208—Boys 2,175 ; Girls 33).

Schools for Commerce : 361 (22,768—Boys 20,275 ; Girls 2,493).

Total number of professional schools and students : 490 (40,642—Boys 37,868 ; Girls 2,774).

Schools for Special Education :

Other Fine Arts : 3 (417—Boys 403 ; Girls 14).

Oriental Studies : 56 (3,475—Boys 2,530 ; Girls 945).

Adult (Social) Education : 1,529 (45,127—Boys 41,069 ; Girls 4,058).

Schools for the Handicapped : 14 (1,359—Boys 972 ; Girls 387).

Reformatory Schools : 6 (2,736—Boys 2,631 ; Girls 105).

Village Guide Centres : 2 (278—Boys 258 ; Girls 20).

Jail Schools : 9 (1,106—Boys 1,106).

Grand total of all institutions with number of students, within brackets : 30,222 (4,004,473—Boys 2,676,624 ; Girls 1,327,849).

Number of boys and girls respectively in the Universities by faculties : Arts and Science (1,522 ; 97) ; Commerce (68 boys) ; Engineering (266 boys) ; Technology (223 boys) ; B. Ed. (65 ; 4) ; Diploma in Teaching (12 : 1) ; Diploma in Painting (9 ; 2) ; Oriental Learning (111 ; 16) ; B.O.L. (9 ; 2) ; Sangeetha Bhushana (45 ; 44) ; Music (1 ; 4) ; Diploma and Certificate Courses (Madras University) (224 ; 61).

Total number of boys 2,555 ; girls 231.

The figures relating to women's education in the following table refer to institutions open primarily to pupils of that sex.

Type of Institution	No. of Institutions	Strength		
		Boys	Girls	Total
		INSTITUTIONS FOR GIRLS		
College for General Education	18	..	5,208	5,208
Professional Colleges :—				
Education (Teachers Training) ..	3	..	376	376
Total : Professional Colleges	3	..	376	376
Schools for General Education :—				
High schools	190	4,552	84,546	89,098
Middle schools	19	1,170	3,856	4,026
Post Basic schools	1	..	31	31
Nursery schools	32	1,087	948	2,035
Total : General Education	242	6,809	89,381	96,190
Schools for Professional Education :—				
Training—Ordinary	50	..	5,681	5,681
Training—Basic	25	41	1,896	1,937
Industrial schools	1	..	99	99
Schools for Arts & Crafts	18	5	983	988
Total : Professional Education ..	94	46	8,659	8,705
Schools for Special Education :—				
Oriental studies	1	..	40	40
Schools for the Handicapped	1	32	31	63
Reformatory schools	3	..	620	620
Jail schools	1	..	33	33
Total : Special Education	6	32	724	756
Grand Total : All Institutions ..	363	6,887	1,04,348	1,11,235

National Cadet Corps, etc.—The number of Junior Division Troops functioning during the year 1956-57 was 244 of which 26 were for the Girls Wing which had a strength of 780 cadets. The number of boys was 7,184 in the Army, Navy and Air Wings. The troops function in all the Districts and the total expenditure during 1955-56 on these troops was Rs. 3,50,000.

There were 240 Girl Cadets in the Senior Division Girls Wing. During the year 1956-57, Girls Wing Sub Troops were raised in Madras, Udumalpet and Coimbatore. In the Boys Wing of the Senior Division, the authorised strength was 86 officers and 3,545 cadets. A notable expansion during the year was the addition of an Armoured Squadron and a Senior Division Naval Unit. The total expenditure on the Senior Division during 1956-57 was Rs. 5,50,000.

The Auxiliary Cadet Corps was also expanded considerably and seven batches of teachers were trained during the year. The actual strength of A.C.C. Officers and Cadets was 900 and 44,000 respectively ; of these 100 were Lady Officers and 4,000 Girl Cadets.

WHITE PAPER ON EDUCATION

The Government have passed orders accepting certain recommendations of the State Legislature Committee which considered the "White Paper on Education" in so far as they relate to the integrated 7-year Primary education course, the four-year Secondary School Course of 4000-hour duration, the limited *scope* of compulsory enrolment, *viz.*, the first five years of schooling, to be achieved within 10 years and certain other matters, for implementation from the academic year commencing in June 1958. Government have agreed that by 1965-66 in every town and village in the State the element of compulsion in the elementary stage of education will be enforced. One other recommendation accepted by Government relates to the necessity for sufficient powers for the Government to see that private managements are properly constituted.

THE MADRAS INDUSTRIAL INVESTMENT CORPORATION LIMITED

38, Whites Road, Royapettah, Madras-14.

When it started functioning : September 1, 1949.

The Main objects : Financing of industries in the State of Madras with long term and medium term loans.

Authorised Capital : Rs. 2,00,00,000.

Size of shares and how distributed : 20,000 Ordinary Shares of Rs. 1,000 each.

Number of applications received for loans : 152 upto 30th June 1957.

Number of applications accepted for loan : 64.

Total amount of loans sanctioned : Rs. 3,35,40,000.

Total amount of loans advanced : Rs. 2,43,46,151.

Loans outstanding (as on 30th June 1957) : Rs. 2,03,06,176.

Interest rate charged (current rate) : 7½ per cent per annum with a rebate of ½ per cent for prompt payment of instalments of principal and interest.

Total expenses : Rs. 3,49,364 for the year ended 30th June 1957.

Total income : Rs.10,55,530 for the year ended 30th June 1957.

Profit : Rs. 7,06,166 net profit for the year ended 30th June 1957 before providing for taxation.

Board of Directors :—R. Venkataswami Naidu (*Chairman*) ; Finance Secretary to Government of Madras (T. A. Varghese, I.C.S.), (*Ex-officio Director & Vice-Chairman*); Director of Industries & Commerce (T. K. Palaniappan, I.A.S.) ; V. V. Shanmuga Nadar ; P. A. C. Ramasamy Raja ; M. S. Palaniappa Mudaliar ; M. A. Chidambaram Chettiar ; V. S. Tyagaraja Mudaliar ; N. Mahalingam, M.L.A.; A. M. M. Murugappa Chettiar ; D. C. Kothari.

Secretary : S. Rajaratnam, M.A., A.I.I.B.

THE CORPORATION

Ripon Buildings,

Madras 3.

Mayor, Smt. Tara Cherian.

Dy. Mayor, D. Parthasarathy Chetty.

Commissioner, D. Balasundaram, I.A.S.

Dy. Commissioner, N. Sankaran, M.A., L.T.

Revenue Officer, K. A. Kanniah Naidu.

Health Officer, Dr. B. V. Sundaralabu, M.B.B.S., D.P.H. (Calcutta).

Engineer, Mohideen Meeran, B.E., M.I.E.struct E., A.M.I.E. (Ind.), Am.Soc.C.E.

Special Engineer, N. Bhaskaran, B.E., A.M.I E.

Electrical Engineer, V. A. Patnaik, B.A., B.Sc. (Hons.) (Birmingham).

Water Works Engineer, O. T. Raghavan, B.A., B.E., C.E. (Hons.), A.M.I.E.

Chief Accounts Officer, S. Satyamurthi, B.A.

Educational Officer, C. S. Arumainayagam, B A , L.T.

Mechanical Engineer and Conservancy Officer, M. Sivaraman, M.E., M.I.E.

Lady Superintendent, Child Welfare Scheme, Capt. (Miss) C. N. Rukmini, M.B.B.S.

Secretary to the Council, C. Venkatrama Reddy, B.A., B.L.

Chairman, Taxation Appeal Committee, M. Murugesa Mudaliar, B.A., B.L.

MEMBERS OF THE CORPORATION

(Divisional Seats : 50).

A. Gunasekhar Adimoolam (Division 50) ; M. R. Appadurai (Division 25) ; Dr. T. Azizuddin, M.B.B.S. (Division 12) ; R. Chellamiah Naidu (Division 22) ; M. Parthasarathy (Division 27) ; M. Ahmed Mohiuddin Bijapuri (Division 38) ; C. Rajam Ramaswamy (Division 45) ; V. Sundaramurthy Chettiar (Division 4) ; D. Parthasarathy Chetty (Division 34), (*Deputy Mayor*) ; P. S. Chettiar (Division 44) ; P. E. Raghava Chetty (Division 28) ; P. M. Dowlatram (Division 39) ; K. S. Ekambaram (Division 40) ; M. E. Govindarajan (Division 18) ; T. S. Govindaswamy (Division 23) ; Dr. M. Santhosham (Division 32) ; V. R. Ramanatha Iyer (Division 13) ; M. M. Mohammed Hayath (Division 42) ; M. Kanniappan (Division 48) ; Dr. M. A. Kareem (Division 43) ; V. D. Selva Pillai (Division 5) ; K. Ganesan (Division 3) ; B. E. Bakthavachalam (Division 21) ; K. Kamalakanna Mudaliar (Division 37) ; M. Varadarajulu (Division 17) ; M. K. Nagendran (Division 16) ; N. Damodaran (Division 6) ; S. C. V. Gopal (Division 14) ; S. Krishnamurthi (Division 36) ; Barnes Paramanandam (Division 2) ; C. V. Thiruvengadam Pillai (Division 30) ; S. C. C. Anthoni Pillai (Division 24) ; S. Pakkiriswamy Pillai (Division 19) ; N. E. Raghunathan (Division 41) ; M. Sundara Raj (Division 26) ; G. Rajamannar (Division 10) ; K. Arumugam (Division 8) ; K. Ramadoss (Division 7) ; Guntur Narsimha Rao (Division 49) ; K. S. Samjathu (Division 31) ; T. Andiappan (Division 20) ; G. Krishnan (Division 33) ; T. M. Shanmugham (Division 46) ; K. N. Srinivasan, B.A., B.L. (Division 11) ; K. M. Subramaniam (Division 47) ; Dr. K. V. Swamy (Division 15) ; P. Thangarajan (Division 1) ; V. Munuswamy (Division 9) ; K. Vinayahan (Division 35) ; A. P. Arasu (Division 29).

Reserved Seats (*for Scheduled Castes*) : A. Chittiraivelu (Division 18) ; K. P. Samundeswaran (Division 19) ; R. Munuswamy Pillai (Division 20) ; K. Manickavasagam (Division 33) ; K. M. Nadhamuni (Division 34).

Reserved (4 *Seats for Women*) : Srimath Saraswathi Pandurangam (Division 11) ; Srimathi Dhana Bai (Division 17) ; Srimathi T. L. Thirupurasundari Ammal (Division 40) ; Kumari T. N. Anandanayaki (Division 45).

Reserved (4 *Seats for Labour*): S. A. Mahalingam (*The Railway Trade Union*); C. K. Narayanan (*The Textile Workers' Trade Union*); C. Govindarajulu (*The Non-Union Labour—North*); P. N. Lakshmipathy (*The Non-Union Labour—South*); F. B. Pithavadian (*The Madras Chamber of Commerce*); S. Anantharamakrishnan (*The Madras Trades Association*); V. M. P. Muthuswamy (*The Southern India Chamber of Commerce*); P. Suryanarayana Sastri (*The Andhra Chamber of Commerce*); M. S. Abdul Rahim (*The Muslim Chamber of Commerce*); Kumara Rajah M. A. M. Muthiah Chettiar (*The Nattukottai Nagarathars' Association*); A. A. Rasheed Sahib (*The Southern India Skins and Hide Merchants' Association*); B. Jwalanarasimham (*The Piece Goods Merchants' Association*); G. Venkateswara Ayyar, I.C.S. (*The Madras Port Trust*); Smt. Tara Cherian (*The University of Madras*), (*Mayor*).

Aldermen (5 *Seats*): M. Radhakrishna Pillai; M. A. Chidambaram; C. Arulnarinathan; K. Perumal Udayar; Smt. Seethalakshmi Kumaraswami.

Special Councillors: Dr. N. Parthasarathy; M. M. Mani; Captain D. Gnanaolivu.

BUDGET ESTIMATES OF REVENUE, EXPENDITURE, GOVERNMENT GRANT Etc., FOR 1958-1959

	Rs (lakh)
Revenue	311·77
Expenditure	310·89

COIMBATORE DISTRICT

Dt. Hqrs.: Coimbatore.

The Coimbatore District, next in importance to the City of Madras, has an area covering 6,024 square miles with a population of 3,154,296. It is one of the major districts in Tamil Nad with the Cauvery River as boundary on the east, Mysore and the Nilgiris on the north, Kerala on the west and south. The whole District lies on an undulating plain south of the Nilgiris with the Bhavani River as boundary for some length in the north. It is drained by three important tributaries of the Cauvery River—the Bhavani, Amravati and the Noyyal rivers. The Anamallais (elephant hills) which form part of the District in the south have large coffee and tea plantations. The finest teak in India is produced on these hills.

After the reorganization of States, much of the teak growing area has gone to Kerala State and so the Madras Government have begun teak growing in the Ulahdy valley on the western slopes of the Anamallais, a natural teak growing area of 4,500 acres adjoining Kerala State.

Coimbatore, the District Headquarters, is the largest industrial city in Madras State with 50 textile mills and over 55 ginning factories employing over 55,000 workers and is officially described as the 'Manchester of South India.' It is also the largest textile manufacturing centre in Madras State. There are also a number of iron foundries and a cement factory. A 22-lakh synthetic gem factory, the first of its kind in Asia, was opened in 1957. The factory which is an Indo-Swiss venture, hopes to meet the full demand for synthetic gems, which are now being imported, in a couple of years—producing in the first year alone gems valued at Rs. 20 lakhs.

The finishing part will be done at Tiruchirappalli by cottage industry groups.

An institute for higher research in agriculture is to be set up in Coimbatore at a cost of Rs. 40 lakhs in cooperation with the U.S. Technical Cooperation Mission, the Rockfeller Foundation and the Tennessee University. It is to start working in July, 1958.

Cotton and millets are the chief agricultural produce of the District. Since textile production has reached the highest pitch, the present emphasis is on staple fibre. An uptodate rayon factory will shortly be established in the private sector. The Lower Bhavani Project has been completed. In addition to bringing under irrigation an extra 207,000 acres of dry crop, it is also useful in assisting the Mettur Reservoir, whenever there is low water. The water thus conserved at Mettur is used for power generation. The output of cotton in Madras State will increase by 15,000 tons under this project in addition to producing 130,000 tons of food crops.

Another project the Amaravathi Reservoir Project, to benefit the scarcity taluks of Dharapuram and Udumalpet, to assist old irrigation on 32,000 acres and to benefit a new area of 21,000 acres (3,000 of sugarcane and 18,000 of dry crops) at a cost of Rs. 310 lakhs was pressed into service at the end of 1957. This project will yield 7,700 tons of additional foodgrains. The total value of annual production is Rs. 50 lakhs including Rs. 30 lakhs worth sugarcane.

Taluks with headquarters within brackets: Coimbatore Taluk (Coimbatore); Avanashi Taluk (Avanashi); Palladam Taluk (Tiruppur); Bhavani Taluk (Bhavani); Dharapuram Taluk (Dharapuram); Erode Taluk (Erode); Gobichettipalayam Taluk (Gobichettipalayam); Udumalpet Taluk (Udumalpet).

BANKS

The State Bank of India, Bank Road, Coimbatore; The Coimbatore Central Co-operative Bank Ltd., Bank Road, Coimbatore; The Central Bank of India Ltd., Variety Hall Road, Coimbatore; Bank of Baroda, Big Bazar Street, Coimbatore; Bank of Bikaner Ltd., Oppanakara Street, Coimbatore; Bank of India, Head Post Office Road, Coimbatore; Bank of Jaipur Ltd., Variety Hall Road, Coimbatore; Bank of Mysore Ltd., Oppanakara Street, Coimbatore; Thomasco Bank, Raja Street, Coimbatore; Coimbatore National Bank Ltd., Variety Hall Road, Coimbatore; The Canara Bank Ltd., Oppanakara Street, Coimbatore; The United Commercial Bank, Oppanakara Street, Coimbatore.

COMMERCIAL ASSOCIATIONS

The Southern India Millowners' Association, Race Course, Coimbatore; The Indian Chamber of Commerce, Post Box No. 200, Coimbatore; The South Indian Textile Research Association, Peelamedu P.O., Coimbatore.

SOCIAL CLUBS

The English Club, Trichy Road, Coimbatore; The Cosmopolitan Club, Race Course, Coimbatore; The Officers' Club, Chidambaram Park, Coimbatore; The Ladies' Club, Chidambaram Park, Coimbatore.

COLLEGES

The Agricultural College, Lawley Road, P.O., Coimbatore; The Forest College, Lawley Road, P.O., Coimbatore; The Government Arts College, Coimbatore; The College of Technology, Lawley Road, P.O., Coimbatore; Polytechnic, Avanashi Road, Coimbatore; Nirmala College for Women, R. S. Puram, Coimbatore; P.S.G. College of Technology, Peelamedu, Coimbatore; The Coimbatore Institute of Technology, Peelamedu, Coimbatore; P.S.G. Arts College, Peelamedu, Coimbatore; The Coimbatore Training College for Women, Big Bazar Street, Coimbatore.

SOCIAL ORGANISATIONS

Y.M.C.A., Post Office Road, Coimbatore; Y.W.C.A., Avanashi Road, Coimbatore; Madras State Conference of Social Work, Race Course, Coimbatore; Guild of Service and Indian Red Cross Society, Opposite Sessions Court, Coimbatore; Inter-Collegiate Social Service League, Peelamedu P.O., Coimbatore.

EDUCATIONAL INSTITUTIONS

UNIVERSITY OF MADRAS

This University, founded in 1857, was reorganized in 1923 as a Teaching and Residential University, and it continues to exercise control over the quality of the teaching given by its constituent and affiliated colleges. The Vice-Chancellor is a whole-time salaried officer. The authorities of the University include a Senate, Syndicate, Academic Council, Faculties and Boards of Studies.

Laboratories for research in Zoology, Botany, Physics, Geology, Organic Chemistry, Biochemistry, Physical and Chemical Technology, are provided. There are also Departments of study and research in the following subjects: Anthropology, Indian History and Archaeology, Indian Economics, Indian Philosophy, Psychology, Mathematics, Statistics, Geography, Politics and Public Administration, Constitutional and International Law, Business Administration, Sanskrit, Tamil, Telugu, Kannada, Malayalam, Hindi, Arabic, Persian and Urdu, and Indian Music.

Degrees: B.A., B.A. (Hons.), M.A., M.Litt., Ph.D., D.Litt., B.L., M.L., LL.D., B.Sc., B.Sc. (Hons.), M.Sc. (by Exam.), M.Sc., Ph.D., D.Sc., B.E., B.Com., B.Com. (Hons.), B.Sc. (Ag.), B.V.Sc., M.B.B.S., M.D., M.S., B.S.Sc., B.Pharm., B.D.S., B.Sc. (Nursing), Bachelor of Indian Medicine (B.I.M.), B.Sc. (Tech.), B.O.L., B.O.L. (Hons.), B.T., M.Ed., B.Mus.

Diplomas: Gynaecology and Obstetrics, Venereology, Dermatology, Ophthalmology, Oto-Rhino-Laryngology, Radiology, Orthopaedics, Tuberculosis, Anthropology, Modern European Languages (French and German), Librarianship, Journalism, Physical Education, Social Service, Analytical Chemistry, Horticulture, Economics, Politics and Public Administration, Indian Music, Co-operation, Statistics, Geography and Business Management.

Oriental Titles: Siromani, Vidvan, Afzal-ul-Ulama, Munshi-i-Fazil, Adib-i-Fazil, Tabib-i-Kamil, Afzal-ul-Attibba Malpan and Soppar, Sangita Siromani.

Chancellor, Bishnu Ram Medhi, B.Sc. (Hons.), M.Sc., B.L., Governor of Madras.

Pro-Chancellor, Minister for Education, Madras.

Vice-Chancellor, Lt.-Col. Sir A. Lakshmanaswamy Mudaliar, B.A., M.D., LL.D., D.Sc., D.C.L., F.R.C.O.G., F.A.C.S., M.L.C.

Registrar, R. Ravi Varma, M.A. (Lond.).

Deputy Registrar, Capt. D. Sivasubramania Mudaliar, M.R.C.S. (Eng.), L.R.C.P. (Lond.).

Asstt. Registrar, P. S. Vaidyanathan, B.A., Dip. com.

TEACHING STAFF

INDIAN ECONOMICS: *Professor*, Dr. R. Balakrishna, M.A., Ph.D. (Lond.).

INDIAN HISTORY AND ARCHAEOLOGY: *Professor*, Dr. K. Kanakasabhapathy Pillai, M.A., D.Phil. (Oxon.), D.Litt.

ARCHAEOLOGY: *Professor*, Dr. T. V. Mahalingam, M.A., D.Litt.

POLITICS AND PUBLIC ADMINISTRATION: *Professor*, R. Bhaskaran, M.A.

GEOGRAPHY: *Professor*, Dr. George Kuriyan, B.A., B.Sc., Ph.D. (Lond.).

INDIAN PHILOSOPHY: *Professor*, Dr. T. M. P. Mahadevan, M.A., Ph.D.

PSYCHOLOGY: *Professor*, Dr. G. D. Boaz, M.A., D.Phil. (Oxon.).

MATHEMATICS: *Professor*, Dr. V. S. Krishnan M.A., D.Sc., B.T.

STATISTICS: *Professor*, D. V. Rajalakshman, M.A., M.Sc., Ph.D. (Manchester), F.S.S., Dip. (Econ.).

ORGANIC CHEMISTRY: *Professor*, Dr. K. N. Menon, M.Sc., Ph.D. (Lond.), A.R.I.C., A.I.I.Sc., F.A.Sc.

BIOCHEMISTRY : *Professor*, Dr. P. Subbaraya Sarma, M.Sc., Ph.D. (Wisconsin), F.R.I.S. (Lond.), F.A.Sc.

PHYSICAL CHEMISTRY : *Reader*, Dr. M. Santhappa, B.A., Ph.D. (Manch.), Ph.D. (Lond.).

BOTANY : *Professor*, Dr. T. S. Sadasivan, M.Sc., Ph.D. (Lond.), D.Sc. (Lond.), F.A.Sc., F.B.S.

ZOOLOGY : *Professor*, Dr. C. P. Gnanamuthu, M.A., D.Sc., F.Z.S.

PHYSICS : *Professor*, Dr. G. N. Ramachandran, M.Sc., Ph.D. (Cantab.), D.Sc., A.I.I.Sc., F.A.Sc.

GEOLOGY : *Professor*. Dr. P. R. Jagannathy Naidu, M.Sc., D.Phil. (Basel).

ANTHROPOLOGY : *Reader*, Baron U. R. Ehrenfels, Ph.D. (Vienna).

CONSTITUTIONAL AND INTERNATIONAL LAW : *Professor*, Dr. Charles H. Alexandrowicz, LL.M., LL.D., Bar-at-Law.

BUSINESS ADMINISTRATION : *Professor*, G. V. Krishna Rao, M.A., B.L., M.B.A. (U.S.A.).

SANSKRIT : *Professor*, Dr. V. Raghavan, M.A., Ph.D.

TAMIL : *Professor*, Dr. R. P. Sethu Pillai, B.A., B.L., D.Litt.

TELUGU : *Reader*, N. Venkata Rao, M.A.

KANNADA : *Professor*, M. Mariappa Bhat, M.A., L.T., Vidwan.

MALAYALAM : *Lecturer*, Dr. S. Krishnan Nayar, M.A., Ph.D.

ARABIC, PERSIAN AND URDU : *Lecturer*, Abu Hashim Syed Ushaw, B.A.

INDIAN MUSIC : *Reader*, P. Sambamurthi, B.A., B.L.

HINDI : *Reader*, S. Shankar Raju Naidu, M.A. (Hons.) in Hindi.

ALAGAPPA CHETTIAR COLLEGE OF TECHNOLOGY, GUINDY

Director: Dr. G. S. Laddha, B.Sc. (Tech.), M.S.Ch.E. (Purdue), Ph.D. (Purdue), A.M.I.I.Chem.E.

ENGINEERING : *Professor*, V. S. Jayaraman, B.E., A.M.I.E., A.M.I.I. Chem. E.

CHEMICAL TECHNOLOGY : *Professor*, A. P. Madhavan Nayar, M.A.

TEXTILE TECHNOLOGY : *Ag. Professor*, S. Krishnamurthi, B.Sc., B.Sc. (Tech.).

Total number of Colleges (Arts, Science and Professional)—105 ; Total number of Students 58,881.

Budget for 1956 : Income including Rs. 8,71,770 being amounts of grants received from Government, Rs. 42,80,223 ; Expenditure Rs. 45,02,609.

ARTS AND SCIENCE COLLEGES (56)

Constituent Colleges (13) :
Agurchand Manmull Jain College, Meenambakkam, Madras 27.
Government Arts College, Mount Road, Madras 2.
Loyola College, Cathedral, Madras 31.
Pachaiyappa's College, Chetput, Madras 30.
Presidency College, Triplicane, Madras 5.
Sir Theagaraya College, Washermanpet, Madras 21.
Vivekananda College, Mylapore, Madras 4.
Ethiraj College for Women, Egmore, Madras 8.
Queen Mary's College, Mylapore, Madras 4.
Stella Maris College, Mylapore, Madras 4.
Women's Christian College, Nungambakkam, Madras 31.

The New College, Royapettah, Madras 14.
The South Indian Educational Trust Women's College, Teynampet, Madras 6.

Affiliated Colleges (43) :
Government Arts College, Coimbatore.
Alagappa College, Karaikudi.
Government College, Kumbakonam.
The American College, Madurai.
Madura College, Madurai.
Lady Doak College, Madurai.
Thiagarajar College, Madurai.
Sarah Tucker College, Palayamkottai.
St. John's College, Palayamkottai.
St. Xavier's College, Palayamkottai.
Raja's College, Pudukottai.
Salem Municipal College, Salem.
Baschi College, Shembaganur, Madurai Dt.
Rajah Doraisingam Memorial College, Sivaganga.
Madras Christian College, Tambaram.
The M.D.T. Hindu College, Tirunelveli.
Holy Cross College, Tiruchirapalli.
Jamal Mohamed College, Khajanagar, Tiruchirapalli.
National College, Tiruchirapalli.
St. Joseph's College, Tiruchirapalli.
Sacred Heart College, Tirupattur (N. Arcot Dt.).
St. Mary's College, Tuticorin.
V. O. Chidambaram College, Tuticorin.
Sri G. V. G. Visalakshi College for Women, Udumalpet.
Islamiah College, Vaniyambadi (N. Arcot Dt.).
V. H. N. Senthikumara Nadar College, Virudhunagar.
Khadir Mohideen College, Adhirampattinam, Tanjore Dt.
P.S.G. Arts College, Peelamedu, Coimbatore.
Nirmala College for Women, Coimbatore.
Mahajana College, Erode.
Pachaiyappa's College, Kancheepuram.
Alagappa College for Women, Karaikudi.
Auxilium College, Katpadi (N. Arcot Dt.).
Fatima College, Madurai.
Ambanathapuram Vahaira Charities College, Mayuram.
Government Arts College, Ootacamund.
Sri Pushpam College, Poondi, Tanjore.
The Rajah Serfoji College, Tanjore.
Sitalakshmi Ramaswami College, Tiruchirapalli.
Hajee Karutha Rawther Howdia College, Uthamapalayam.
Voorhees College, Vellore (N. Arcot Dt.).
The Avinashilingam Home Science College for Women, Coimbatore.
Nallamuthu Gounder Municipal College, Pollachi.

PROFESSIONAL COLLEGES (27)

Law :
Madras Law College, Madras 1.

Medicine :
Madras Medical College, Park Town, Madras 3.
Stanley Medical College, Madras 1.
Christian Medical College, Vellore (N. Arcot District).
Madurai Medical College, Madurai.

Engineering :
College of Engineering, Guindy, Saidapet, Madras 25.
Government College of Technology, R. S. Puram, Coimbatore.
P.S.G. & Sons Charities College of Technology, Coimbatore.
Coimbatore Institute of Technology, Coimbatore.
Dr. Alagappa Chettiar College of Engineering and Technology, Karaikudi.

Teaching :
Lady Willingdon Training College, Triplicane, Madras 5.
Meston Training College, Royapettah, Madras 14.
St. Christopher's Training College, Vepery, Madras 7.
Teachers' College, Saidapet, Madras 15.
Government Training College for Women, Coimbatore.
Sri Ramakrishna Mission Vidyalaya Teachers' College, Periannaickenpalayam (Coimbatore Dt.).
Dr. Alagappa Chettiar Training College, Karaikudi.
St. Ignatius' Training College, Palayamkottai.
Government Training College, Komarapalayam, Salem Dt.
Govt. Post-Basic Training College, Orathanad, Tanjore Dist.
St. Xavier's Training College, Palayamkottai.
Government Training College, Pudukottai.
Vivekananda Training College, Thirupparoyathurai, Tiruchirapalli Dt.
V. O. Chidambaram Training College, Tuticorin.
Government Training College, Vellore, N. Arcot Dt.

Veterinary :
Madras Veterinary College, Vepery, Madras 7.

Agriculture :
Agricultural College, Lawley Road P.O., Coimbatore.

Technology :
Alagappa Chettiar College of Technology, Guindy, Madras 25.

Physical Education :
Y.M.C.A. College of Physical Education, Saidapet, Madras 15.
Alagappa College of Physical Education, Alagappa College P.O., Karaikudi.

GOVERNMENT TECHNICAL INSTITUTIONS

Central Polytechnic, Broadway, Madras.
Government School of Arts & Crafts, Egmore, Madras.
Government Textile Institute, Washermanpet, Madras.
Government Institute of Leather Technology, Washermanpet, Madras.
Tamilnad Polytechnic, Madurai.
Arthur Hope Polytechnic, Coimbatore

AIDED INDUSTRIAL SCHOOLS IN THE STATE

Madras :
C.N.T. Institute, Vepery.
Anjuman Industrial School, Mount Road
Ramakrishna Mission Technical Institute, Mylapore.
The Gokulam Cottage Industrial School, 11-B, Eldams Road, Teynampet.
V. S. Rajagopalan's Radio Institute, Smith Road.
Thakkar Bapa Vidyalaya, T. Nagar.
Madrasi-Hussainy Yateem Khana Industrial School, Thousand Lights.
Seton School of Embroidery and Needlework, Kilpauk.
The Sevasadan Industrial School, Chetput
St. Anne's Industrial School, Royapuram.
St. Joseph's Industrial School for Girls, Mylapore.
Rani Rajyalakshmi Industrial Institute, Archa Mahila Sabha Buildings, Mylapore.
Madras Hindu Sevak Sangh Industrial School for Girls, 67, Mulla Saheb Street, G. T.
The Royal Telegraph and Wireless Training School, Purasawalkam.
St. Joseph's Industrial School, Kallathiappa Mudali Street, Vepery.
A.M.M. Muruzappa Chettiar Memorial Polytechnic, Avadi.

Chingleput District :
American Advent Mission Industrial School, Velacheri, St. Thomas Mount.
Harijan Industrial School, Kancheepuram.
Government Victory Memorial Blind Industrial School, Poonamallee.
Lady Willingdon Leprosy Sanatorium, Tirumani, Chingleput.
Methodist Mission Industrial School, Ikkadu.
St. Anthony's Industrial School, St. Thomas Mount.

North Arcot District :
Anjuman Industrial School, Vellore.
Anjuman Industrial School, Melvisharam.
Anjuman Industrial School, Tirupattur.
Don Bosco Industrial School, Vellore.

South Arcot District :
St. Joseph's Industrial School, Tindivanam.
Danish Mission Industrial School, Panruti.

Tanjore District :
District Board Industrial School, Tanjore.
St. Francis Xavier's Industrial School, Tanjore.
St. Mary's Industrial School, Kumbakonam.
Municipal Arts School, Kumbakonam.
St. Cicily's Industrial School, Kumbakonam.

Tiruchirapalli District :

St. Joseph's Industrial School, Tiruchirapalli.
Karur Industrial School, Karur.
Holy Cross Convent Industrial School, Tiruchirapalli.
St. John D'Britto Industrial School, Tiruchirapalli.
Vincent's Technical Institute, Tiruchirapalli.

Madurai District :

Pasumalai Trade School, Madurai.
The Arts School, Madurai.
C.S.M. Industrial School, Dindigul.
St. Joseph's Girls' Industrial School, Madurai.

Tirunelveli District :

S.P.G. Art Industrial School, Nazareth.
St. Joseph's Industrial School, Adaikalapuram.
Industrial School for the Blind, Palamcottah.
St. Ignatius Industrial School, Tuticorin.
R. C. Lace Industrial School, Vadakankulam.
Hindu Girls' Industrial School, Kudankulam.

Salem District :

St. Theresa's Industrial School, Marvaneri, Salem.

Coimbatore District :

St. Joseph's Industrial School, Coimbatore.
P.S.G. & Son's Charity Industrial Institute, Peelamedu.
Sri Ramakrishna Mission Vidyalaya School of Engineering, Coimbatore.
Methodist Mission Industrial School, Dharapuram.

ANNAMALAI UNIVERSITY

Annamalainagar P.O.
South India.

CHANCELLOR

Bishnu Ram Medhi, B.Sc. (Hons.), M.Sc., B.L., Governor of Madras.

PRO-CHANCELLOR

Dr. Rajah Sir M. A. Muthia Chettiar, Kt., B.A., D.Litt. M.L.A.

VICE-CHANCELLOR

Lt.-Col. T. M. Narayanaswamy Pillai, M.A., B.L. M.L.C.

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Total number of students in the University: 3,038.

Accounts and Government Grant (1956-51) :

Total income from grants from Government and other sources : Rs. 41,60,253.

Total estimated expenditure on salaries, contingencies, buildings and equipment : Rs. 44,45,803.

Recurring grant receipts : Rs. 7,09,500.

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Andhra Chamber Building, 272 73, Angappa Naick Street, Madras 1.

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ASSOCIATED ELECTRICAL INDUSTRIES (INDIA) PRIVAE LTD., 11 12, First Line Beach, Madras, Head Office: Crown House, 6, Mission Row Calcutta 1; Branches at—Calcutta, Bombay, New Delhi, Bangalore, Coimbatore and Nagpur; Grams: "MAINLAND" (all offices); Associated Companies - Associated Electrical Industries Manufacturing Co Private Ltd., Birlec Ltd., The British Thomson-Houston Co Ltd., Siemens Edison Swan Ltd., Ferguson Pailin Ltd., The Hotpoint Electric Appliance Co. Ltd., Metropolitan-Vickers Electrical Co Ltd., Metropolitan-Vickers GRS Ltd., Newton Victor Ltd., Sunvic Controls Ltd., Agencies—Aluminium Union Ltd., Engineers & Contractors for electric Power Plant and Electrical equipment of all descriptions., Suppliers of Steam turbines, Condensing plant, generators, Motors, Switchgear, Converters, Mercury arc rectifiers, transformers, Electric Locomotives, Diesel Rail Cars, Railway & Tramway equipment, Trolleybuses, Railway Signalling equipment, Welding equipment, Electric Lamps, Lighting fittings, Domestic Electric appliances, Meters, Instruments, Magnetos, Wireless equipment, Sound reproducing equipment, Tape recorders, Batteries, Electric Cables, X-Ray and electro-medical equipment, Refrigerator Plant, Aluminium electric transmission line conductors; Madras Office Manager—N. C. S. Kumar; Chairman—F. J. E. Tearle; Managing Director—J. Nicholson; Directors—H. C. Hardy, J. Carey-Brown, T. C. Hornby, A. C. D. Moir, C. M. Humfrey and V. N. Dixit.

Autoparts Trading Co.—21, General Patters Road, Madras 2.

Auto Service Station Ltd.—38, Mount Road, Madras 6. Phone : 85663.

Avery Co., Ltd., The.—16/17, Armenian Street, Madras 1.

Ayurvedashramam Ltd.—79, G. N. Chetty Road, T. Nagar, Madras 17.

Bank of Baroda Ltd.—3, Errabalu Chetty Street, Madras 1.

Bapalal & Company.—Rattan Bazar, Park Town, Madras 3.

Basheer Bros.—Hardware Merchants, 20, V. Mudali Street, Madras 3.

Bawa Glass Co.—Glass, Plywood Dealers, 52, Devaraja Mudali Street, Madras 3.

BEARDSELL, & CO., (PRIVATE) LTD. W.A., Importers & Exporters; Managing Agents, 8, Second Line Beach, Madras 1. Phone: 4401. (4 lines)

Best & Co., Ltd.—First Line Beach, Madras 1. Phone : 2933.

Bharat Motors.—35, Mount Road, Madras 2.

Binny & Co. (Madras) Ltd.—Managing Agents for Cotton, Silk and Woollen Mills, 7, Armenian Street, Madras 1. Phone: 2974 77.

Bombay Co., Ltd.—169, Broadway, Madras 1. Phone : 2909.

Bombay Engineering Works.—8, Sunkurama Chetty Street, Madras 1.

Bombay Surgical Equipments Co.—8, Sunkurama Chetty Street, Madras 1.

Brady, W. H., & Co. Ltd.—Engineering and Sundries, 154/155, Popham's Broadway, Madras 1.

Brilliant Star Corporation —Post Box No. 1566, Madras 1.

British Insulated Callender's Cables Ltd.—37, Second Line Beach, Madras 1. Phones: 4934 35.

Brunnschweiler, A., & Co —104 Armenian Street, Madras 1.

Burmah-Shell Oil Storage & Distributing Co. of India Ltd—Burmah-Shell House, Esplanade, Madras 1.

Caltex (India) Ltd —202, Mount Road, Madras 2.

CARBORUNDUM UNIVERSAL LTD.—Manufacturers of Coated and Bonded Abrasives, Swastik House, 106, Armenian Street, Madras 1. Phone : 2941 (4 lines). Grams: "CUMI". Post Box No. 1677. Bombay Branch: Carborundum Universal Ltd., 3rd floor, United India Bldg., Sir Phirozshah Mehta Road, Fort, Bombay 1. Distributors for Coated Abrasives

Cauvery Spinning & Weaving Mills, Ltd., The.—11,12, Second Line Beach, Madras 1.

Central Agency Ltd.—19, Vanlar Street, Madras 1.

Chambers, K. H., Ltd.—Lecots Bldg., Madras 1. Phone : 2001.

Chandra Foundries Ltd.—55 Basin Bridge Road, Washermanpet, Madras 21

Charles Morgan & Co., Ltd.—314 315, Linghi Chetty Street, Madras 1.

C. J. Sheth —2, Bunder Street, Madras 1.

C. K. Devchand.—4, Broadway, Madras 1.

Coogans.—31, Mount Road, Madras 2.

Coromandel Corporation Ltd.—Catholic Centre, 2, Armenian Street, Madras 1.

Coromandel Produce Corporation —17 337, Thambu Chetty Street, Madras 1

Coronet (Arts & Crafts).—"Icon House", 1-155, Mount Road, Madras 2.

Dural Bros.—1 11, Umpherson Street, Madras 1.

EAST ASIATIC CO. (INDIA) PRIVATE LTD., THE,—Mercantile Bank Bldg., 1st Line Beach, Madras 1. Importers, Exporters, Engineers & Oil Mill owners (Manufacturers of Vanaspati, Refined oil, Soap and Crushers of Groundnut and Cottonseed); Phone: 4941 (5 Lines); Grams: "MANDARIN" P.O. Box No. 146, Machinery & Engineering Dept., Bharat Bldg., Mount Road, Madras 2; Phone : 86021,2; Oil Mills : Elaiya Mudali St., Tondiarpet, Madras; Phone : 2565 & 2139.

East Coast Commercial Syndicate —99, Armenian Street, Madras 1

East India Industries (M) Ltd.—498, Mint Street, Madras 3.

Easun Engineering Company Limited.—5-7, Second Line Beach, Madras 1.

Electronic Service Company.—17,35, Mount Road, Madras 2.

Firestone Tyre & Rubber Co. of India Private Ltd.—Woods Road, Madras 2.

F. X. Pereira & Sons (Estd. 1889)—H. O. Post Box No. 1532, 2/21, First Line Beach, Madras 1.

Gallakotwala, C. A., & Co., Ltd.—18, Armenian Street, Madras 1.

Gally & Co.—28, General Patters Road, Madras 2.

Gannon Dunkerley & Co., Ltd., No. 5, Deendayalu Street, Madras 17.

Gem & Co.—325 6, Netaji Subhas Chandra Bose Road, Madras 1.

General Electric Co. of India Ltd.—Magnet House, Mount Road, Madras 1.

General Produce Dealers (M) Ltd.—2,25, P Mudali Street, Madras 1.

George Oakes Limited.—36,D, Mount Road, Madras 1.

George Vint & Bhalla (India) Ltd.—7, Woods Road, Mount Road, Madras 2.

Gillanders Arbuthnot & Co., Ltd.—3, North Beach Road, Madras 1.

Glaxo Laboratories (India) Ltd.—Woods Road, Madras 2.



Makers of Security Equipment, Steel Furniture, Typewriter, Machines Steel Windows, Steel Tubing, GODREJ & Boyce Mfg. Co. Private Ltd., 177 and 179, Mount Road, Madras. Phones: 84331-84332. Grams: "GODREJSAFE." Offices or Stockists all over India and abroad. Makers of "Chavi" brand toilet, washing, shaving and industrial Soaps, Hair Tonic, Toilet Powder, Glycerin, Fatty Acids, etc. GODREJ Soaps Private Ltd., 164, Broadway, Madras. Phone : 2452. Offices all over India.

Goodwill Pictures.—Khaleel Mansions, 35, Mount Road, Madras 2.

Gordon Woodroffe & Co. (Madras) Ltd.—1,21, North Beach Road, Madras 1.

Govindaraj & Sons Ltd., P., 330, Thambu Chetty Street, Madras 1.

Grahams Trading Co. (India), Private Ltd. 310,311, Linghi Chetty Street, Madras 1.

GREAVES COTTON & CO., LTD., 19, Second Line Beach, Post Box No. 207, Madras 1. *Head Office:* 1, Forbes Street, Post Box No. 91. Fort, Bombay. Merchants, Engineers & Contractors, *Branch Manager:* K. M. Bharucha; *Engineers:* M. R. Natu, C. R. B. Naidu, S. Krishnan, N. G. Ghorpade, S. R. Sampath, U. B. Rao, L. Theodore.

Guest, Keen, Williams, Ltd., 202, Mount Road, Madras 1.

Guntur Power & Light Ltd., 2/6, Second Line Beach, Madras 1.

Gunter Tobaccos Ltd., 2/6, Second Line Beach, Madras 1.

Harrison & Co. (Drug Section), 167, Broadway, Madras.

Hassanally, A. M., & Co., 34, Linghi Chetty Street, Madras 1.

Heatly & Gresham Ltd. United India Life Building, Esplanade, Madras 1.

Higginbothams, Ltd., Booksellers & Publishers, Post Box No. 311, Madras.

Hind Mercantile Corporation Ltd., 308,390, Linghi Chetty Street, Madras 1.

Hindu Office and National Press, The (Estd. 1878). "Kasturi Buildings", Mount Road, Madras 2.

Hindustan Ideal Insurance Co., Ltd., 32/33, Linghi Chetty Street, Madras 1.

HOLLERITH (INDIA) (PRIVATE) LIMITED, P.O. Box No. 704, Madras; Hollerith Electronic and Electro-mechanical Punched Card Accounting Machines; Head office: Fazalbhoy Bldg., Mahatma Gandhi Road, Bombay 1. Area Office: 38, Mount Road, Madras 6, Area Manager: K. P. S Menon; Phone: 86438; Telegraph Address: "TABULORIAL".

Ilford-Selo (India) Private Ltd., 2,3, Woods Road, Madras 2. Phone: 8320.

Imperial Chemical Industries (India) Private Ltd., Bombay Mutual Building, Netaji Subhas Chandra Bose Road, Madras 1.

Imperial Tobacco Co. of India Ltd., 150 B, Mount Road, Madras 2.

India Cements Ltd., 11-12, Second Line Beach, Madras.

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Manager: V. E. S. Gupta.

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India Pistons Private Ltd., Huzur Gardens, Sembiam, Madras 11.

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India Tyre & Rubber Co. (India) Ltd., 150-B, Mount Road, Madras.

Indian Chemical & Therapeutical Works Ltd., 14/15, Second Line Beach, Madras 1.

Indian Oxygen & Acetylene Co., Ltd., 7/A, Vaithianatha Mudali Street, Tondiarpet, Madras 21.

Indian Trade & General Insurance Co., Ltd., 11/12, First Line Beach, Madras 1.

Industrial Stores Company, The, 2, Errabalu Chetty Street, Madras 1.

INTERNATIONAL GENERAL ELECTRIC CO. (INDIA) PRIVATE LTD.— 36-B, Mount Road, Madras 2.

Jai Dayal Kapur & Sons Ltd., 2, Anderson Street, Madras 1.

J. & J. DeChane (Depot), 153, Nainiappa Naik Street, P.T. Madras.

Jeewanlal (1929) Ltd., 127, Mint Street, Madras 1.

Jupiter General Insurance Co., Ltd., Jupiter House, 167, Broadway, Madras 1.

Kamath & Kamath, 322,3, Linghi Chetty Street, Madras 1.

Kanakiah Chetty, V. & Co., 2 44, V. Mudali Street, Madras 3.

K. C. P. Confectionery (Madras) Ltd., Arcot Road, Madras 24.

Kesari Kuteeram Ltd., 15, Wescott Road, Madras 14.

Keymer, D. J., & Co., Ltd., Advertising Consultants, 10, Mount Road, Madras 2.

Kilburn & Co. Ltd., 32,33, Linghi Chetty Street, Madras 1.

King & Co., 298, Netaji Subhas Chandra Bose Road, Madras 1.

King & Company, 321, Thambu Chetty Street, Madras 1.

Klein and Peyerl, 30, Mount Road, Madras 2.

Kothandaraman & Co., K. R., 13 B, Second Line Beach, Madras 1.

Kothari Textiles Ltd., Oriental Bldgs., Armenian Street, Madras 1.

Kumars Industrial Enterprises, 1, Jaffar Sarang Street, Madras 1.

Kutti & Rao (Engineers) Ltd., 1,95, Broadway, Madras 1.

Lakshmidas Dwarkadas & Co., 35, Govindappa Naik Street, Madras 1.

Larsen & Toubro Ltd., Engineers, 4,5, Club House Road, Mount Road, Madras 2.

Lever Brothers (India) Ltd., 11,14, Armenian Street, Madras 1.

Lipton Ltd., 129, Moore Street, Madras.

Lloyds Commercial Corporation, 21,35, Mount Road, Madras 2.

Louis Dreyfus & Co., Ltd., 99, Armenian Street, Madras 1.

Madras Advertising Co. Private Ltd., Mount Road, Madras 2.

Madras Commercial Corporation Ltd., 27, Moore Street, Madras 1.

Madras Commercial Trust Ltd., The, 5, Linghi Chetty Street, Madras 1.

Madras Enamel Works Ltd., 65, Sydenham's Road, Madras 7.

Madras Motors Private Ltd., The, 36/C, Mount Road, Madras 2.

"Mail" The, Mount Road, Madras, Phones: 2951/2.

Marshall Sons & Co. (India) Ltd., Marshall Building, Second Line Beach, Madras 1.

May & Baker (India) Ltd., Purshothamdas Bldg., 103, Mount Road, Madras 2.

McDowell & Co., Ltd., Second Line Beach, Madras 1. Phone: 4438.

McRennott & Co., Bakers, Mount Road, Madras 6.

Mechelec Engineering Co., Ltd., 21, Sunkurania Chetty Street, Madras 1.

Mehta, T. B., & Sons, Diamond Merchants, 453, Mint Street, Madras 3.

Meredith, R. H., Hakim House, 11-12, Jaffar Sarang Street, Madras 1

Metal Box Co. of India Ltd., Elaya Mudali Street, Tondiarpet, Madras 21

Mills Stores Limited, 24, Errabalu Chetty Street, Madras 1.

Modern Automobiles, 4,17, Mount Road, Madras 2.

Modi & Modi, Electrical Goods & Machinery Merchants, 11, Linghi Chetty Street, P.B. No. 293, Madras 1.

Motor & General Trading Co., Automobile Spare parts, 150, Mount Road, Madras 2.

MUNEER BROS., Resident Representatives in South India for North Indian Factories, 44, Sembudoss Street, Madras 1.

Murcott, A., & Co (India) Ltd 28 Strand's Street, Madras 1.

Murthy Raza Ltd., Importers & Exporters, 9, Armenian Street, Madras 1

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National Carbon Co (India) Ltd., Hakim Mansions, Loan Square, Madras 1

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Noble Diamond Co., 105, Mint Street, Madras 1.

Noormahomed & Co., 5,288, N. S. C. Bose Road, Madras 1.

Oakley Bowden & Co. (Madras) Ltd 11-12 First Line Beach, Madras 1.

Orr, P., & Sons Pte. Ltd., Mount Road, Madras 2. Branch: Ootacamund Manufacturing Survey Instruments. Clocks, Jewellers, Watch makers etc. Importers of English & Swiss Watches & Clocks, Arms & Ammunition, Motor Accessories, Surveying Instruments, Industrial Instruments etc. London office 169, Audrey House, Ely Place, London E.C. 1. Grams: "ORR" Phone: 8402 (2 Lines); P.O. Box No. 317, Madras.

Palai Central Bank Ltd., 362, N. S. C. Bose Road, Madras 1.

Parry & Co., Ltd., "Dare House", First Line Beach, Madras 1. Phone: 2083.

Photo Emporium, 11, Mount Road, Madras 2.

Pioneer Industries, 103, Mount Road, Madras 2.

P. M. Subramaniam & Co., 24, General Patters Road, Madras 2.

P. Natesan (Industries) Ltd., 191, Triplicane High Road, Madras 5.

POPPAT JAMAL & SONS, Glassware Merchants, 182, Broadway, Madras 1. Phones: 4031, 55789. Grams: "GLASSWARE." Branches: Broadway, Ernakulam; Siddiambar Bazar, Hyderabad; 147, Sheriff Dewji St., Bombay 3.

R. Kuppuswamy Chetty & Son, 17, Ramannan Road, Sowcarpet Post, G. T. Madras 1.

Raka Corporation Ltd., 138, Moore Street, Madras 1.

Rallis India Ltd., Ralli House, 329, Linghi Chetty Street, Madras 1.

Ramanjulu Chetty, N. V., & Co., 18, Broadway, Madras 1.

Ram Mohan & Co., Ltd., Travel Agents, 302, N. S. C. Bose Road, Madras 1.

Rane (Madras) Ltd., 5, Patullos Road, Mount Road, Madras 1.

Ranganadhan N., 25, Godown Street, Madras.

Ratna, V., & Co., V. M. C. A. Building, N. S. C. Bose Road, Madras 1.

Rayala Corporation (Madras) Ltd., 1/55, Mount Road, Madras 2.

Remington Rand of India Ltd., Khaleel Mansion, Mount Road, Madras 2.

Richardson & Cruddas Ltd., First Line Beach, Madras 1.

Roberts McLean & Co., Ltd., 200, Mount Road, Madras 2.

Sanitary Sales & Service, 26, Thambu Chetty Street, Madras 1.

Savoy, Bakers & Confectioners, 154, Purasawalkam High Road, Madras 7.

Scientific Fertiliser Co., Ltd., 53, Second Line Beach, Madras 1.

Scrvensee & Co., Electrical Engineers, 55, Anderson Street, Madras 1.

Sethuram Thiagarajan & Co., 272/3, Angappa Naick Street, Madras 1

Shah, P. B., & Co., Ltd., 21, Linghi Chetty Street, Madras 1.

Shaik Mohamed Rowther & Co., K. P. V., 41, Linghi Chetty Street, Madras 1.

Shalimar Paint Colour & Varnish Co. Private Ltd., 8/9, Thambu Chetty Str t, Madras 1.

Sham Suddin, T. H., & Co., 12/13, Devaraja Mudali Street, Madras 3.

Shaw Wallace & Co., Ltd., 8/9, Thambu Chetty Street, Madras 1.

Sherif Travel and Cargo Service Private Ltd., 34, Second Line Beach, Madras 1.

Simpson & Co., Ltd., Mount Road, Madras 2.

Simpson & General Finance Co., Private Ltd., 202/203, Mount Road, Madras 2.

Simson & McConechy, 22, Errabalu Chetty Street, Madras 1.

Sistas Ltd., Advertising Consultants, 7, Woods Road, Madras 2.

Solar Trading Co., 2, Pidariar Koil Street, Madras 1.

Southern Agencies, 7, Kondi Chetty Street, Madras 1.

South India Corporation (Madras) Ltd., 2, Armenian Street, Madras 1.

SOUTH INDIAN EXPORT CO., LTD., THE, Exporters of East India Tanned Hides & Skins, Dry-salted Skins, Finished Leather; Importers of Electrical & Mechanical Equipments, Activated Carbons, water Heaters etc. on an all India basis; Selling Agents for foreign and Indian Manufacturers; Insurance and Steamer Agents, Engineering workshop and Diesel Service Station, Mount Road; Head office: 5, McLean Street, Madras 1; Phones: 2990 7 8; Grams: "XEBEC".

Speed-A-Way Private Ltd., 35/5, Mount Road, Madras 2.

Spencer & Co., Ltd Mount Road, Madras 2

Sreevatsa Chemicals & Drugs Ltd., 72, G. Naick Street, Madras 1.

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Standard Type Foundry, 5/5, Whannels Road, Egmore, Madras 8.

Standard-Vacuum Oil Co., Bombay Mutual Bldg., Esplanade, Madras 1

Sterling General Insurance Co., Ltd., 10, Linghi Chetty Street, Madras 1.

Subramaniam Bros, 99, Armenian St., Madras 1.

Phone: 2742. P. Box 1240

Grams: "SHARP".

SUGESAN & CO. PRIVATE LTD.

Merchants, Shipping, Clearing, Forwarding, Warehousing & Passenger Agents, Freight & Insurance Brokers & Surveyors, 11/12, 1st Line Beach, Madras 1.

Swastik Agency, 165, G. Naick Street, Madras 1.

Taylor, T. A., & Co. (Madras), Ltd., 100, Armenian Street, P.O. Box 51, Madras 1.

Tecalemit (India) Ltd., United India Life Building, Esplanade, Madras 1.

Thos. Cook & Son (Continental and Overseas) Ltd., 4/5, First Line Beach, George Town, Madras.

Tungabadra Industries Ltd., 35, Mount Road, Madras 2.

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United Commercial Syndicate, 1, Jafar Sarang Street, Madras 1.

United India Fire & General Insurance Co., Ltd., Madras 1.

United Liner Agencies of India Ltd., 41, Morkernalla Muth Street, Madras 1. Phone: 4637.

United Scientific Co., The, 9, Sunkurama Chetty Street, Madras 1.

Vernon & Co., Ltd., 36, Second Line Beach, Madras 1.

Vijay Chemical & Toilet Works, Clemens Road, Vepery, Madras 7.

Voltas Ltd., 115,116, Armenian Street, Madras 1.

V. S. T. Motors Private Ltd., 34, Mount Road, Madras 2.

Vulcan Insurance Co., Ltd., Indian Bank Building, 1st Line Beach, Madras 1.

Vummidi Bangaru Chetty & Sons, 226, G. Naick Street, Madras 1.

WESTERN INDIA MATCH CO., LTD., Manufacturers of Matches, 38-C, Mount Road, Madras 6; Phone: 84123 (2 Lines). Grams. "INDOMATCH."

Westrex Company India, (Formerly Western Electric Company of India), Khaleel Mansions, 35, Mount Road, Madras 2.

Wheel & Rim Co. of India Private Ltd., Smebiam, Madras 11.

William Jacks & Co., Ltd., National Bank Building, First Line Beach, Madras 1.

Wilson & Co., North Railway Terminus Road, Royapuram, Madras.

CLASSIFIED LIST OF TRADES & PROFESSIONS

ABRASIVES

Best & Co. Ltd.—First Line Beach, Madras 1.

Carborundum Universal Ltd.—Swastik House, 106, Armenian Street, Madras 1.

East Asiatic Co. (India) Ltd., The.—Mercantile Bank Bldg., First Line Beach, Madras 1.

Gillanders Arbuthnot & Co., Ltd.—3, North Beach Road, Madras 1.

Gordon Woodroffe & Co. (Madras), Ltd.—1,21, North Beach Road, Madras 1.

Murugappa & Sons.—"Swastik House", 106, Armenian Street, Madras 1.

Roberts McLean & Co., Ltd.—200, Mount Road, Madras 2.

Verma & Co., Ltd.—36, Second Line Beach, Madras 1.

William Jacks & Co., Ltd.—National Bank of India Bldg., First Line Beach, Madras 1.

Wilson & Co.—North Railway Terminus Road, Royapuram, Madras.

ACID & DISTILLED PRODUCTS

Best & Co., Ltd.—First Line Beach, Madras 1.

Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras 1.

Heatly & Gresham Ltd.—United India Building, Esplanade, Madras 1.

Kilburn & Co., Ltd.—32,33, Linghi Chetty Street, Madras 1.

Larsen & Toubro Ltd.—4/5, Club House Road, Mount Road, Madras 2.

Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras 1.

South India Export Co., Ltd.—5, McLean Street, Madras 1.

ACTIVATED CARBON

Imperial Chemical Industries (India) Ltd.—Springhaven Road, The Harbour, Madras 1.

Voltas Ltd.—115/116, Armenian Street, Madras 1.

ADDING, CALCULATING AND ACCOUNTING MACHINES

Comptometer—Felt & Tarrant (India) Co.—12/13, Angappa Naick Street, Madras 1.

Gillanders Arbuthnot & Co., Ltd.—3, North Beach Road, Madras 1.

Hollerith (India) Ltd.—38, Mount Road, Madras 6. Phone : 86438.
Kilburn & Co., Ltd.—32 33, Linghi Chetty Street, Madras 1.
Powers-Samas Accounting Machines (Sales) Ltd.—150B, Mount Road, Madras 2.

ADDRESSING AND LISTING MACHINES

Amalgamations Private Ltd.—202, Mount Road, Madras 2.
Gillanders Arbuthnot & Co., Ltd.—North Beach Road, Madras 1.
Kilburn & Co., Ltd.—32 33, Linghi Chetty Street, Madras 1.

ADOPTER BEARINGS

Heatly & Gresham Ltd.—United India Building, Esplanade, Madras 1.
Roberts McLean & Co., Ltd.—200, Mount Road, Madras 2.
William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

ADVERTISING AGENTS AND CONSULTANTS

Aruna & Co.—38, Linghi Chetty Street, Madras 1.
Centuary Advertising Service.—2, Errabalu Chetty St., Madras 1.
Chari Advertising.—174, Broadway, Madras 1.
Criterion Publicity Ltd.—19, Woods Road, Madras 2.
D. J. Keymer & Co., Ltd.—10, Mount Road, Madras 2.
Easterns.—16/2, Mount Road, Madras 2.
Efficient Publicity Ltd.—1/17C, Mount Road, Madras 2.
Epochs.—2/6, Second Line Beach, Madras 1.
Ganesh Publicities.—8, Bell's Road, Chepauk, Madras 5.
Grant Advertising Inc.—Grant House, 7-A, Brierhopt Road, Vepery, Madras.
L. A. Stronach & Co. (India) Ltd.—193, Mount Road, Madras 2.
Madras Advertising Co. Private Ltd.—202, Mount Road, Madras 2.
Maxton Advertising.—31, Mount Road, Madras 2.
Modern Ltd.—1 21, General Patters Road, Mount Road, Madras.
Nalin Publicity Bureau.—11 & 12, Second Line Beach, Madras 1.
P. S. Mani & Co.—2, 4, Mount Road, Madras 2.
Ravi Publicity.—Mount Road, Madras 2.
Sastry's Advertising.—Bombay Mutual Building, Linghi Chetty Street, Madras 1.
Sista's Ltd.—7, Woods Road, Mount Road, Madras 2.
United India Publicity Corp.—United India Building, Madras 1.

AERATED WATER REQUISITES

Ambhu & Co.—302, Wall Tax Road, Madras 3.
Aryan & Co.—99, Govindappa Naicken Street, Madras 1.
Ben & Co.—Vanakara Street, Mannargudi.
Chandra & Co., D.—314-A, Wall Tax Road, Madras 3.
Chandra Traders—Kallar Street, Tiruchirapally.
Cunnan & Co., A. R.—137, Annapillai Street, G. T. Madras 1.
Dickinson & Co.—24, Officers' Lane, P.O. Vellore, (N. A. Dist.).
Durajswamy & Co., A. E.—Muthialpet P.O., Pondicherry.
Eastern Chemical Industries—9, Meenakshi Koil Street, Madurai.
Esoofally Mohamedally & Co.—12, Wall Tax Road, Madras 3.
India Essence Mart, The.—299, Wall Tax Road, Madras 3.
Jayalakshmi & Co.—12, Wall Tax Road, Madras 3.
Madras Essence Mart, The.—314 3, Wall Tax Road, Madras 3.
Mani & Co., N. S.—314 5, Wall Tax Road, Madras 3.
Murthy & Co.—84, Arcot Road, P.O. Vellore (N. A. Dist.).
Nathan & Co., D. L.—8, Wall Tax Road, Madras 3.
Palaniappa Nadar & Sons, P. V. S. K.—Virudunagar.
R. S. & Co.—10, Perumal Tank West Corner, Town Hall Road, Madurai.
Rajasthan & Co.—113, Sami Naicken Street, Chintaripet, Madras 2.
Ramakrishna & Co.—304, Wall Tax Road, Madras 3.
Saraswathi & Co.—Victoria Market, Salem.
Service Industrial Works, The.—278, Wall Tax Road, Madras 3.
Somoo & Co., D.—318, Wall Tax Road, Madras 3.
Srinivasan & Co., D.—9, Wall Tax Road, Madras 3.
Star & Co.—296, Wall Tax Road, Madras 3.
Subburamier & Sons, N. K. M.—77, South Avani Moola Street, Madurai.

AGENTS (INSURANCE)

Alurugappa & Sons.—Swastik House, Armenian Street, Madras 1.
Beardsell, W. A., & Co., Ltd.—Second Line Beach, Madras 1.
Bombay & Co., Ltd.—169, Broadway, Madras 1.
Gillanders Arbuthnot & Co., Ltd.—First Line Beach, Madras 1.
Gordon Woodroffe & Co. (Madras) Ltd.—1/21, North Beach Road, Madras 1.
Parry & Co., Ltd.—"Don House", First Line Beach, Madras 1.
Shaw Wallace & Co., Ltd.—8/9, Thambu Chetty Street, Madras 1.
South India Export Co., Ltd.—5, McLean Street, Madras 1.
William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.
Wilson & Co.—North Railway Terminus Road, Royapuram, Madras.

AGRICULTURAL IMPLEMENTS

Amalgamations Ltd.—202, Mount Road, Madras 2.
EAST ASIATIC COMPANY (INDIA) PRIVATE LTD., THE.—Machine & Engineering Department, Bharat Bldg., Mount Road, Madras 2; Phone : 86021/2; Grams : "MANDARIN"; P.O. Box No. 146.
Gillander's Arbuthnot & Co., Ltd.—North Beach Road, Madras 1.
Gordon Woodroffe & Co. (Madras) Ltd.—1/21, North Beach Road, Madras 1.
Larsen & Toubro Ltd.—4/5, Club House Road, Mount Road, Madras 2.
Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras 1.
National Engineering Co. (Madras) Ltd.—379, Netaji Subhas Chandra Bose Road, Madras 1.
Shaw Wallace & Co., Ltd.—8/9, Thambu Chetty Street, Madras 1.
S. Jagannatham & Co.—84, Nyniappa Naick Street, Madras 3.
South Indian Export Co., Ltd.—5, McLean Street, Madras 1.
Tecalemit (India) Ltd.—United India Life Bldg., Esplanade, Madras. Phone : 3100.
Voltas Ltd.—115/116, Armenian Street, Madras 1.
William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

AGRICULTURAL MACHINERY

Gordon Woodroffe & Co. (Madras) Ltd.—1,21, North Beach Road, Madras 1.
Larsen & Toubro Ltd.—4,5, Club House Road, Mount Road, Madras 2.
Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras 1.
National Engineering Co. (Madras) Ltd., The.—379, Netaji Subhas Chandra Bose Road, Madras 1.
Rallis (India) Ltd.—Ralli House, 320, Linghi Chetty Street, Madras 1
Voltas Ltd —115,116, Armenian Street, Madras 1.
William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

AIR COMPRESSORS

Best & Co., Ltd.—First Line Beach, Madras 1.
Bombay Co., Ltd.—169, Broadway, Madras 1.
Brady, W. H., & Co., Ltd —154 155, Popham's Broadway Madras 1
Easun Engineering Co., Ltd.—5 7, Second Line Beach, Madras 1
Gillander's Arbuthnot & Co. Ltd.—3, North Beach Road Madras 1
Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras 1
Heatly & Gresham Ltd.—United India Building, Esplanade, Madras 1.
Larsen & Toubro Ltd.—4 5, Club House Road, Mount Road Madras 1
Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras 1.
Taylor, T. A., & Co. (Madras) Ltd.—100, Armenian Street Madras 1
Tecalemit (India) Ltd.,—United India Life Bldg., Esplanade, Madras. Phone : 3100
Vernon & Co , Ltd - 36, Second Line Beach, Madras 1.
Voltas Ltd.—115 116, Armenian Street, Madras 1
William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

AIR CONDITIONING AND VENTILATING PLANT

Beardsell, W. A., & Co., Ltd.—8, Second Line Beach, Madras 1.
Best & Co., Ltd.—First Line Beach, Madras 1
Binny & Co. (Madras) Ltd.—7, Armenian Street, Madras 1
Gillander's Arbuthnot & Co., Ltd.—North Beach Road, Madras 1
Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras 1.
Richardson & Cruddas Ltd.—First Line Beach, Madras 1.
Spencer & Co., Ltd.—Mount Road, Madras 2.
Voltas Ltd.—115/116, Armenian Street, Madras 1.

AIR CONDITIONING PLANT EQUIPMENT

Amalgamations Private Ltd.—202, Mount Road, Madras 2.
Beardsell, W. A., & Co., Ltd.—8, Second Line Beach, Madras 1.
Best & Co., Ltd.—First Line Beach, Madras 1.
Gillander's Arbuthnot & Co., Ltd.—3, North Beach Road, Madras 1.
Larsen & Toubro Ltd.—4/5, Club House Road, Mount Road, Madras 2.
Parry & Co., Ltd.—Dare House, First Line Beach, Madras 1.
Refrigerators & Home Appliances Ltd.—36, Mount Road, Madras 2
Spencer & Co., Ltd.—Mount Road, Madras 2.
Voltas Ltd.—115/116, Armenian Street, Madras 1.

AIRCRAFT, AIRCRAFT PARTS & ACCESSORIES

Associated Electrical Industries (India) Ltd.—11/12, First Line Beach, Madras 1.
Binny & Co. (Madras) Ltd.—7, Armenian Street, Madras 1.
British Insulated Callender's Cables Ltd.—37, Second Line Beach Madras 1.
Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras 1.
Roberts McLean & Co., Ltd.—200, Mount Road, Madras 2.
Tecalemit (India) Ltd.—United India Life Bldg., Esplanade, Madras. Phone : 3100.

AIR EXTRACTORS AND ROOF LIGHTS

Amalgamations Private Ltd.—202, Mount Road, Madras 2.
General Electric Co. of India Private Ltd.—Magnet House, Mount Road, Madras 2.
Gillander's Arbuthnot & Co. Ltd.—3, North Beach Road, Madras 1.
Heatly & Gresham Ltd.—United India Building, Esplanade, Madras 1.
Vernon & Co., Ltd.—36, Second Line Beach, Madras 1.

AIR FILTERS

Amalgamations Private Ltd.—202, Mount Road, Madras 2.
Larsen & Toubro Ltd.—4/5, Club House Road, Mount Road, Madras 2.
Voltas Ltd.—115,116, Armenian Street, Madras.

AIR MOTORS, PUMPS AND WASHERS

Best & Co., Ltd.—First Line Beach, Madras 1.
Heatly & Gresham Ltd.—United Life Building, Esplanade, Madras 1.
Larsen & Toubro Ltd.—4/5, Club House Road, Mount Road, Madras 2.
Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras 1.
Taylor, T. A., & Co. (Madras) Ltd.—100, Armenian Street, Madras 1.
Voltas Ltd.—115 116, Armenian Street, Madras 1

ALUMINIUM (FOIL)

Beardsell, W. A., & Co., Ltd.—8, Second Line Beach, Madras 1.
McDowell & Co., Ltd.—Second Line Beach, Madras 1.
Voltas Ltd —115 116, Armenian Street, Madras 1.
Wilson & Co.—North Railway Terminus Road, Royapuram, Madras.

ALUMINIUM POWDER AND PRODUCTS

Amalgamations Private Ltd.—202, Mount Road, Madras 1.
Geewanlal (1929) Ltd.—127, Mint Street, Madras 3.
Grahams Trading Co. (India) Ltd.—311, Linghi Chetty Street, Madras 1.
Imperial Chemical Industries (India) Ltd.—Spring Haven Road, "The Harbour", Madras 1.
McDowell & Co., Ltd.—Second Line Beach, Madras 1.
Voltas Ltd.—115,116, Armenian Street, Madras 1.

ARC WELDING EQUIPMENT AND ELECTRODES

EAST ASIATIC COMPANY (INDIA) PRIVATE LTD., THE.—Machine & Engineering Dept., Bharat Bldg., Mount Road, Madras 2; Phone: 86021 2; Grams: "MANDARIN"; P.O. Box No. 146.

Easun Engineering Co , Ltd.—5,7, Second Line Beach, Madras 1.

GUEST, KEEN, WILLIAMS, LTD.—202, Mount Road, Madras 2.

Indian Oxygen and Acetylene Co., Ltd.—7 A, Vaithianatha Mudali Street, Tondiarpet, Madras 21.
Larsen & Toubro Ltd.—4,5, Club House Road, Mount Road, Madras 2.
Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras 1.
Rallis India Ltd.—Rallis House, 320, Linghi Chetty Street, Madras 1.
Robert McLean & Co., Ltd.—200, Mount Road, Madras 2.
Vernon & Co., Ltd.—36, Second Line Beach, Madras 1.
Voltas Ltd.—115,116, Armenian Street, Madras 1.
William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

ARMS AND AMMUNITIONS DEALERS

McDowell & Co., Ltd.—Second Line Beach, Madras 1.
N. V. Ramanjulu Chetty & Co.—18, Broadway, Madras 1.
P. Orr & Sons Ltd.—Orrs Building, Mount Road, Madras 2.
Wilson & Co.—North Railway Terminus Road, Royapuram, Madras 2.

ASBESTOS PRODUCTS

Best & Co., Ltd.—First Line Beach, Madras 1.
Brady, W. H., & Co., Ltd.—154 155, Pophams, Broadway, Madras 1.
East Asiatic Co. of India Ltd.—Mercantile Bank Building, First Line Beach, Madras 1.
Hassanally & Co., A. M.—34, Linghi Chetty Street, Madras 1. Phone: 2352. Grams: "BRILLIANT."
Kilburn & Co., Ltd.—32/33, Linghi Chetty Street, Madras 1.
Richardson & Cruddas Ltd.—First Line Beach, Madras 1.
Roberts McLean & Co., Ltd.—200, Mount Road, Madras 2.
Taylor, T. A., & Co. (Madras) Ltd.—100, Armenian Street, Madras 1.
William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.
Wilson & Co.—North Railway Terminus Road, Royapuram, Madras.

ASPHALT AND BITUMEN

Amalgamations Private Ltd.—202, Mount Road, Madras 2.
Burmah-Shell Oil Storage and Distributing Co. of India Ltd.—Burmah-Shell House, Esplanade, Madras 1.
Gordon Woodroffe & Co. (Madras) Ltd.—1/21, North Beach Road, Madras 1.
Standard-Vacuum Oil Co.—United India Building, Esplanade, Madras 1.

AUTOMOBILE ENGINEERS

V. S. T. SERVICE STATION PRIVATE LTD.—38, Mount Road, Madras 6; Phone: 85663; Specialists in Automobile repairs and Lubrication Service.

AUTOMOBILE PARTS AND ACCESSORIES

Abdul Rahim—14-A, General Patters Road, Madras 2.
Anand Automobiles.—1/18, Mount Road, Madras 2.
Associated Accessories Ltd.—11, General Patters Road, Madras 2.
Auto Accessories & Spares—5 30, Mount Road, Madras 2.
Auto & General Supplies—Mount Road, Madras 2.
Automobiles Agencies Ltd.—12, Smith Road, Mount Road, Madras 2.
Automotive & Allied Industries Ltd.—52, General Patters Road, Madras 2.
Auto Parts & Trading Co.—22, General Patters Road, Madras 2.
Auto Sales Company—Imperial Bank Street, Madras 2.
Bajaj Bros.—159, Broadway, Madras 1.
Bawa Motors—10, Imperial Bank Lane, Madras 2.
Bharat Motors—35, Mount Road, Madras 2.
Bombay Motor House—General Patters Road, Madras 2.
Canara Workshops Ltd.—40, General Patters Road, Madras 2.
Chari Trading Co.—"Wellington", Mount Road, Madras 2.
Chaudry Automobiles—61,62, General Patters Road, Madras 2.
Chimanlal Desai & Co.—6, Sunkurana Chetty Street, Madras 1.
Commercial Engineering Syndicate—50, Mount Road, Madras 2.
D. V. Grover—Imperial Bank Lane, Madras 2.
Eastern Automobiles & Engineering Co., Ltd.—General Patters Road, Madras 2.
General Automobiles—18, General Patters Road, Madras 2.
Globe Traders—34, General Patters Road, Madras 2.
Himco (India) Private Ltd.—Dinroze Estate, 1,17, Mount Road, Madras 6
Hotchand Chhattaram—28,C, Kandappa Chetty Street, Madras 1.
India Electric Works Ltd —Chatnath Bldgs , 19,29, Mount Road, Madras 2. Phone: 86 58.

INDIA MOTOR PARTS & ACCESSORIES PRIVATE LTD., THE.—1 155, Mount Road, Madras.

India Pistons Private Ltd.—Huzur Gardens, Sembiam, Madras 11.
Indian Engineering & Trading Co.—26, Wallers Road, Mount Road, Madras 2.

INDIA TYRE & RUBBER CO. (INDIA) PRIVATE LTD.—150-B, Mount Road, Madras 2, Grams: "INDIATYRE". Phone: 85526; Manufacturers of Rubber Tyres, Tubes & Accessories.

Jeewaji & Co.—Wood Road, Madras 2.
Jupiter Agencies—1, Ratilal Street, T. Nagar, Madras 17.
Kannapan Motor Stores—34, General Patters Road, Madras 2.
Lakshmi Motors—35 36, General Patters Road, Madras 2.
Madras & Auto Service Ltd.—37, Mount Road, Madras 2.
Madras Bell Bearing House—14 15, General Patters Road, Madras 2.
Madras Mercantile Agencies Ltd.—Bharat Building, Mount Road, Madras 2.
Madras Sales Corporation—21, General Patters Road, Madras 2.
Mani's Modern Mart—35, General Patters Road, Madras 2.
Marikar (Motors) Ltd.—18, General Patters Road, Madras 2.
Modern Automobiles—4/17, Mount Road, Madras 2.
Modern Distributing Co.—65, Singanna Chetty Street, Madras 1.
Modern Motors—1-C, Wallers Road, Mount Road, Madras 2.
Modern & General Trading Co.—159, Mount Road, Madras 2.
Motor & Allied Agencies—1,17A Mount Road, Madras 2.
Motor & General Trading Co., The—159, Mount Road, Madras 2. Phone: 86902.
Nason's—48, General Patters Road, Madras 2.
New Motor House—16, General Patters Road, Madras 2.
Nishat Trading Co.—General Patters Road, Madras 2.
Overseas Manufacturers Sales Co.—80, General Patters Road, Madras 2.
P. H. Munuswamy—81, Harris Road, Mount Road, Madras 2.
Pioneer (Madras) Ltd.—23, Mount Road, Madras 2.
Premier Auto Electric Ltd.—4, Pattalu Road, Mount Road, Madras 2.
Presidency Motors—General Patters Road, Madras.
Radhakrishna Automobiles—17, Mount Road, Madras 2.
Radhakrishna Motor Stores—17, Mount Road, Madras 2.
Ramdas Motor & Electrical Co.—194, Mount Road, Madras 2.
Rane (Madras) Ltd.—4, Pattalu Road, Mount Road, Madras 2.
Rayala Corporation (Madras) Ltd.—1 155, Mount Road, Madras 2.
Reliance Trading Co.—General Patters Road, Madras 2.
Sat Pal Brothers—General Patters Road, Madras 2.
Singson & Co. (India)—13, Imperial Bank Lane, Madras 2.
Southern India Trading Corp.—52, General Patters Road, Mount Road, Madras 2.
Sridhar & Co.—11-B, Mount Road, Madras 2.
Standard Auto Parts Co.—2/30, Mount Road, Madras 2.
Swamy Automobiles—60, General Patters Road, Madras 2.

Tecalemit (India) Ltd.—United India Life Bldg., Esplanade, Madras. Phone : 3100.
Upper India Trading Co.—Mount Road, Madras 2.
V. S. T. Motors Private Ltd.—34, Mount Road, Madras 2. Phone : 85627.
Y. Yenganna Chowdry—52, Gopathi Narayana Chetty Street, Madras 17.

AUTOMOBILES (TRUCKS, MOTORCARS AND MOTORCYCLES)

George Oakes Ltd.—36/D, Mount Road, Madras.
MADRAS MOTORS PRIVATE LTD., THE—Motorcycle Specialists, 36-C, Mount Road, Madras 2. Phone: 86031 & 86032. Grams: "MOTOGLYDE". Sole selling agents for Royal Enfield Motor cycles and Three Wheelers progressively manufactured by The Enfield India Limited, Madras.
V. S. T. Motors Private Ltd.—34, Mount Road, Madras 2.

AVIATION SPIRIT

Burmah-Shell Oil Storage & Distributing Co. of India Ltd.—Burmah Shell House, Esplanade, Madras 1.
Standard-Vacuum Oil Co.—United India Life Building, Esplanade, Madras 1.

BAILING PRESSES

Larsen & Toubro Ltd.—4/5, Club House Road, Mount Road, Madras 2.
Marshall Sons & Co. (India) Ltd.—Marshall House, Second Line Beach, Madras 1.
Voltas Ltd.—115/116, Armenian Street, Madras 1.
William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

BATTERIES

Amalgamations Private Ltd.—202, Mount Road, Madras 2.
Associated Electrical Industries (India) Ltd.—11/12, First Line Beach, Madras 1.
Binny & Co. (Madras) Ltd.—7, Armenian Street, Madras 1.
General Electric Co. of India Ltd.—Magnet House, Mount Road, Madras 2.
Gordon Woodroffe & Co. (Madras) Ltd.—1/21, North Beach Road, Madras 1.



HIMCO BATTERIES (MADRAS) Private Ltd.

Offices :
144, Mount Road, Madras 6. Phone : 85501.
1412, Nicholson Road, Delhi 6. Phone : 29928.
Head Office :
Gandhi Building, 542, Sandhurst Bridge, BOMBAY 7
Main Works :
Kurla Road, ANDHERI 41
Phone : 86439. Gram : "HIMCOLD"
NETWORK OF SERVICE EVERYWHERE IN INDIA
BUILT IN INDIA WITH AMERICAN PRECISION ON AUTOMATIC MACHINES

Heatly & Gresham Ltd.—United India Life Building, Esplanade, Madras 1.
Himco Batteries Madras Private Ltd.—144, Mount Road, Madras 6.
South India Export Co., Ltd.—5, McLean Street, Madras 1.
Taylor, T. A. & Co. (Madras) Ltd.—100, Armenian Street, Madras 1.
Vernon & Co., Ltd.—36, Second Line Beach, Madras 1.
Wilson & Co.—North Railway Terminus Road, Royapuram, Madras.

BEARINGS (BALL AND ROLLER)

Binny & Co. (Madras) Ltd.—7, Armenian Street, Madras 1.
Bombay Co., Ltd.—169, Broadway, Madras 1.
Guest, Keen, Williams, Ltd.—202, Mount Road, Madras 2.
Heatly & Gresham Ltd.—United India Life Building, Esplanade, Madras 1.
Kilburn & Co., Ltd.—32/33, Linghi Chetty Street, Madras 1.
Malhotra Mill Store Co.—33, Mooker Nallamuttu Street, Madras 1.
Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras 1.
Robert Mclean & Co., Ltd.—200, Mount Road, Madras 2.
Taylor, T. A. & Co. (Madras) Ltd.—100, Armenian Street, Madras.
William Jacks & Co., Ltd.—National Bank Building, First Line Beach, Madras 1.

BEEDI MERCHANTS

A. Abdul Karim & Co.—55, Basin Bridge Road, Washermanpet Road, Madras 21.
A. G. Haji Abdul Rehman Sahib.—Sait Beedi Factory, 50, Perambur High Road, Madras 11.
Clover Beedi Factory.—Mannady, Madras 1.
Diamond Beedi Factory.—9, Mosque Street, Demellows Road P.B. Madras 12.
Governor Beedi Factory.—4, Ramaswamy Chetty, P.B. Madras 12.
Shaik Ismail & Son.—Bavuta Beedi Factory, 30, Ramanuja Iyer Street, Madras 21.
Taj Mahal Beedi Factory.—1,10, Thiruvattiyur High Road, Madras 21.

BELTING TEXTILES (MFRS. AND SUPPLIERS)

Best & Co., Ltd.—First Line Beach, Madras 1.
Binny & Co., Ltd.—7, Armenian Street, Madras 1.
Bombay Co., Ltd.—169, Broadway, Madras 1.
Brady, W. H. & Co., Ltd.—154/155, Pophams, Broadway, Madras 1.
Easun Engineering Co., Ltd.—5, 7, Second Line Beach, Madras 1.
Gillanders Arbuthnot & Co., Ltd.—3, North Beach Road, Madras 1.
Gordon Woodroffe & Co. (Madras) Ltd.—1/21, North Beach Road Madras 1.
Greaves Cotton & Co., Ltd.—19 Second Line Beach, Madras 1.
Hassanally & Co., A. M.—34, Linghi Chetty Street, Madras 1. Phone : 2352. Grams : "BRILLIANT."
Kilburn & Co., Ltd.—32/33, Linghi Chetty Street, Madras 1.
Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras 1.
Parry & Co., Ltd.—Dare House, First Line Beach, Madras 1.
Richardson & Cruddas Ltd.—First Line Beach, Madras 1.
Robert Mclean & Co., Ltd.—200, Mount Road, Madras 1.
Vernon & Co., Ltd.—36, Second Line Beach, Madras 1.
Voltas Ltd.—115/116, Armenian Street, Madras 1.
William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

BLOCK MAKING PLANT—CONCRETE

Heatly & Gresham Ltd.—United India Life Building, Esplanade, Madras 1.
Larsen & Toubro Ltd.—4/5, Club House Road, Mount Road, Madras 2.
Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras 1.
Vernon & Co., Ltd.—36, Second Line Beach, Madras 1.

BOBBINS AND SHUTTLES

Best & Co., Ltd.—First Line Beach, Madras 1.
Brady, W. H. & Co., Ltd.—154/155, Pophams, Broadway, Madras 1.
Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras 1.
Voltas Ltd.—115/116, Armenian Street, Madras 1.

BOILERS AND BOILER ACCESSORIES

Binny & Co. (Madras) Ltd.—7, Armenian Street, Madras 1.
Bombay Co., Ltd.—169, Broadway, Madras 1.
Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras 1.
Guest, Keen, Williams, Ltd.—202, Mount Road, Madras 2.
Kilburn & Co., Ltd.—32/33, Linghi Chetty Street, Madras 1.
Larsen & Toubro Ltd.—4/5, Club House Road, Mount Road, Madras 1.
Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras 1.
Parry & Co., Ltd.—Dare House, First Line Beach, Madras 1.

Richardson & Cruddas Ltd.—First Line Beach, Madras 1.
South India Export Co., Ltd.—5, McLean Street, Madras 1.
William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

BOLTS, NUTS AND SCREWS

Bombay Co., Ltd.—169, Broadway, Madras 1.
Chambers, K. H., Ltd.—Errabalu Chetty Street, Madras 1.
Gordon Woodroffe & Co. (Madras) Ltd.—1/21, North Beach Road, Madras 1.
Guest, Keen, Williams, Ltd.—202, Mount Road, Madras 2.
McDowells & Co., Ltd.—Second Line Beach, Madras 1.
Taylor, T. A., & Co. (Madras) Ltd.—100, Armenian Street, Madras 1.
Wilson & Co.—North Railway Terminus Road, Royapuram, Madras.

BOOKSELLERS AND PUBLISHERS

Christian Literature Society Bookshop, Park Town, Post Box 501, Madras-3.
HIGGINBOTHAMS (PRIVATE) LTD. (ESTD. 1844).—Post Box No. 311, Madras. Phone : 86556. Grams : "BOOKLOVER". Booksellers, Publishers, Stationers, etc. Branches at :— Bangalore, Ootacamund and Trivandrum. Bookstalls on all important Rly. Stations, Aerodromes and Harbours in S. India.
Macmillan & Co., Ltd.—6, Patullo Road, Madras 2.
Orient Longmans Ltd. (Publishers).—36/A, Mount Road, Madras 2.

BRICKS AND TILES MFRS. & DEALERS

Best & Co., Ltd.—First Line Beach, Madras.
Gordon Woodroffe & Co. (Madras) Ltd.—1/21, North Beach Road, Madras 1.
Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras 1.
Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras 1.
Parry & Co., Ltd.—Dare House, First Line Beach, Madras 1.
Wilson & Co.—North Railway Terminus Road, Royapuram, Madras.

BROKERS (STOCK AND SHARE)

B. N. Viswanathan & Co.—310/311, Linghi Chetty Street, G. T., Madras 1.
Chitra & Co.—110/111, Armenian Street, Madras 1.
Dalal & Co.—National Insurance Building, Esplanade, Madras 1.
Kothari & Sons—Oriental Building, Armenian Street, Madras 1.
Maconochie & Co.—Mercantile Bank Building, Madras 1.
Paterson & Co.—22, Errabalu Chetty Street, Madras 1.
Raj & Co.—107/B, Armenian Street, Madras 1.
Ramlal & Co.—17, Angappa Naick Street, Madras 1.
Somayajulu & Co.—Andhra Insurance Buildings, 337, Thambu Chetty Street, Madras 1.
SWASTIK & CO.—Stock & Share Brokers, Swastik House, 106, Armenian Street, Madras 1.
Trojan & Co.—New India Buildings, 13/14, Second Line Beach, Madras 1.
Venkataraman & Co.—Bombay Mutual Building Annexe, 322/323, Linghi Chetty Street, Madras 1.
V. S. Krishnaswami & Co.—11/12, First Line Beach, Madras 1.

BUILDING ENGINEERS AND CONTRACTORS

Coromandel Engineering Co., Ltd.—106, Armenian Street, Madras 1.
Dural Bros.—1/11, Umpherson Street, Madras 1.
Gilly & Co.—28, General Patters Road, Madras 2.
Gannon Dunkerley & Co.—14, Boag Road, T. Nagar, Madras 17.
Kutti & Rao.—1/95, Broadway, Madras 1.
Murugappa & Sons.—Swastik House, Armenian Street, Madras 1.
Pathy & Co.—186, Triplicane High Road, Madras 5.
Ramprasad Ltd.—5, Sir C. V. Raman Road, Madras 18.
William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

BUILDING MATERIALS

Amalgamations Private Ltd.—202, Mount Road, Madras 1.
Best & Co., Ltd.—First Line Beach, Madras 1.
Gillanders Arbuthnot & Co., Ltd.—First Line Beach, Madras 1.
Heatly & Gresham Ltd.—United India Life Building, Esplanade, Madras 1.
McDowell & Co., Ltd.—Second Line Beach, Madras 1.
William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.
Wilson & Co.—North Railway Terminus, Royapuram, Madras 1.

BULLION

Amichand Nagindass & Co.—198, Netaji Bose Road, Madras 1.
B. C. Shantilal & Co.—187, Netaji Bose Road, Madras 1.
Chhotalal N. Shah.—106, Mint Street, Madras.
Jain Jewellery Co.—1, T. Nagar, Madras.
Jayanama Chetty P. Radhakrishna Chetty & Co.—215, Netaji Bose Road, Madras 1.
M. Balakrishnamoorthy Chetty.—213, Netaji Bose Road, Madras 1.
M. Gokuldass.—18, Ekambareswarar Agrabaram, Madras.
Pandu Rao & Co.—43, Netaji Bose Road, Madras 1.
Rama Jewellers.—209, Netaji Bose Road, Madras 1.
Rathanlal Chandick & Co.—32, Netaji Bose Road, Madras 1.
Thakkumlal & Co.—210, Netaji Bose Road, Madras 1.
Vasanji Bhagwanji Shah.—52, Netaji Bose Road, Madras 1.

BURNERS (OIL AND GAS)

Binny & Co. (Madras) Ltd.—7, Armenian Street, Madras 1.
Gillanders Arbuthnot & Co., Ltd.—First Line Beach, Madras 1.
Heatly & Gresham Ltd.—United India Life Building, Esplanade, Madras 1.
Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras 1.
Spencer & Co., Ltd.—Mount Road, Madras 2.
William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

CABLES AND CABLE BOXES

Associated Electrical Industries (India) Ltd.—11/12, First Line Beach, Madras 1.
Binny & Co. (Madras) Ltd.—7, Armenian Street, Madras.
British Insulated Callender's Cables Ltd.—37, Second Line Beach, Madras 1.
Easun Engineering Co., Ltd.—5/7, Second Line Beach, Madras 1.
General Electric Co. of India Ltd.—Magnet House, Mount Road, Madras 2
Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras 1.
Kilburn & Co., Ltd.—32/33, Linghi Chetty Street, Madras 1.
Philips Electrical Co. (India) Ltd.—Mount Road, Madras 2.
Taylor, T. A., & Co. (Madras) Ltd.—100, Armenian Street, Madras 1.
William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

CABLES AND WIRE MANUFACTURERS

ASSOCIATED ELECTRICAL INDUSTRIES (INDIA) PRIVATE LTD.—11 12, First Line Beach, Madras. (See Commercial Firms in Madras.)

CANVAS AND TARPAULINS (WATERPROOFING MATERIAL)

Best & Co., Ltd.—First Line Beach, Madras 1.
Binny & Co. (Madras) Ltd.—7, Armenian Street, Madras 1.
Bombay Co., Ltd.—169, Broadway, Madras 1.
Gillanders Arbuthnot & Co., Ltd.—First Line Beach, Madras 1.
Gordon & Woodroffe & Co. (Madras) Ltd.—1/21, North Beach Road, Madras 1.
Kilburn & Co., Ltd.—32/33, Linghi Chetty Street, Madras 1.
Roberts McLean & Co., Ltd.—200, Mount Road, Madras 1.

CARD CLOTHING

Brady, W. H., & Co., Ltd.—154/155, Pophams, Broadway, Madras 1.
Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras 1.
Roberts McLean & Co., Ltd.—200, Mount Road, Madras 1.
South India Export Co., Ltd.—5, Mclean Street, Madras 1.
Voltas Ltd.—115/116, Armenian Street, Madras 1.

CARPENTERS' IMPLEMENTS

Grahams Trading Co. (India) Ltd.—311, Linghi Chetty Street, Madras 1.
McDowell & Co., Ltd.—Second Line Beach, Madras 1.
Taylor, T. A., & Co. (Madras) Ltd.—100, Armenian Street, Madras 1.
Vernon & Co., Ltd.—36, Linghi Chetty Street, Madras 1.
William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.
Wilson & Co.—North Railway Terminus Road, Royapuram, Madras.

CEMENTS & CONCRETE COMPANIES

Amalgamations Private Ltd.—202, Mount Road, Madras.
Asbestos Cement Ltd.—202, Mount Road, Madras 2.
Associated Cement Companies Ltd.—Mount Road, Madras 2.
Concrete Association of India.—Mount Road, Madras 2.
India Cement Ltd.—Vanguard House, Second Line Beach, Madras 1.
National Engineering Co. (Madras) Ltd.—379, Netaji Bose Road, Madras 1.
Wilson & Co., Ltd.—North Railway Terminus Road, Royapuram, Madras.

CENTRIFUGAL PUMPS

THE CHANDRA FOUNDRIES PRIVATE LTD.
Engineers & Machinists
Manufacturers of "Chandra" Centrifugal Pumps, "Jalarani" Plunger Type Domestic Pumps and "Zamindar" and "Kisan" Sugarcane crushers.
55, Basin Bridge Road,
Washermanpet,
Madras 21
Phone: 2079 Grams: "CHANPUMP"

CHAINS AND CHAIN DRIVES

Binny & Co. (Madras) Ltd.—7, Armenian Street, Madras 1.
Brady, W. H., & Co. Ltd.—154/155, Pophams, Broadway, Madras 1.
Kilburn & Co., Ltd.—32/33, Linghi Chetty Street, Madras 1.
Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras 1.
McDowell & Co., Ltd.—Second Line Beach, Madras 1.
Parry & Co., Ltd.—Dare House, First Line Beach, Madras 1.
Richardson & Cruddas Ltd.—First Line Beach, Madras 1.
Taylor, T. A., & Co. (Madras) Ltd.—100, Armenian Street, Madras 1.
Vernon & Co., Ltd.—36, Second Line Beach, Madras 1.

CHARTERED ACCOUNTANTS

B. Purushotham & Co.—2/19, Armenian Street, Madras 1.
G. L. Narasinham & Co.—375, Netaji Subhas Chandra Bose Road, Madras 1.
Kotadia & Co.—7, Luckmidoss Street, Madras 3.
Lakmiah & Co.—363, Netaji Subhas Chandra Bose Road, Madras 1.
M. K. Dandekar & Co.—Moor Street, Madras 1.
Sastri & Shah.—15, Armenian Street, Madras 1.

CHEMICAL DEALERS

Al. Sp. Pl. Subramanyam Chettiar.—Govindappa Naik Street, Madras 1.
Ameer Trading Corporation Ltd.—Govindappa Naik Street, Madras 1.
Amritlal & Co., Ltd.—Linghi Chetty Street, Madras 1.
Aniline Dyes & Chemicals Co.—Govindappa Naik Street, Madras 1.
A. T. Meherwada.—Govindappa Naik Street, Madras 1.
Capco Private Ltd.—16, Armenian Street, Madras 1.
Chandra Veerabhadrappa & Bros.—Govindappa Naik Street, Madras 1.
C. J. Seth.—Bunder Street, Madras 1.
Dadajee Dhackjee & Co., Ltd.—Govindappa Naik Street, Madras 1.
Ganga Dyes & Chemicals.—Nyniappa Naik Street, Madras 3.
G. Umakant & Co.—Govindappa Naik Street, Madras 1.
Indira Chemical Agency.—Govindappa Naik Street, Madras 1.
International Trading Corpn —Mint Street, Madras 3.
Khatau Vallabhdas & Co.—Govindappa Naik Street, Madras 1.
Lakshmi Colour Co.—Govindappa Naik Street, Madras 1.
Lashmidas Dwarkadas & Co.—Govindappa Naik Street, Madras 1.
Madras Colour Co.—Govindappa Naik Street, Madras 1.
M. Mohanlal & Co.—Mint Street Madras 3.
Nanavati & Co., Ltd.—Govindappa Naik Street, Madras 1.
Narandas Pramanandas.—Govindappa Naik Street, Madras 1.
N. K. Ramamoorthy.—Devaraju Mudali Street, Madras 1.
N. V. Kuppuswamy Iyer.—Pilliar Coil Street, Madras 3.
P. K. Jappe & Co.—Nyniappa Naik Street, Madras 3.
P. S. Narayanan.—Govindappa Naik Street, Madras 1.
Ramnath & Co.—Kondi Chetty Street, Madras 1.
South India Dyes Co.—Govindappa Naik Street, Madras 1.
Union Colour Co.—Thiruvotthyoor High Road, Madras.

CHEMICALS (IMPORTERS)

Best & Co., Ltd.—First Line Beach, Madras 1.
East Asiatic Co. (India) Ltd.—Mercantile Bank Building, First Line Beach, Madras 1.
Gillanders Arbuthnot & Co., Ltd.—First Line Beach, Madras 1.
Grahams Trading Co. (India) Ltd.—311, Linghi Chetty Street, Madras 1.
H. Chandanmal & Co.— 97, Nyniappa Naick Street, Madras 3.
Imperial Chemical Industries (India) Private Ltd.—Springhaven Road, The Harbour, Madras 1.
May & Baker (India) Ltd.—Purshotham Building, 193, Mount Road, Madras 2.
McDowell & Co., Ltd.—Second Line Beach, Madras 1.
Parry & Co., Ltd.—Dare House, First Line Beach, Madras 1.
Ralli's India Ltd.—Ralli House, 320, Linghi Chetty Street, Madras 1.
Ranganadhan, N.—25, Godown Street, Madras.
Sanghavi & Co.—90, Nyniappa Naick Street, Madras 3.
Shaw Wallace & Co., Ltd.—8/9, Thambu Chetty Street, Madras 1.
Spencer & Co., Ltd.—Mount Road, Madras 2.
Voltas Ltd.—115/116, Armenian Street, Madras 1.
Wilson & Co.—North Rly. Terminus Road, Royapuram, Madras.

CHEMICALS (MANUFACTURERS)

Gillanders Arbuthnot & Co., Ltd.—First Line Beach, Madras 1.
Imperial Chemical Industries (India) Ltd.—Bombay Mutual Building, Netaji Subhas Chandra Bose Road, Madras 1.
Parry & Co., Ltd.—"Dare House", First Line Beach, Madras 1.
Spencer & Co., Ltd.—Mount Road, Madras 2.

CHILLIES MERCHANTS

Appah & Co.—2, Chinnathambi Mudali Street, Madras 1.
Chengalraya Reddy & Co., V.—16, Chinnathambi Mudali Street, Madras 1.
Dalooram Jayanarayan & Co.—25, Chinnathambi Mudali Street, Madras 1.
G. Lakshmiah & Co.—1,3, Chinnathambi Mudali Street, Madras 1.
Gudur Sriramulu Chetty & Co.—12, Chinnathambi Mudali Street, Madras 1.
Kotiah Chetty Sons & Co., C. P. V.—21, Chinnathambi Mudali Street Madras 1.
Munaga Perumal Chetty & Co.—2,3, Chinnathambi Mudali Street, Madras 1.
Narayana Chetty & Son, N.—5, Chinnathambi Mudali Street, Madras 1.
Radhakrishnamurthy Sons & Co., P.—20, Chinnathambi Mudali Street, Madras 1.
Raghavalu Chetty & Co.—22, Chinnathambi Mudali Street, Madras 1
Raghavalu Naidu & Co., T.—2 5, Chinnathambi Mudali Street, Madras 1.
Ranganayakulu Chetty & Co., Y.—24, Chinnathambi Mudali Street, Madras 1.
Sri Venkateswara & Co.—6, Chinnathambi Mudali Street, Madras 1
Veeraswami Chetty & Co., S. N.—33, Chinnathambi Mudali Street, Madras 1.
Venkatarathnam Chetty & Co , P.—23, Chinnathambi Mudali Street, Madras 1.
Venkata Subba Rao & Co., P.—4, Chinnathambi Mudali Street, Madras 1.

CINEMAS

Ashok Talkies.—Madras 7.
Brighton Talkies.—Madras 13.
Casino Theatre.—Madras 2.
Chitra Talkies.—Madras.
Crown Talkies.—Mint Street, Madras 3.
Eros Theatre.—125-126, Lattice Bridge Road, Madras 20.
Midland Theatre, Ltd.—General Patters Road, Madras 2.
New Elphinstone.—Madras 2.
New Globe Theatre.—Madras 2.
Paragon Talkies.—Wallajab Road, Madras 2.
Plaza Theatre.—14, Mount Road, Madras 2.
Sayani Talkies.—Konnur Road, Madras 23.
Select Talkies.—31, Thatha Muthiappan Street, Madras 3.
Sri Krishna Talkies.—opp. Mint Bus Stand, Madras 21.
Sun Theatre.—Madras 6.

CLEARING AND FORWARDING AGENTS

Pereira, F. X., & Sons.—2/21, First Line Beach, Madras 1.
Sherif Travel and Cargo Service Ltd.—34, Second Line Beach, Madras 1.

CLOTHING MANUFACTURERS

COOGANS.—31, Mount Road, Madras 2. Phone: 84168. Grams: "STYLISH". Clothing Manufacturers and Exporters.

CORK AND CORK PRODUCTS

Larsen & Toubro Ltd.—4/5, Club House Road, Mount Road, Madras 2.
McDowell & Co., Ltd.—Second Line Beach, Madras 1.
Roberts McLellan & Co., Ltd.—200, Mount Road, Madras 2.
Spencer & Co., Ltd.—Mount Road, Madras 2.

CRANES

Amalgamations Private Ltd.—202, Mount Road, Madras 1.
Bombay Co., Ltd.—169, Broadway, Madras 1.
Brady, W. H., & Co., Ltd.—154/155, Pophams, Broadway, Madras 1.
Easun Engineering Co., Ltd.—5/7, Second Line Beach, Madras 1.
Gordon Woodroffe & Co. (Madras) Ltd.—1/21, North Beach Road, Madras 1.
Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras 1.
Guest, Keen, Williams, Ltd.—202, Mount Road, Madras 2.
Larsen & Toubro Ltd.—4/5, Club House Road, Mount Road, Madras 2.
Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras 1.
Richardson & Cruddas Ltd.—First Line Beach, Madras 1.
South India Export Co., Ltd.—5, Mclean Street, Madras 1.
William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

CROCKERY MERCHANTS

Abdul Rahim & Bros.—13, Evening Bazar Road, Madras 3.
A. K. Shah & Co.—28/29, Evening Bazar, Madras 3.
Aluminium Glassware Emporium.—289, China Bazar Road, Madras.
E. M. Abdulla & Co.—315/318, Netaji S. C. Bose Road, Madras 1.
Indian Glassware Depot.—29, Stringer Street, Madras 1.
Jamal's Corner Shop.—Evening Bazar Road, Madras 3.
J. M. Jamal & Bros.—289, Netaji S. C. Bose Road, Madras 1.
Kassam Chocku & Co.—288, China Bazar Road, Madras 3.
K. S. Shivji & Co.—178/179, Broadway, Madras 1.
Madras Glassware House.—Evening Bazar, Madras 3.
Mohmed Hussain & Bros.—Rattan Bazar, Madras 3.
Noor Mohmed & Co.—288, China Bazar Road, Madras 3.
P. Alli Mohmed Zinna & Co.—67/68, Rattan Bazar, Madras 3.
Peer Mohmed & Co.—3/287, Netaji S. C. Bose Road, Madras 1.
Poppat Jamal Sons.—Broadway, Madras 1.
S. Ibrahim & Co.—10, Jones Street, Madras.

CROWN CORKS

Imperial Chemical Industries (India) Private Ltd.—Springhaven Road, The Harbour, Madras 1.
Larsen & Toubro Ltd.—4/5, Club House Road, Mount Road, Madras 2.
McDowell & Co. Ltd.—Second Line Beach, Madras 1.
Metal Box Co. of India Ltd.—Elaya Mudali Street, Tondiarpet, Madras 21.

CRUCIBLES MANUFACTURERS

Gillanders Arbuthnot & Co., Ltd.—First Line Beach, Madras 1.
Grahams Trading Co. (India) Ltd.—311, Linghi Chetty Street, Madras 1.
Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras 1.
Taylor, T. A., & Co. (Madras) Ltd.—100, Armenian Street, Madras 1.
William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

CUTLERY MERCHANTS

Abdulla & Co., E. M.—315/318, Netaji Subhash Chandra Bose Road, Madras 1.
Abdul Rahim & Bros.—13, Evening Bazar Road, Madras 3.
A. K. Shah & Co.—28/29, Evening Bazar, Madras 3.
Aluminium Glassware Emporium.—289, China Bazar, Madras 3.
Indian Glassware Depot.—29, Stringer Street, Madras 1.
Jamal's Corner Shop.—Evening Bazar Road, Madras 3.
J. M. Jamal & Bros.—289, Netaji Bose Road, Madras 1.
Kassam Chacku & Co.—288, China Bazar, Madras 3.
K. Bajaram & Co.—8, Bunder Street, Madras
K. S. Shivji & Co.—178/179, Broadway, Madras 1.
Madras Glassware House.—Evening Bazar, Madras 3.
Mohmed Husain & Bros.—Rattan Bazar, Madras 3.
Noor Mohmed & Co.—288, China Bazar, Madras 3.
P. Alli Mohmed Zinna & Co.—67/68, Rattan Bazar, Madras 3.
Peer Mohmed & Co.—3/287, Netaji Bose Road, Madras 3.
Poppat Jamal & Sons.—Broadway, Madras 1. Phone 4031.
S. Ibrahim & Co.—10, Jones Street, Madras.

CYCLES AND CYCLE ACCESSORIES

Best Cycle Importing Co.—Broadway, Madras 1.
Bombay Cycle Importing Co.—7, Broadway, Madras 1.
Brittania Cycle Co.—14 15, Moore Market, Madras 3.
British Cycle Trading Co.—10, Broadway, Madras 1.
Burma Cycle Company.—Broadway, Madras 1.
Central Cycle & Motor Co.—Broadway, Madras 1.
Davey & Co., B. M.—16,C, Broadway, Madras 1.
English Cycle & Motor Importing Co., Ltd.—2, 4 9, Broadway, Madras 1.
K. S. Shivji & Co.—178/179, Broadway, Madras 1.
Madras Cycle & Motor Co.—10, Sunderdass Street, Madras.
Mehta Cycle Co.—Broadway, Madras 1.
Metropolitan Cycle House.—24, Broadway, Madras 1.
Minerva Cycle Importing Co.—166, Broadway, Madras 1
National Cycle Importing Co.—40, Broadway, Madras 1.
Oriental Cycle Importing Co.—Broadway, Madras 1.
Poppat Jamal & Sons.—Broadway, Madras 1.
Popular Cycle Importing Co.—8/9, Broadway, Madras 1.
Raja Cycle Company.—6/8, Broadway, Madras 1.
Rapid Industries.—Gerugampakkam, Kovur P.O., Chingleput Dist.
Royal Cycle & Motor Co.—13/14, Broadway, Madras 1.
Saraswat Cycle Importing Co.—15, Broadway, Madras 1.
Saurasthra Cycle Importing Co.—Broadway, Madras 1.
South India Cycle Importing Co.—7 B, Broadway, Madras 1.
S. V. R. Cycles Mart.—Broadway, Madras 1.
Wheel & Rim Co. of India Private Ltd.—Sembiam, Madras 11.

DAIRY MACHINERY IMPORTERS

Best & Co., Ltd.—First Line Beach, Madras 1.
Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras 1.
Marshall Sons & Co. (India) Ltd.—Marshall Bldg., Second Line Beach, Madras 1.
Voltas Ltd.—115/116, Armenian Street, Madras 1.

DIAMONDS, PRECIOUS STONES AND PEARL MERCHANTS

ANIL ART DIAMOND CO.—100, Mint Street, Madras 1.
Bapalal & Company.—Rattan Bazaar, Park Town, Madras 3.
Bhanji Bhagwandass.—94, Mint Street, Madras 1.
Burma Moguk Diamond Co.—238, Naiken Street, Madras 1.
Burma-Rangoon Diamond Mfg.—96, Mint Street, Madras 1.
Chimanlal Kothari & Co.—191, Netaji Bose Road, Madras 1.
Chottabhai & Co.—191, Netaji Bose Road, Madras 1.
Davey Chimanlal & Co.—105, Netaji Bose Road, Madras 1.
DEVRAJ MANICKCHAND.—2,30, Veerappan Street, Madras.
D. Hansraj Khimsura.—10, Abboy Naidu Street, Kondithope, Madras.
Dinuprakash Kantilal.—400, Mint Street, Madras 1.
G. Namberumal Chetty S. R. Chakrapani Naidu & Co.—40, Netaji Bose Road, Madras 1.
Gordhandass & Company.—2, Genguraman Street, Madras
Hanuman Sahai & Bros.—97, Mint Street, Madras 1.
Harikant & Co.—25, Tholasingam Street, Madras.
Harikishan Joshi.—428, Mint Street, Madras 1.
Hind Diamond Co.—97, Mint Street, Madras 1.
Imperial Chemical Diamond Co.—425 and 94, Mint Street, Madras 1.
Indian Chemical Diamond Works.—3, Veerappan Street, Madras.
Indo-Burma Jewellers —187, Netaji Bose Road, Madras 1.
Ishwarlal Kalidass.—126, Nyneappa Naik Street, Madras.
Jamnadass & Co.—101, Mint Street, Madras 1.
Jayantilal B. Parekh.—434, Mint Street, Madras 1.
Jayantilal Mangalji & Co.—175, Netaji Bose Road, Madras 1.
Jayavil Chemical Diamond Co.—183, Netaji Bose Road, Madras 1.
Kantilal & Co.—160, Netaji Bose Road, Madras 1.
Kapur Chand & Co.—98, Mint Street, Madras 1.
Kesavalal & Co.—173, Netaji Bose Road, Madras 1.
K. G. Kothari.—98, Mint Street, Madras 1.
Khengar Veecumsee —170, Netaji Bose Road, Madras 1
Kota Munuswamy Chetty & Sons —223, Netaji Bose Road, Madras 1.
K. R. Purushothamdass.—72, Mint Street, Madras 1.
Manilal & Sons.—172, Netaji Bose Road, Madras 1.
Meghraj Joshi.—428, Mint Street, Madras 1.
Mehta Bros.—429, Mint Street, Madras 1.
Mehta Gems Co.—89-G, Mint Street, Madras 3
Nama Jayarama Chetty & Sons.—29, Netaji Bose Road, Madras 1.
Nama Venkatarayalu Kanniah Chetty.—29, Netaji Bose Road, Madras 1.
Natwarlal Vadilal.—6, Govindappa Naiken Street, Madras 1.
Nemichand Jhabeck.—1 428, Mint Street, Madras 1
Parasmal Bhogilal —3, Tholasingam Street, Madras.
Premchand Lodha & Co.—105, Mint Street, Madras 1.
President Diamond Co.—99, Mint Street, Madras 1.
Raghunandan Prasad & Co.—433, Mint Street, Madras 1.
Raghuveer Sahai & Co.—428, Mint Street, Madras 1.
Rangoon Diamond Syndicate.—76, Netaji Bose Road, Madras 1.
Ratilal Ishwarlal Mehta.—77, Netaji Bose Road, Madras 1.
Ratilal Vadilal.—113, Mint Street, Madras 1.
Roshin Chemical Diamond Co.—434, Mint Street, Madras 1.
R. T. TATACHARI.—9, Rajabatharmudaly Street, T. Nagar, Madras 17. (Mg. Partner of Messrs T. R. Aiyengar).
Sagarmal Samdaria Bros.—17, Tholasingam Street, Madras.
Shantilal Bros.—103, Perumalmudaly Street, Madras 1.
Shaw Brothers.—21, Netaji Bose Road, Madras 1.
Sidharaj Bros.—93, Perumalmudaly Street, Madras 1.
Sohanlal Mehta.—42, Generalmuthiahmundaly Street, Madras.
Sun Chemical Diamond Co.—437, Mint Street, Madras 1.
SURAJMAL'S.—Jewellers, Diamond Merchants, Gold and Silversmiths. Watch Dealers, Importers and Exporters of Diamonds, Precious and Semi-precious Stones. 313, Esplanade, Madras. Grams: 'MORALITY'. Phone: 2250.
Surani Bros. Co.—3, Veerappan Street, Madras.
S. Seetharam Jaipur.—93, Mint Street, Madras 1.
T. Baghchand Gallada.—4, Nageswara Road, T. Nagar, Madras.
T. Nanmmu Shanker Tawker.—192, Netaji Bose Road, Madras 1.
T. RANGASWAMY IYENGAR.—9, Rajabatharmudaly Street, T. Nagar, Madras 17. (Prop. of Messrs T. R. Aiyengar).
T. R. AIYENGAR.—9, Rajabatharmudaly Street, T. Nagar, Madras 17. (Prop., T. Rangaswamy Iyengar).
T. R. Joshi & Sons.—38, Ekambareswarar Agraharam, Madras.
U. Manilal & Co.—90, Netaji Bose Road, Madras 1.
Vattam Seshiah Chetty & Sons.—22, Netaji Bose Road, Madras 1.
Vummidi Ramiah Chetty Guruswamy Chetty & Co.—24,25, Netaji Bose Road, Madras 1.

DISINFECTANTS AND INSECTICIDES MFRS.

Bombay Co., Ltd.—160, Broadway, Madras 1.
Gillanders Arbuthnot & Co., Ltd.—First Line Beach, Madras 1.
Imperial Chemical Industries (India) Private Ltd.—Springhaven Road, The Harbour, Madras 1.
Kilburn & Co., Ltd.—32,33, Linghi Chetty Street, Madras 1.
Spencer & Co., Ltd.—Mount Road, Madras 2.
William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

DISTEMPERS

Amalgamations Private Ltd.—202, Mount Road, Madras 2.
Best & Co., Ltd.—First Line Beach, Madras 1.
Bombay Co., Ltd.—169, Broadway, Madras 1.
Gillanders Arbuthnot & Co., Ltd.—First Line Beach, Madras 1.
McDowell & Co., Ltd.—Second Line Beach, Madras 1.
Parry & Co., Ltd.—Dare House, First Line Beach, Madras 1.
Taylor, T. A., & Co. (Madras) Ltd —100, Armenian Street, Madras 1.
Vernon & Co., Ltd.—36, Second Line Beach, Madras 1.
William Jacks & Co., Ltd.—National Bank Building, First Line Beach, Madras 1.
Wilson & Co.—North Rly. Terminus Road, Royapuram, Madras.

DRAWING MATERIAL DEALERS

Charles Morgan & Co., Ltd.—314,315, Linghi Chetty Street, Madras 1.
Gillanders Arbuthnot & Co., Ltd.—First Line Beach, Madras.
P. Orr & Sons Ltd.—Mount Road, Madras 2.

DRILLS AND DRILLING EQUIPMENT

Amalgamations Private Ltd.—202, Mount Road, Madras 1.
Best & Co., Ltd.—First Line Beach, Madras 1.
Gordon Woodroffe & Co. (Madras) Ltd.—1 21, North Line Beach Road, Madras 1.
Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras 1.
Guest, Keen, Williams, Ltd.—202, Mount Road, Madras 2.
Larsen & Toubro Ltd.—4/5, Club House Road, Mount Road, Madras 2.
Marshall Sons & Co. (India) Ltd.—Marshall Bldg., Second Line Beach, Madras 1.
Parry & Co., Ltd.—Dare House, First Line Beach, Madras.
Rallis India Ltd.—Ralli House, 320, Linghi Chetty Street, Madras 1.
South India Export Co., Ltd.—5, Mclean Street, Madras 1.
William Jacks & Co., Ltd.—National Bank of India Bldg., First Line Beach, Madras 1.

DYESTUFFS IMPORTERS, DEALERS, ETC.

Ameer Trading Corporation Ltd.—Govindappa Naik Street, Madras 1.
Amritlal & Co., Ltd.—Linghi Chetty Street, Madras 1.
Aniline Dyes & Chemical Co.—Govindappa Naik Street, Madras 1.
A. T. Meherwade—Govindappa Naik Street, Madras 1.
Capcas Ltd.—Singanna Naiken Street, Madras 1.
Chandra Veerabhandrappa & Bros.—Govindappa Naik Street, Madras 1.
Dadajee Dhackjee & Co., Ltd.—Govindappa Naik Street, Madras 1.
Ganga Dyes & Chemicals—Nyniappa Naik Street, Madras 3.
G. Umakant & Co.—Govindappa Naik Street, Madras 1.
Indira Chemical Agency—Govindappa Naik Street, Madras 1.
International Trading Corpn.—Mint Street, Madras 3.
Khatau Vallabhdas & Co.—Govindappa Naik Street, Madras 1.
Lakshmi Colour Co.—Govindappa Naik Street, Madras 1.
Lakshmidas Dwarkadas & Co.—Govindappa Naik Street, Madras 1.
Madras Colour Co.—Govindappa Naik Street, Madras 1.
M. Mohanlal & Co.—Mint Street, Madras 3.
Nanavati & Co., Ltd.—Govindappa Naik Street, Madras 1.
P. K. Jappe & Co.—Nyniappa Naik Street, Madras 3.
P. S. Narayanan—Govindappa Naik Street, Madras 1.
Ramnath & Co.—Kondi Chetty Street, Madras 1.
South India Dyes Co.—Govindappa Naik Street, Madras 1.
Union Colour Co.—Thiruvottiyoor High Road, Madras.

EARTH MOVING & MATERIAL HANDLING EQUIPMENT

Larsen & Toubro Ltd.—4/5, Club House Road, Mount Road, Madras 1.
Marshall Sons & Co. (India) Ltd.—Marshall Bldg., Second Line Beach, Madras 1.
Voltas Ltd.—115/116, Armenian Street, Madras 1.
William Jacks & Co., Ltd.—National Bank of India Bldg., First Line Beach, Madras 1.

ELECTRIC CABLES AND WIRES (MANUFACTURE)

British Insulated Callender's Cables Ltd.—37, Second Line Beach, Madras 1.
General Electric Co. of (India) Ltd.—Magnet House, Mount Road, Madras 1.
Gillanders Arbuthnot & Co., Ltd.—First Line Beach, Madras 1.

ELECTRIC FURNACES

ASSOCIATED ELECTRICAL INDUSTRIES (INDIA) PRIVATE LTD.—11 12, First Line Beach, Madras. (See Commercial firms in Madras).

ELECTRIC LAMPS

ASSOCIATED ELECTRICAL INDUSTRIES (INDIA) PRIVATE LTD.—11 12, First Line Beach, Madras. (See Commercial firms in Madras).

ELECTRIC MOTORS, GENERATORS AND SETS

ASSOCIATED ELECTRICAL INDUSTRIES (INDIA) PRIVAT. LTD.—11 12, First Line Beach, Madras. (See Commercia firms in Madras).

ELECTRICAL GOODS (ALTERNATORS, MOTORS GENERATORS AND SETS)

Amalgamations Private Ltd.—202, Mount Road, Madras 2.
Andhra Electric Co.—Andhra House, 115/A, China Bazar, Madras 1
Associated Electrical Industries (India) Ltd.—11/12, First Line Beach, Madras 1.
Binny & Co. (Madras) Ltd.—7, Armenian Street, Madas 1.
EAST ASIATIC COMPANY (INDIA) PRIVATE LTD., THE.—Machine & Engineering Dept., Bharat Bldg., Mount Road, Madras 2; Phone : 86021 2; Grams : "MANDARIN"; P.O Box No. 146.
Easun Engineering Co , Ltd.—5/7, Second Line Beach, Madras 1
General Electric Co. of India Private Ltd.—Magnet House, Mount Road, Madras 2.
Guest, Keen, Williams, Ltd.—202, Mount Road, Madras 2.
Industrial Stores Company, The.—2, Errabalu Chetty Street, Madras 1.
Kilburn & Co., Ltd.—32/33, Linghi Chetty Street, Madras 1.
Marshall Sons & Co. (India) Ltd.—Marshall Bldg , Second Line Beach, Madras 1.
National Engineering Co. (Madras) Ltd., The,—379, Netaji Subhas Chandra Bose Road, Madras 1.
Parry & Co., Ltd.—Dare House, First Line Beach, Madras 1
P. Natesan (Industries) Ltd.— 191 Triplicane High Road, Madras 5
Rallis India Ltd.—Ralli House, 320, Linghi Chetty Street, Madras 1
Richardson & Cruddas Ltd.—First Line Beach, Madras 1
South India Export Co., Ltd.—5, Mclean Street, Madras 1
Voltas Ltd.—115/116, Armenian Street, Madras 1.
William Jacks & Co., Ltd.—National Bank of India Bldg , First Line Beach, Madras 1.

ELECTRICAL GOODS AND APPLIANCES

Andhra Electric Co.—Andhra House, 115A, China Bazar, Madras
ASSOCIATED ELECTRICAL INDUSTRIES (INDIA) PRIVATE LTD., 11 12, First Line Beach, Madras. (See Commercial firms in Madras).
Chicago Telephone & Radio Co., Ltd.—196, Mount Road, Madras 2
City Electric Stores—133 139, Devaraja Mudali Street, Madras 3
Easun Engineering Co., Ltd.—5/7, Second Line Beach Madras 1
General Electric Co. of India Ltd.—Magnet House, Mount Road, Madras 1.
Gordon Woodroffe & Co. (Madras) Ltd.—1/21, North Beach Road, Madras 1.
Himco (India) Private Ltd.—Dinroze Estate, 1 17, Mount Road, Madras 6.
Kilburn & Co., Ltd.—32,33, Linghi Chetty Street, Madras 1
Kumar Brothers—61, Netaji Subhas Chandra Bose Road, Madras 1
Larsen & Toubro Ltd.—4/5 Club House Road, Mount Road, Madras 1
Madras Electricals Ltd.—55/57, Rattan Bazar, Madras 3.
Marshall Sons & Co. (India) Ltd.—Marshall Bldg., Second Line Beach, Madras 1.
Ramdas Motor & Electrical Co.—194, Mount Road, Madras 2.
Voltas Ltd.—115/116, Armenian Street, Madras 1.
Westrex Company India (formerly Western Electric Co. of India) — 35, Mount Road, Madras 2.
William Jacks & Co., Ltd.—National Bank of India Bldg., First Line Beach, Madras 1.

ELECTRICAL INSTRUMENTS AND METERS

ASSOCIATED ELECTRICAL INDUSTRIES (INDIA) PRIVATE LTD.—11 12, First Line Beach, Madras. (See Commercial firms in Madras).

ELECTRODES

ASSOCIATED ELECTRICAL INDUSTRIES (INDIA) PRIVATE LTD.—11 12, First Line Beach, Madras. (See Commercial firms in Madras).

ENGINEERING STORES

Amalgamations Private Ltd.—202, Mount Road, Madras.
Easun Engineering Co., Ltd.—5/7, Second Line Beach, Madras 1
Grahams Trading Co. (India) Ltd.—311, Linghi Chetty Street, Madras 1.
Hassanally, A. M., & Co.—34, Linghi Chetty Street, Madras 1. Phone : 2562. Grams : "BRILLIANT."
Heatly & Gresham Ltd.—United India Bldg., Esplanade, Madras 1
Kilburn & Co., Ltd.—32/33, Linghi Chetty Street, Madras 1.
Marshall Sons & Co. (India) Ltd.—Marshall Bldg., Second Line Beach, Madras 1.

Roberts Mclean & Co., Ltd.—200, Mount Road, Madras 2.
South India Export Co. Ltd.—5, Mclean Street, Madras 1.
Voltas Ltd.—115/116, Armenian Street, Madras 1.
William Jacks & Co., Ltd.—National Bank of India Bldg., First Line Beach, Madras 1.

ENGINEERS AND CONTRACTORS

ASSOCIATED ELECTRICAL INDUSTRIES (INDIA) PRIVATE LTD., 11/12, First Line Beach, Madras. (See Commercial firms in Madras).

EASUN ENGINEERING COMPANY LIMITED.—5-7, Second Line Beach, Madras 1. Phone : 3948 (3 Lines), also at London, Calcutta & New Delhi; Electrical & Mechanical Engineers & Contractors.

Gannon Dunkerley & Co. Ltd.—Catholic Centre, Armenian Street, Madras.
South India Corporation (Madras) Ltd.—2, Armenian Street, Madras 1.

ENGINEERING WORKS

Amalgamations Private Ltd.—202, Mount Road, Madras 1.
Easun Engineering Co , Ltd.—5/7, Second Line Beach, Madras 1.
Ganesa Engineering Works—Sri Mannaraswami Koil, Mount Road, Madras 2.
Guest, Keen, Williams, Ltd.—202, Mount Road, Madras 1.
Jayems Engineering Works, Ltd.—120, Armenian Street, Madras 1.
William Jacks & Co. Ltd.—National Bank of India Bldg., First Line Beach, Madras 1.

ENGINEERS—ELECTRICAL AND MECHANICAL

Amalgamations Private Ltd.—202, Mount Road, Madras 2.
Associated Electrical Industries (India) Ltd.—11/12, First Line Beach, Madras 1.
Associated Electricals Private Ltd.—12-A, Linghi Chetty Street, Madras 1.
Easun Engineering Co. Ltd.—5/7, Second Line Beach, Madras 1.
F A C Osler (India) Ltd.—Post Box No. 1276 1st Line Beach, Madras.
Fomra Brothers—"Fomra House", 392, Mint Street, Madras.
General Electric Co. of India Private Ltd.—Magnet House, Mount Road, Madras 2.
Guest, Keen, Williams, Ltd.—200, Mount Road, Madras 2.

INDIA ELECTRIC WORKS, LTD.—Chatnath Buildings, 19 20, Mount Road, Madras 2. Phone : 80086. Grams : "MANUFACTER." Manufacturers of I.E.W. Low Consumption, Fans, Telephones, Telegraph and Railway Signalling Instruments, Pole Fittings, Electrical Accessories, Domestic Appliances, Fractional H.P. Motor and Starters, etc. Repairers of Measuring Instruments, Mechanical and Electrical Engineers and approved Contractors to Railways and I.S.D. Head Office & Factory : Diamond Harbour Road, Behala, Calcutta 36. Instrument Factory : 28, South Road, Entally, Calcutta. Other Branches : Bombay, Calcutta, Delhi, Kanpur and Patna. Selling Agents for "PRADIP" Lamps. Managing Director : Shri B. K. Rohatgi. Manager : V. E. S. Gupta.

Jayems Engineering Co.—Errabalu Street, Madras 1.
Kilburn & Co., Ltd.—32/33, Linghi Chetty Street, Madras 1.

K. R. KOTHANDARAMAN & CO., (PRIVATE) LTD.—Indian Chamber Bldg., Esplanade, P.O. Box 1555, Madras 1; Phone : 3684; Grams : "KORAMAN". Agents in India for Hackethal Draht Und Kabel Werke, Hannover, Germany; Insulated Wires & Cables; Demmitwerke, GmbH, Koppecke, Germany-Power Transformers.

Kumar Brothers—61, China Bazar, Madras 1.
Lucas Indian Service, Ltd.—10, Patalu Road, Madras 2.
Madras Electricals Ltd.—55/57 Rattan Bazar, Madras 3.
Marshall Sons & Co. (India) Ltd.—Marshall Bldg., Second Line Beach, Madras 1.
R.M. S. & Co. Private Ltd.—16, Broadway, Madras 1. Phone : 4060.

MODI & MODI.—11, Linghi Chetty Street, P. B. No. 293, Madras 1. Phone : 3006. Grams : "HIGHSPEED". Electrical Merchants and Engineers.

Richardson & Cruddas Ltd.—First Line Beach, Madras 1.

SEEYENSEE & CO.—55, Anderson St., Madras 1; Phone : 4195; Grams : "SEEYENSEE"; Electrical Engineers, Direct Importers and Suppliers to Govt. and Railways; Branches at 5-B, Kingsway, Secunderabad (Dn.) and 10,64, Park Road, Vijayawada 1.

Seeyensee & Co.—55, Anderson Street, Madras 1.
Shree Nursingdas Mudungopal Electric Co.—419, Mint Street, Madras 1.
South India Corporation (Madras) Ltd.—2, Armenian Street, Madras 1. Phone : 2724. Grams : "GOODWILL".
South India Export Co., Ltd.—5, Mclean Street, Madras 1.
Voltas Ltd.—115/116, Armenian Street, Madras 1.
William Jacks & Co., Ltd.—National Bank of India Bldg., First Line Beach, Madras 1.

ENGINEERS, HYDRAULIC

Marshall Sons & Co. (India) Ltd.—Marshall Bldg., Second Line Beach, Madras.
South India Export Co., Ltd.—5, Mclean Street, Madras 1.
Voltas Ltd.—115/116, Armenian Street, Madras 1.

ENGINES (DIESEL AND OIL)

Amalgamations Private Ltd.—202, Mount Road, Madras 2
Best & Co., Ltd.—First Line Beach, Madras 1.
Bharat Motors.—35, Mount Road, Madras 2. Phone : 85501. Grams : "BHARATCARS."
Binny & Co., Ltd.—7, Armenian Street, Madras 1.
Bombay Co., Ltd.—169, Broadway, Madras 1.
Brady, W. H., & Co., Ltd.—154/155, Popliams, Broadway, Madras 1.

EAST ASIATIC COMPANY (INDIA) PRIVATE LTD., THE.—Machine & Engineering Dept., Bharat Bldg., Mount Road, Madras 2; Phone : 86021/2; Grams : "MANDARIN"; P.O. Box No. 146.

Easun Engineering Co., Ltd.—5/7, Second Line Beach, Madras 1.
Gordon and Woodroffe & Co. (Madras) Ltd.—1/21, North Beach Road, Madras 1.
Greaves Cotton & Co., Ltd.—19 Second Line Beach, Madras 1.
Guest, Keen, Williams, Ltd.—202, Mount Road, Madras 2.
Hindustan Pistons Ltd.—Madras 2.
Larsen & Toubro Ltd.—4/5, Club House Road, Mount Road, Madras 2.
Marshall Sons & Co. (India) Ltd.—Marshall Bldg., Second Line Beach, Madras 1.
National Engineering Co. (Madras) Ltd., The,—379, Netaji Subhas Chandra Road, Madras 1.
Parry & Co., Ltd.—"Dare House", First Line Beach, Madras 1.
Rallis India Ltd.—Ralli House, 320, Linghi Chetty Street, Madras 1.
South India Export Co., Ltd.—5, Mclean Street, Madras 1.
Taylor, T. A., & Co. (Madras) Ltd.—100, Armenian Street, Madras 1.
Voltas Ltd.—115/116, Armenian Street, Madras 1.

ESSENTIAL OILS

Amalgamations Private Ltd.—202, Mount Road, Madras 1.
East Asiatic Co. (India) Ltd.—First Line Beach, Madras 1.
McDowell & Co., Ltd.—Second Line Beach, Madras 1.
Spencer & Co., Ltd.—Mount Road, Madras.
Voltas Ltd.—115/116, Armenian Street, Madras 1.
Wilson & Co.—North Railway Terminus Road, Royapuram, Madras.

FERTILISERS (IMPORTS)

Imperial Chemical Industries (India) Private Ltd.—Springhaven Road, "The Harbour", Madras 1.
Louis Dreyfus & Co., Ltd.—99, Armenian Street, Madras 1.
Parry & Co., Ltd.—"Dare House", First Line Beach, Madras 1.
Rallis India Ltd.—Ralli House, 320, Linghi Chetty Street, Madras 1.
Ranganadhan N.—25, Godown Street, Madras 3.
Shaw Wallace & Co., Ltd.—8/9, Thambu Chetty Street, Madras 1.

FERTILISERS (MFRS.)

Imperial Chemical Industries (India) Private Ltd.—Springhaven Road, "The Harbour", Madras 1.
Mysore Fertiliser Co.—31/A, North Beach Road, Madras 1.
Parry & Co., Ltd.—"Dare House", First Line Beach, Madras 1.
Rallis India Ltd.—Ralli House, 320, Linghi Chetty Street, Madras 1.
Scientific Fertiliser Co., Ltd.—53, Second Line Beach, Madras 1.
Shaw Wallace & Co., Ltd.—8/9, Thambu Chetty Street, Madras 1.

FILTERS AND FILTRATION PLANT

Binny & Co., Ltd.—7, Armenian Street, Madras 1.
Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras 1.
Kilburn & Co., Ltd.—32/33, Linghi Chetty Street, Madras 1.
Larsen & Toubro Ltd.—4/5, Club House Road, Mount Road, Madras 2.

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Also Suppliers of Plant Protection Products and All Estate Requisites

Roberts Mclean & Co , Ltd.—200, Mount Road, Madras 2.
South India Export Co., Ltd.—5, Mclean Street, Madras.
William Jacks & Co., Ltd.—National Bank of India Bldg., First Line Beach, Madras 1.

FIRE EXTINGUISHERS AND FIRE FIGHTING EQUIPMENT

Best & Co., Ltd.—First Line Beach, Madras 1.
Binny & Co., Ltd.—7, Armenian Street, Madras 1.
Parry & Co., Ltd.—"Dare House", First Line Beach, Madras 1
Roberts Mclean & Co , Ltd.—200, Mount Road, Madras 2.
South India Export Co., Ltd.—5, Mclean Street, Madras.
William Jacks & Co., Ltd.—National Bank of India Bldg., First Line Beach, Madras 1.

FOOD PRODUCTS AND PROVISIONS (IMPORT)

Beardsell, W. A., & Co., Ltd.—Second Line Beach, Madras 1.
East Asiatic Co. (India) Ltd.—Mercantile Bank Bldg., First Line Beach, Madras 1.
Lipton Ltd.—129, Moore Street, Madras 1.
McDowells & Co , Ltd.— Second Line Beach, Madras 1.
Spencer & Co., Ltd.—Mount Road, Madras 2.

FOUNTAIN PENS IMPORTERS, MANUFACTURERS AND DEALERS

THE PILOT PEN CO. (INDIA) PRIVATE LTD.—Catholic Centre, Armenian Street, Madras 1. Manufacturers and Exporters of High Grade 'PILOT' Fountain Pens and Inks. Branches at 8-B, Jindal Trust Bldg., Asaf Ali Road, New Delhi; 9, Chowringhee Road, Calcutta 13; 343, Abdul Rehman Street, Bombay 3.

FURNACES

Associated Electrical Industries (India) Ltd.—11/12, First Line Beach, Madras 1.
Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras 1.
Larsen & Toubro Ltd.—4,5, Club House Road, Mount Road, Madras 2.
Marshall Sons & Co. (India) Ltd.—Marshall Bldg., Second Line Beach, Madras 1.
South India Export Co., Ltd.—5, Mclean Street, Madras 1.
Voltas Ltd.—115/116, Armenian Street, Madras 1.
William Jacks & Co., Ltd.—National Bank of India Bldg., First Line Beach, Madras 1.

FURNITURE DEALERS & MANUFACTURERS

Amalgamations Private Ltd.—202, Mount Road, Madras 2.
Best & Co., Ltd.—First Line Beach, Madras 1.
C. Narain Pillay & Co.—316, Pycrofts Road, Royapettah, Madras.
Curzon & Co.—97, Wallajah Road, Madras 2.
Favourite & Co.—96, Wallajah Road, Mount Road, Madras 2.
Karunakarars—55, Monegarchoultry Road, Madras 21.
K. V. Venkatesam Naidu & Co.—138, Mount Road, Madras 6.
N. Gopaul Pillay & Co.—3/30A, Mount Road, Madras 2.
Spencer & Co., Ltd.—Mount Road, Madras 2.
S. P. Shunmugam & Sons—31, Mount Road, Madras 2.
Wrenn Bennett & Co. (India) Ltd.—Mount Road, Madras 2. Phone : 86916.

GARAGE EQUIPMENT

Amalgamations Private Ltd.—202, Mount Road, Madras 2.
Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras 1.
Jayeems Engineering Co.—26, Erraballu Chetty Street, Madras 1.
Larsen & Toubro Ltd.—4,5, Club House Road, Mount Road, Madras 2.
Marshall Sons & Co. (India) Ltd.—Marshall Bldg., Second Line Beach, Madras 1.
Rallis India Ltd —Ralli House, 320, Linghi Chetty Street, Madras 1
Taylor T. A., & Co. (Madras) Ltd —100, Armenian Street, Madras 1
Vernon & Co , Ltd.—36, Second Line Beach, Madras 1.

GENERAL MERCHANTS & COMMISSION AGENTS

A. V. R. & Company.—Winchpet, Vijayawada 1 (Krishna Dist.)
Alapati Seshadri Rao & Co.— P.B. No. 58 Guntur
Appanna Subramanyam & Sons.—Gunduvari Street, Rajahmundry (E.G. Dist.).
Bandaru Yerram Chetty & Sons - Anakapalle (Visakhapatnam Dist.)
Chittoori Appalaroyu —P.B. No. 71, Main Road (E. G. Dist.)
Chokkanathan Chettiar, S. Shevapet Salem 2.
Das, R. K.—Dabagarden, Vizianagram, (Distt. Visakhapatnam)
De Luxe Agencies —29, Parsi Shop Street, Kothapet, Guntur 1
Gopalakrishna Rice & Oil Mills.— Tadepalligudem, (W. G. Dist.)
Gulamali Abdul Hussain & Co.— 28 29, Linghi Chetty Street, Madras 1
Immidisetti Ramakrishniah & Sons. -Anakapalle (Distt. Visakhapatnam.)
Issa Venkataramiayya Chetty & Co —48, Kandappa Chetty Street, Madras 1.
Itta Venkataramiah Setty.—53, Thathamuthiappan Street, Madras 1
Jonnavithula Seetharaman-Janeyalu — P.B. 58 Vijayawada 1 (Krishna Distt.)
K. Chandramouli Setty P. Subbaiah & Co.—Nellore
Kalyawasundara Nadar, A. D.— Great Cotton Road, Tuticorin
Kanuri Venkata Ratnam.—79, Second Main Road, Madras 20
Komatala Venkatswami Naidu.—Anakapalle (Visakhapatnam Distt.)
Kothuri Subramanyam Chetty. -9, Andiappa Naick Street, Madras 1
Krishna Fancy Store. - 94, Narayana Mudali Street, Madras 1
Krishna Industrial Co-operation Ltd. 55, Peters Road, Madras 6
Krishnaswamy Chettiar, K. T.—Arunachala Asari Street, Salem 1.
M. Venkoba Rao.—106, Linghi Chetty Street, Madras 1
Mamidi Srinivasulu Chetty, 133, Andiappa Naick Street, Madras 1
Manohara Cottage Industries.—P.O. Kumarapalayam, via Bhawani
Mathalai Navdar & Co., T. M. M.—South Raja Street, Tuticorin
Moorthy Chettiar, K. M.—Shevapet, Salem
Moosa Mohamed & Sons.—Anakapalle (Visakhapatnam Distt.)
Murugappa Chettiar, K. P.—P.O. Kallavi, Dasampatti R.S., (Distt. Salem).
Murcott & Co., (India) Private Ltd.—28, Stringer Street, Madras 1.
Murthy & Co., P. S. N.— Rajaji Street, Kakinada (E. G. Distt.)
Muthyala Subbrangiah Chetty.—113, Andiappa Naick Street, Madras 1.
Nammalwar Chetty & Sons, A.—117,25, Acharappan Street, Madras 1.
Nanaiah Chettiar & Bros , B. N.—P.O. Palakodu (Salem Distt.).
Natham & Co., P. R.—2 285, N. S. C. Bose Road, Madras 1
Raichooli Veeranna Sons.— Adoni (Kurnool Distt.).
Rajagopal Chetty & Sons, K.—Kalla Kurichi (S. Arcot Distt.).
Ragu Chetty & Bros., T. S. —159, Anna Pillai Street, Madras 1.
Ramiah Chetty & Co., R. V.—15, Andiappa Naick Street, Madras 1.
Ranganaya Kulu Chetty & Co., T.—24, Chinnathambi Mudali Street, Madras 1.
Reddy Adimurty & Co.—Wharf Road, Kakinada (E. G. Distt.).
Sainathan & Co., S. P.—13,106, Islampet, Vijayawada 1. (Krishna Distt.).
Sanatmana Rawanna & Co.—Pereira Street, Tuticorin.
Sarangapani Chettiar, A. K.—Main Road, Shevapet, Salem 2.
Shah Pravinbhai.—P.B. No. 218, Shevapet P.O., Salem 2.
Shaik Mohamed Rowther & Co., K. P. V.—41, Linghi Chetty Street, Madras 1.
Sheth, C. J.—2, Bunder Street, Madras 1.
Soora Chandrasekar & Bros.—10, Broadway, Madras 1.
Southern Agencies.—7, Kowdi Chetty Street, Madras 1.
Subramaniam Chettiar, M.—P.O. Kallavi, Dasampatti R. S., (Distt. Salem).
Subbarayulu Chetty & Son, D.—145, Anna Pillai Street, Madras 1.

Tadavarthi Punniah & Bros.—Rajahmundry (E. G. Distt.).
Thiraviaratna Nadar, P. S. T. S.—South Raja Street, Tuticorin.
V. N. P. R. Aiyasami Nadar.—South Raja Street, Tuticorin.
Venkata Krishna Chetty & Co., G.—18, Chinnathambi Mudali Street, Madras 1.
Yadlapalli Venkateswarlu & Co.—Stonehousepet, Nellore.

GLASS AND GLASSWARE MERCHANTS & IMPORTERS

Abdul Rahim & Bros.—13, Evening Bazar Road, Madras 3.
Abdulla & Co., (E.M.).—315/318, Netaji Subhas Chandra Bose Road, Madras 1.
A. K. Shah & Co.—28/29, Evening Bazar, Madras 3.
Aluminium Glassware Emporium—289, China Bazar, Madras 3.
Associated Electrical Industries (India) Ltd.—11/12, First Line Beach, Madras 1.
Bawa Glass Co.—52, Devaraja Mudali Street, Madras 3.
Best & Co., Ltd.—First Line Beach, Madras 1.
Bombay Co., Ltd.—169, Broadway, Madras.
C. Cunniah & Co.—248/249, Devraja Mudaly Street, Madras 3.
D. Ramaiah Chetty & Sons.—230, Devraja Mudaly Street, Madras 3.
Grahams Trading Co. (India) Ltd.—311, Linghi Chetty Street, Madras 1.
Indian Glassware Depot.—29, Stringer Street, Madras 1.
Jamal's Corner Shop.—Evening Bazar Road, Madras 3.
J. M. Jamal & Bros.—289, Netaji Bose Road, Madras.
Kassam Chacku & Co.—288, China Bazar, Madras 3.
K. RAJARAM & CO.—8, Bunder Street, Madras 1.
K. R. S. Sreenivasiah & Sons.—169, Devaraja Mudali Street, Madras 3.
K. S. Shivji & Co.—178/179, Broadway, Madras 1.
Madras Glassware House.—Evening Bazar, Madras 3.
McDowell & Co., Ltd.—Second Line Beach, Madras 1.
Mohamed Hussain & Bros.—Rattan Bazar, Madras 3.
Noormahomed & Co.—5/288, N. S. C. Bose Road, Madras 1.
Noor Mohamed & Co.—288, China Bazar, Madras 3.
P. Alli Mohamed Zinna & Co.—67/68, Rattan Bazar, Madras 3.
Peer Mohamed & Co.—3/287, Netaji Bose Road, Madras.
Poppat Jamal & Sons.—Broadway, Madras 1.
P. N. Balu Chetty & Sons.—238,239, Devraja Mudaly Street, Madras 3.
P. Thiruvarangiah & Sons.—172, Devaraja Mudali Street, Madras 3
Poppat Jamal & Sons.—Jamal Building, Madras 1.
R. Ethirajah & Sons.—103, Devaraja Mudali Street, Madras 3.
R. Ramanujiah & Sons.—191, Devaraja Mudali Street, Madras 3.
S. C. Shah.—9, Bunder Street, Madras.
S. Ibrahim & Co.—10, Jones Street, Madras
Spencer & Co., Ltd.—Mount Road, Madras 2.
Taylor, T. A., & Co. (Madras) Ltd.—100, Armenian Street, Madras 1.
William Jacks & Co., Ltd.—National Bank of India Bldg., First Line Beach, Madras 1.
Wilson & Co.—North Railway Terminus Road, Royapuram, Madras

GLUES AND ADHESIVES

Gordon Woodroffe & Co. (Madras) Ltd.—1/21, North Beach Road, Madras 1.
Imperial Chemical Industries (India) Ltd.—Springhaven Road, The Harbour, Madras 1.
Roberts McLean & Co., Ltd.—200, Mount Road, Madras 2.
Shaw Wallace & Co., Ltd.—8/9, Thambu Chetty Street, Madras 1.
Spencer & Co., Ltd.—Mount Road, Madras 2.

GRAPHITE AND GRAPHITE PRODUCTS

Amalgamations Private Ltd.—202, Mount Road, Madras 2.
Brady, W. H., & Co., Ltd.—154/155, Popham's, Broadway, Madras.
Gordon Woodroffe & Co. (Madras) Ltd.—1/21, North Beach Road, Madras 1.
Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras 1.
William Jacks & Co., Ltd.—National Bank of India Bldg., First Line Beach, Madras 1.

GUNNY AND GUNNY BAGS MERCHANTS

Dawood Trading Co.—109, Andippa Naik Street, Madras 1.
R. Kuppuswamy Chetty & Son.—17, Ramannan Road, Sowcarpet Post, G. T. Madras 1.
S. S. & M. Mayandi Nadar—110, Andippa Naicken Street, Madras 1.

HANDLOOM MERCHANTS

Abdul Cader & Co., B. N.—11, Arumuga Achari Street, Madras 5.
Abdul Rahim, M. S.—23, Pallappan Street, Triplicane, Madras 5
Abdul Razack Sahib & Co., K.—44, Angappa Naick Street, G. T. Madras 1.
Abumohamed Sahib & Bros., M. A. B.—70, Armenian Street, Madras 1.
Ahmed & Co., A. M.—255, Linghichetty Street, Madras 1.
Ahmed Ali & Co., J. H.—Pallivasal Moopan Street, Melapalaiyam, Tirunelveli Dist.
Ahmed Meeran & Sons, S. M.—383, Triplicane High Road, Madras 5.
Aiyasami Mudaliar, N. K.—7, South Mada Street, Mylapore, Madras 4.
Akbar & Co., S. M.—12, Surappa Mudali Street, Triplicane, Madras 5.
Amin & Co.—233, Angappa Naick Street, G. T. Madras 1.
Ana Cheena Knitting Works.—Devangapuram Street, Tirupur
Arthanari Mudaliar M. A.—Sivagiri Post, *via* Erode
Balakrishnan & Co., K. S. P.—38, Armenian Street, Madras 1
Basha & Co., S. M. H.—54, Moore Street, Madras 1
Beardsell & Co., (Private) Ltd., W. A.—Second Line Beach, P.B. No. 7, Madras 1.
Calanther Labbai & Bros., M. N. M. A.—2,35, Surappa Mudali Street, Triplicane, Madras 5.
Ceylon Lunghi House—58, Armenian Street, G. T. Madras 1
Chandrodhayam & Co.—41, Sankara Naidu Street, Cuddalore O. T.
City Palayakat Co.—25, Muthumari Chetty Street, Madras 1
Gemini Lunghi Co.—1,55, Ramasang Street, Madras 1.
Goldan Palayakat Co.—26, Coral Merchant Street, Madras 1.
Good Luck Palayakat Co.—43, Linghi Chetty Street, Madras 1.
Haji M. A. Shahul Hamud & Sons.—23, Pallappan Street, Madras 5.
Haji Syed Abdul Rahman Sahib & Co., S. M.—111, Moore Street, Madras 1
Hope Prudhonume & Co. Ltd.—271, Angappa Naick Street, Madras 1.
Imperial Palayakat.—8, Jayaram Chetty Street, Saidapet, Madras 15.
India Famous Pulicat Co.—29, Armenian Street, Madras 1.
Indo Lanka Traders—38, Linghi Chetty Street, Madras 1.
Janval Mohamed Abubacker & Bros.—Pallivasal Moopan Street, Melapalaiyam, Tirunelveli Dist.
Kaithari Lunghi Stores.—287, Thambu Chetty Street, Madras 1.
Madras Handloom Co.—94, Thambu Chetty Street, Madras 1.
Madras Palayakat Co. Ltd.—31, Armenian Street, G. T. Madras 1.
Madras Pulicat Textiles Co.—1 36, Venkatamalatry Street, Madras 1.
Malabar Handloom Textiles.—24, Godown Street, Madras 1
Mallah Chettiar & Sons, A. V.—5, Ramasamy Street, Mannady, Madras 1.
Meera Sahib & Co., S. M.—284, Linghichetty Street, Madras 1.
Modern Palayakat Co.—12, New Street, Madras 1.
Mohamed Aboobacker & Co.—95, Thambu Chetty Street, Madras 1.
Mohidun Pillai & Co., A. S. M.—402, Triplicane High Road, Madras 5.
Mohidun Sahib & Bros., S.—Kadayanallore, Tirunelveli Dist.
Moulana Co., (Private) Ltd.—52, Angappa Naick Street, Madras 1.
Oriental Lungi Co.—3, Arumuga Achari Street, Triplicane, Madras 5.
Overseas Trading Corporation.—94, Linghi Chetty Street, G. T. Madras 1.
Parvathi Palayakat Co.—110, Coral Merchant Street, G. T. Madras 1.
S. Govinda Swamy Chettiar & Co.—52, Ayyappa Chetty Street, Madras 1
S. B. S. Trading Co.—5, Ramanuja Iyer Street, Washermanpet, Madras 21
S. M. Syed Ali & Co.—35, Angappa Naick Street, Madras 1.
Saraswathi & Co.—148, Coral Merchant Street, Madras 1.
Saraswathi Weaving Factory.—3rd Street, Kumarapuri, Chennimalai Post, Ingur (S. Rly.)
Sellamuthu Sivanadhan & Co. Ltd.—224, Angappa Naick Street, Madras 1
Shunmuga & Co.—21, Kuthadum Pillayar Koil Street, Saidamet, Madras 15
Simmons & Co.—3, Somadundara Dever 6th Street, Ayanavdara Post, Madras 23.
Solai Ponnuranga Mudaliar.—10 B, Chinna Street, Tirunageswaram, Kumathur Post.
Sri Dhanalakshmi Cloth Stores.—Kumaran Road, Tirupur (Madras State)
Sri Krishna Palayakat Co.—109, Ekambaranathar Sannadhi Street, Big Conjeevaram.
Sriram Palayakat Co.—30, Sankara Naidu Street, Cuddalore O. T., S. A. District.
Superior Palayakat Co.—116, Ramasamy Street, Madras 1
Syed Ali & Co., S. M.—35, Angappa Naick Street, Madras 1.
Tirunageswaram Handloom Cloth Manufacturers' Association, 16, Chinna Street, Kumathur Post, *via* Poonamallee.
Tirupur Mercantile Corporation.—2 2, Ganganagar, Tirupur.
Tirupur Yarn & Handloom Cloth Merchants' Association.—Tirupur Post (Dist. Coimbatore).
Wasstamull Assomull & Co.—7, Mohamed Abdullah Street, Chepauk, Madras 5
Western Palayakat Co.—20 21, Ramasamy Street, G. T. Madras 1.
Yousuff Lunghi Co.—32, Jawahar Hussain Khan 1st Street, Royapettah, Madras 14.

HARDWARE DEALERS AND IRON MONGERS

A. Alimohamed & Co.—26, Linghi Chetty Street, Madras 1.
Abdool Hossain Jiwajee & Co.—21, Linghi Chetty Street, Madras 1.
Abdul Hussain Salebhoy & Co.—29, Periyanna Maistry Street, Madras 1.
A. K. Abdullabhoy & Co.—319, Linghi Chetty Street, Madras 1.
A. M. Goolamali & Co.—20, Erraballu Chetty Street, Madras 1.
Amin Chand Payarelal—27, Sembudoss Street, Madras 1.
A. Mohamed & Co.—313, Linghi Chetty Street, Madras 1.
A. T. Khorakiwalla & Co.—11, Vanlar Street, Madras 1.

Basheer Bros.—20, Venkatachalla Mudalai Street, Madras 3.
C. A. Gallakotwala & Co., Ltd.—18, Armenian Street, Madras 1.
Fakrudeen & Co.—307, Linghi Chetty Street, Madras 1.
G. D. Sekar & Co.—134, Mount Road, Madras 6.
Gillanders Arbuthnot & Co., Ltd.—First Line Beach, Madras 1.
Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras 1.
Guest, Keen, Williams, Ltd.—200, Mount Road, Madras 1.
Gulamali Abdul Hussain & Co.—28, Linghi Chetty Street, Madras 1.
Hassanally, A. M., & Co.—34, Linghi Chetty Street, Madras 1.
H. A. Taiyebali & Co.—294, Linghi Chetty Street, Madras 1.
India Co., Ltd.—108, Armenian Street, Madras 1.
Khanderia Ltd.—40, Mint Street, Madras 1.
K. K. Venkatachellam & Sons.—5/141, Mount Road, Madras 6.
K. N. Chari & Co.—144, Nyneappa Naick Street, Madras 3.
K. Thiruvengadam Chetty & Co.—93, Rasappa Chetty Street, Madras 1.
Mayuranatham & Co.—271, Rasappa Chetty Street, Madras 3.
M. C. Sundara Rajan & Co.—290, Linghi Chetty Street, Madras 1.
M. C. S. Rajan & Co.—155, Nyneappa Naick Street, Madras 3.
M. M. Abbas & Bros.—7, Sembudoss Street, Madras 1.
Murlimal Santram & Co.—13, Sembudoss Street, Madras 1.
Richardson & Cruddas Ltd.—First Line Beach, Madras 1.
S. Akbarali Haidarali & Co.—27, Linghi Chetty Street, Madras 1.
Saleh & Bros.—6, Sembudoss Street, Madras 1.
Spencer & Co.—Mount Road, Madras 2.
T. G. E., & Co.—8, A. V. Mudalai Street, Madras 1.
T. T. Yogappa Chetty & Sons.—116, Nyneappa Naick Street, Madras 3.
V. Kanakiah Chetty & Co.—148, Nyneappa Naick Street, Madras 3.
V. M. Periyaswami Chetty & Co.—399, Mint Street, Madras 1.
V. Venugopal Pillai & Co.—204, Mint Street, Madras 1.

HEARING AIDS

Electronic Service Company.—17-35, Mount Road, Madras 2.
Westrex Company India (Formerly Western Electric Co. of India).—Khaleel Mansions, 85, Mount Road, Madras 2.

HIDES AND SKIN MERCHANTS

A. Abdul Shukoor & Co.—8, Sydenhams Road, Madras 3.
A. T. B. Mehtab Majid & Co.—4, Ramapillai Street, Madras 3.
C. Kalyanam & Co.—2, Muthugramni Street, Madras 3.
C. L. Abdus Subhan & Co.—45, Vepery High Road, Madras 3.
E. K. Hajee Mohamed Meera Sahib & Sons—10, Vepery High Road, Madras 3.
E. K. Mohamed Abdul Sahib & Sons—18, Kumarappa Chetty Street, Madras 3.
F. K. Haseeb & Co.—40, Sydenhams Road, Madras 3.
G. Govindarajulu Naidu & Co.—2, Ramapillai Street, Madras 3.
G. Sreenivas & Co.—10, Sydenhams Road, Madras 3.
Habib & Co.—22, Sydenhams Road, Madras 3.
H. H. Naeems & Co.—9, Ramopillai Street, Madras 3.
K. O. Mohamed Sulaiman & Co.—11, Vepery High Road, Madras 3.
Kothwal Hajee A. R. Mohamed Obaidulla & Co.—5/6, Nabi Khan Subedar Street, Madras 3.
K. T. Basha Rasheed & Co.—18, Sydenhams Road, Madras 3.
Maija Hajee Ismail Sahib & Co.—15, V. V. Koil Street, Madras 3.
Merit, M. E. Ibrahim & Co.—12, Vepery High Road, Madras 3.
M. Hajee Mohamed Ismail Sahib & Co.—17, Sydenhams Road, Madras 3.
M. K. S. Mohamed Labbai & Co.—234, Angappa Naick Street, Madras 1.
M. L. Abdul Rasheed & Co.—12/A, Vepery High Road, Madras 3.
M. M. Mohiadeen Thumby & Co.—228, Angappa Naick Street, Madras 1.
Naivasal Mohamed Hussain Sahib & Co.—19, Sydenhams Road, Madras 3.
P. Krishnaswamy & Co.—17, Vepery High Road, Madras 3.
P. M. Batcha & Co.—Kumarappa Chetty Street, Madras 3.
S. K. Senjan Chettiar & Sons—34, V. V. Koil Street, Madras 3.
T. K. Fazal Habib & Co.—7B, Nabikhan Subedar Street, Madras 3.
V. Sreenivas & Co.—10, V. V. Koil Street, Madras 3.

HOSPITAL EQUIPMENT & SUPPLIES

ASSOCIATED ELECTRICAL INDUSTRIES (INDIA) PRIVATE LTD., 11/12, First Line Beach, Madras. (See Commercial firms in Madras).
Bombay Engineering Works.—8, Sunkurama Chetty Street, Madras 1.
Bombay Surgical Equipment Co.—8, Sunkurama Chetty Street, Madras 1.
East Asiatic Co. (India) Ltd.—Mercantile Bank Bldg., First Line Beach, Madras 1.
Gillanders Arbuthnot & Co., Ltd.—First Line Beach, Madras 1.
GODREJ, Godrej & Boyce Mfg. Co. Private Ltd.—177 & 179, Mount Road, Madras.
Philips Electrical Co. (India) Ltd.—Mount Road, Madras 2.
Pilkay's Medico Surgicals—199, Mount Road, Madras 2.
Spencer & Co., Ltd.—Mount Road, Madras 2.

HOTELS AND RESTAURANTS

Ambassador Hotel—151, Mount Road, Madras 2.
Ambis Cafe.—6, Broadway, Madras.
Buhari Hotels—3/17, Mount Road, Madras 2.
Connemara Hotel—Binny's Road, Mount Road, Madras 2.
Hotel Everest—Jaya Mansions, Poonamallee High Road, Madras 3.
Hotel India—39, Mount Road, Madras 6.
Hotel Oceanic.—Santhome High Road, Madras 28.
Hotel Select—9, Linghi Chetty Street, Madras 1.
Victoria Hotel—Egmore, Madras 8.

IMPORT AND EXPORT FIRMS (GENERAL)

A. Ahmed Mohideen.—98, Acharappan Street, Madras 1.
A. A. Rashud.—11-A, Sydenhams Road, Madras.
A. M. Ahmed & Co.—255, Thambi Chetty Street, Madras 1.
A. S. Mohideen Pillai & Co.—402, Triplicane High Road, Madras 5.
A. V. Malliah Chettiar & Son.—5, Ramasamy Street, Mannady, Madras 1.
Abdul Cader & Co., B. N.—11, Arumuga Achari Street, Triplicane, Madras 5.
Abdul Gaffeer & Co., M. H.—204, Angappa Naick Street, Madras 1.
Abdul Karim Noor Mohamed & Co.—22, Anderson Street, Madras 1.
Abdul Rahim, M. S.—23, Pallappan Street, Triplicane, Madras 5.
Abdul Subhan Sahib & Sons, N.—6, V. V. Koil Street, Periamet, Madras 3.
Abdul Waheed & Co., M. R.—26, V. V. Koil Street, Periamet, Madras 3.
Associated Agencies—35/37, Thambu Chetty Street, Madras 1.
Beardsell, W. A., & Co., Ltd.—Second Line Beach, Madras 1.
Bombay Co. Ltd.—169, Broadway, Madras 1.
Coromandell Corporation Ltd.—2, Armenian Street, Madras 1.
East Asiatic Co. (India) Ltd.—Mercantile Bank Bldg., First Line Beach, Madras 1.
East Coast Commercial Syndicate—99, Armenian Street, Madras 1.
Gillanders Arbuthnot & Co., Ltd.—First Line Beach, Madras 1.
G. K. R. Chetty & Co.—12, Thathamuthiappau Street, Madras 1.
Gorakhram Gokalchand.—1/18, Mount Road, Madras 2.
Gordon Woodroffe & Co. (Madras) Ltd.—1/21, North Beach Road, Madras 1.
J. Ramasek & Co.—100, Godown Street, Madras 1.
Lloyds Commercial Corp.—21/35, Mount Road, Madras 2.
Marshall Sons & Co. (India) Ltd.—Marshall Bldg., Second Line Beach, Madras 1.
McDowell & Co., Ltd.—Second Line Beach, Madras 1.
Murthy Raja Ltd.—9, Armenian Street, Madras 1.
Murugappa & Sons—Swastik House, Armenian Street, Madras 1.
Murugoppa Agencies Ltd.—106, Armenian Street, Madras 1.
P. Govindaraj & Sons Ltd.—330, Thambu Chetty Street, Madras 1.
Pooja Thakersee & Co.—75, Mint Street, Madras.
Rallis India Ltd.—Ralli House, 320, Linghi Chetty Street, Madras 1.
Sathi Potha Reddi & Co.—71, Big Street, Triplicane, Madras 5.
South Indian Export Co., Ltd.—5, Mclean Street, Madras 1.
Spencer & Co., Ltd.—Mount Road, Madras 2.
Taylor, T. A., & Co. (Madras) Ltd.—100, Armenian Street, Madras 1.
Traders House—1/A, Janakiran Pillai Street, Madras 17.
Vernon & Co., Ltd.—36, Second Line Beach, Madras 1.
William Jacks & Co., Ltd.—National Bank of India Bldg., First Line Beach, Madras 1.
Wilson & Co.—North Rly. Terminus, Royapuram, Madras.

INSULATORS AND INSULATION MATERIALS

Amalgamations Private Ltd.—202, Mount Road, Madras 1.
Associated Electrical Industries (India) Ltd.—11/12, First Line Beach, Madras 1.
British Insulated Callender's Cables Ltd.—37, Second Line Beach, Madras 1.
Easun Engineering Co., Ltd.—5/7, Second Line Beach, Madras 1.
General Electric Co. of India Ltd.—Magnet House, Mint Road, Madras 1.
Kilburn & Co., Ltd.—32/33, Linghi Chetty Street, Madras 1.
Larsen & Toubro Ltd.—4/5, Club House Road, Mount Road, Madras 1.

INSURANCE COMPANIES

All India General Insurance Co., Ltd.—29, Linghi Chetty Street, Madras 1.
Andhra Insurance Co., Ltd.—337, Thambu Chetty Street, Madras 1.
Bharat Insurance Co., Ltd.—Mount Road, Madras 2.
Bombay Fire & General Insurance Co., Ltd.—9, Sembudoss Street, Madras 1.
British India General Insurance Co., Ltd.—113, Armenian Street, Madras 1.
Caledonian Insurance Co., Ltd.—9, Sembudoss Street, Madras 1.
Crusader Insurance Co., Ltd.—29, Linghi Chetty Street, Madras 1.
East & West Insurance Co., Ltd.—329, Thambu Chetty Street, Madras 1.
Free India General Insurance Co., Ltd.—36, Erraballu Street, Madras 1.

General Assurance Society Ltd.—304/306, Thambu Chetty Street, Madras 1.
Great Pyramid Insurance Co., Ltd.—121, Armenian Street, Madras 1.
Hanover Fire Insurance Co.—7, Second Line Beach, Madras 1.
Hindustan General Insurance Society Ltd.—107, Armenian Street, Madras 1.
Indian Globe Insurance Co., Ltd.—310/11, Linghi Chetty Street, Madras 1.
Indian Mercantile Insurance Co., Ltd.—327, Thambu Chetty Street, Madras 1.
Indian Trade & General Insurance Co., Ltd.—11/12, First Line Beach, Madras 1.
Industrial & Prudential Assurance Co., Ltd.—10, Linghi Chetty Street, Madras 1.
Jupiter General Insurance Co., Ltd.—167, Broadway, Madras 1.
Kaiser-I-Hind Insurance Co., Ltd.—5, Thambu Chetty Street, Madras 1.
National Fire & General Insurance Co., Ltd.—362, Netaji Road, Madras 1.
National Insurance Co., Ltd.—362, Netaji Road, Madras 1.
New India Assurance Co., Ltd.—4/5, First Line Beach, Madras 1.
New Zealand Insurance Co., Ltd.—12, Angappa Naick Road, Madras 1.
Oriental Fire & General Insurance Co., Ltd.—Armenian Street, Madras 1.
Oriental Govt. Security Life Assurance Co., Ltd.—Armenian Street, Madras 1.
Pandyan Insurance Co., Ltd.—Catholic Centre, Armenian Street, Madras 1.
Prudential Assurance Co., Ltd.—First Line Beach, Madras 1.
Royal Insurance Co., Ltd.—5, Gopal Krishna Road, Madras 17.
Sterling General Insurance Co., Ltd.—10, Linghi Chetty Street, Madras 1.
Sun Life Assurance Co. of Canada—Catholic Centre, Armenian Street, Madras 1.
United India Fire & General Insurance Co., Ltd.—United India Life Building, Madras 1.
Vulcan Insurance Co., Ltd.—Indian Bank Bldgs, First Line Beach, Madras 1.

JEWELLERS, GOLD AND SILVERSMITHS

A. Kanniah Naidu—29, Netaji Bose Road, Madras 1.
A. Krishna Rao—103, Ekambareswarar Agrabaram, Madras.
Ambaji Rao & Sons—37, Netaji Bose Road, Madras 1.
A. N. Rajan—140, Brodies Road, T. Nagar, Madras.
A Venkatachalam Chetty & Bros.—229, Netaji Subhas Chandra Bose Road, Madras.
BAPALAL & COMPANY.—Leading Diamond Importers and Exporters; Dealers in and Exporters of Precious and Semi-precious stones & Pearls; Jewellers, Goldsmiths and Silversmiths, Ramakoti Bldg., Rattan Bazaar, Park Town, Madras 3. Phone: 2696. Grams: "NECKLACE".
B. P. Bhadariya—434, Mint Street, Madras 1.
B. Pattabhai Chetty & Brothers—34, Netaji Bose Road, Madras 1.
B Sundaram Chetty—35, Netaji Bose Road, Madras 1.
Burma Mogik Diamond Co.—238, Govindappa Naicken Street, Madras 1.
Chhotabhai & Company—191, Netaji Bose Road, Madras 1.
Chimanlal Kothari & Co.—191, Netaji Bose Road, Madras 1.
Davey Chimanlal & Co.—195, Netaji Bose Road, Madras 1.
D. Natarajan—12, Guruguraman Street, Madras.
D. R. Ranka Bros.—21, Arunachalamaicken Street, Chintadripet T. Nagar, Madras.
D. Subbiah Chetty—221, Netaji Bose Road, Madras 1.
Gandavadi Sreeramulu Chetty & Sons—184, Netaji Bose Road, Madras 1.
G. Krishniah Chetty & Sons—36, Netaji Bose Road, Madras 1.
G. Namberumal Chetty, S. R. Chakrapani Naidu & Co.—40, Netaji Bose Road, Madras 1.
Habeebeeya Gems Co.—12, Govindappa Naicken Street, Madras 1.
H. J. Jawaharlal Bros.—128, T. Nagar, Madras.
Jain Jewellery Co.—1, T. Nagar, Madras.
Jalagum Subramaniyan Naidu & Co.—222, Netaji Bose Road, Madras 1.
Jayantilal Mangalji & Co.—175, Netaji Bose Road, Madras 1.
Jerwan Brothers—204, Netaji Bose Road, Madras 1.
Kanailal Ishwarlal & Co.—235, Govindappa Naicken Street, Madras 1.
Karamchand Chabildas & Sons—175, Netaji Bose Road, Madras 1.
K. A. Srikandam Chetty—187, Netaji Bose Road, Madras 1.
K. Chenchurama Chetty—30, Netaji Bose Road, Madras 1.
Khader Bhaig Sahib & Sons—205, Netaji Bose Road, Madras 1.
Khengar Veecumsee—170, Netaji Bose Road, Madras 1.
K. M. Chokanatham Chetty—221, Netaji Bose Road, Madras.
K. Kuppuswamy Naidu—57, Netaji Bose Road, Madras 1.
Kota Alwar Chetty & Sons—11, Govindappa Naicken Street, Madras 1.
Krishna Jewellery & Co.—221, Netaji Bose Road, Madras 1.
K. Radhakrishna Chetty G. Soorappa Chetty & Co.—199, Netaji Bose Road, Madras 1.
Manilal & Sons—172, Netaji Bose Road, Madras 1.
M. Devarajulu Naidu—39, Netaji Bose Road, Madras 1.
M. K. Shah—4, Ekambareswarar Agrabaram, Madras.
M. Narasimhalu Chetty—42, Narayan Mudaly Street, Madras 1.
Motilal Bapaa—220, Netaji Bose Road, Madras 1.
M. Padmanabham Chetty—200, Netaji Bose Road, Madras 1.
M. Radhakrishna Chetty—215, Netaji Bose Road, Madras 1.
M. Subramaniyam Mudaliar—58, Netaji Bose Road, Madras 1.
M. V. Rangam Chetty—29, Netaji Bose Road, Madras 1.
Nalam Venkata Krishnama Chetty—36, Netaji Bose Road, Madras 1.
Nama Chennakesavelu Chetty—32, Netaji Bose Road, Madras 1.
Nama Jayarama Chetty & Sons—29, Netaji Bose Road, Madras 1.
Nama Subbiah Chetty & Sons—219, Netaji Bose Road, Madras 1.
Nathella Sampathu Chetty & Son—177, Netaji Bose Road, Madras 1.
Netha Subramaniyam Chetty—219, Netaji Bose Road, Madras 1.
N. Sampathu Chetty Anantham Chetty—29, Netaji Bose Road, Madras 1.
Pasumarthy Cunniah Chetty & Sons—218, Netaji Bose Road, Madras 1.
P. Gopalakrishniah—79, Netaji Bose Road, Madras 1.
Phusaram Munthada—94, Mint Street, Madras 1.
P. K. Sundaram Pillai—66, Netaji Bose Road, Madras 1.
P. L. Narasimhalu Chetty—29, Netaji Bose Road, Madras 1.
P. Mallikarjuna Chetty—219, Netaji Bose Road, Madras 1.
P. M. Loganatham Chettiar—196, Netaji Bose Road, Madras 1.
Prabhu Gems Co.—2, Govindappa Naiken Street, Madras 1.
P. Ranganathan Naidu—78, Netaji Bose Road, Madras 1.
Rajarathanam Chetty, T.—32, Netaji Bose Road, Madras 1.
Rangoon Diamond Traders—74, Netaji Bose Road, Madras.
Rathanlal Chandick & Co.—32, Netaji Bose Road, Madras 1.
S. Ganesh & Brothers—87, Netaji Bose Road, Madras 1.
Shivraj Nimani—175, Netaji Bose Road, Madras 1.
S. Swaminatha Iyer & Sons—111, Netaji Bose Road, Madras 1.
Surajmal's—313, Esplanade, Madras. Phone: 2250.
T. A. Ponnuswamy Nayagar—90, Mint Street, Madras 1.
T. Baghchand Gallada—4, Nageswara Road, T. Nagar, Madras.
T Govindarajulu Naidu—28, Netaji Bose Road, Madras 1.
T. Manickam Chetty Son—6, Govindappa Naicken Street, Madras 1.
T. Nannu Shanker Tawker—192, Netaji Bose Road, Madras 1.
T. P. Rajamanickam Mudaliar—55, Netaji Bose Road, Madras 1.
T Rangaswamy Iyengar—9, Rajabatharundaly Street, T. Nagar, Madras.
T. Srinivasulu Chetty & Brothers—196, Netaji Bose Road, Madras 1.
Vattam Seshiah Chetty & Sons—22, Netaji Bose Road, Madras 1.
V. Chengelvoraya Chetty & Sons—30,32, Netaji Bose Road, Madras 1.
Vema Ramachandran—221, Netaji Bose Road, Madras 1.
V. Jayanama Chetty P. Radhakrishna Chetty & Co.—215, Netaji Bose Road, Madras 1.
V. Subramaniyam Chetty N. Laksmiah Chetty—103, Perumal Mudaly Street, Madras 1.
V. T. Munuswami Naidu & Co.—102, Mint Street, Madras 1.
Vummidi Bangaru Chetty & Sons—226, Govindappa Naicken Street, Madras 1.
Vummidi Ramiah Chetty Guruswamy Chetty & Co.—24/25, Netaji Bose Road, Madras 1.
Y. Ballah Chetty—67, Netaji Bose Road, Madras 1.

KIRANA MERCHANTS

Abdul Kareem Noor Mohamed & Co.—22, Anderson Street, Madras.
B Venkatasubbiah Chetty & Bror.—14, Chinna Thambi Mudali St., Madras 1.
Baboothmall Rikhabdas—181, Govindappa Naick St., Madras.
Bangaru Chetty & Co., C.S.—30 Narayana Mudali St, Madras.
Baraj Bros.—27, Govindappa Naick St., Madras.
Bhiwandiwalla & Co., (Bombay) Ltd., A.H.—45, Anderson Street, Madras.
Bombay Malayan Traders—38, Narayana Mudali St., Madras.
Bombay Metal Depot—112, Mint Street, Madras.
Calcutta Metal Mart—140, Mint Street, Madras.
Chimanlal Kothari & Co.—191, Netaji Subhas Chandra Bose Road, Madras.
Dadha & Co.—86, Nyulappa Naick St., Madras.
Dalooram Jayanarayan—32, Perumal Mudali St., Madras.
Dayaram Kanji & Co.—79, Netaji Subhas Chandra Bose Road, Madras.
Dhulajee Kushaljee & Co.—34, Perumal Mudali St., Madras.
Dwarakadas & Co.—5, Anderson Street, Madras.
Gomraj Fatalchand.—190, Govindappa Naick St., Madras.
Gopaljee & Co.—203, Govindappa Naick St., Madras.
Gopalji Shampshi & Co.—30, Govindappa Naick St., Madras.
Harakchand Roopchand—28, Govindappa Naick St., Madras.
Heeraji Vaulchand—103, Narayana Mudali St., Madras.
Hindumal Dalichand—180, Govindappa Naick St., Madras.
Indo Malayan Trading Co.—125, Andiappa Naick St., Madras.
Jain & Sons, R.S.—4, Govindappa Naick St., Madras.
Japee & Co., P.K.—99, Mint Street, Madras.
Jetmall Sukanraj—198, Govindappa Naick St., Madras.
Juharmall & Sons—214, Netaji Subhas Chandra Bose Road, Madras.
K. Raman & Co., (1916).—226, Poonamalli High Road, P.T. Madras.
Kanniram & Sons—96, Mint Street, Madras.
Kottiah Chetty & Co., C.P.V.—9, Andiappa Naick St., Madras.
Laljee Godhoo & Co.—8, Perumal Mudali St., Madras.

Mangalji & Co.—2, Hanumantharayan Koil St., Madras 3.
Maulilal & Sons—172, Netaji Subhas Chandra Bose Road, Madras.
Mazda India Agencies—Indian Chamber Bldgs., Esplanade, Madras 1.
Misrimall Jewanthraj & Co.—53, Govindappa Naick St., Madras 1.
Mohanlal Uthamchand—61, Narayana Mudali St., Madras.
Moti & Co.—134,135, Mint Street, Madras.
Motichand Tarachand—186, Govindappa Naick St., Madras.
Muniswamappa & Son, T.N,—183, Anna Pillai St., Madras.
Muthiyala Subbarangiah Chetty—113, Andiappa Naick St., Madras.
Nainmall Mittalal—2,202, Govindappa Naick St., Madras.
Nainmall Umaji & Co.—393, Mint St., Madras.
Nathella Sambathu Chetty & Sons—177, Netaji Subhas Chandra Bose Road, Madras.
Noor Glass & Silicate Industries—22, Anderson Street, Madras 1.
Penukonda Narayana Chetty & Co.—94, Varadha Muthiappan St., Madras 1.
Periasamy Chetty & Co., V.M.—399, Mint Street, Madras.
Ramesh & Co.—139, Mint Street, Madras.
Rashiklal & Co.—234, Govindappa Naick St., Madras.
Roopchand Chabildass & Sons—31, Govindappa Naick St., Madras.
S. S. Mehta & Co.—194, Govindappa Naick St., Madras 1.
Sagarmall Mohanlal—2 202, Govindappa Naick St., Madras.
Sahuwala Bros. & Co.—38, Sirotten Muthia Mudali St., Madras.
Samy & Co., P.—80, Govindappa Naick St., Madras.
Sangvi Dhanelal Manchalal—189, Govindappa Naick St., Madras.
Seshmall Bhawarlal—42, Sirotten Muthia Mudali St., Madras.
Sha Chunilal Shantilal—60, Govindappa Naick St., Madras 1
Sha Roopaji Bhawarlal—189, Govindappa Naick St., Madras.
South India Trading Co.—205, Govindappa Naick Street, Madras.
Subramanian Chetty, S.—17, Andiappa Naick St., Madras.
Sun Shine Co.—26, Govindappa Naick Street, Madras 1
Suryanarayana Chetty & Co., G.—65, Govindappa Naick St., Madras 1.
Tejmall Mongilal Bhandari—196, Govindappa Naick St., Madras.
Tilockchand Walaji—21, Andiappa Naick St., Madras.
Umaji Shankerlal—177, Govindappa Naick St., Madras.
Vannichand Fouzmall—199, Govindappa Naick St., Madras.
Varjiwandas Hirjee & Co.—194, Govindappa Naick St., Madras.
Vishweswerdass Gokuldass—112, Mint Street, Madras
Yellamanda Chetty P. Venkatasubbiah Chetty & Co.—51, Govindappa Naick St., Madras 1.

LIBRARY STACKS

Godrej, Godrej & Boyce Mfg. Co., Private Ltd.—177 & 179, Mount Road, Madras.

LIGHTING FITTINGS

ASSOCIATED ELECTRICAL INDUSTRIES (INDIA) PRIVATE LTD., 11 12, First Line Beach, Madras. (See Commercial firms in Madras).

LOCK & SAFE MERCHANTS

Godrej, Godrej & Boyce Mfg. Co., Private Ltd.—177 & 179, Mount Road, Madras.

LOOMS (AUTOMATIC)

Brady, W. H., & Co., Ltd.—154/155, Pophams, Broadway, Madras 1.
Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras 1.
Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras 1.
Voltas Limited—115/116, Armenian Street, Madras 1.

LUBRICATING OILS AND GREASES

Amalgamations Private Ltd.—202, Mount Road, Madras 2.
Bombay Co., Ltd.—169, Broadway, Madras 1.
Burmah-Shell Oil Storage & Distributing Co. of India Ltd.—Burmah-Shell House, Esplanade, Madras 1.
Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras 1.
Kilburn & Co., Ltd.—32/33, Linghi Chetty Street, Madras 1.
Standard-Vacuum Oil Co. Ltd.—United India Bldg., Esplanade, Madras 1.
William Jacks & Co., Ltd.—National Bank of India Bldg., First Line Beach, Madras 1.

MACHINERY IMPORTERS AND MFRS.

Bombay Co., Ltd.—169, Broadway, Madras 1.
Brady, W. H., & Co., Ltd.—154/155, Pophams, Broadway, Madras 1.
EAST ASIATIC COMPANY (INDIA) PRIVATE LTD., THE.—Machine & Engineering Dept., Bharat Bldg., Mount Road, Madras 2; Phone: 86021,2; Grams: "MANDARIN"; P.O. Box No. 148.
Kasun Engineering Co., Ltd.—5/7, Second Line Beach, Madras 1.
General Electric Co. of India Ltd.—Magnet House, Mount Road, Madras 2.
Gordon Woodroffe & Co. (Madras) Ltd.—1/21, North Beach Road, Madras 1.
Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras 1.
Guest, Keen, Williams, Ltd.—202, Mount Road, Madras 2.
Heatly & Gresham Ltd.—United India Bldg., Esplanade, Madras 1.
Indian Oxygen & Acetylene Co., Ltd.—(Absorbent Cotton Machines), 7/A, Vaithianatha Mudali Street, Tondiarpet, Madras 21.
Industrial Stores Company, The.—2, Errabalu Chetty Street, Madras 1.
Kilburn & Co., Ltd.—32/33, Linghi Chetty Street, Madras 1.
Kothandaraman, K. R., & Co.—13-B, Second Line Beach, Madras 1.
Larsen & Toubro Ltd.—4/5, Club House Road, Mount Road, Madras 2.
Marshall Sons & Co. (India) Ltd.—Marshall Bldg., Second Line Beach, Madras 1.
Masseys Engineers—4B/4C, North Rly. Terminus Road, Royapuram, Madras 13.
National Engineering Co. (Madras) Ltd., The.—379, Netaji Subhas Chandra Bose Road, Madras 1.
Rallis India Ltd.—Ralli House, 320, Linghi Chetty Street, Madras 1.
South India Export Co., Ltd.—5, Mclean Street, Madras.
Taylor, T. A., & Co. (Madras) Ltd.—100, Armenian Street, Madras 1.
Voltas Limited—115/116, Armenian Street, Madras 1.
William Jacks & Co., Ltd.—National Bank of India Bldg., First Line Beach, Madras 1.
Wilson & Co.—North Rly. Terminus Road, Royapuram, Madras 3.

MATERIAL HANDLING AND CONVEYORS

Amalgamations Private Ltd.—202, Mount Road, Madras 2.
Brady, W. H., & Co., Ltd.—154/155, Pophams, Broadway, Madras 1
British Insulated Callender's Cables Ltd.—37, Second Line Beach, Madras 1.
General Electric Co. of India Ltd.—Magnet House, Mount Road, Madras 2.
Heatly & Gresham Ltd.—United India Building, Esplanade, Madras 1
Kilburn & Co., Ltd.—32/33, Linghi Chetty Street, Madras 1.
Larsen & Toubro Ltd.—4/5, Club House Road, Mount Road, Madras 2
Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras 1.
Parry & Co., Ltd.—"Dare House", First Line Beach, Madras 1
Richardson & Cruddas Ltd.—First Line Beach, Madras 1
William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.
Wilson & Co.—North Railway Terminus Road, Royapuram, Madras

METALS (BRASS, IRON AND STEEL)

Best & Co., Ltd.—First Line Beach, Madras 1.
Binny & Co. (Madras) Ltd.—7, Armenian Street, Madras 1
Bombay Co., Ltd.—169, Broadway, Madras 1.
Gordon Woodroffe & Co. (Madras), Ltd.—1,21, North Beach Road, Madras 1.
Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras 1
Guest, Keen, Williams, Ltd.—202, Mount Road, Madras 2
Heatly & Gresham Ltd.—United India Life Building, Esplanade, Madras 1.
McDowell & Co., Ltd – Second Line Beach, Madras 1
Parry & Co., Ltd.—"Dare House", First Line Beach, Madras 1
Richardson & Cruddas Ltd.—First Line Beach, Madras 1
Roberts Mclean & Co., Ltd.—200, Mount Road, Madras 2.
South India Export Co., Ltd.—5, Mclean Street, Madras 1.
Vernon & Co., Ltd.—36, Second Line Beach, Madras 1
William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

MILL & GIN STORE SUPPLIERS

Best & Co. Ltd.—First Line Beach, Madras 1.
Brady, W. H., & Co., Ltd.—154/155, Pophams, Broadway, Madras 1.
Grahams Trading Co. (India) Ltd.—311, Linghi Chetty Street, Madras 1.
Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras 1.
Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras 1.
Mill Stores Limited—24, Errabalu Chetty Street, Madras 1.
Roberts Mclean & Co., Ltd.—200, Mount Road, Madras 2.
Voltas Limited—115/116, Armenian Street, Madras 1.
William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

MINERALS AND MINERAL ORES

Best & Co., Ltd.—First Line Beach, Madras 1.
Chambers K. H. Ltd.—Lecots Building, Madras 1.
East Asiatic Co. (India) Ltd.—Mercantile Bank Building, First Line Beach, Madras 1.
Grahams Trading Co. (India) Ltd.—311, Linghi Chetty Street, Madras 1.
Murugappa Agencies Ltd.—106, Armenian Street, Madras 1.
Murugappa & Sons—Swastik House, Armenian Street, Madras 1.

MOTION PICTURES DISTRIBUTORS

All India Film Corpn. Ltd.—1/155, Mount Road, Madras 2.
A. V. M. Ltd.—2/159, Mount Road, Madras 2.
Calcutta Film Exchange—7, Francis Joseph Street, Madras 1.
Chamria Talkie Distributors—General Patters Road, Madras 2.

Devi Films Ltd.—498, Mint Street, Madras 3.
Evergreen (Bangalore) Ltd.—175/177, Mount Road, Madras 2.
Famous Films Ltd.—18, Mount Road, Madras 2.
Gemini Pictures Circuit Ltd.—151, Mount Road, Madras 2.
General Film Distributing Co.—9, Mount Road, Madras 2.
Geo Pictures—17-A, Damodara Avenue Road, Madras 10.
Goodwill Pictures—35, Mount Road, Madras 2.
M. A. Ethrajalu Naidu—2, 3, Athipatan Street, Madras 2.
Poorna Pictures Ltd.—5, Ramaswamy Iyer Street, Gopalapuram, Madras 14.
Rajashri Pictures Ltd.—1/155, Mount Road, Madras 2.
R. A. Sundaram Chettiar—2/3, Athipatan Street, Madras 2.
T. S. Muthuswamy—23/28, Luz Church Road, Madras 4.
Vel Murugan Film Service—98, Broadway, Madras 1.

MOTION PICTURE PRODUCERS

Allied Photographics Ltd.—16, Armenian Street, Madras 1.
Anjali Pictures—2, Cenotaph Road, 1st Street, Madras 18.
Aruna Films Ltd.—7, Dr. Thomas Road, Madras 17.
Asok Pictures—18, Luz Avenue, Madras 4.
A. V. M. Studios—Arcot Road, Madras 26.
Bharani Pictures—11, Vaidyaram Iyer Street, Madras 17.
Eneskay Films—6, Venkataramier Street, Madras 17.
Gramophone Co.—122, Mount Road, Madras 2.
International Talkie Equipment Co., Ltd.—Bharat Bldg., Madras 2
Jamlen Productions—3/4, Eldams Road, Madras 4.
Jupiter Pictures—C/o Neptune Studios Ltd., Greenways Road, Madras 20.
Kodak Ltd.—2/155, Mount Road, Madras 2.
Madras Art Productions—4, Masilamani Street, Madras 4.
Mohini Pictures—113, Kodambakam High Road, Madras 6
Narasu Pictures—Circuit, Guindy, Madras 15.
National Pictures—7, Nayanlappan Street, Madras 1.
Patel India Ltd.—7/90, Wallajah Road, Madras 2
Photophone Equipments Ltd.—18, Mount Road, Madras 2.
Prakash Productions—Arcot Road, Madras 26.
Prasad Art Pictures Ltd.—109, G. Nagar, Madras 20
Sudhana Pictures—32, Sarangapani Street, Madras 7
Sivamala Pictures Ltd.—32, Audippa Mudali Street Madras 7.
Sri Rajarajeswari Film Co.—4-A, Venkatanarayana Road, Madras 17.
S. S. Vasan—Gemini Studios, Madras 6.
Vijaya Productions—Arcot Road, Madras 26
Westrex Co., India—35, Mount Road, Madras 2.

NEEDLES

Brady W. H., & Co., Ltd.—154,155, Pophams, Broadway, Madras 1.
Central Agency, Ltd.—19, Vaniar Street, Madras 1.
McDowell & Co., Ltd.—Second Line Beach, Madras 1.
Spencer & Co., Ltd.—Mount Road, Madras 2.

NEWSPAPER PUBLISHERS

"The Hindu"—Kasturi Building, Mount Road, Madras 2.
"The Indian Express"—Mount Road, Madras 2.
"The Mail"—Mount Road, Madras 2.

NON-FERROUS METALWARE MFRS. & IMPORTERS

Best & Co., Ltd.—First Line Beach, Madras 1
Bombay Co., Ltd.—169, Broadway, Madras 1.
East Asiatic Co. (India) Ltd.—Mercantile Bank Building, First Line Beach, Madras 1.
Gillander's Arbuthnot & Co., Ltd.—First Line Beach, Madras 1.
Grahams Trading Co. (India) Ltd.—311, Linghi Chetty Street, Madras 1.
Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras 1.
Heatly & Gresham Ltd.—United India Building, Esplanade, Madras 1.
Imperial Chemical Industries (India) Ltd.—Springhaven Road, "The Harbour", Madras 1.
M. V. P. Sastri—323, Linghi Chetty Street, Madras 1.
Vernon & Co., Ltd.—36, Second Line Beach, Madras 1.
William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

OFFICE EQUIPMENT

GODREJ, Godrej & Boyce Mfg. Co., Private Ltd.—177 & 179, Mount Road, Madras.

OIL AND OILSEEDS (EXPORTERS)

Beardsell, W. A., & Co., Ltd.—Second Line Beach, Madras 1.
Coromandel Produce Corpn.—17/337, Thambu Chetty Street, Madras 1.
East Asiatic Co. (India) Ltd.—Mercantile Bank Building, First Line Beach, Madras 1.
Hind Mercantile Corporation Ltd.—308/309, Linghi Chetty Street, Madras 1.
Ivs Venkatramnayya Chetty & Co.—46, Kandappa Chetty Street, Madras 1.
Louis Dreyfus & Co., Ltd.—99, Armenian Street, Madras 1.
McDowell & Co., Ltd.—Second Line Beach, Madras 1.
Murugappa & Sons—Swastik House, Armenian Street, Madras 1.
P. A. Narasimulu Reddy—58, Wallax Road, Madras 3.
Rallis India Ltd.—Ralli House, 320, Linghi Chetty Street, Madras 1.
Spencer & Co., Ltd.—Mount Road, Madras 2.
Wilson & Co.—North Railway Terminus Road, Royapuram, Madras.

OIL MILLS

Abbu Chetty Oil Mills—81, Peramur Barracks Road, Vepery, Madras 7.
Associated Agencies, The—271, Linghi Chetty St., Madras 1.
Associated Oil Corporation—118, Armenian St., Madras 1
Beard-Sell & Co. Ltd., W.A.—Second Line Beach Madras 1
Bhawanidass Khanderia, Mani Mandir, 8, Pachappa's Hostel Road, Chetpet, Madras 10
Bombay Malayan Traders, The—38 Narayana Mudali St., Madras 1
Coromandel Corporation Ltd., The—6 Armenian St., Madras 1
Chandrakant Co. Ltd.—36, Kandappa Chetty Street, G. T. Madras
East Asiatic Co. (India) Private Ltd.—First Line Beach Madras 1
Hind Mercantile Corporation Ltd.—308-309, Linghi Chetty St., Madras 1.
Hindustan Products—373-375 Esplanade Madras 1
Kilachand Devchand & Co. Ltd.—310-311, Linghi Chetty St., Madras 1.
Kotak & Co.—2-25, Perumal Mudali St., Sowcarpet, Madras
Madras Oil Mills & Products The—165, Lloyds Road Madras 14
Madras Vanaspathi Ltd., The—331-333 Thambu Chetty St., Madras 1.
Mahalakshmi Oil Mills—Wall Tax Road, Madras 1
Muthu Oil Mills & Flour Mills—Kodambakkam, Madras.
Mogili Oil Mills—15-3 Chinnathambi Mudali St., Madras.
Mysore Vegetable Oil Mills Ltd.—Madras
Novatia Ltd.—98 Andhappa Naicken St. Madras 1
Oil Seeds Trading Co. Ltd. The—2-32 Annapillai St. G. T. Madras 1.
Oomedchand Kashuram & Co.—2-32 Annapillai St. G. T. Madras
Premier Suppliers Ltd.—9 Stringer Street Madras 1.
Rallis India Ltd.—320 Linghi Chetty St. Madras 1.
Ramson Exports (India) Ltd.—226 Poonamallee High Road Madras
Satyanarayan Oil Mills Private Ltd.—4-13 Adam St., Royapuram, Madras
South India Mercantile Ltd.—6 Linghi Chetty Street Madras
Spencer & Co. Ltd.—1-153 Mount Road Madras
Sundaram Oil Mills Private Ltd.—Linghi Chetty St. Madras 1.
Swastik Oil Mills Private Ltd.—Stringer St. Madras 1
Swami Oil Mills—72 Kandappa Chetty St. Madras
Vijaya Chemicals & Feulet Works—Madras
Yadalam & Co.—1 Thatham Thappan Street Madras 1

OPTICIANS

Adair Dutt & Co.—1/29, Mount Road, Madras 2
Barnes S.—197, Mount Road, Madras 2
Brown & Co.—18 C, Broadway, Madras 1.
Chari & Co., M. A.—Broadway, Madras 1.
Colvin & Co.—Mount Road, Madras
Davey & Sons—S.U.S., 4/20, Broadway, Madras 1.
Davey Brothers—Broadway, Madras 1.
Devchand C. K.—4, Broadway, Madras 1.
Indra & Co., J.—Madras.
Joy Brothers—Mount Road, Madras 2.
Kuppuswami N.—Esplanade, Madras 1.
Manilal M. Mehta—8, Broadway, Madras 1.
Mehta Optical Co.—Madras.
Modi & Jones—Purasawalkam, Madras.
Murch & Seymour—Marshalls Road, Egmore, Madras.
P. B. Shah & Co., Ltd.—295, Linghi Chetty Street, Madras 1.
Pragwat & Co.—Broadway, Madras 1.
Radha Brothers—174, Broadway, Madras 1
Raj & Co.—Mint Street, Madras.
Ramakrishna Bros.—Esplanade, Madras 1.
Ranga & Co., G. N.—Esplanade, Madras 1.
Ratna & Co., K.—Esplanade, Madras 1.
Raval & Co.—Chinabazar Road, Madras.
Turkia Optical Co.—1/173, Broadway, Madras 1.
Vasudevan C. G.—Mount Road, Madras.
White Brothers—3/173, Broadway, Madras 1.
Wicken & Co.—Broadway, Madras 1.
Windsor & Co.—Broadway, Madras 1.

PACKING AND JOINTING

Amalgamations Private Ltd.—202, Mount Road, Madras 2.
Best & Co., Ltd.—First Line Beach, Madras 1.
Bombay Co., Ltd.—169, Broadway, Madras.
Brady, W. H., & Co., Ltd.—154/155, Pophams, Broadway, Madras 1.
British Insulated Callender's Cables Ltd.—37, Second Line Beach, Madras 1.
Gordon Woodroffe & Co. (Madras) Ltd.—1/21, North Beach Road, Madras 1.
Kilburn & Co., Ltd.—32/33, Linghi Chetty Street, Madras 1.
Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras 1
Richardson & Cruddas Ltd.—First Line Beach, Madras 1.

Roberts Mclean & Co., Ltd.—260, Mount Road, Madras 2.
William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.
Wilson & Co.—North Railway Terminus Road, Royapuram, Madras.

PAINT BRUSHES

Amalgamations Private Ltd.—202, Mount Road, Madras 2.
Bombay Co., Ltd.—169. Broadway, Madras 1.
Gillander's Arbuthnot & Co., Ltd.—First Line Beach, Madras 1.
McDowell & Co., Ltd.—Second Line Beach, Madras 1.
Spencer & Co., Ltd.—Mount Road, Madras 2.
Taylor, T. A., & Co. (Madras) Ltd.—100, Armenian Street, Madras 1.
Wilson & Co.—North Railway Terminus Road, Royapuram, Madras.

PAINTS, ENAMELS AND VARNISHES, ETC.

A. Bashyam & Co.—11, Venkatachala Mudali Street, Madras 3.
Addisons Paints & Chemicals Private Ltd.—Semblaim, Madras 11.
Amalgamations Private Ltd.—202, Mount Road, Madras 2.
Best & Co., Ltd.—First Line Beach, Madras 1.
Binny & Co. (Madras) Ltd.—7, Armenian Street, Madras 1.
Bombay Co., Ltd.—169, Broadway, Madras 1.
G. D. Sekar & Co.—134, Mount Road, Madras 6.
Gillander's Arbuthnot & Co , Ltd —First Line Beach, Madras 1.
Gordon Woodroffe & Co. (Madras) Ltd.—1 21, North Beach Road, Madras 1.
Imperial Chemical Industries (India) Ltd.—Springhaven Road, "The Harbour", Madras 1.
K. K. Venkatachellam & Sons.—5 141, Mount Road, Madras 6.
McDowell & Co., Ltd.— Second Line Beach, Madras 1.
Parry & Co., Ltd.—Dare House, First Line Beach, Madras 1.
P. R. Pillai & Co.—36, Venkatachala Mudali Street, Madras 3.
Shalimar Paint, Colour & Varnish Co , Ltd.— 8,9, Thambu Chetty Street, Madras 1.
Shaw Wallace & Co., Ltd —8 9, Thambu Chetty Street, Madras 1.
S. Kuppuswami & Co.—15, Venkatachala Mudali Street, Madras 3.
South Indian Export Co , Ltd.—5, Mclean Street, Madras 1.
Spencer & Co., Ltd.—Mount Road, Madras 2.
Taylor, T. A., & Co. (Madras) Ltd.—100, Armenian Street, Madras 1.
Vernon & Co., Ltd.—36, Second Line Beach, Madras 1.
V. Raghavulu Chetty & Son—13, Venkatachala Mudali Street, Madras 3.
William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.
Wilson & Co.—North Railway Terminus Road, Royapuram, Madras.

PAPER (IMPORTERS)

Beardsell, W. A., & Co., Ltd.—Second Line Beach, Madras 1.
Binny & Co. (Madras) Ltd —7, Armenian Street, Madras 1.
Bombay Co , Ltd.—169. Broadway, Madras 1.
Charles Morgan & Co , Ltd.—314 315, Linghi Chetty Street, Madras 1.
Gillander's Arbuthnot & Co., Ltd.—First Line Beach, Madras 1.
Grahams Trading Co. (India) Ltd.—311, Linghi Chetty Street, Madras 1.
Heatly & Gresham Ltd.—United India Building, Esplanade, Madras 1.
McDowell & Co., Ltd.—Second Line Beach, Madras 1.
South India Export Co. (Madras) Ltd.—5, Mclean Street, Madras 1.
Taylor, T. A., & Co. (Madras) Ltd.—100, Armenian Street, Madras 1.
Vernon & Co., Ltd.—36, Second Line Beach, Madras 1.
Wilson & Co.—North Railway Terminus Road, Royapuram, Madras.

PAPER MERCHANTS

Burma Paper Stores—6, Sunkurama Chetty Street, Madras 1.
Chellavaranga Mudaliar & Sons, T.— 289, Stringers Street, Madras 1.
C. Sanjeevi Shetty & Co.—56, Bunder Street, Madras 1.
Gillander's Arbuthnot & Co., Ltd.—First Line Beach, Madras 1.
Husson Ali & Sons, M.—50, Bunder Street, Madras 1.
JAI DAYAL KAPUR & SONS PRIVATE LTD.—2, Anderson Street, Madras; Phone : 2338; Grams : "JAIKAPSO "; Paper Merchants; Head Office, Delhi; Branches : Bombay, Lucknow, Kanpur, Amritsar.
J. B. Advani & Co.—Loane Square, Broadway, Madras 1.
Jeyam & Co.—43/44, Anderson Street, Madras 1.
K. A. Seshadri Iyengar—9, Venkatachala Mudali Street, Madras 3.
Kumber Ali & Bros., M.—1-D, Anderson Street, Madras 1.
Kuppiah Chetty & Co., M. V.—5, Bunder Street, Madras 1.
M. Krishnamachari—62, Badrian Street, G.T., Madras 1.
Morgan & Co., Ltd., Charles—314/315, Linghi Chetty Street, Madras 1.
M. S. Maniam & Co.—Malaiperumal Street, Madras 1.
Musa Sons Ltd.—2/23, Bunder Street, Madras 1.
Nanjappa Chetty & Sons, P.S.—2/34, Mint Street, Madras 3.
Panmul Sowcar, S.O.—121, Mint Street, Madras 1.
Premier Suppliers Ltd.—105, Netaji Road, Madras 1.
Radhakrishna & Co., M. B.—12/285, Malayaperumal Street, Madras 1.
Sai Traders—49, Badrian Street, Madras 1.
Sayee Co.—6, Bunder Street, Madras 1.
Sri Meenakshi Paper Co.—48, Badrian Street, Madras 1.
Star Trading Co.—58, Anderson Street, Madras 1.
Subramaniam Bros.—99, Armenian Street, Madras 1.
T. H. Gangappa & Sons—71, G. A. Road, Madras 21.
V. Rajagopalan—8, Theagaraya Road, Madras 17.

PAPER (WATERPROOF)

Beardsell, W. A. & Co., Ltd.—Second Line Beach, Madras 1.
Best & Co., Ltd.— First Line Beach, Madras 1.
Charles Morgan & Co., Ltd.—314/315, Linghi Chetty Street, Madras 1
Gillander's Arbuthnot & Co., Ltd.—First Line Beach. Madras 1
William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

PERFUMERS

McDowell & Co., Ltd. -Second Line Beach, Madras 1.
Spencer & Co., Ltd. Mount Road, Madras 2.
Taylor, T. A. & Co. (Madras) Ltd.— 100, Armenian Street, Madras 1
Wilson & Co.- -North Railway Terminus Road, Royapuram, Madras

PERFUMERY RAW MATERIALS AND COMPOUNDS

Burmah-Shell Oil Storage & Distributing Co. of India Ltd. -Burmah-Shell House, Esplanade, Madras 1.
May & Baker (India) Ltd.- Purshotham Building, 193, Mount Road, Madras 2.
Spencer & Co., Ltd Mount Road, Madras 2
Voltas Ltd. -115 116, Armenian Street, Madras 1

PETROLEUM & ALLIED PRODUCTS

Burmah-Shell Oil Storage & Distributing Co. of India Ltd —Burmah Shell House, Esplanade, Madras 1.
Caltex (India) Ltd.—202, Mount Road, Madras 2.
Standard-Vacuum Oil Co.—United India Building, Esplanade, Madras 1.
Wakefield & Co., Ltd., C. C.—16 17, Second Line Beach, Madras 1

PHARMACEUTICALS

Associated Pharmaceutical Industries Ltd —35 37, Thambu Chetty Street, Madras 1
Best & Co., Ltd. First Line Beach, Madras 1
Gillander's Arbuthnot & Co., Ltd. First Line Beach, Madras 1
Glaxo Laboratories (India) Ltd.—Jupiter House, 167, Broadway, Madras 1.
Imperial Chemical Industries (India) Ltd.— Springhaven Road, "The Harbour", Madras.
Indo Trades & Agencies (Madras) Private Ltd —21, Thambu Chetty Street, Madras 1.
May & Baker (India) Ltd. —Purushotham Building, 193, Mount Road, Madras 2.
McDowell & Co , Ltd —Second Line Beach, Madras 1
Parry & Co., Ltd.—"Dare House", First Line Beach, Madras 1
Raka Corporation Private Ltd.—138, Moor Street, Madras 1
Shaw Wallace & Co., Ltd.—8,9, Thambu Chetty Street, Madras 1
Spencer & Co., Ltd Mount Road, Madras 1.
Voltas Ltd.—115/116, Armenian Street, Madras 1
Wilson & Co.—North Railway Terminus Road, Royapuram, Madras

PHARMACEUTICALS (MANUFACTURE)

Abbot Laboratories (India) Ltd.—3, Erraballu Street, Madras 1
Alembic Distributing Agency—154, Nainiappa Naick Street, Madras 1
Gillander's Arbuthnot & Co., Ltd.—First Line Beach, Madras 1
Glaxo Laboratories (India) Ltd. -Jupiter House, 167, Broadway, Madras 1.
Imperial Chemical Industries (India) Ltd. —Springhaven Road, "The Harbour", Madras 1.
Martin & Harris Ltd —4, Sunkurama Chetty Street, Madras.
May & Baker (India) Ltd.— Purshotham Building, 193, Mount Road Madras 2.
Oakley Bowden & Co. (Madras) Ltd. —Indian Express Office Building Mount Road, Madras 2.
Parry & Co., Ltd.—"Dare House", First Line Beach, Madras 1
Voltas Ltd.—115/116. Armenian Street. Madras 1.

PHOTOGRAPHERS

Bharat Studios—Mount Road, Madras 2.
KLEIN & PEYERL.—Photographers and Blockmakers, 30 Mount Road, Madras 2. Phone : 84167. Grams : "KLEIN PYERL". Our Specialities—Processing of Colour negative films, making colour enlargements and colour blocks from transparencies.
Meco Studios—2/18-C, Mount Road, Madras 2.
Photo Emporium.—11, Mount Road, Madras 2. Phone : 86872.
Press Photo Bureau—874, Pycrofts Road, Madras 14.
R. Dasen Studio—1/48, Rattan Bazar, Madras 3.

PHOTOGRAPHIC MATERIAL DEALERS

Allied Photographics, Ltd.—16, Armenian Street, Madras 1.
Ama Ltd. (Photo-Cine-Sound)—189/B, Mount Road, Madras 2
Heatly & Gresham Ltd.—United India Building, Esplanade, Madras 1.
Ilford Selo (India) Ltd.—Woods Roads, Madras 2. Phone : 8320.
Klein & Peyerl—30, Mount Road, Madras 2.
Kodak Ltd.—2/155, Mount Road, Madras 2.
L. C. Sett & Co., Ltd. -30, Mount Road, Madras 2.
Spencer & Co., Ltd.— Mount Road, Madras 2.

PIECE-GOODS MERCHANTS

Ahmedabad Textile Agency—67, Godown Street, Madras 1.
Ajitbhai Jayanthilal & Co.—5, Godown Street, Madras 1.
Ajitbhai Desai & Co.—10, Godown St., Madras 1.
Akbar Bros. -112, South Masi Street, Madurai.
Alathoor Abhoy Chetty & Co.—34, Godown St., Madras 1.
Alathoor Suresh & Co - 34-B, Godown St. Madras 1.
Aminuddin Sahib & Co., T.— 16, Godown Street, Madras.
Annamalai Corporation Ltd.—19, Big Bazar St , Tiruchirapally.
Asoka Stores—35, Subbaraya Chetty St., Tirupapulliyur P.O., S Arcot Dist.
Anto Store- 2 56, Broadway, Madras 1.
Balarama & Co.— 67, Godown Street, Madras 1.
Bharat Agencies -140, Big Street, Kumbakonam.
Binny & Co , (Madras) Ltd.—P.O. Box No 66, Madras 1.
Bombay Mills Deptt.- Longly Road, Shevapet, Salem.
Bombay Textile Agencies - 4, Samudra Mudali St., Madras 3.
C Munuswamy Chetty & Co. - 60, Godown Street, Madras 1.
Champalal & Co.- 245, N S.C Bose Road, Madras 1.
Chandra-Kant & Co.—2 96, Godown Street, Madras 1.
Chenchula Ware House 72, Godown Street, Madras 1.
Chengiah Chetty & Co , V V 1 5, Godown St , Madras 1.
Chhotabhai Javerbhai & Co Ltd. - 468, Mint Street, Madras 3.
Chimandal C Barbhaiya & Co. 20, Samudra Mudali St , Madras 3.
Chunnibhai & Bros. 27, Godown Street, Madras 1.
Chithra Stores -190, N S C Bose Road, Madras 1
Colombo Store 101, Godown St , Madras 1
Dhanamal Silk Mills 4 99, Godown Street, Madras 1
Dhuraj & Co , C N -17, Godown St , Madras.
G R Doss & Co - 87, Godown St , Madras 1.
Gajapathi & Co. —6-B, Godown St., Madras 1.
Ganesh Textiles 70, Godown Street, Madras.
Geetha & Co.—63, Godown St , Madras 1.
Govindadass Luminadoss & Co. 2 44, Godown Street, Madras 1.
Gulabdas Narayandoss -17-D, Godown Street, Madras.
Gupta & Co , P.J.- 9, Godown St., Madras 1.
H Yoosuf Oomer & Co.—14, Godown Street, Madras 1.
H A R. Mohamed & Sons 6-A, Godown St., Madras 1.
Haji Jiva Haji Khamisa & Co 26, Anderson St., Madras 1.
Himatlal H. Mehta—26, Godown St., Madras
Hindu Multani & Co. 1 2, Godown St., Madras 1.
Issardas Sons 20, Godown Street, Madras 1.
Jagraj & Co. - Coonoor.
Jagroopchand Javerchand -15, Godown St., Madras. 1.
Jain Jari Store—90, Godown St., Madrs 1.
Jalaha Textiles -24-B, Godown Street, Madras 1.
Jameel Brothers -15, Rattan Bazar, Madras 3.
Janakiram Chetty & Co.—3 96, Godown St , Madras 1.
Jeisaram Vishnidas & Co.—3 67, Godown St , Madras 1
Jeshingbhai Balabhai & Sons -20, Godown Street, Madras 1.
Joomus Sait & Sons -62 64, Rattan Bazar, Madras 3.
K Ramson & Co.,(1946) 226, Poonamallee High Road, Madras 3.
K Ranganatham Chetty & Co. 1 21, Godown St., Madras 1.
K. S. Ram & Co.—1/19, Godown St., Madras 1.
K. T Shariff & Co.—31, Godown St , Madras 1.
Kalyanna Mudaliar Stores 53, Godown St., Madras 1.
Keshavlal Manilal & Bros.—24, Godown St., Madras 1.
Khatau Makanji Spg., & Wvg. Co., Ltd. 216, N.S.C. Bose Road, Madras.
Kishinchand Chellaram (India) Ltd.— 3 4, Godown St., Madras 1.
Kishindass Bros. —9 20, Godown St., Madras 1.
Kishinlal Roopchand & Co.—27, Godown Street, Madras 1.
Kola Venkata Ramanujulu Chetty & Co. —37, Godown St., Madras 1.
Krishna & Co.—243,44, N.S.C. Bose Road, Madras 1.
Kumar Bros.—2 5, Godown St., Madras 1.
Kundanmall & Sons—43, Rattan Bazar, Madras 3.
Lachhmandas & Sons—52, Godown Street, Madras 1.
Lala Gopikrishna Gokuldass—114, Mint Street, Madras 1.
Lekhraj & Sons—25, Godown St., Madras.
M. R. Narasimhulu & Co.—65/66, Godown Street, Madras 1.
Maddala Theperumal Chetty & Co.—8 20, Godown Street, Madras 1.
Madras Novelty Stores—266, N.S.C. Bose Road, Madras 1.
Madras Overseas Traders—99, Godown St., Madras 1.
Madura South India Corporation (Private) Ltd.—80, Sembudoss St., Madras 1.
Manickya Stores—Rock Fort Gate, Teppakulam, Tiruchirapally.
Mehta Brother—2/67, Godown St., Madras 1.
Mohini Stores- 1 47, Rattan Bazar, Madras 3.
Munuswamy Chetty & Co., D —6, Godown St., Madras 1.
N. Valiram—3 28, Godown Street, Madras 1
N. K. Jayaram & Co. 26, Godown St., Madras 1.
N. M. Narayanaswami Mudaliar & Son—69, Godown St., Madras 1.
Nalli Chinnaswamy Chetty & Sons—T. Nagar Madras 17.
Narandas & Co.—18-A, Godown St , Madras 1
Narandoss & Bros. 46, Godown Street, Madras 1.
Navaneeta Textiles—1 74, Godown St , Madras 1.
O. A. Areemuga Mudaliar & Co.— 59, Godown St., Madras 1.
P. Suryanarayana & Co.— 75, Godown St., Madras 1.
P. T. V. Loganatha Mudaliar & Co.—1 20, Godown St., Madras 1.
Pala Muddukrishnaiah & Co. —84, Godown St., Madras 1.
Parthasarathi Store— 1 128, Purasawalkam High Road, Madras 7.
Patel Brothers—7, Godown St., Madras 1.
Premraj Ganpatraj & Co —70, Godown Street Madras 1.
Purshotham & Co., T —15, Godown Street, Madras 1.
R. Doraiswamy Chetty & Co.—26, Godown St., Madras 1.
R. C. Kuppuswamy & Co.—23 Godown Street Madras 1.
Radha Hameed & Co.—35, Godown St , Madras 1.
Radha & Sons—93, Godown St., Madras 1.
Rajendralal Bishayee— 8, Godown Street, Madras 1.
Rajputana Trading House 100, Godown St , Madras 1.
Rama Emporium— 71 72, Rattan Bazar, Madras 3.
Ramco Swadeshi—28 Godown Street, Madras 1.
Ramdas & Co 470, Mint St , Madras 3.
Rangiah Chetty & Co , J —16, Godown Street, Madras.
Ranklal Ramanlal & Bros.—77, Godown St., Madras 1.
S. Meera Sahib & Bros.—19, Godown Street, Madras.
S A. Nagaer & Co.—26 Godown Street, Madras 1.
Samath & Co. (Private) Ltd.—17 18 Broadway, Madras 1.
Sami Venkatachalam Chetty & Co. -58, Thyagaraya Road, T. Nagar, Madras 17
Sampathraj Jain & Co.—73 Godown St , Madras 1.
Sarabhai & Co —65 66, Godown St., Madras 1.
Saraswati Devi Textiles— 73, Godown Street Madras 1.
Sarvoday Hosiery—3 4, Godown St , Madras 1.
Shah Jewanthraj & Co.— 23, Godown St , Madras 1
Shah Textile Agency -3 26 Godown Street (Upstairs), Madras 1.
Shantilal V. Parikh 5, Godown St., Madras 1.
Shanmugha Vilas 40-B, Gangu Reddy Road, Egmore, Madras 8.
Silk & Rayon Ltd.— 61, Godown Street, Madras 1
South India Textiles Agencies —100, Godown St , Madras 1.
Sri Andal Textiles 24-A, Godown St , Madras 1.
Sri Gopalakrishna Co.— 30, Godown St., Madras 1.
Sri Ram Stores Ltd.—37, Pycrofts Road, Triplicane, Madras 5.
Sri Satyanarayana & Co.—91, Godown St , Madras 1.
Sri Venkataswara & Co.—3 34 Godown Street Madras 1.
Sujan Singh Mehta & Co. 63, Godown St , Madras 1.
Swami Agencies 23, Godown St Madras 1.
T. R Krishna Chetty & Son—41, Godown St , Madras 1.
Textiles of India 100, Godown St , Madras 1.
Thakurdas Chothram Bros.—1 1, Godown St Madras.
Thallam Veeraiah Chetty & Sons —4 67, Godown St , Madras 1.
The City Swadeshi Emporium 355 58, N.S.C Bose Road, Madras 1
The General Stores 585, Pycrofts Road, Triplicane Madras 5.
The General Trading Co. 99, Godown St., Madras 1.
The Indian Industrial Co. Ltd.—363, Esplanade, Madras.
The Modern Stores—31, Pycrofts Road, Triplicane, Madras 5.
The Modern Textile 64, Godown St., Madras 1.
Tulsiram Pukhraj 4 25, Godown St , Madras 1.
V Govinda Mudaliar & Sons—23, Jones Street, Mannady, Madras 1.
V N V Devarajulu Chetty & Co. 17-A, Godown Street, Madras 1.
Valjee Kanjee & Co 2 97, Godown Street, Madras 1.
Vallabhadas Mathuradas & Co. - 68, Godown Street Madras 1.
Varadarajulu Chetty & Co , C. - 62, Godown Street Madras 1.
Vasane Textiles - 105 107, Devaraja Mudali St , Madras 3
Venkatsh Trading Corporation 2 22, Godown St , Madras 1
Veera Venkatesaperumal & Co 2 38, Godown St, Madras 1
Yusuff Sait & Sons Big Bazar, Tiruchirapally.

PIPES AND PIPE FITTING MERCHANTS

Aminchand Payerelal —27, Sembudass Street, Madras 1.
East Asiatic Co. (India) Ltd.—Mercantile Bank Building, First Line Beach, Madras 1.
Gordon Woodroffe & Co. (Madras) Ltd.—1 21, North Beach Road, Madras 1.
Grahams Trading Co. (India) Ltd —311, Linghi Chetty Street, Madras 1.
Hassanally, A. M., & Co.—34, Linghi Chetty Street, Madras 1. Phone : 2352. Grams : "BRILLIANT."
Heatly & Gresham Ltd.—United India Building, Esplanade, Madras 1.
Murlimal Santram & Co. (Madras) Ltd.—13, Sembudass Street, Madras 1.
Rameschandra Santram—16, Sembudass Street, Madras 1.
Richardson & Cruddas Ltd.—First Line Beach, Madras 1.
South India Export Co., Ltd.—5, Melcan Street, Madras 1.

PLASTICS (IMPORT)

Beardsell, W. A. & Co., Ltd.—Second Line Beach, Madras 1.
Bombay Co., Ltd. -169, Broadway, Madras 1.
Imperial Chemical Industries (India) Ltd.—Springhaven Road, "The Harbour", Madras.
May & Baker (India) Ltd.—Purshotham Building, 193, Mount Road, Madras 2.
Philips Electrical Co. (India) Ltd.—Mount Road, Madras 2.

PLYWOOD MERCHANTS

Best & Co., Ltd.—First Line Beach, Madras 1.
Binny & Co. (Madras), Ltd.—7, Armenian Street, Madras 1.
C. Cunniah & Co.—248/249, Devaraja Mudaly Street, Madras 3.
D. Ramanujiah & Sons—230, Devaraja Mudaly Street, Madras 3.
K. R. S. Sreenivasiah & Sons—169, Devaraja Mudaly Street, Madras 3.
McDowell & Co., Ltd.—Second Line Beach, Madras 1.
P. N. Balu Chetty & Sons—238/239, Devaraja Mudaly Street, Madras 2.
P. Thiruvarangiah & Sons—172, Devaraja Mudaly Street, Madras 3.
R. Ethirajiah & Sons—103, Devaraja Mudaly Street, Madras 3.
R. Ramanujiah & Sons—191, Devaraja Mudaly Street, Madras 3.

POWER STATION EQUIPMENT

Easun Engineering Co., Ltd.—5,7, Second Line Beach, Madras 1.
General Electric Co. of India Ltd.—Magnet House, Mount Road, Madras 2.
Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras 1.
Larsen & Toubro Ltd.—4,5, Club House Road, Mount Road, Madras 2.
Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras 1.
Voltas Ltd.—115/116, Armenian Street, Madras 1.
William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

PRINTING PRESS MATERIALS

Amalgamations Private Ltd.—202, Mount Road, Madras 2.
Beardsell, W. A. & Co., Ltd.—Second Line Beach, Madras 1.
Charles Morgan & Co., Ltd.—314/315, Linghi Chetty Street, Madras 1.
EAST ASIATIC COMPANY (INDIA) PRIVATE LTD., THE.—Machine & Engineering Dept., Bharat Bldg., Mount Road, Madras 2; Phone: 86021 2; Grams: "MANDARIN"; P.O. Box No. 146.
Gordon Woodroffe & Co. (Madras) Ltd.—1,21, First Line Beach, Madras 1.
Hoogly Ink Mfg. Co., Ltd.—Rundalls Road, Madras.
Jaya Bharatham Co.—Philips Street, Madras 1
Krishna Veni Inks—141, Govindappa Naick Street, Madras 1.
New Star & Co.—15,16, B. Valdyanatha Mudali Street, Madras.
South India Export Co., Ltd.—5, Mclean Street, Madras 1.

PROCESS BLOCK MAKERS

Amalgamations Private Ltd.—202, Mount Road, Madras 2.
Bharat Studio—Opp. Mount Road Post Office, Madras 2.
KLEIN & PEYERL.—Photographers and Blockmakers, 30, Mount Road, Madras 2. Phone: 84167. Grams: "KLEIN-PYERL". Our Specialities—Processing of colour negative films, making colour enlargements and colour blocks from transparencies.
Newton & Co.—80, Wallajah Road, Mount Road, Madras 2.
"The Hindu"—Mount Road, Madras 2.
"The Mail"—Mount Road, Madras 2.

PROVISION MERCHANTS

Adam Hajee Peer Mohamed Essack—Anderson St., Madras.
Arumugam Chettiar, N.—Kongalamman Koil Street, Erode.
Arumugam Chettiar & Co., S.—Kongalamman Koil Street, Erode.
Asan Mohd. Rowther—Rangiah Gowder Street, Coimbatore.
Ayyaswami Mudaliar, B.—Netaji Road, Erode.
Balakrishna Chettiar & Sons, K. S.—R. G. Street, Coimbatore.
Cambodia Mills Employees' Co-operative Stores—Singanallur.
Coimbatore Co-operative Stores and Bank Ltd.—Coimbatore.
Co-operative Stores—Arni (North Arcot Dist.).
Co-operative Loans and Sale Society, Sanadhy Stores—Tiruvannamalai (North Arcot Dist.).
Damodava Mudaliar, D.—Tiruppattur (North Arcot Dist.).
Dasappa Chetty, T.S.—Jail Road, Coimbatore.
Dhanalakshmi Mills Co-operative Stores—Uthukuli Road, Coimbatore.
East Asiatic Co. (India) Private Ltd.—First Line Beach, Madras.
Kasturi Mills Co-operative Stores—Irugur (Coimbatore).
Krishnaswami Chettiar & Sons, P.—Chithode, Coimbatore.
Kunvaraswamy Chettiar & Co., R.K.R.—Palladam Road, Tiruppur
Mudis Co-operative Stores, Ltd., The—Mudis (Coimbatore).
Nathamuni Naidu & Sons, A.S.—Katpadi (North Arcot Dist.).
North Arcot District Co-operative Stores Ltd., The—14, Officers Line, Vellore.
Paramasiva Mudaliar & Sons, S.—Main Bazar, Vellore (North Arcot Dist.).
Parthasarathy Mudaliar—101, Acharappan St., Madras.
Spencer & Co., Ltd.—1/153, Mount Road, Madras 1.
Tiruvannamalai Co-operative Stores—Tiruvannamalai (North Arcot Dist.).
Vaniyambadi Co-operative Stores, The—Vaniyambadi (North Arcot Dist.).
Vellore Co-operative Stores, The—Marakadai Street, Vellore.

PULSES

Appah & Co.—286, Netaji Subhas Chandra Bose Road, Madras.
Arumugha Nadar & Sons, V.S.—225, Tiruvottiyur High Road Washermanpet, Madras.
Balkrishna Chetty, M.S.—1 3, Achharappan Street, Madras.
Bhavanjee & Co.—72, Mint Street, Madras.
Chandraprakash Nadar, V.—17, Kalimandapan Road, Madras
Chidambara Nadar, S.K.—26, Bala Arunachala Chetty Street, Madras.
Diraviya Nadar & Bros., P.K.P.—14, Singara Garden Seventh Lane Washermanpet, Madras.
Dwarakadas & Co.—5, Anderson St., Madras.
Ganapathy Nadar, T.V.—9, Madaswamy Nadar Street, Washermanpet, Madras.
Hemraj Sunderdas—156, Anderson St., Madras.
Indukoor Ramiah Chetty—97, Acharappan St., Madras
Lakshmanarayana Chetty & Co., M.—10, Acharappan St., Madras.
Madanji Devchand Ltd.—433, Mint St., Madras.
Manickam Naidu, P.—5 Acharappan St., Madras.
Nammalwar Chetty & Sons, G.—8, Acharappan St., Madras
Palaniswamy Nadar, P.A.K.—29, Garden, 3rd Lane, Royapuram, Madras.
Poonja Thakersee & Co.—75, Mint Street, Madras.
Punnjappa Nadar & Sons, V.A.S.M.—395, Tiruvottiyur High R. Madras.
Ratnaswamy Nadar & Bros., M.P.S.—10, Mandapam Road, puram, Madras.
Sampangi Chetty & Sons, M.—3-B, Acharappan St., Madras
Shanmugham & Co., V.V.—179, Govindappa Naicken St., Ma
Thiraviya Nadar & Bros., P.M.P.—7, Singara Garden, Washermanpet, Madras.
Virji Daya & Co.—12, Damodara Mudaly St., Madras.

PUMPS AND PUMPING SETS MANUFACTURERS AND DEALERS

ASSOCIATED ELECTRICAL INDUSTRIES (INDIA) PRIVATE LTD., 11 12, First Line Beach, Madras. (See Commercial firms Section in Madras).
Best & Co., Ltd.—First Line Beach, Madras 1.
Binny & Co. (Madras) Ltd.—7, Armenian Street, Madras 1
Brady, W. H. & Co., Ltd.—154/155, Popham's, Broadway, Madras 1
Chandra Foundries Ltd.—55, Basin Bridge Road, Washermanpet, Madras 21.
EAST ASIATIC COMPANY (INDIA) PRIVATE LTD., THE Machine & Engineering Dept., Bharat Bldg., Mount Road, Madras 2; Phone: 86021 2; Grams: "MANDARIN", P.O. Box No. 146.
Easun Engineering Co., Ltd.—5/7, Second Line Beach, Madras 1.
General Electric Co. (India) Ltd.—Magnet House, Mount Road, Madras 2.
Gordon Woodroffe & Co., Ltd.—1/21, North Beach Road, Madras 1
Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras 1.
Guest, Keen, Williams, Ltd.—202, Mount Road, Madras 1
Heatly & Gresham, Ltd.—United India Life Building, Esplanade, Madras 1.
Kilburn & Co., Ltd.—32/33, Linghi Chetty Street, Madras 1.
Larsen & Toubro Ltd.—4/5, Club House Road, Mount Road, Madras 2.
Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras 1.
Massys Engineers—4B-4C, North Railway Terminus Road, Royapuram, Madras 13.
National Engineering Co. (Madras) Ltd., The—379, Netaji Subhas Chandra Bose Road, Madras 1.
Parry & Co., Ltd.—"Dare House", First Line Beach, Madras 1
P. Natesan (Industries) Ltd.—191, Triplicane High Road, Madras 5.
Rallis India Ltd.—Rallis House, 320, Linghi Chetty Street, Madras 1.
Refrigerators & Home Appliances Ltd.—36, Mount Road, Madras 2
South India Export Co., Ltd.—5, Mclean Street, Madras 1.
Taylor, T. A. & Co. (Madras) Ltd.—100, Armenian Street, Madras 1
Vernon & Co., Ltd.—36, Second Line Beach, Madras 1.
Voltas Ltd.—115/116, Armenian Street, Madras 1.
Water Supply Specialists Ltd.—45, Thambu Chetty Street, Madras 1
William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

PYROMETERS AND ALLIED INSTRUMENTS

Brady, W. H. & Co., Ltd.—154/155, Pophams, Broadway, Madras 1.
Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras 1.
Larsen & Toubro Ltd.—4/5, Club House Road, Mount Road, Madras 2.
Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras 1.
William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

RADIO IMPORTERS, DEALERS & PART SUPPLIERS

Amalgamations Private Ltd.—202, Mount Road, Madras 2.
Associated Electrical Industries (India) Ltd.—11/12, First Line Beach, Madras 1.
Chicago Telephone & Radio Co., Ltd.—196, Mount Road, Madras 2.
Electronic Service Company.—17-35, Mount Road, Madras 2.
General Electric Co. of India Ltd.—Magnet House, Mount Road, Madras 2.
Madras Radio Company—3/105, Armenian Street, Madras 1.
Mahomed Ebrahim & Co. Private Ltd.- Victory House, 7 and 8, Mount Road, Madras.
Master Radio Co.—137/139, Rosappa Chetty Street, P. T., Madras.
Orr, P. & Sons Ltd.—Mount Road, Madras 2.
Philips Electrical Co. (India) Ltd.—Mount Road, Madras 2.
Singh Trading Co.—Old Bossotto Bldg., 177/179, Mount Road, Madras.
South India Export Co., Ltd.—5, Mclean Street, Madras.
Spencer & Co., Ltd.—Mount Road, Madras 2.
Vernon & Co., Ltd.—36, Second Line Beach, Madras 1.

RAILWAY SIGNALLING EQUIPMENT

ASSOCIATED ELECTRICAL INDUSTRIES (INDIA) PRIVATE LTD.—11 12, First Line Beach, Madras. (See Commercial firms in Madras).

Bombay Co., Ltd.—169, Broadway, Madras 1.
Guest, Keen, Williams, Ltd.—202, Mount Road, Madras 2.
Heatly & Gresham Ltd.—United India Bldg., Esplanade, Madras 1.
Kilburn & Co., Ltd - 32/33, Linghi Chetty Street, Madras 1.
Parry & Co., Ltd.—"Dare House," First Line Beach, Madras 1.
William Jacks & Co., Ltd. - National Bank of India Building, First Line Beach, Madras 1.

RAILWAY EQUIPMENT—ELECTRICAL

Kilburn & Co., Ltd.—32/33, Linghi Chetty Street, Madras 1.
Voltas Ltd.—115/116, Armenian Street, Madras 1.
William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

RAILWAY SIGNALLING EQUIPMENT

Associated Electrical Industries (India) Ltd.—11,12, First Line Beach, Madras 1
British Insulated Callender's Cables Ltd.—37, Second Line Beach, Madras 1.
Guest, Keen, Williams, Ltd. -202, Mount Road, Madras 2.
William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

REFRACTORIES

Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras 1.
Richardson & Cruddas Ltd. First Line Beach, Madras 1.
Vernon & Co., Ltd. -36, Second Line Beach, Madras 1.
William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.
Wilson & Co —North Railway Terminus Road, Royapuram, Madras.

REFRIGERATION EQUIPMENT

Amalgamations Private Ltd.—202, Mount Road, Madras 2.
Associated Electrical Industries (India) Ltd. -11,12, First Line Beach, Madras 1.
Beardsell, W. A. & Co., Ltd.—Second Line Beach, Madras 1.
Best & Co., Ltd.—First Line Beach, Madras 1.
Binny & Co. (Madras) Ltd.—7, Armenian Street, Madras 1.
General Electric Co. of India Ltd.—Magnet House, Mount Road, Madras 2.
Larsen & Toubro Ltd.—4/5, Club House Road, Mount Road, Madras 2.
Parry & Co., Ltd.—"Dare House," First Line Beach, Madras 1.
South India Export Co., Ltd.—5, Mclean Street, Madras.
Spencer & Co., Ltd.—Mount Road, Madras 2.
Voltas Ltd.—115/116, Armenian Street.

REFRIGERATORS (DOMESTIC)

ASSOCIATED ELECTRICAL INDUSTRIES (INDIA) PRIVATE LTD.—11/12, First Line Beach, Madras. (See Commercial firms in Madras).

Binny & Co. (Madras) Ltd.—7, Armenian Street, Madras 1.
General Electric Co. of India Ltd.—Magnet House, Mount Road, Madras.
Gordon Woodroffe & Co. (Madras) Ltd. -1,21, North Beach Road, Madras 1.
Philips Electrical Co. (India) Ltd.—Mount Road, Madras 2.
Richardson & Cruddas Ltd.—First Line Beach, Madras 1.
Spencer & Co., Ltd.—Mount Road, Madras 2.

REPRESENTATIVES MANUFACTURERS

National Engineering Co. (Madras) Ltd., The.—379, Netaji Subhas Chandra Bose Road, Madras 1.
South India Corporation (Madras) Ltd.—2, Armenian Street, Madras 1.

RICE MILLS

Ambiga Rice & Flour Mill —125, Bazar Street, Tiruppatur.
Arunachalam Rice & Decorticating Factory.—Tiruvannamalai (North Arcot Dist.).
Chowdeswari Rice & Flour Mill.- 41, Mela Street, Tiruppatur.
Dhana Lakshmi Rice Mill.—Tiruvettipuram.
Dhana Lakshmi Rice Mill.—Tirupatur.
Dhanabhagya Rice & Decorticating Mills — Arcot.
Dinkar Rice & Decorticating Mills.—Arni
Durga Parameswari Rice & Decorticating Factory.—7, Chetty Street, Tiruv.
Jaya Lakshmi Rice & Decorticating Factory.— Tiruppatur.
Kamala Rice & Flour Mills.—66, Bazar Street, Tiruppatur.
Linga Bhavanam Rice & Decorticating Factory. - Arni.
Lakshmi Vilas Rice Mill.- Cheyyar (North Arcot Dist.).
Lakshmi Vilas Rice Mill.—Tiruvannamalai (North Arcot Dist.).
Mubarack Rice & Flour Mill —Pernambur.
Sivaprakasa Mudaliar, K. T., Rice & Flour Mill.—380, Club Road, Vaniyambadi (North Arcot Dist.).
Sri Ananda Nataraja Rice Mill — Tiruvettipuram.
Sri Krishna Rice Mill -Arni
Sri Ram Pumping Industrial Mills.— Polur.
Sri Srinivasa Raghavachari Rice Mill. Arcot.
Venkataramana Rice Mill Kannan Nagar, Arkonam.
Venugopal Chettiar Rice Mill.- Arkonam.

ROAD BUILDING MACHINERY

Amalgamations Private Ltd.—202, Mount Road, Madras 2.
Best & Co., Ltd. First Line Beach, Madras 1.
EAST ASIATIC COMPANY (INDIA) PRIVATE LTD., THE.—Machine & Engineering Dept., Bharat Bldg., Mount Road, Madras 2; Phone : 86021 2, Grams : "MANDARIN"; P.O. Box No. 146.
Heatly & Gresham Ltd. -United India Building, Esplanade, Madras.
Larsen & Toubro Ltd.—4 5, Club House Road, Mount Road, Madras 2
Marshall Sons & Co. (India) Ltd. Marshall Building, Second Line Beach, Madras 1.
Voltas Ltd. - 115 116, Armenian Street, Madras 1.
William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

ROOFING MATERIALS

Best & Co., Ltd.—First Line Beach, Madras 1.
Gordon Woodroffe & Co. (Madras) Ltd. -1 21, North Beach Road, Madras 1.
Heatly & Gresham Ltd. -United India Building, Esplanade, Madras 1.
Spencer & Co., Ltd.—Mount Road, Madras 2.
William Jacks & Co., Ltd. -National Bank of India Building, First Line Beach, Madras 1.
Wilson & Co North Railway Terminus Road, Royapuram, Madras.

ROPE AND ROPERIES

Best & Co., Ltd. - First Line Beach, Madras 1.
Binny & Co. (Madras) Ltd. —7, Armenian Street, Madras 1.
Brady, W. H. & Co., Ltd. 154 155, Pophams, Broadway, Madras 1.
Gordon Woodroffe & Co. (Madras) Ltd. -1,21, North Beach Road, Madras 1.
Roberts Mclean & Co., Ltd.—200, Mount Road, Madras 2.
South India Export Co., Ltd —5, Mclean Street, Madras.
Wilson & Co.- North Railway Terminus Road, Royapuram, Madras.

ROPEWAYS AND ROPEWAYS CONSTRUCTION

Gillander's Arbuthnot & Co., Ltd. -First Line Beach, Madras 1.
Larsen & Toubro Ltd.—4,5, Club House Road, Mount Road, Madras 2.
William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

RUBBER GOODS MANUFACTURERS

Best & Co., Ltd.—First Line Beach, Madras 1.
Binny & Co. (Madras) Ltd.—7, Armenian Street, Madras 1.
Bombay Co., Ltd.—169, Broadway, Madras.

Dunlop Rubber Co. (India) Ltd.—5, 6/29, Mount Road, Madras 2.
Firestone Tyre & Rubber Co. (India) Ltd.—159, Mount Road, Madras 2.
Gillander's Arbuthnot & Co., Ltd.—First Line Beach, Madras 1.
Goodyear Tyre & Rubber Co. India Ltd.—2, Patulloo Road, Madras 2.
Heatly & Gresham Ltd.—United India Building, Esplanade, Madras 1.
Kilburn & Co., Ltd.—32,33, Linghi Chetty Street, Madras 1.
Madras Rubber Factory.—2, Errabalu Chetty Street, G. T., Madras 1.
Spencer & Co., Ltd.—Mount Road, Madras 2.

SANITARY ENGINEERS AND CONTRACTORS

King & Company.—321, Thambu Chetty Street, Madras 1.
Murugappa & Sons.—Swastik House, Armenian Street, Madras 1.
Richardson & Cruddas Ltd.—First Line Beach, Madras 1.
SWAMY & COMPANY.—Civil and Sanitary Engineering Contractors and Paviors. Dealers in Sanitary ware, Mosaic Chips & Colours, Marble, etc., 318, Thambu Chetty Street, Madras 1. Grams: "EXQUISITE". Phone: 5230.
Venus & Company.—317, Thambu Chetty Street, Madras 1.
Vijaya Trading Corporation.—320, Thambu Chetty Street, G.T., Madras 1.

SANITARY-WARES AND FITTINGS

Gillander's Arbuthnot & Co., Ltd.—First Line Beach, Madras 1.
Grahams Trading Co. (India) Ltd.—311, Linghi Chetty Street, Madras 1.
Murugappa & Sons—Swastik House, Armenian Street.
Parry & Co., Ltd.—"Dare House," First Line Beach, Madras.
Richardson & Cruddas Ltd.—First Line Beach, Madras.
Sanitary Sales & Service.—26, Thambu Chetty Street, Madras 1.
Vernon & Co., Ltd.—36, Second Line Beach, Madras.

SCALES

Avery & Co., Ltd.—16/17, Armenian Street, Madras 1.
General Electric Co. of India Ltd.—Magnet House, Mount Road, Madras.
Gordhand Desai & Co.—22, Linghi Chetty Street, Madras 1. Phone: 3644. Grams: "MICROSCOPY".
Lawrence & Mayo (India) Ltd.—17, Mount Road, Madras 2.
L. C. Sett & Co., Ltd.—30, Mount Road, Madras 2.
Philips Electricals Co. (India) Ltd.—Mount Road, Madras 2.
United Scientific Co.—9, Sunkurama Chetty Street, Madras 1.

SCIENTIFIC INSTRUMENTS

Andhra Scientific Co., Ltd., Blacker's Road, Mount Road, Madras.
K. RAJARAM & CO.—9, Bunder Street, Madras 1.

ASCO *Leads in the Manufacture of Precision Instruments in India*

Theodolites, Precision Engineers' and Builders' Levels, Dumpy Levels, Compasses, Microscopes, Spectrometers, Interferometers, Laboratory Fittings, Autoclaves, Distilling Plants, Ovens, Balances, Measuring Instruments and Complete Laboratory Equipment.

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4, Blacker's Road, Mount Road, MADRAS. | Opp.: Grammar School, Abid Road, HYDERABAD (Dn.). | Janmabhoomi Chambers, Ballard Estate, BOMBAY.

Representatives at NEW DELHI-CALCUTTA-VISAKHAPATNAM

SEWING THREAD MANUFACTURERS

Bombay Co., Ltd.—169, Broadway, Madras.
Central Agency Ltd.—19, Vanlar Street, Madras 1.
Gillanders Arbuthnot & Co., Ltd.—First Line Beach, Madras 1.
McDowell & Co., Ltd.—Second Line Beach, Madras.
Rallis India Ltd.—Ralli House, 320, Linghi Chetty Street, Madras.
Spencer & Co., Ltd.—Mount Road, Madras 2.

SHIPPING AGENTS

Amalgamations Private Ltd.—202, Mount Road, Madras 2.
Bombay Co., Ltd.—169, Broadway, Madras 1.
F. X. Pereira & Sons.—2/21, First Line Beach, Madras 1.
Gillanders Arbuthnot & Co., Ltd.—First Line Beach, Madras.
Gordon Woodroffe & Co. (Madras) Ltd.—1/21, North Beach Road, Madras.
Indian Steamship Co., Ltd.—16, First Line Beach, Madras.
South Indian Export & Co., Ltd.—5, Mclean Street, Madras.
Spencer & Co., Ltd.—Mount Road, Madras 2.
United Liner Agencies of India, Ltd.—41, Mookernalla Muthu Street, Madras 1.
Wilson & Co.—North Railway Terminus Road, Royapuram, Madras.

SIZING MATERIALS

Brady, W. H., & Co., Ltd.—154/155, Pophams, Broadway, Madras
Bombay Co., Ltd.—169, Broadway, Madras 1.

SOAP MANUFACTURERS

Best & Co., Ltd.—First Line Beach, Madras 1.
East Asiatic Co. (India) Ltd.—Mercantile Bank Building, First Line Beach, Madras 1.
GODREJ, Godrej Soaps Private Ltd.—104, Broadway, Madras
Lever Brothers.—11/14, Armenian Street, Madras 1.
Murali Traders.—1st Lane, Lawyer C. Mudali Street, Madras 21.
New Star & Co.—15/16-B, Venchattachala Mudali Street, Madras.

SPORTS GOODS DEALERS

Mehndru Sports.—188, Mount Road, Madras 2.
Spencer & Co., Ltd.—Mount Road, Madras 2.
Uberoi Ltd.—Sports Specialists, 22, Mount Road, Madras 2

STARTERS AND SWITCHGEAR

ASSOCIATED ELECTRICAL INDUSTRIES (INDIA) PRIVATE LTD.—11 12, First Line Beach, Madras. (See Commercial firms in Madras).

STATIONERY GOODS (IMPORT)

Amalgamations Private Ltd.—202, Mount Road, Madras 2
Charles Morgan & Co., Ltd.—314,315, Linghi Chetty Street, Madras 1
Higginbothams Ltd.—Mount Road, Madras 2.
McDowell & Co., Ltd.—Second Line Beach, Madras.
Spencer & Co., Ltd.—Mount Road, Madras 2.
Taylor, T. A., & Co. (Madras) Ltd.—100, Armenian Street, Madras
Wilson & Co.—North Railway Terminus Road, Royapuram, Madras

STEAM GENERATING PLANT

Easun Engineering Co., Ltd.—5,7, Second Line Beach, Madras
General Electric Co. of India Ltd.—Magnet House, Mount Road, Madras 2.
Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras 1.
William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

STEAM TRAPS AND VALVES

Best & Co., Ltd.—First Line Beach, Madras 1.
Binny & Co. (Madras) Ltd.—7, Armenian Street, Madras 1
Brady, W. H., & Co., Ltd.—154/155, Pophams, Broadway, Madras 1.
Kilburn & Co., Ltd.—32/33, Linghi Chetty Street, Madras 1
Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras 1.
South India Export Co., Ltd.—5, Mclean Street, Madras 1.

STEEL WINDOWS

GODREJ, Godrej & Boyce Mfg. Co., Private Ltd.—177 & 179, Mount Road, Madras.

STEEL WIRE ROPES

Kilburn & Co., Ltd.—32/33, Linghi Chetty Street, Madras
Rallis India Ltd.—Ralli House, 320, Linghi Chetty Street, Madras 1.
South India Export Co., Ltd.—5, Mclean Street, Madras.
Taylor, T. A., & Co. (Madras) Ltd.—100, Armenian Street, Madras 1.
Venudu & Co., Ltd.—36, Second Line Beach, Madras 1.
William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

STONE CRUSHERS

Best & Co., Ltd.—First Line Beach, Madras 1.
East Asiatic Co. (India) Ltd.—Mercantile Bank Building, First Line Beach, Madras.
Heatly & Gresham Ltd.—United India Building, Esplanade, Madras 1.
Larsen & Toubro Ltd.—4/5, Club House Road, Mount Road, Madras
Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras.
William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

SURGICAL INSTRUMENTS AND APPLIANCES

Bombay Surgical Equipment Co.—8, Sunkurama Chetty Street, Madras 1.
East Asiatic Co. of India Ltd.—Mercantile Bank Building, First Line Beach, Madras 1.
Gillanders Arbuthnot & Co., Ltd.—First Line Beach, Madras 1.
Hale & Co.—Hale Mansions, 192, Poonawallsu High Road, Vepery, Madras 7.
National Surgical & Eng. Works.—187, Mount Road, Madras 2.
Pikay's Medico Surgicals.—199, Mount Road, Madras 2.

TALLOW IMPORTERS & DEALERS

Beardsell, W. A., & Co., Ltd.—First Line Beach, Madras 1.
Best & Co., Ltd.—First Line Beach, Madras 1.
Bombay Co., Ltd.—169, Broadway, Madras 1.
East Asiatic Co. of India Ltd.—Mercantile Bank Building, First Line Beach, Madras 1.
Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras 1.
Rallis India Ltd.—Ralli House, 320, Linghi Chetty Street, Madras 1.
Robert Mclean & Co., Ltd.—200, Mount Road, Madras 1.
Taylor, T. A., & Co. (Madras) Ltd.—100, Armenian Street, Madras 1.

TANNING MATERIAL DEALERS & IMPORTERS

Amalgamations Private Ltd.—202, Mount Road, Madras 2.
Beardsell, W. A., & Co., Ltd. Second Line Beach, Madras 1.
Imperial Chemical Industries (India) Ltd.—Springhaven Road, "The Harbour", Madras.
K. H. Chambers Ltd.—Lecots Building, Madras 1.
Kilburn & Co., Ltd.—32/33, Linghi Chetty Street, Madras 1.
Rallis India Ltd.—Ralli House, 320, Linghi Chetty Street, Madras 1.
South India Export Co., Ltd.—5, Mclean Street, Madras.

TEA (EXPORT)

Bombay & Co., Ltd.—169, Broadway, Madras 1.
Lipton Ltd.—129, Moore Street, Madras.
Spencer & Co., Ltd.—Mount Road, Madras 2
Wilson & Co.—North Railway Terminus Road, Royapuram

TELE-COMMUNICATION EQUIPMENT

Chicago Telephone & Radio Co., Ltd.—196, Mount Road, Madras 2.
General Electric Co. of India Ltd.—Magnet House, Mount Road, Madras 2.
Vernon & Co., Ltd.—36, Second Line Beach, Madras 1.
Voltas Ltd.—115/116, Armenian Street, Madras 1.
Westrex Company India (formerly Western Electric Co. of India).—35, Mount Road, Madras 2.

TEXTILE ENGINEERS AND MACHINERY DEALERS

Brady, W. H., & Co., Ltd.—154/155, Popham's, Broadway, Madras 1.
Gordon Woodroffe & Co. (Madras) Ltd.—1/21, North Beach Road, Madras 1.
Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras
Roberts Mclean & Co., Ltd.—200, Mount Road, Madras 2.
Voltas Ltd.—115/116, Armenian Street, Madras 1.

TEXTILES (IMPORT)

Beardsell, W. A., & Co., Ltd.—8, Second Line Beach, Madras 1.
Bombay Co., Ltd.—169, Broadway, Madras 1.
Dhanamal Silk Mills.—Godown Street, Madras.
Gunamal & Co.—Godown Street, Madras.
Hariram Kotchand.—Godown Street, Madras.
Issardas & Sons.—Godown Street, Madras.
Kishinchand Chellaram.—Ruttan Bazar, Madras.
Lekhraj & Sons.—Godown Street, Madras.
Louis Dreyfus & Co., Ltd.—99, Armenian Street, Madras.
N. Valiram.—Godown Street, Madras.
Rallis India Ltd.—Ralli House, 320, Linghi Chetty Street, Madras 1.
Shewaram Valiram.—Godown Street, Madras.
Spencer & Co., Ltd.—Mount Road, Madras 2.
Taylor, T. A., & Co. (Madras) Ltd.—100, Armenian Street, Madras.
Vernon & Co., Ltd.—36, Second Line Beach, Madras 1.
Voltas Ltd.—115/116, Armenian Street, Madras 1.
Wilson & Co.—North Railway Terminus Road, Royapuram, Madras.

TEXTILES (PIECE-GOODS, ETC. MERCHANTS)

Alathoor Abboy Chetty & Co.—34, Godown Street, Madras 1.
Arirle Silk House—5, Sanuadhi Street, Mylapore, Madras 4.
B. Jwalanarasimham—52, Godown Street, Madras 1.
B. Madura Chetty & Sons—52, Godown Street, Madras 1.
Bharathi Mart Ltd.—369/71, N. S. C. Bose Road, Madras 1.
C. Janakiah Chetty & Sons—33, Godown Street, Madras 1.
C. Moonuswamy Chetty & Co.—60, Godown Street, Madras 1.
C. Subrahmanyam Chetty & Co.—53, Landers Gate Road, Madras 7.
East Coast Commercial Syndicate—99, Armenian Street, Madras 1.
G. K. Doraiswami Naidu—29, Godown Street, Madras 1.
Geetha & Co.—63, Godown Street, Madras 1.
Gocooldass Jumnadass & Co.—229, N. S. C. Bose Road, Madras 1.
India Silk House.—192, Mount Road, Madras 2. Phone 86523.
Indian Industrial Co., Ltd.—363, N. S. C. Bose Road, Madras 1.
J. Ramjiah Chetty & Co.—16, Godown Street, Madras 1.
K. Chellapillay Chetty & Co.—85, Godowns Street, Madras 1.
Kesavaram & Co.—1/287, N. S. C. Bose Road, Madras 1.
Kothari Textiles Ltd.—Oriental Bldgs., Armenian Street, Madras 1.
Krishna & Co.—243/4, N. S. C. Bose Road, Madras 1.
M. V. Cuniah Chetty & Co.—18, Kasi Chetty Street, Madras 1.
Madras Textiles Co.—100, Godown Street, Madras 1.
P. Krishnaswamy Chetty—93, Godown Street, Madras 1.
P. R. Nawaralwar—148, Poonawalla High Road, Madras 10.
R. C. Kuppuswamy & Co.—23, Godown Street, Madras 1.
Sri Balasubram & Co.—23, Arumuga Mudali Street, Madras 21.
T. Purushotham & Co.—15, Godown Street, Madras 1.
T. S. Annamali Chetty & Co.—3/10, Godown Street, Madras 1.
V. N. V. Devarajulu Chetty & Co.—17-A, Godown Street, Madras 1
V. V. Chenghi Chetty & Co.—1/5, Godown Street, Madras 1.

TIMBER MERCHANTS

Amalgamations Private Ltd.—202, Mount Road, Madras 2.
Bombay Co., Ltd.—169, Broadway, Madras 1.
B. Rama Rao & Co.—88, Sydenhams Road, Madras 7.
Ch. Baplah & N. Narasimhhiday—Sydenhams Road, Madras 7.
East Asiatic Co. (India) Ltd.—Mercantile Bank Building, First Line Beach, Madras 1.
Gillanders Arbuthnot & Co. Ltd.—First Line Beach, Madras 1.
M. Sundersanalu Iyengar & Sons.—22,16, Linghi Chetty Street, Madras 1.
Murugappa & Sons—Armenian Street, Madras 1.
Palott Abdul Azeez & Co.—74, Sydenhams Road, Madras 3.
Parachuru Subramayam—110, Sydenhams Road, Madras 7.
R. S. Gopu Ramchandra Rao S. & Sons.—99-A, Sydenhams Road, Madras 7.
Satyanarayan Timber Depot—100, Sydenhams Road, Madras 7.
Shaw Wallace & Co., Ltd.—8/9, Thambu Chetty Street, Madras 1.
Spencer & Co., Ltd.—Mount Road, Madras 2.
Sree Venkateswara Timber Depot—84, Sydenhams Road, Madras 7.
Srinivasa Timber Depot—Sydenhams Road, Madras 7.
United Timber Traders—8-A, Sydenhams Gardens & 84, Sydenhams Road, Madras 7.

TIN BOX MANUFACTURERS

THE METAL BOX COMPANY OF INDIA LIMITED.—Factory and Sales Office at Elaiya Mudali Street, Tondiarpet, Madras 21. Head Office: Barlow House, 59C, Chowringhee Road, Calcutta 20. Branches also at Calcutta, Bombay and Delhi. Specialists in tin printing and the production of Open Top cans for processed foodstuffs and plain and lithographed General Line tinplate containers; Composites; Collapsible and Rigid Tubes; Polyethylene Bags; Calendars, Advertising Showcards and Novelties; Insecticide Sprayers Trays, Toys and other Hardware; Crown Corks, Screw Caps Pilferproof and other Closures; Industrial Components, particularly deep stampings. Manufacturers of Can and Bottle Closing Equipment. Suppliers of Can Reforming and Can and Bottle Closing Equipment manufactured by The Metal Box Company Limited, and Bottling Equipment manufactured by Meyer Liquid Limited.

TOBACCO

A. Abdul Karim & Co.—55, Basin Bridge Road, Madras 21.
Chanta Seshiah.—Pandaparimi, Dist. Guntur.
Chari & Chari Private Ltd.—2,6, Second Line Beach, Madras.
East Asiatic Co. (India) Ltd.—Mercantile Bank Bldg., First Line Beach, Madras.
Garlapati Venkataratnam & Co.—Chilakaluripet, Guntur Dist.
Grahams Trading Co. (India) Ltd.—311, Linghi Chetty Street, Madras.
Guntur Tobacco Ltd., The.—2,6, Second Line Beach, Madras.
Imperial Tobacco Co. of India Ltd.—150-B, Mount Road, Madras 2.
Indian Tobacco Corporation.—2 115, Dr. Guruswami Mudaliar Road, Madras 10.
Kasarapalli Anganeyulu—36, Varada Muthiappan Street, Madras.
Koppuravuri Venkateswarlu—Guntur.
Kotha Subba Rao, —Chilakaluripet, Dist. Guntur.
M. Venkata Kotaiah & Co.—Guntur.
McDowell & Co. Ltd.—2,115, Dr. Guruswami Mudaliar Road, Madras 10.
Rallis India Ltd.—Ralli House, 320, Linghi Chetty Street, Madras 1.
Sait & Rahim Beedi Factory.—50, Perambur High Road, Madras 12.
Spencer & Co., Ltd.—Mount Road, Madras.
Sree Jayalkshmi Tobacco Co.—Tadikonda, Guntur Dist.
Sri Kasiviswesa Tobacco Co.—Guntur.
Tadikonda Ramulu Tobacco Co.—Guntur.

TOILET REQUISITES (IMPORT AND MANUFACTURE)

Gillanders Arbuthnot & Co., Ltd.—First Line Beach, Madras 1.
McDowell & Co., Ltd.—Second Line Beach, Madras 1.
Spencer & Co., Ltd.—Mount Road, Madras 2.
Taylor, T. A., & Co. (Madras) Ltd.—100, Armenian Street, Madras 1.

TOILETRIES

GODREJ, Godrej Soaps Private Ltd.—164, Broadway, Madras.

TOOLS (MACHINE, ELECTRIC AND PNEUMATIC)

Amalgamations Private Ltd.—202, Mount Road, Madras 2.
Bombay Co., Ltd.—169, Broadway, Madras 1.
EAST ASIATIC COMPANY (INDIA) PRIVATE LTD., THE.—Machine & Engineering Dept., Bharat Bldg., Mount Road, Madras 2; Phone : 86021 2; Grams : "MANDARIN". P.O. Box No. 146.
Easun Engineering Co., Ltd.—5/7, Second Line Beach, Madras 1.
General Electric Co. of India Ltd.—Magnet House, Mount Road, Madras 2.
Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras 1.
Guest, Keen, Williams Ltd.—202, Mount Road, Madras 2.
Hassanally, A. M., & Co.—34, Linghi Chetty Street, Madras 1.
Heatly & Greshams Ltd.—United India Bldg., Esplanade, Madras 1.
Larsen & Toubro Ltd —4/5, Club House Rd., Mount Road, Madras 2.
Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras 1.
McDowell & Co., Ltd.—Second Line Beach, Madras 1.
Parry & Co., Ltd.—"Dare House," First Line Beach, Madras 1.
Rallis India Ltd. —Ralli House, 320, Linghi Chetty Street, Madras 1.
Richardson & Cruddas Ltd.— First Line Beach, Madras 1.
Taylor, T. A., & Co. (Madras) Ltd.— 100, Armenian Street, Madras 1.
Voltas Ltd.—115 116, Armenian Street, Madras 1.
William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

TRACTORS, BULLDOZERS, ETC.

Bharat Motors.—35, Mount Road, Madras 2. Phone : 85501. Grams: "BHARATCARS."
Easun Engineering Co., Ltd.—5,7, Second Line Beach, Madras 1.
Gordon Woodroffe & Co. (Madras) Ltd.—1,21, North Beach Road, Madras.
Larsen & Toubro Ltd. —4,5, Club House Road, Mount Road, Madras 2.
Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras 1.
National Engineering Co. (Madras) Ltd., The.—379, Netaji Subhas Chandra Bose Road, Madras 1.
Parry & Co., Ltd.—"Dare House", First Line Beach, Madras 1.
Rallis India Ltd.—Ralli House, 320, Linghi Chetty Street, Madras 1.
Voltas Ltd.— 115,116, Armenian Street, Madras 1.
William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

TRANSFORMERS

ASSOCIATED ELECTRICAL INDUSTRIES (INDIA) PRIVATE LTD.—11 12, First Line Beach, Madras. (See Commercial firms in Madras).

TRAVEL AGENTS

Bharat Travel Service Ltd.—310 311, Linghi Chetty Street, Madras 1.
Cook & Son Ltd., Thos—4,5, First Line Beach, Madras.
Parry & Co., Ltd.—Agents for Cox & Kings (Agents) Ltd.—"Dare House", First Line Beach, Madras.
Ram Mohan & Co., Ltd.—362, Netaji Bose Road, Madras 1.
Sherif Travel and Cargo Service Ltd.—34, Second Line Beach, Madras 1.
South India Export Co., Ltd.—5, Mclean Street, Madras 1.
Spencer & Co., Ltd.—Mount Road, Madras 2.

TURBINES

Associated Electrical Industries (India) Ltd.—11/12, First Line Beach, Madras 1.
Easun Engineering Co., Ltd.—5/7, Second Line Beach, Madras 1.
General Electric Co. of India Ltd.—Magnet House, Mount Road, Madras 2.
Guest, Keen, Williams Ltd.—202, Mount Road, Madras 2.
Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras 1.
Parry & Co., Ltd.—"Dare House", First Line Beach, Madras 1.
Voltas Ltd.—115/116, Armenian Street, Madras 1.
William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

TURBINES (STEAM)

Best & Co., Ltd.—First Line Beach, Madras 1.
Easun Engineering Co., Ltd.—5/7, Second Line Beach, Madras 1
General Electric Co. of India Ltd.—Magnet House, Mount Road Madras 2.
Guest, Keen, Williams, Ltd.—202, Mount Road, Madras 2.
Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras 1.
Rallis India Ltd.—Ralli House, 320, Linghi Chetty Street, Madras
Voltas Ltd.—115/116, Armenian Street, Madras 1.
William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

TWINE AND STRING

Beardsell, W. A., & Co., Ltd.—Second Line Beach, Madras 1.
Binny & Co. (Madras) Ltd.—7, Armenian Street, Madras.
Gillanders Arbuthnot & Co., Ltd.—First Line Beach, Madras 1.
R. Kuppuswamy Chetty & Son.—17, Ramannan Road, Sowcarpet Post, G. T., Madras 1.

TYPEWRITERS

Amalgamations Private Ltd.—202, Mount Road, Madras 2.
Blackwoods (India) Ltd.—2/29, Mount Road, Madras 2.
GODREJ, Godrej & Boyce Mfg. Co., Private Ltd.—177 & 179, Mount Road, Madras.
Latham Abercrombie & Co., Ltd.—330, Thambu Chetty Street, Madras 1.
Rayala Corporation (Madras) Ltd.—"Rayala Bldgs.", 1/155, Mount Road, Madras 2.
Remington Rand of India Ltd.—12/35, Khaleel Mansions, Mount Road, Madras 2.
Typewriters & Office Appliances Co. (India) Ltd.—17, Armenian Street, Madras 1.
Underwood Typewriters.—2,29, Mount Road, Madras 2
Voltas Ltd.—115/116, Armenian Street, Madras 1.

TYRE AND TUBES

Amalgamations Private Ltd.—202, Mount Road, Madras 2
Dunlop Rubber Co. (India) Ltd.—5 & 6/29, Mount Road, Madras
Firestone Tyre & Rubber Co. of India Ltd.—159, Mount Road, Madras 2.
Goodyear Tyre & Rubber Co. of India Ltd.—2, Patullos Road, Madras 2.
India Tyre & Rubber Co. (India) Ltd.—150-B, Mount Road, [illegible]

VEE BELTS

Best & Co., Ltd.—First Line Beach, Madras 1.
Binny & Co. (Madras) Ltd —7, Armenian Street, Madras
Easun Engineering Co., Ltd.—5 7, Second Line Beach, Madras 1.
Gillanders Arbuthnot & Co., Ltd.—First Line Beach, Madras
Greaves Cotton & Co., Ltd.— 19, Second Line Beach, Madras
Kilburn & Co., Ltd.—32/33, Linghi Chetty Street, Madras 1
Roberts, McLean & Co., Ltd.—200, Mount Road, Madras 2
Taylor, T. A., & Co. (Madras) Ltd.—100, Armenian Street, Madras 1
Voltas Ltd.—115/116, Armenian Street, Madras 1

VENTILATING EQUIPMENT

Best & Co., Ltd.—First Line Beach, Madras 1.
General Electric Co. of India Ltd.—Magnet House, Mount Road, Madras 2.
Gordon Woodroffe & Co. (Madras) Ltd.—1,21, North Beach Road, Madras.
Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras 1.
Vernon & Co., Ltd.—36, Second Line Beach, Madras 1.
Voltas Ltd.—115/116, Armenian Street, Madras 1.

WATCH & CLOCK IMPORTERS & DEALERS

Baram & Bros.—22, Linghi Chetty Street, Madras 1.
Carat Watch Co.—4/186, Mount Road, Madras 2.
E. A. Watch Co.—Rattan Bazar, Madras 3
Gani & Sons.—55, Rattan Bazar, Madras 3.
Jalal & Sons.—46, Rattan Bazar, Madras 3.
P. Orr & Sons Ltd.—Mount Road, Madras 2.
R. C. & Co.—107, Netaji Road, Madras 1.

WATERPROOF COMPOUNDS

Amalgamations Private Ltd.—202, Mount Road, Madras 2
Binny & Co. (Madras) Ltd.—7, Armenian Street, Madras 1.
Bombay Co., Ltd.—169, Broadway, Madras.
Gillanders Arbuthnot & Co., Ltd.—First Line Beach, Madras 1.
Heatly & Gresham Ltd.—United India Building, Esplanade, Madras 1
South India Export Co., Ltd.—5, Mclean Street, Madras.
William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.
Wilson & Co.—North Railway Terminus Road, Royapuram, Madras

WATER PURIFICATION PLANT

Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras 1.
Larsen & Toubro Ltd.—4/5, Club House Road, Madras 2.
Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras 1.
South India Export Co., Ltd.—5, Mclean Street, Madras.
William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

WEIGHING MACHINES

Avery Co., Ltd.—16/17, Armenian Street, Madras 1.
Gordon Woodroffe & Co. (Madras) Ltd.—1/21, First Line Beach, Madras 1.
Heatly & Gresham Ltd.—United India Building, Esplanade, Madras 1.
McDowell & Co., Ltd.—Second Line Beach, Madras 1.
Spencer & Co., Ltd.—Mount Road, Madras 2.
Vernon & Co., Ltd.—36, Second Line Beach, Madras 1.

WELDERS (ELECTRIC AND GAS)

ASSOCIATED ELECTRICAL INDUSTRIES (INDIA) PRIVATE LTD.—11 12, First Line Beach, Madras. (See Commercial firms in Madras).

WELDING SETS AND MATERIALS

ASSOCIATED ELECTRICAL INDUSTRIES (INDIA) PRIVATE LTD.—11 12, First Line Beach, Madras. (See Commercial firms in Madras).

EAST ASIATIC COMPANY (INDIA) PRIVATE LTD., THE.—Machine & Engineering Dept., Bharat Bldg., Mount Road, Madras 2; Phone: 86021 2; Grams: "MANDARIN", P.O. Box No. 146.

General Electric Co. of India Ltd.—Magnet House, Mount Road, Madras 2.
Gordon Woodroffe & Co. (Madras) Ltd.—1/21, First Line Beach, Madras 1.
Guest, Keen, Williams, Ltd.—202, Mount Road, Madras 2.
Indian Oxygen & Acetylene Co., Ltd.—7, Vaithianatha Mudali Street, Tondiarpet, Madras 21.
Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras 1.
Rallis India Ltd.—Ralli House, 320, Linghi Chetty Street, Madras 1.
Voltas Ltd.—115/116, Armenian Street, Madras 1.
William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

WINE AND SPIRIT MERCHANTS

Harrisons & Company.—Broadway, Madras 1.
Parry & Co. Ltd.—"Dare House", Madras 1.
Phipson & Co., Ltd.—169, Broadway, Madras 1.
Prince & Company.—40, Raja Annamalai Chettiar Road, Madras 7.
Purshotham & Co. (T.V.).—Mount Road Madras.
Shaw Wallace & Co., Ltd.—8 9, Thambu Chetty Street, Madras 1.
Spencer & Co., Ltd.—1/153 Mount Road, Madras.
Taylor, T.A., & Co. (Madras) Ltd.—100, Armenian Street, Madras 1.
Wilson & Co.—North Railway Terminus Road, Madras 13.

WIRE AND WIRE PRODUCTS

Binny & Co. (Madras) Ltd.—7, Armenian Street, Madras 1.
Bombay Co., Ltd.—169, Broadway, Madras.
Chambers, K. H., Ltd.—Lecots Building, Madras.
Grahams Trading Co. (India) Ltd.—311, Linghi Chetty Street, Madras 1.
Guest, Keen, Williams, Ltd.—202, Mount Road, Madras 1.
Heatly & Gresham Ltd.—United India Building, Esplanade, Madras 1
McDowell & Co., Ltd.—Second Line Beach, Madras.

WOOD WORKING MACHINERY

EAST ASIATIC COMPANY (INDIA) PRIVATE LTD., THE.—Machine & Engineering Dept., Bharat Bldg., Mount Road, Madras 2; Phone: 86021 2; Grams: "MANDARIN"; P.O. Box No. 146.

Easun Engineering Co., Ltd.—Second Line Beach, Madras 1.
Guest, Keen, Williams, Ltd.—202, Mount Road, Madras 2.
Heatly & Gresham Ltd.—United India Building, Esplanade, Madras 1.
Larsen & Toubro Ltd.—4/5, Club House Road, Mount Road, Madras 2.
Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras 1
William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

WOOLLEN PIECE-GOODS (IMPORT)

Beardsell, W. A., & Co., Ltd.—Second Line Beach, Madras 1.
Gordon Woodroffe & Co. (Madras) Ltd.—1/21, North Beach Road, Madras 1.
Grahams Trading Co. (India) Ltd.—311, Linghi Chetty Street, Madras 1.
Rallis India Ltd.—Ralli House, 320, Linghi Chetty Street, Madras 1
Spencer & Co., Ltd.—Mount Road, Madras 1.

WORKSHOP EQUIPMENT

Amalgamations Private Ltd.—202, Mount Road, Madras 2.
East Asiatic Co (India) Ltd.—Mercantile Bank Building, First Line Beach, Madras 1
Easun Engineering Co., Ltd.—Second Line Beach, Madras 1.
Heatly & Gresham Ltd.—United India Building, Esplanade, Madras 1.
Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras 1.
Parry & Co., Ltd.—"Dare House," First Line Beach, Madras 1.
Rallis India Ltd.—Ralli House, 320, Linghi Chetty Street, Madras 1.
South India Export Co., Ltd.—5, Mclean Street, Madras.
Vernon & Co., Ltd.—36, Second Line Beach, Madras 1.
William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

YARN MERCHANTS

Beardsell, W. A., & Co., Ltd.—Second Line Beach, Madras 1.
Best & Co., Ltd.—First Line Beach, Madras 1
Bombay Co., Ltd.—169, Broadway Madras 1
C. Ethirajlah & Co.—60, Mint Street, Madras 3.
Gordon Woodroffe & Co. (Madras) Ltd.—1 21, North Beach Road, Madras 1.
Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras 1.
Louis Dreyfus & Co., Ltd.—99, Armenian Street, Madras 1.
McDowell & Co., Ltd.—Second Line Beach, Madras
Rallis India Ltd.—Ralli House, 320, Linghi Chetty Street, Madras 1.
Taylor, T. A., & Co. (Madras) Ltd.—100, Armenian Street, Madras 1.
V. Alwariah Chetty.—118, Andiappa Naick Street, Madras 1.
Voltas Ltd.—115 116, Armenian Street, Madras 1.
Wilson & Co.—North Railway Terminus Road, Royapuram, Madras.

YARN CONDITIONING AND TESTING MACHINES

Brady, W. H., & Co., Ltd.—154/155, Popham's, Broadway, Madras 1.
Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras 1.
Voltas Ltd.—115/116, Armenian Street, Madras 1.

COMMERCIAL FIRMS

Abdul Wahab Rowther, Vysial Street, Coimbatore. Phone: 473. Grams: "JASMINE."

Acme Textile Auxiliaries, Trichy Road, Coimbatore.

Acme Textile Dyeing & Printing Industries, Mettupalayam Road, Coimbatore.

Addisons & Co. Ltd., Avanashi Road, Coimbatore. Phone: 79A.

All India General Insurance Co., Ltd., Trichy Road, Coimbatore.

Altex Limited, Avanashi Road, Coimbatore.

Argus Engineering Co., Ltd., Peelamedu, Coimbatore. Phone: 210.

Arian Soap Manufacturing Co., 6/43, B. Trichy Road, Coimbatore. Phone: 476.

Arya Vaidya Pharmacy (Coimbatore) Ltd., Trichy Road, Coimbatore.

Asbestos Cement Ltd., Podanur, Coimbatore. Phone: 434A.

Asher Textiles Limited, Tirupur. Phone: 65.

Associated Automobiles Ltd, Avanashi Road, Coimbatore. Phone: 441.

Associated Cement Company Ltd., Madukkarai, Coimbatore. Phone: 36.

Avery Co., Ltd,, Trichy Road, Coimbatore.

Batliboi & Co., Avanashi Road, Coimbatore.

Bhujathi Pencil Factory, Perur, Coimbatore.

Brady & Co., Ltd., W. H., Jail Road, Coimbatore.

British Insulated Callender's Cables Ltd., Race Course Road, Coimbatore.

Broadway Engineering & Transport Co., 5/15, Old Post Office Road, Coimbatore.

Brooke Bond India Ltd., Krishnaswamy Mudaliar Road, P. O Box 28, Coimbatore.

Caltex (India) Ltd., Avanashi Road, Coimbatore.

Carnatic Leather Industries, Big Bazar Street, Coimbatore.

Cement Marketing Co. of India Ltd., Race Course Road, Coimbatore.

Central Pharmacy, 33, St. Michael's Emporium, Big Bazar Street, Coimbatore.

City Camera House, 12/8-9, Variety Hall Road, Coimbatore.

Coimbatore Chemicals & Fertilisers Ltd., Vysial Street, Coimbatore.

Coimbatore Co-operative Printing Press, Imperial Bank Road, Coimbatore.

Coimbatore Machinery & Metal Mart, Fraser Square, Coimbatore.

Coimbatore Mill Stores & General Supplies Co., Avanashi Road, Coimbatore.

Coimbatore Premier Corporation Ltd., 5/34, Avanashi Road, Coimbatore.

Cotton Textiles Ltd., Mal Mill Road, Coimbatore.

Crompton Engineering Co (Madras) Ltd., Arts College Road, Coimbatore.

Crown Leather Works, Nawab Hakeem Road, Coimbatore.

Deccan Fertilisers Co. (Coimbatore) Ltd., Oppanakara Street, Coimbatore.

DHANDAYUTHAPANI FOUNDRY LTD., Manufacturers of "DPF" Centrifugal Pumps, Pappanaickenpalayam, Coimbatore. Phone: 219. Grams: "MOTOR-PUMP."

D. S. V. & Sons, Avanashi Road, Coimbatore.

Eastern Electrical Co., Ltd., Singanallur, Coimbatore.

Electric Printing Works, Variety Hall Road, Coimbatore.

Electrical & General Supply Ltd., Avanashi Road, Coimbatore.

Express Newspapers Ltd. (Branch Office), Variety Hall Road, Coimbatore.

Farm Equipments Ltd., Ganapathy, Coimbatore.

Feroke Timber & Tiles Co., Mettupalayam Road, Coimbatore.

Gannon Dunkerley & Co., Ltd., Cross-cut Road, Coimbatore.

Garlick & Co., Ltd., Cox Street, Coimbatore.

General Electric Co. of India Ltd., "Magnet House," Avanashi Road, Coimbatore.

George Oakes Ltd., Avanashi Road, Coimbatore.

Gordon Woodroffe & Co. (Madras) Ltd., Fraser Square, Coimbatore.

Hardware & Machinery Marketing (India) Co., 5/4, Head Quarters Office Road, Coimbatore.

H. M. Mehta & Co., Cox Street, Coimbatore.

Hollo Block Manufacturing Co., Ltd., Madukkarai, Coimbatore.

India Hume Pipe Co., Ltd., Ranganathapuram, Coimbatore.

India Metal & Alloys, Fraser Square, Coimbatore.

Indian Cashewnuts & Plantations Ltd. (Managing Agents, T. Stanes & Co., Ltd.), Coimbatore (South India).

Indian Overseas Trading Co., Ltd., Power House Road, Coimbatore.

Indra Process Studio, Oppanakara Street, Coimbatore

Industrial Engineering Co., Fraser Square, Coimbatore.

Industrial Engineering Stores, Avanashi Road, Coimbatore.

International Industries & Agencies Ltd., Avanashi Road, Coimbatore.

Jayems Engineering Co., Oppanakara Street, Coimbatore.

Jaya Button Industries Ltd., Cross-cut Road, Coimbatore.

Johar & Sons, Trichy Road, Coimbatore.

Kanji Dwarkadas & Bros., Rangai Gowder Street, Coimbatore.

Kannapiran Corporation Ltd, Mill Road, Coimbatore.

Kasturi Engineers Ltd., Avanashi Road, P.O Box 231 Coimbatore.

Kilachand Devchand & Co., Ltd., Grey Town, Coimbatore.

Kirtilal Kalidas & Co., 230, Raja Street, P. O Box No 32, Coimbatore.

K. Mohamed Ibrahim Rowther, Vysial Street, Coimbatore.

K. P. Castor Oil Works, Sambanda Mudaliar Road, R. S. Puram, Coimbatore.

Kotak & Company, Cotton Merchants, R. S. Puram, Coimbatore. Phone: 401. Grams: "KOTAKANDCO."

L. G. BALAKRISHNAN AND BROS., India House, Trichy Road, Coimbatore.

L. P. Krishnaswamy Naidu & Bros., Fraser Square, Coimbatore.

M. Abdul Salam Bros., Oppanakara Street, Coimbatore.

Madras Trading Corporation, 14/116, Oppanakara Street, Coimbatore.

Manian & Co., E. P. B., 5/34, Avanashi Road, Coimbatore.

Meccano Floorings Ltd., Sirdar Patel Road, Coimbatore.

Mettur Fertilisers Co., Ltd., R. S. Puram, Coimbatore.

Modi & Modi, Police Head Quarters Road, Coimbatore.

Morarji Ramji & Co., 8/8, Cox Street, Coimbatore (South India).

Mouli & Sons, Cross-cut Road, Coimbatore.

M. T. Rajan & Co., Avanashi Road, Coimbatore.

Murugappa & Sons, Cotton Merchants, Raja Street, Coimbatore.

Nagindas Khabhai (South India) Ltd., Cox Street, Coimbatore.

Nanco Rubber & Plastics Ltd., A.T.T. Colony, Coimbatore.

Needlex Industries (India) Ltd., Post Box No. 12, Coimbatore.

N. Mohmed Abdul Kader & Son, Big Bazar Street, Coimbatore.

P. A. Raju Chettiar & Brother, "Swarna Maligai, Big Bazar Street, Coimbatore.

Parry & Co., Ltd., Fraser Square, Coimbatore.

Patel Cotton Co., Ltd., Avanashi Road, Coimbatore.

Pierce Leslie & Co., Ltd., Race Course Road, Coimbatore.

Pioneer Fire & General Insurance Co., Ltd., Jail Road, Coimbatore.

Press Trust of India Ltd., Ansari Street, Coimbatore. Phone: 54.

Prithvi Insurance Co., Ltd., R. S. Puram, Coimbatore.

P. S. G. Industrial Institute, Peelamedu P.O., Coimbatore.

R. HANUMANTHAPPA & SON, Cotton Merchants, R. S. Puram, Coimbatore. Phone: 41; Grams: "HANUMANTAPA"

R. Ramalingaier & Bros., Paper and Board Merchants, Raja Street, Coimbatore. Phone: 411. Grams: "RENGSONS"

Radio House, Radio Sales & Service, Avanashi Road, Coimbatore

Rainbow Dyeing & Bleaching Works, Chinnappa Chetty Street, Coimbatore

Rallis India Ltd, Avanashi Road, Coimbatore.

Ramakrishna Industrial Ltd., Avanashi Road, Coimbatore

Sha Fulchand Parakh, Rangai Gowder Street, Coimbatore.

Sha Harichand Pokaraj, Oppanaka a Street, Coimbatore

Sizing Materials Ltd, Trichy Road, Coimbatore.

South India Corporation (Madras) Ltd, Jail Road, Coimbatore.

Stanes Amalgamated Estates Ltd (Managing Agents: T. Stanes & Co., Ltd., Coimbatore.

Stanes Motors (South India) Ltd. (Managing Agents & Secretaries: T. Stanes & Co., Ltd.), Post Box No 12 Coimbatore

Sterling General Insurance Co. Ltd., Trichy Road, Coimbatore.

St. Joseph's Industrial School & Press, Big Bazar Street, Coimbatore

Subbiah Foundry, Pappanaickenpalayam Coimbatore

Tea Estates India Ltd., Race Course Road, Coimbatore.

Textiles Supplies Syndicate (India) Ltd., Cross-cut Road, Coimbatore.

Textool Company Limited, Ganapathy Post Box 221, Coimbatore.

Tiles and Floorings Ltd., Avanashi Road, Coimbatore.

Titan Paints and Varnish Co., Podanur, Coimbatore.

Uberoi Limited, 8/23, Avanashi Road, Coimbatore.

United Coffee Supply Co., Ltd., Trichy Road, Coimbatore.

United Motors (Coimbatore) Ltd., Avanashi Road, Coimbatore.

United Nilgiri Tea Estates Co., Ltd., The (Managing Agents: T. Stanes & Co., Ltd.), Post Box No. 12, Coimbatore.

United Printers & Publishers (Coimbatore) Ltd., Raja Street, Coimbatore.

Vasanta Mills Limited, Singanallur, Coimbatore.

Vasanta Printing Ink Factory, Trichy Road, Coimbatore.

Vijaya Foundry, Pappanaickenpalayam, Coimbatore.

Voltas Ltd., Race Course Road, Coimbatore.

V. S. Rajagopalan & Co., Avanashi Road, Coimbatore.

V. T. S. Castor Oil Mfg. Co., Ltd., Sastri Road, Ranganathapuram, Coimbatore.

Warden Insurance Co., Ltd., Variety Hall Road, Coimbatore.

CLASSIFIED LIST OF TRADES & PROFESSIONS

AERATED WATER MANUFACTURERS

Asoka Soda Factory.—Big Bazar Street, Coimbatore.
City Soda Factory.—Raja Street, Coimbatore.
Leader & Co.—Nawab Hakeem Road, Coimbatore.
Mani & Co.—Big Bazar Street, Coimbatore.
Union Soda Factory.—Rangai Gowder Street, Coimbatore.
Venkatasa Soda Factory.—Rangai Gowder Street, Coimbatore.
Vincent & Co., Ltd.—Trichy Road, Coimbatore.

AGRICULTURAL IMPLEMENTS MFRS.

Eastern Electrical Co. Ltd.—Singanallur, Coimbatore.
Farm Equipment Ltd.—Ganapathy Post, Coimbatore.
P.S.G. Industrial Institute.—Peelamedu, Coimbatore.
Voltas Ltd.—Race Course Road, Coimbatore.

AIR CONDITIONING & REFRIGERATION

Garlick & Co.—Cox Street, Coimbatore.
New India Air Freezer Corporation.—Oppanakara Street, Coimbatore.
Parry & Co. Ltd.—Fraser Square, Coimbatore.
Refrigeration Engineering Works.—Nawab Hakeem Road, Coimbatore.
Voltas Ltd.—Race Course Road, Coimbatore.

ALUMINIUM WARES

Kaleswarar Stores.—Rangai Gowder Street, Coimbatore.
Kanthaswamy & Co.—Rangai Gowder Street, Coimbatore.
Moorthy Stores.—Rangai Gowder Street, Coimbatore.

ARMS & AMMUNITIONS

Azeemulla Sahib, L. M.—Big Bazar Street, Coimbatore.
Modern Gunsmiths.—Jail Road, Coimbatore.
St Joseph's Armery.—Gandhipuram, Coimbatore.

ARTISTS & SIGN BOARD PAINTERS

Ajanta Publicity.—Rangai Gowder Street, Coimbatore.
Asoga Painters.—Edayar Street, Coimbatore.
Chendi Arts.—Oppanakara Street, Coimbatore.
Gururaj Industries.—Raja Street, Coimbatore.
Kalaikoodam.—Raja Street, Coimbatore.
K P. Works.—Rangai Gowder Street, Coimbatore.
Maniam Arts.—Big Bazar Street, Coimbatore.
S. P. Works.—Variety Hall Road, Coimbatore.
Uma & Company.—Raja Street, Coimbatore.

AUTOMOBILE ENGINEERS

Alweyns Motor Works.—Trichy Road, Coimbatore.
Anthony's Automobiles.—Trichy Road, Coimbatore.
Asoka Auto Service.—Krishnaswamy Mudaliar Road, Coimbatore.
Associated Automobiles Ltd.—Avanashi Road, Coimbatore.
Blumount Auto Service.—Mettupalayam, Coimbatore.
City Transport Ltd.—Avanashi Road, Coimbatore.
Coimbatore Motor-Cycle Works.—Nawab Hakeem Road, Coimbatore.
Francis Motor Works.—Trichy Road, Coimbatore.
General Auto Service.—Trichy Road, Coimbatore.
George Oakes Ltd.—Avanashi Road, Coimbatore.
Gibson's Auto Service.—Mettupalayam, Coimbatore.
India Services (Coimbatore) Ltd.—4/105, Trichy Road, Coimbatore.
Krishna Motor Works.—Avanashi Road, Coimbatore.
L. G. Balakrishnan & Bros.—India House, Trichy Road, Coimbatore.
Mani Motor Cycle Works.—Avanashi Road, Coimbatore.
Marikar (Motors) Ltd.—Avanashi Road, Coimbatore.
Modern Motor Works.—Fraser Square, Coimbatore.
Motors & Services.—Avanashi Road, Coimbatore.
National Motor Works.—Trichy Road, Coimbatore.
Southern Motors.—Trichy Road, Coimbatore.
South India Corporation (Madras) Ltd.—Jail Road, Coimbatore.
Sri Ram Engineering Works.—Crosscut Road, Coimbatore.
Standard Automobiles.—Crosscut Road, Coimbatore.
Stanes Motors (South India) Ltd.—Trichy Road, Coimbatore.
St. Anthony's Motor Cycle Works.—Trichy Road, Coimbatore
United Motors Ltd.—Avanashi Road, Coimbatore.

AUTOMOBILE PARTS & ACCESSORIES

Abdulah Khan.—Mettupalayam Road, Coimbatore.
A. C. B. Automobiles.—Mettupalayam Road, Coimbatore.
Associated Automobiles Ltd.—Avanashi Road, Coimbatore.
Balaram E. Naidu.—Mill Road, Coimbatore.
Central Autoparts & Co.—Avanashi Road, Coimbatore.
Dada Khan Sahib.—Mill Road, Coimbatore.
Gajaraj & Co.—Jail Road, Coimbatore.
George Oakes Ltd.—Avanashi Road, Coimbatore.
Gounder & Co.—Jail Road, Coimbatore.
Industrial Automobiles.—Mettupalayam Road, Coimbatore.
Katteri Automobiles.—Avanashi Road, Coimbatore.
L. G. Balakrishnan & Bros.—India House, Trichy Road, Coimbatore.
Malabar Modern Automobiles.—Avanashi Road, Coimbatore.
Motors & Services.—Avanashi Road, Coimbatore.
Mythili Motors.—Mettupalayam Road, Coimbatore.
Pillay & Co.—Avanashi Road, Coimbatore.
Pioneer Motors.—Old Post Office Road, Coimbatore.
Premier Agencies.—Trichy Road, Coimbatore.
Shining Motors.—Cox Street, Coimbatore.
Sri Ram Industrials.—Tudiyalur, Coimbatore.
Stanes Motors (South India) Ltd.—Trichy Road, Coimbatore.
Sundaram & Co., S. M.—Avanashi Road, Coimbatore.

AUTOMOBILES (CARS, TRUCKS & MOTOR CYCLES)

Addison & Co. Ltd.—Avanashi Road, Coimbatore.
Associated Automobiles Ltd.—Avanashi Road, P. O. Box 128, Coimbatore.
Coimbatore Automobiles.—Avanashi Road, Coimbatore.
Gajaraj & Company.—Jail Road, Coimbatore
George Oakes Ltd.—Avanashi Road, Coimbatore.
Gounder & Co. Ltd.—Jail Road, Coimbatore.
L. G. Balakrishnan & Bros.—India House, Trichy Road, Coimbatore.
Marikar Motors Ltd.—Avanashi Road, Coimbatore.
South India Corporation (Madras) Ltd.—Jail Road, Coimbatore.
Stanes Motors (South India) Ltd.—Trichy Road, Coimbatore.
United Motors Ltd.—Avanashi Road, Coimbatore.

BAKERS & CONFECTIONERS

Ambrosia Biscuit Co.—Trichy Road, Coimbatore.
Ayyer & Co.—Raja Street, Coimbatore.
Babu Confectionery Works.—Vysial Street, Coimbatore.
Bharat Bakery.—Rangai Gowder Street, Coimbatore.
Crown Bakery.—Oppanakara Street, Coimbatore.
Dorairaj Bakery.—Crosscut Road, Coimbatore.
Indra Bakery.—Nawab Hakeem Road, Coimbatore.
J. M. & Sons.—Avanashi Road, Coimbatore.
Jupiter Confectionery Works.—Rangai Gowder Street, Coimbatore.
Krishna Bakery.—Big Bazar Street, Coimbatore.
Leader Confectionery.—Raja Street, Coimbatore.
Lotus Biscuit Factory.—Big Bazar Street, Coimbatore.
Modern Bakery.—Mettupalayam Road, North Coimbatore.
Modern English Bakery.—Big Bazar Street, Coimbatore.
Murugan Bakery.—Thadagam Road, Coimbatore.
New City Bakery & Lodge.—Big Bazar Street, Coimbatore.
Nilgiri Crown Bakery.—Oppanakara Street, Coimbatore.
Perfection Bakery.—Kerala Club Road, Coimbatore.
Regal Bakery.—Mettupalayam Road, Coimbatore.
S. & R. Bakery.—Oppanakara Street, Coimbatore.
Shanmugam Bakery.—Crosscut Road, Coimbatore.
Star Bakery.—Jail Road, Coimbatore.
Sugantha Bakery.—Variety Hall Road, Coimbatore.
Sundaram Biscuit Factory.—Sukrawarpet, Coimbatore.
Venkata Raju Bakery.—Mettupalayam Road, North Coimbatore.

BANGLE MANUFACTURERS

Asoka Stores.—Vysial Street, Coimbatore.
Chandran Store.—Raja Street, Coimbatore.
Chellam Stores.—Edayar Street, Coimbatore.
Shivaji Stores.—Thomas Street, Coimbatore.
Sri Devi Stores.—Raja Street, Coimbatore.
Sri Venkatasware Mart.—Raja Street, Coimbatore.

BANKS

Adhelaksmi Bank Ltd.—Raja Street, Coimbatore.
Annupparpalayam Bank Ltd.—Jail Road, Coimbatore.
Arian Bank.—Rangai Gowder Street, Coimbatore.
Bank of Baroda Ltd.—Big Bazar Street, Coimbatore.
Bank of Bikaner Ltd.—Oppanakara Street, Coimbatore.
Bank of India Ltd.—Head Post Office Road, Coimbatore.
Bank of Jaipur Ltd.—Oppanakara Street, Coimbatore.
Bank of Madura Ltd.—Oppanakara Street, Coimbatore.
Bank of Mysore Ltd.—Oppanakara Street, Coimbatore.
Canara Banking Corporation Ltd.—Oppanakara Street, Coimbatore.
Canara Bank Ltd.—Edayar Street, Coimbatore.
Canara Industrial & Banking Syndicate Ltd.—Oppanakara Street, Coimbatore.
Central Bank of India Ltd.—Variety Hall Road, Coimbatore.
Chaldeau Syrian Bank.—Raja Street, Coimbatore.
City Co-operative Bank Ltd.—Gopalapuram, Coimbatore.
Coimbatore Bank Ltd.—Raja Street, Coimbatore.
Coimbatore Bhaghyalakshmi Bank Ltd.—Oppanakara Street, Coimbatore.
Coimbatore Commerce Bank.—Union High School Road, Coimbatore.
Coimbatore Co-operative House Mortgage Bank Ltd.—Jail Road, Coimbatore.
Coimbatore Co-operative Stores & Bank Ltd.—Sullivan Street, Coimbatore.
Coimbatore District Co-operative Central Bank Ltd.—State Bank Road, Coimbatore.
Coimbatore Ganeshar Bank Ltd.—Jail Road, Coimbatore.
Coimbatore Hindu Kripakara Nidhi Ltd.—Oppanakara Street, Coimbatore.
Coimbatore Janopkara Bank Ltd.—Vysial Street, Coimbatore.
Coimbatore National Bank Ltd.—Variety Hall Road, Coimbatore.
Coimbatore Standard Bank Ltd.—R. S. Puram, Coimbatore.
Coimbatore Town Bank Ltd.—Rangai Gowder Street, Coimbatore.
Coimbatore Varthaka Virdhi Bank Ltd.—Rangai Gowder Street, Coimbatore.
Coimbatore Vasunthara Bank Ltd.—Raja Street, Coimbatore.
Dravya Sahaya Bank Ltd.—Oppanakara Street, Coimbatore.
Indian Bank Ltd.—Variety Hall Road, Coimbatore.
Indian Overseas Bank Ltd.—Oppanakara Street, Coimbatore.
Indo Commercial Bank Ltd.—Oppanakara Street, Coimbatore.
Indo Mercantile Bank Ltd.—Edayar Street, Coimbatore.
Janasahaya Bank Ltd.—Nawab Hakeem Road, Coimbatore.
Kamalalaya Bank.—Raja Street, Coimbatore.
Karpaga Nidhi Ltd.—Devangapet, Coimbatore.
Karur Vysia Bank Ltd.—Oppanakara Street, Coimbatore.
Madras City Bank Ltd.—Oppanakara Street, Coimbatore.
Mannar Bank Ltd.—Thomas Street, Coimbatore.
Melarcode Bank Ltd.—Variety Hall Road, Coimbatore.
Modern Bank Ltd.—Oppanakara Street, Coimbatore.
Nedungadi Bank Ltd.—Oppanakara Street, Coimbatore.
New India Bank Ltd.—Vysial Street, Coimbatore.
Peelamedu Co-operative Land Mortgage Bank Ltd.—Avanashi Road, Coimbatore.
Punjab National Bank Ltd.—Oppanakara Street, Coimbatore.
South Indian Bank Ltd.—Raja Street, Coimbatore.
Srinivasperumal Bank Ltd.—Crosscut Road, Coimbatore.
State Bank of India.—State Bank Road, Coimbatore.
Thocos Bank Ltd.—Raja Street, Coimbatore.
Travancore Bank Ltd.—Oppanakara Street, Coimbatore.
Travancore Forward Bank Ltd.—Oppanakara Street, Coimbatore.
United Commercial Bank Ltd.—Oppanakara Street, Coimbatore.

BEEDI FACTORIES

Adu Mark Beedi Co.—Raja Street, Coimbatore.
Bharathakodi Beedi Factory.—Rangai Gowder Street, Coimbatore.
C.M.S. Beedi Factory.—Variety Hall, Coimbatore.
C.R.G. Beedi Factory.—Nawab Hakeem Road, Coimbatore.
Double Key Beedi Co.—Nawab Hakeem Road, Coimbatore.
Kairali Beedi Co.—Rangai Gowder Road, Coimbatore.
Kodi Majeeth Beedi Factory.—Nanjundapuram, Coimbatore.
Majeed Beedi Co.—Oppanakara Street, Coimbatore.
Mani Mark Majeed Beedi Co.—Nawab Hakeem Road, Coimbatore.
R.M.S. Beedi Co.—Variety Hall Road, Coimbatore.
Star Mark Gowder Beedi Factory.—Nawab Hakeem Road, Coimbatore.

BLOCKS (PROCESS) & RUBBER STAMP MAKERS

Amboji & Co.—Edayar Street, Coimbatore.
Indra Process Studio.—Oppanakara Street, Coimbatore.
M. P. Samy & Co.—Raja Street, Coimbatore.
Nathan & Co., M. S.—Big Bazar Street, Coimbatore.
Samy & Brothers, C. A.—Raja Street, Coimbatore.
Siva & Co.—Raja Street, Coimbatore.

BOOK BINDING WORKS

Asoka Book Binding Works.—Thomas Street, Coimbatore.
K. V. Ponisese & Son.—Raja Street, Coimbatore.
Manickam Book Binding Works.—Elayar Street, Coimbatore.
Sree Samundeeswari Binding Works.—Raja Street, Coimbatore.

BOOKSELLERS & STATIONERS

Balu Book Stall.—Crosscut Road, Coimbatore.
Bettai Gowder K.O.—Raja Street, Coimbatore.
Chelliah Stores.—Crosscut Road, Coimbatore.
Christian Book Shop.—Avanashi Road, Coimbatore.
Coimbatore Sakthi Kariyalayam.—Variety Hall Road, Coimbatore.
Dinamani Stores.—General Merchants, News Agents & Books Ltd.—Near U.M.S., Coimbatore.
Egyptian Stationery.—Raja Street, Coimbatore.
Hindustan Traders.—Raja Street, Coimbatore.
Kavignar Padippakam.—Raja Street, Coimbatore.
Nanjappa & Co.—Raja Street, Coimbatore.
Natarajan C. R. & Sons.—Big Bazar Street, Coimbatore.
Popular Hindustan Publication.—Old Post Office Road, Coimbatore.
Reliance General Stores.—Variety Hall Road, Coimbatore.
Tamil Nadu Book Sellers.—Raja Street, Coimbatore.
Vasantham Stores.—General Merchants, News Agents and Book sellers, Crosscut Road, Coimbatore.

BOOT & SHOE-MAKERS & DEALERS

Bata Shoe Store.—Avanashi Road, Coimbatore.
Batcha Shoe Mart.—Big Bazar Street, Coimbatore.
Ceylon Shoe Mart.—Big Bazar Street, Coimbatore
General Foot Wear, Big Bazar Street, Coimbatore.
Imperial Foot Wear House, Big Bazar Street, Coimbatore
Kohinoor Foot Wear House.—Big Bazar Street, Coimbatore
Modern Foot Wear House.—Crosscut Road, Coimbatore
National Shoe Mart.—Big Bazar Street, Coimbatore.
Raju Foot Wear.—Big Bazar Street, Coimbatore
Rangaraju Naidu, C.—Crosscut Road, Coimbatore
Royal Foot Wear House.—Big Bazar Street, Coimbatore
Standard Foot Wear House.—Big Bazar Street, Coimbatore.
V. K. Shoe Co.—Avanashi Road, Coimbatore.
White Hall Foot Wear & General House.—Trichy Road, Coimbatore

BROKERS (STOCKS & SHARES)

Chellam & Co.—Big Bazar Street, Coimbatore.
Coimbatore Brokers.—Raja Street, Coimbatore.
Goel Bros. & Co.—Raja Street, Coimbatore.
Gowri & Co.—Oppanakara Street, Coimbatore.
Kannappa Chettiar P. L.—Oppanakara Street, Coimbatore.

BUILDERS, ENGINEERS & CONTRACTORS

C. K. Krishna Boyan.—Srinivasapuram, Coimbatore.
Gannon Dunkerley & Co. Ltd.—Crosscut Road, Coimbatore.
G. S. Gangadharam.—Oppanakara Street, Coimbatore.
H. S. Singh.—R. S. Puram, Coimbatore.
Industrial Construction Co. Ltd.—Mettupalayam, Coimbatore.
Johar & Sons.—Trichy Road, Coimbatore.
Kanniah Prasad B.—Sama Rao Street, Coimbatore.
N. Narayanaswamy Naidu.—Muthannankulam Road, Coimbatore.
R. Krishnaswami.—Subramaniam Road, R. S. Puram, Coimbatore.
R. Krishnaswami.—Jail Road, Coimbatore.

BUTTON FACTORIES

The Jaga Button Industries Ltd.—Mettupalayam Road, Post Bag No. 519, Coimbatore.
Jaga Button Industries Ltd.—Crosscut Road, Coimbatore.
Praga Industries Ltd.—Krishnarajapuram, Coimbatore.
Vijaya Industries.—Peelamedu, Coimbatore.

CASTOR OIL MANUFACTURERS

K. P. Castor Oil Works.—Sambanda Mudliar Road, R. S. Puram, Coimbatore.
Radha Castor Oil Works.—Sukrawarpet, Coimbatore.
V. T. S. Castor Oil Manufacturing Co. Ltd.—Rt. Hon'ble Sastri Road, Ranganathpuram, Coimbatore.

CEMENT COMPANIES

Associated Cement Co. Ltd.—Madukkaral, Coimbatore.
Asbestos Cement Ltd.—Podanur, Coimbatore.
Cement Marketing Co. of India Ltd. —Race Course Road, Coimbatore.
Dalmia Cement.—Oppanakara Street, Coimbatore.
India Cements Ltd.—Mettupalayam Road, Coimbatore.
Pankajam & Co.—Avanashi Road, Coimbatore.
Rajamanickam A.—Avanashi Road, Coimbatore.
Srinivasan & Co.—Krishnaswamy Mudaliar Street, Coimbatore.
Sundaram & Co.—Oppanakara Street, Coimbatore.

CENTRIFUGAL PUMPS MANUFACTURERS

Dhandayuthapani Foundry Private Ltd —Pappanaickenpalayam, Coimbatore
Eastern Electrical Co. Ltd.—Singanallur, Coimbatore.
Farm Equipments Ltd. —Ganapathy P.O., Coimbatore.
General Engineering Co.—Sardar Patel Road, Ranganathapuram, Coimbatore.
Murugan Foundry.—Jail Road, Coimbatore.
P.S.G. Industrial Institute. —Peelamedu, Coimbatore.

Telegrams : 'IMPELLER' Telephone : 246A

RAMU FOUNDRY

Pappanaickenpalayam • Coimbatore.

Sales branch :

35, 37, Thambu Chetty Street, Madras.

Manufacturers of :

'RMF' pumpsets, sugarcane crushers, oil engine spare parts, agricultural implements, P 6 & P 4 Perkins Diesel Engine conversion kits and Meadows Engine conversion parts.

Sri Krishna Foundry.—Mettupalayam Road, Coimbatore.
Sri Ram Industrials.—Tudiyalur P.O., Coimbatore.

Telephone : 525 Telegrams: "FOUNDRY"

SUBBIAH FOUNDRY

Manufacturers of :

S. F. Type Centrifugal Pumps, Motor Unit Pumpsets, Sugarcane Crushers and Gate Valves.

Avanashi Road, Pappanaickenpalayam, COIMBATORE

Vijaya Foundry.—Pappanaickenpalayam, Coimbatore.

CHEMISTS & DRUGGISTS

All Medical Stores. —Big Bazar Street, Coimbatore.
Ambrose, S.—Cox Street, Coimbatore.
Aryavaidya Pharmacy.—Trichy Road, Coimbatore.
Ayurvedic Medical Shop.—Variety Hall Road, Coimbatore.
Central Pharmacy, The.—33, St. Michael's Emporium, Big Bazar Street, Coimbatore.
City Pharmacy, Avanashi Road, Coimbatore.
Dasai Gowder & Co.—Avanashi Road, Coimbatore.
D. S. V. & Sons.—Estd. 1923. Avanashi Road, Coimbatore.
Easwar Medical Shop.—Raja Street, Coimbatore.
English Pharmacy. —Raja Street, Coimbatore.
European General Stores.—Imperial Bank Road, Coimbatore
Gurunath Medical Stores.—Nawab Hakeem Road, Coimbatore
Hameed Medical Stores.—Big Bazar Street, Coimbatore.
Jaya Pharmacy.—Oppanakara Street, Coimbatore
Kanchana Medical Store.—Rangai Gowder Street, Coimbatore.
Kasinath & Co.—Big Bazar Street, Coimbatore
Kerala Aryavaidya Pharmacy.—Oppanakara Street, Coimbatore.
Kerala Medical Stores.—Rangai Gowder Street, Coimbatore
K.P.M. Sadhu Vaidyasala.—Variety Hall Road, Coimbatore.
Krishnaswami & Co.—Raja Street, Coimbatore
Manian & Co., E. P. B.—Avanashi Road, Coimbatore
Modern Medical & General Stores.—Big Bazar Street, Coimbatore
National Pharmacy —Oppanakara Street, Coimbatore.
Paul & Co., V. J. Nawab Hakeem Road, Coimbatore.
Ramdas Pharmacy.—Crosscut Road, Coimbatore.
Ramnath & Co.— Imperial Bank Road, Coimbatore.
Saraswathi Medical Stores —Edayar Street, Coimbatore.
Saroja Medical & General Stores - Raja Street, Coimbatore.
Shivaji Medical Hall. Imperial Bank Road, Coimbatore.
South India Medical Stores Oppanakara Street, Coimbatore.
South India Medical Co Ltd —Big Bazar Street, Coimbatore.
Star Drug Co. —Raja Street, Coimbatore
Subramanian & Co —Raja Street, Coimbatore.
Thambi & Co - Ukkadam, Coimbatore
Thomson Medical & General Stores Raja Street, Coimbatore.
United Concerns.—Thomas Street, Coimbatore
Vasan & Co —Rangai Gowder Street, Coimbatore.
Veda & Co East Arogyasamy Road, Coimbatore
Wilfred Pereira Ltd.—Avanashi Road, Coimbatore.

CINEMAS

Ashok Talkies. R S Puram, Coimbatore
Carnatic Talkies Big Bazar Street, Coimbatore
Diamond Talkies Avanashi Road Coimbatore.
Palace Talkies —Nawab Hakeem Road Coimbatore
Rainbow Theatres - Trichy Road, Coimbatore.
Raja Theatres - Nawab Hakeem Road Coimbatore
Shanmugha Theatres Mettupalayam Road, Coimbatore
Srinivas Talkies - Krishnaswamy Mudaliar Road, Coimbatore.
Swami Theatres - Variety Hall Road, Coimbatore.
Theatre Royal - Big Bazar Street, Coimbatore
Variety Hall Talkies Variety Hall Road, Coimbatore.

COFFEE & TEA MERCHANTS

Achutha Coffee Manufacturing Co Raja Street, Coimbatore.
Ambrosia Tea Emporium. -Trichy Road, Coimbatore
Anandha Coffee Works. —Rangai Gowder Street, Coimbatore.
Anandha Tea Emporium —Trichy Road, Coimbatore.
Bhavani Tea Products Ltd —R. S. Puram, Coimbatore.
Devarshola Tea Company Ltd. —Race Course Road, Coimbatore.
Devi Tea Products.—Rangai Gowder Street, Coimbatore
Dibru Darring Tea Co. Ltd.—Palingrove Road, Coimbatore
Famous Coffee & Tea Works.—Rangai Gowder Street, Coimbatore.
Gita Coffee Works. Oppanakara Street, Coimbatore.
Indian Coffee Supply Co.—Big Bazar Street, Coimbatore.
Indra Coffee Works.—Union High School Road, Coimbatore.
Iyer, Nadar & Co. —Variety Hall Road, Coimbatore.
Jain's Coffee Works.—Oppanakara Street, Coimbatore.
Kamala Coffee Works.—Rangai Gowder Street, Coimbatore.
Kannan Coffee Trading Co. Ltd. —Rangai Gowder Street, Coimbatore.
Lakshmi Coffee Co.—Raja Street, Coimbatore.
Lion Brand Coffee Co —Raja Street, Coimbatore.
Lipton Tea Ltd.—Edayar Street, Coimbatore.
Madras Tea Estates.—Race Course Road, Coimbatore.
Meera Coffee Works.—Rangai Gowder Street, Coimbatore.
Mysore Lachia Setty & Sons Ltd.—Raja Street, Coimbatore.
Nanjappa Gowder R.—Okkilias Street, Coimbatore.
Narasus Coffee Manufacturing Co.—Rangai Gowder Street, Coimbatore.
Narayan & Co.—Raja Street, Coimbatore.
Nathan Coffee Works.—Variety Hall Road, Coimbatore.
Neelamalai Coffee Estates.—Gandhi Puram, Coimbatore.
Radha's Coffee Manufacturing Co.—Rangai Gowder Street, Coimbatore.
Ramu's Coffee Works.—Rangai Gowder Street, Coimbatore.

Ratna Coffee Works.—R. S. Puram, Coimbatore.
Saraswathi Coffee Trading Co.—Rangai Gowder Street, Coimbatore.
Sri Shanmugha Coffee Works.—Crosscut Road, Coimbatore.
Stanes Amalgamated Tea Estates.—Race Course Road, Coimbatore.
Star Coffee Works.—Rangai Gowder Street, Coimbatore.
Tea Estates India Ltd.—Race Course Road, Coimbatore.
Thioshola Tea Co.—Race Course Road, Coimbatore.
Thomco Tea Ltd.—Jail Road, Coimbatore.
Union Coffee Supply Co.—Coimbatore.
United Coffee Supply Co.—Trichy Road, Coimbatore.
United Nilgiris Tea Estates.—Race Course Road, Coimbatore.
Vishnu Coffee Works.—Rangai Gowder Street, Coimbatore.

COTTON MERCHANTS

A. G. Gurusawmy Naidu & Sons.—Avanashi Road, Coimbatore.
Ahmad Abdul Sakoor.—Raja Street, Coimbatore.
Bachhraj Factories Ltd.—Nawab Hakeem Road, Coimbatore.
Bell & Co.—Grey Town, Coimbatore.
Champaklal & Co.—R. S. Puram, Coimbatore.
Consolidated Cotton Corporation.—Rangai Gowder Street, Coimbatore.
Dhanji Dwarkadas & Bros.—Rangai Gowder Street, Coimbatore.
Ganesar Ginning Co. Ltd.—Ganapathy, Coimbatore.
Hanumanthappa & Sons.—R. S. Puram, Coimbatore.
H. M. Mehta & Co.—Cox Street, Coimbatore.
Indira & Co.—Big Bazar Street, Coimbatore.
Jairam & Co.—Syrian Church Road, Coimbatore.
Jeramdas Nanmal.—Subramanya Mudaliar Street, Coimbatore.
Jothi & Co.—R. S. Puram, Coimbatore.
Kandaswamy Gounder & Co., E. R.—Ponnurangam Road, Coimbatore.
Kanji Waigi.—B. K. Chetty Street, Coimbatore.
Kilachand Devchand & Co.—Grey Town, Coimbatore.
Kotak & Co.—R. S. Puram, Coimbatore.
Krishna Ginning Factory.—Pappanaickenpalayam, Coimbatore.
Kurjee Dhanjee.—Syrian Church Road, Coimbatore.
Murugappa & Sons.—Raja Street, Coimbatore.
Narayana Ginning Factory.—Pappanaickenpalayam, Coimbatore.
Narsee Nagsee & Co.—R. S. Puram, Coimbatore.
Naryandas Gokuldas.—Oppanakara Street, Coimbatore.
Pannalal Rajkumar & Co.—R. S. Puram, Coimbatore.
Patel Cotton Co. Ltd.—Avanashi Road, Coimbatore.
Rallis (India) Ltd.—Avanashi Road, Coimbatore.
Sethna, H. B.—Syrian Church Road, Coimbatore.
Thulsidas Murarjee.—Vysial Street, Coimbatore.
T. K. Chinnaswamy Naidu.—Avanashi Road, Coimbatore.
Valjee Kanjee & Co.—Oppanakara Street, Coimbatore.
Vijayakumar Mercantile Corporation.—R. S. Puram, Coimbatore.
Voltas Ltd.—Race Course Road, Coimbatore.
Vyas & Co.—Jail Road, Coimbatore.
Waterfield & Co.—Edayar Street, Coimbatore.
Yagappa Chettiar, M. Y.—West Sambandam Road, Coimbatore.

COTTON MILLS

Cambodia Mills Ltd.—Ondipudur, Coimbatore.
Coimbatore Cotton Mills Ltd.—Singanallur, Coimbatore.
Coimbatore Kamala Mills Ltd.—Uppilipalayam, Coimbatore.
Coimbatore Murugan Mills Ltd.—Mettupalayam Road, Coimbatore.
Coimbatore Pioneer Mills Ltd.—Peelamedu, Coimbatore.
Coimbatore Spinning & Weaving Co. Ltd.—Coimbatore.
Gyanambikai Mills Ltd.—Coimbatore.
Janardana Mills Ltd.—Uppilipalayam, Singanallur, Coimbatore.
Jayalakshmi Mills Ltd.—Singanallur, Coimbatore.
Jothi Mills.—Periyanaickenpalayam, Coimbatore.
Kadri Mills (C.B.E.), Ltd.—Oddarpalayam, Singanallur, Coimbatore.
Kaleeswarar Mills Ltd.—Coimbatore.
Kasthuri Mills Ltd.—Singanallur, Coimbatore.
Kothar Textiles Ltd.—Singanallur, Coimbatore.
Kumaran Mills Ltd.—Pudupalayam, Coimbatore.
Lakshmi Mills Co. Ltd.—Pappanaickenpalayam, Coimbatore.
Lotus Mills Ltd.—Sundarapuram, Coimbatore.
Pankaja Mills Ltd.—Coimbatore.
Radhakrishna Mills Ltd.—Peelamedu, Coimbatore.
Rajalakshmi Mills Ltd.—Uppilipalayam, Singanallur P.O., Coimbatore.
Saroja Mills Ltd.—Singanallur Post, Coimbatore.
Sivananda Mills Ltd.—Sravanampatti, Coimbatore.
Somasundaram Mills Ltd.—Coimbatore.
Sri Bala Subramania Mills Ltd.—Singanallur, Coimbatore.
Sri Kannabiran Mills Ltd.—Sowripalayam, Coimbatore.
Sri Karthikeya Spinning & Weaving Mills Ltd.—Singanallur, Coimbatore.
Sri Palamalai Ranganather Mills Ltd.—Periyanaickenpalayam, Coimbatore.
Sri Ramkrishna Mills Ltd.—Ganapathy, Coimbatore.
Sri Rangavilas Ginning, Spinning & Weaving Mills Ltd.—Peelamedu, Coimbatore.
Sri Sarda Mills Ltd.—Loganathapuram, Podanur, Coimbatore.
Varadaraja Textiles Ltd.—Peelamedu, Coimbatore.
Vasanta Mills Ltd.—Singanallur, Coimbatore.
Vijaya Lakshmi Mills Ltd.—Kuniamuthur, Coimbatore.

COTTON SEED & OIL CAKES

Kana Kasalam, V. K.—Vysial Street, Coimbatore.
Kandhan Corporation.—Vysial Street, Coimbatore.
Kanlakshi Corporation.—Thadagam Road, Coimbatore.
Kumaraswamy Mudalia & Sons, K.—Oppanakarar Street, Coimbatore.
Murugesan, P.—Rangai Gowder Street, Coimbatore.
Santhu Mohamed Rowther.—Rangai Gowder Street, Coimbatore
Shunmugham C.—Avanashi Road, Coimbatore.
Sri Jagannatha Ginning & Oil Mills.—Siddhapur, Coimbatore.
Sri Venkatesa Ginning & Oil Mills.—Siddhapur, Coimbatore
Vellingiri Mudaliar, P.—Sukrawarpet, Coimbatore.

CYCLE DEALERS, MANUFACTURERS & IMPORTERS

Asoka Cycle Mart.—Variety Hall Road, Coimbatore.
Babulal & Sons.—Variety Hall Road, Coimbatore.
Bharath Cycle Stores.—Variety Hall Road, Coimbatore.
Easwar Cycle Stores.—Oppanakara Street, Coimbatore.
Gowder Cycle Mart.—Variety Hall Road, Coimbatore.
Gujarat Cycle Trading Co.—Oppanakara Street, Coimbatore.
International Cycle Emporium.—Variety Hall Road, Coimbatore.
Jupiter Cycle Mart.—Big Bazar Street, Coimbatore.
Lakkiah Cycle Mart.—Variety Hall Road, Coimbatore.
Presidency Cycle Importing Co.—Variety Hall Road, Coimbatore.
Raja & Co.—Avanashi Road, Coimbatore.
Standard Cycle Importing Co.—Variety Hall Road, Coimbatore
Universal Cycle Mart.—Variety Hall Road, Coimbatore.
Variety Cycle Stores.—Oppanakara Street, Coimbatore.

DYEING & BLEACHING COMPANIES

Acme Textile Dyeing & Printing Industries. Mettupalayam, Coimbatore.
Ananda Saya Salai—Edayar Street, Coimbatore
Balasubramaniam Dyeing & Trading Corp.—Rangai Gowder Street, Coimbatore.
Esorpe Saya Salai—Rangai Gowder Street, Coimbatore
Madurai Mahalakshmi Saya Salai—Rangai Gowder Street, Coimbatore.
Malli Saya Salai.—Rangai Gowder Street, Coimbatore
Nilamegam Saya Salai.—Sukrawarpet, Coimbatore
Rainbow Dyeing & Bleaching Works.—Chinnaya Chetty Street, Coimbatore.
Saraswathy Saya Salai—Rangai Gowder Street, Coimbatore

DYESTUFF & CHEMICAL DEALERS

Acme Textile Distributors.—Venkataswamy Road, R. S. Puram, Coimbatore.
Doraiswamy,—P. M.—Rangai Gowder Street, Coimbatore.
Pattabiraman, T. K.—Rangai Gowder Street, Coimbatore.
Srinivasa Charlu & Co., M.—Rangai Gowder Street, Coimbatore
Subburaju, R.—Sukrawarpet, Coimbatore.
Vasan & Co., S.—Rangai Gowder Street, Coimbatore.

ELECTRICAL GOODS & APPLIANCES (IMPORTERS & STOCKISTS)

Associated Electrical Industries (India) Ltd.—Race Course Road, Coimbatore.
Batliboi & Company.—Avanashi Road, Coimbatore.
British Insulated Callender's Cables Ltd.—Race Course Road, Coimbatore.
Broadway Engineering & Transport Co.—Old Post Office Road Coimbatore.
Coimbatore Electric & Novelty Stores.—Oppanakara Street, Coimbatore.
Crompton Engineering Co. (Madras) Ltd.—Arts College Road, Coimbatore.
Eastern Electrical Co. Ltd.—Police H.Q. Office Road, Coimbatore
Electrical & General Supply Ltd.—Avanashi Road, Coimbatore.
General Electric Co. of India Ltd.—Magnet House, Coimbatore.
Industrial Engineering Co.—Fraser Square, Coimbatore.
Jwala Singh & Sons.—Avanashi Road, Coimbatore.
Modi & Modi.—Police H.Q. Road, Coimbatore.
Nagindas Khabhai (S. India) Ltd.—Cox Street, Coimbatore.
Pioneer Electricals.—Raja Street, Coimbatore.
Prabha Electricals.—Oppanakara Street, Coimbatore.

Radhakrishna & Co.—Avanashi Road, Coimbatore.
Ramakrishna & Co.—Avanashi Road, Coimbatore.
Ramu N. & Bros.—Avanashi Road, Coimbatore.
United Electric Corporation.—Nawab Hakeem Road, Coimbatore.

ENGINEERING WORKS

Arrow Industrial Works.—Krishnasami Mudaliar Road, Coimbatore.
Dhanalakshmi Foundry.—Mettupalayam Road, Coimbatore.
Everest Engineering Works.—Crosscut Road, Coimbatore.
Farm Industries.—Perianaickenpalayam, Coimbatore.
Kasturi Engineers Ltd., The—Engineers & Founders, P.O. Box 231, Coimbatore. Phone : 214.
Nirmala Engineering Works.—Krishnaswamy Mudaliar Road, Coimbatore.
P.N.R. Engineering Works.—Big Bazar Street, Coimbatore.
Simon Electrical Works.—Fraser Square, Coimbatore.
Sivananda Metal Works.—Mill Road, Coimbatore.
Sreevatsa Engineering & Trading Co.—Sirdar Patel Road, Coimbatore.
Star Electric Plating Works.—Variety Hall Road, Coimbatore.
Vasa Engineering Industries.—Krishnaswami Mudaliar Road, Coimbatore.
Wilson Electric Works.—Palmgrove Road, Coimbatore.

FERTILISERS

Coimbatore Chemicals & Fertilisers Ltd.—Vysial Street, Coimbatore.
Deccan Fertiliser Co. (Coimbatore) Ltd.—Oppanakara Street, Coimbatore.
Kamadhenu Fertilisers.—Oppanakara Street, Coimbatore.
Mettur Fertiliser Co. Ltd.—R. S. Puram, Coimbatore.
Parry & Co., Ltd.—Fraser Square, Coimbatore.
Radhakrishnan, C.N.—Vysial Street, Coimbatore.
Scientific Fertiliser Co. Ltd.—R. S. Puram, Coimbatore.
Stanes & Co., T.—Tudialur, Coimbatore.

FILM DISTRIBUTORS & PRODUCERS

Ananda Films.—Imperial Bank Road, Coimbatore.
Coimbatore Pictures Ltd. Jail Road, Coimbatore.
Devi Films.—Oppanakara Street, Coimbatore.
Favorite Pictures.—Variety Hall Road, Coimbatore.
Forward Art Films.—Coimbatore.
Jewel Picture Circuit.—Big Bazar Street, Coimbatore.
Kamadhenu Films.—Variety Hall Road, Coimbatore.
Kandan & Co.—Edayar Street, Coimbatore.
Karur Jai Hind Pictures.—Gopalapuram, Coimbatore.
Lakshmi Pictures.—Edayar Street, Coimbatore.
Majeed Pictures.—Oppanakara Street, Coimbatore.
Narayanan & Co. Ltd.—Trichy Road, Coimbatore.
Rani Pictures.—Tatabad, Coimbatore.

FURNITURE MANUFACTURERS & DEALERS

Amir Furniture Hall.—Palm-grove Road, Coimbatore.
Appa Furniture Hall.—Variety Hall Road, Coimbatore.
Devasy & Sons, M.P.—Variety Hall Road, Coimbatore.
General Suppliers & Agencies.—Variety Hall Road, Coimbatore.
Joseph Furniture Hall.—Variety Hall Road, Coimbatore.
Jupiter Furniture Works.—Power House Road, Coimbatore.
P V S. Furniture Hall.—Avanashi Road, Coimbatore.
Paul & Co.—Variety Hall Road, Coimbatore.
Sebastian & Bros., M.P.—Variety Hall Road, Coimbatore.
St. Joseph's Industrial School & Press.—Big Bazar Street, Coimbatore.
St. Mary's Sofa Works.—Trichy Road, Coimbatore.
Sunrise Furniture Service.—Power House Road, Coimbatore.

GINNING & OIL MILLS

Gururaja Ginning & Oil Mills Ltd.—Avanashi Road, Coimbatore.
Ramasamy & Co., G.—Avanashi Road, Coimbatore.
Sri Jagannatha Ginning & Oil Mills.—Siddhapur, Coimbatore.
Sri Krishna Ginning Factory.—Avanashi Road, Coimbatore.
Sri Narayana Ginning Factory.—Avanashi Road, Coimbatore.
Sri Ranga Vilas Ginning & Oil Mills.—Avanashi Road, Coimbatore.
Sri Venkatesa Ginning & Oil Mills.—Sidhapudur, Coimbatore.
Venkatapathy & Co., G. N.—Avanashi Road, Coimbatore.
Vijaykumar Ginning Factory.—Avanashi Road, Coimbatore.

GLASS MERCHANTS

Amir Sahib.—Nawab Hakeem Road, Coimbatore.
Art Cottage.—Nawab Hakeem Road, Coimbatore.
Balages Frame Works.—Variety Hall Road, Coimbatore.
Chikkiah Gowder Sons, M.—Big Bazar Street, Coimbatore.
Murugiah Gowder Sons, S.—Big Bazar Street, Coimbatore.
Palaniswamy, M.S.—Raja Street, Coimbatore.
Raju Naidu Sons, N.—Oppanakara Street, Coimbatore.
Selvam Picture Framing Works.—Crosscut Road, Coimbatore.
Sitharam & Co.—Rangai Gowder Street, Coimbatore.
Sri Ramkrishna Mart.—Raja Street, Coimbatore.

GRAIN MERCHANTS

Chockalingam Chettiar Sons, A.R.—Raja Street, Coimbatore.
Coimbatore Central Co-operative Stores Ltd.—Mettupalayam Road, Coimbatore.
Co-operative Stores & Bank Ltd.—Sullivan Street, Coimbatore.
Damodar & Co.—Avanashi Road, Coimbatore.
Lakshmana Iyer & Bros., P.N.—Big Bazar Street, Coimbatore.
Lilaram Shewaram (India) Ltd.—Raja Street, Coimbatore.
Narayana Rao & Bros. S.—Rangai Gowder Street, Coimbatore.
Ramchandra, D.S.—Rangai Gowder Street, Coimbatore.
Ramudu Chettiar Co., K.A.—Vysial Street, Coimbatore.
Subramania Chettiar, V.M.—Vysial Street, Coimbatore.

HARDWARE & PAINT MERCHANTS

Abdulla & Sons.—Nawab Hakeem Road, Coimbatore.
Abubaker Rowther, C.A.—Nawab Hakeem Road, Coimbatore.
Asaan Mohamed Rowther, T.K.—Ukkadam, Coimbatore.
Bava Stores—Ranga Gowder Street, Coimbatore.
Bomman Chettiar, R.P.—Oppanakara Street, Coimbatore.
Coimbatore Hardware & Paint Stores.—Mill Road, Coimbatore
Devasagayam M. Pillai & Sons.—Nawab Hakeem Road, Coimbatore.
Industrial Engineering Stores—Avanashi Road, Coimbatore.
Kannapiran Corporation Ltd.—Mill Road, Coimbatore.
Lakshminarayan, P.—Rangai Gowder Street, Coimbatore.
Malliah Chettiar, T.—Variety Hall Road, Coimbatore.
Manickam & Co.—Mill Road, Coimbatore.
M. Nanabhoy & Co.—Fraser Square, Coimbatore.
Mohamed Hussain & Bros, H.—Mettupalayam Road, Coimbatore.
Moideen G. S. Sahib.—Nawab Hakeem Road, Coimbatore.
Navaneetham & Co.—Raja Street, Coimbatore.
N. Veerasamy Chettiar.—Rangai Gowder Street, Coimbatore.
Raju Naidu & Co., V.—Mill Road, Coimbatore.
Rama & Co—Mettupalayam Road, Coimbatore.
Rangaswamy Naidu, P.N.—Avanashi Road, Coimbatore.
Santhubava K. Rowther & Sons.—Vysial Street, Coimbatore.
Sarada Corporation—Nawab Hakeem Road, Coimbatore.
Titan Paint & Varnish Co.—Podanur, Coimbatore.
U. K. Chary & Sons.—Variety Hall Road, Coimbatore.
Ummer M. Sahib.—Rangai Gowder Street, Coimbatore.
V. A. M Ratham & Bros.—Vysial Street, Coimbatore.
Venu Stores.—Rangai Gowder Street, Coimbatore.

HOSIERY MFRS. & DEALERS

Abdul A. M. Malik.—Nawab Hakeem Road, Coimbatore.
Bharath Hosiery & Weaving Mills L.—6, Dispensary Road, Peelamedu Post, Coimbatore
Bharath Knitting Works.—Fort, Coimbatore.
Commercial Knitting Factory.—Variety Hall Road, Coimbatore.
J. Savarimuthu.—Bellam Krishna Chetty Street, Coimbatore.
Mars Hosiery Mills.—Rangai Gowder Street, Coimbatore.
R.B.W. Parrot Fabrics.—Raja Street, Coimbatore.

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Hotel Dave.—Imperial Bank Road, Coimbatore.
Hotel Majestic.—Arts College Road, Coimbatore.
J. M. English Hotel.—Avanashi Road, Coimbatore.
Lucky Cafe Boarding & Lodging.—Avanashi Road, Coimbatore.
Seetharam Villas.—Rangai Gowder Street, Coimbatore.
Sree Seetharam Boarding & Lodging House.—Imperial Bank Road, Coimbatore.
Sree Sumuka Vilas.—Big Bazar Street, Coimbatore.
Sree Venkatasha Lodge.—Imperial Bank Road, Coimbatore.
Woodland Hotel.—Arts College Road, Coimbatore.

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Burmah-Shell Oil Depot.—Big Bazar Street, Coimbatore.
Caltex (India) Ltd.—Big Bazar Street, Coimbatore.
Coimbatore Premier Corporation.—Avanashi Road, Coimbatore.
Dhanalakshmi & Co.—Trichy Road, Coimbatore.
Industrial Oils Corporation.—Rajaji Road, Ramnagar, Coimbatore.

Krishnaswamy Naidu & Bros., L.P.—Fraser Square, Coimbatore.
Lakshminarayanaswamy, G.V.—Avanashi Road, Coimbatore.
Sundaram & Co., J.B.—Jail Road, Coimbatore.
Vijaya Motors.—Mettupalayam Road, Coimbatore.

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Tarzo Products.—Variety Hall Road, Coimbatore.
Vasanta Printing Ink Factory.—Trichy Road, Coimbatore.

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Kodandarama Chettiar, S.—Big Bazar Street, Coimbatore.
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S. K. Rangasamy Naidu.—Nawab Hakeem Road, Coimbatore.
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Prince Studio.—Avanashi Road, Coimbatore.
Raja Studio.—Edayar Street, Coimbatore.

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Sundaram Stores.—Big Bazar Street, Coimbatore.
Swaraj Silk Palace.—Big Bazar Street, Coimbatore.
Thomas Brothers.—Oppanakara Street, Coimbatore.
Truthful Readymade Cloth Stores.—Big Bazar Street, Coimbatore.
Venkatadhri Chetty, S. V.—Rangai Gowder Street, Coimbatore.
Venkatarama Gowder & Sons, A.—Rangai Gowder Street Coimbatore.
Venkataramana Stores.—Rangai Gowder Street, Coimbatore.
Venkatesh Emporium.—Big Bazar Street, Coimbatore.
Venkataswamy Chetty, L.—Sukrawarpet, Coimbatore.
Venkataswamy Naidu, K. N.—Big Bazar Street, Coimbatore.
Vijaya Lakshmi Cloth Emporium.—Yadavar Street, Coimbatore.
Vijayalakshmi Hall.—Oppanakara Street, Coimbatore.
Vinayoga Stores.—Edayar Street, Coimbatore.
Viswanatha Iyer, C. S.—Raja Street, Coimbatore.

TIMBER MERCHANTS

Appu & Sons, K. V.—Mill Road, Coimbatore.
Blue Mountain Trading Co.—Coimbatore.
Cochin Timber & Tiles Depot.—Mettupalayam Road, Coimbatore.
Dhandapani & Co., S. V.—Avanashi Road, Coimbatore.
Feroke Timber & Tile Co.—Mettupalayam Road, Coimbatore.

Jothi Timber Mart.—Mettupalayam Road, Coimbatore.
Khasbim & Co., S.—Mill Road, Coimbatore.
Oriental Timber Syndicate.—Variety Hall Road, Coimbatore.
Packer & Co.—Mettupalayam Road, Coimbatore.
Rama & Co.—Mettupalayam Road, Coimbatore.
Ramaswamy & Sons, P.—Mettupalayam Road, Coimbatore.
Ranganathan & Co.—Mill Road, Coimbatore.
Thangappa, K. K.—Nawab Hakeem Road, Coimbatore.

TOBACCO & TOBACCONISTS

Abdulsalam Rowther.—Rangai Gowder Street, Coimbatore.
Andy Chettiar, V.—Big Bazar Street, Coimbatore.
Linga Gowder, M.—Rangai Gowder Street, Coimbatore.
Patel & Co., J. D.—Oppanakara Street, Coimbatore.
Rangaswamy, I.—Big Bazar Street, Coimbatore.

TYPEWRITERS

Kayeses Ltd.—Fraser Square, Coimbatore.
Natarajan, V. R.—Jail Road, Coimbatore.
Remington Rand Inc.—Big Bazar Street, Coimbatore.
Underwood Typewriter Agency.—R. S. Puram, Coimbatore.
Voltas Ltd.—Race Course Road, Coimbatore.

TYRE RETREADING WORKS

Auto Retread Tyres.—Raja Street, Coimbatore.
Dhanalakshmi Vulcanising Works.—Podanur Road, Coimbatore.
Free India Tyre Works.—Mettupalayam Road, Coimbatore.
Good Shepherd Tyres.—Ukkadam, Coimbatore.
Nanco Rubber & Plastics Ltd.—A.T.T. Colony, Coimbatore.
National Tyre Works.—Mettupalayam Road, Coimbatore.
Rani & Co.—Oppanakara Street, Coimbatore.
Special Guaranteed Tyre Co.—Ukkadam, Coimbatore.
Stanes Motors (South India) Ltd.—Trichy Road, Coimbatore.
St. Antony Tyre Works.—Raja Street, Coimbatore.
United Vulcanising Works.—Mettupalayam Road, Coimbatore.

UTENSILS

Arunachalam Chettiar, A. P., & Sons.—Big Bazar Street, Coimbatore.
Nanjappa Chetiar, A.—Big Bazar Street, Coimbatore.
Ramlingam Chettiar, K.—Raja Street, Coimbatore.
Rangiah & Sons, C. R.—Coimbatore.
Sundaram, C. S.—Big Bazar Street, Coimbatore.

WATCHES & CLOCKS (IMPORTERS, DEALERS & REPAIRERS)

Abdul Watch Co., P. K.—Big Bazar Street, Coimbatore.
Azim & Sons.—Oppanakara Street, Coimbatore.
Bentex-Time House.—Oppanakara Street, Coimbatore.
Bharath Watch Co.—Raja Street, Coimbatore.
City Watch House.—Nawab Hakeem Road, Coimbatore.
Expert Watch House.—Raja Street, Coimbatore.
Gajendra Watch Repairing House.—Sukrawarpet, Coimbatore.
Globe Watch Co.—Oppanakara Street, Coimbatore.
Meeran & Co., P. K.—Big Bazar Street, Coimbatore.
Modern Watch Co.—Big Bazar Street, Coimbatore.
Mohan Watch Works.—Nawab Hakeem Road, Coimbatore.
National Watch Co.—Big Bazar Street, Coimbatore.
New Watch & Radio Co.—Oppanakara Street, Coimbatore.
Rajan Watch Co.—Sukrawarpet, Coimbatore.
Rathnam & Co., R. P.—Avanashi Road, Coimbatore.
Record Watch Co.—Avanashi Road, Coimbatore.
Swiss Watch House.—Oppanakara Street, Coimbatore.
Well Done Watch Co.—Avanashi Road, Coimbatore.

YARN MERCHANTS

Abdul Salem Bros.—Oppanakara Street, Coimbatore.
Asher & Co., N. V.—Dewanbahadur Road, Coimbatore.
Chettiar & Co.—Raja Street, Coimbatore.
Cotton Textiles Ltd.—Mai Mill Road, Coimbatore.
Haji Jiva & Haji Khamisa & Co.—Oppanakara Street, Coimbatore.
Kalyani & Co.—Rangai Gowder Street, Coimbatore.
Madras Trading Corporation.—Oppanakara Street, Coimbatore.
Ponnusamy Chetty & Co., K. S.—Sukrawarpet, Coimbatore.
Rajalingam Chettiar & Co.—Oppanakara Street, Coimbatore.
Seshachalam Chettiar & Sons, V. G.—Oppanakara Street, Coimbatore.
Sivagnanam & Co., M.—Rangai Gowder Street, Coimbatore.
Sri Kamala & Co.—Rangai Gowder Street, Coimbatore.

MADURAI

TRADES & PROFESSIONS

Ajanta Stores, Stationery.—1, Vengala Kada Street, Madurai.
All India General Insurance Co. Ltd.—24, West Chetrai Street, Madurai.
A.R.P. Sarathy.—Cloth Merchants, 274, Ramnad Road, Madurai.
Asia Paper Stores, 50, East Avanimoola Street, Madurai.
A. S. Lakshmanier & Sons.—Mahal Vadambokki Street, Madurai.
A. S. S. S. S. Natarajarathina Nadar & Co.—1, Vengalakdai Lane, Madurai.
Bala Krishna Mills.—Ramnad Road, Madurai.
Bank of Madurai Ltd.—South Masi Street, Madurai.
Bharat Insurance Co. Ltd.—Goodshed Street, Madurai.
Calcutta Paper Stores.—East Avanimoola Street, Madurai.
Canara Bank Ltd.—South Avanimoola Street, Madurai.
Central Bank of India Ltd.—Madurai.
College House Boarding & Lodging Ltd.—Madurai.
CHARI & RAM, (Estd.: 1916), Importers—Dyes & Chemicals, East Gate, P.O. Box No. 38, Madurai, Phone: 69, Grams: "THAMARAI".
C. M. V. PRESS, THE—Leading Printers & Binders, 197, East Veli Street, Madurai.
Colours Trading Co.—South Masi Street, Madurai.
C. Swaminatha Muthaliar Sons.—South Masi Street, Madurai.
Dandapani & Co.—63-A, Mahal, Vadambokki Street, Madurai.
D. Krishna Singh Cycle Co.—55A, West Avani Road, Madurai.
D. Krishna Singh, Singh Cycle Co.—Cycles Dealer, 55A, West Avani Road, Madurai.
General Assurance Society Ltd.—16, North Veli Street, Madurai.
G. N. Chakrapany Chetty & Sons Ltd., 56, Tamil Sangam Road, Madurai.
G. Seshadri.—Furniture, 1, Kamala Street, Madurai.
Hajee Moosa Sait & Bros.—East Chitrai Street, Madurai.
Indian Agencies.—Dindigul Road, Madurai.
Indian Bank Ltd.—East Avanimoola Street, Madurai.
K. Kathan Nadar & Co.—17, Samy Sannathy Street, Madurai
K. R. Rama Iyer & Sons.—48, Lakshmipuram Cross Street, Madurai.
L. T. Subbier & Sons.—19, Laxmipuram, 2nd Street, Madurai
Madurai District Central Co-operative Bank Ltd.—Goodshed Street, Madurai.
Madura Dress Manufacturing Co.—T-Kol Street, Sellor, Madurai.
Madura Insurance Co. Ltd.—Meenakshi Nilayam, Thirupparankundram, Madurai.
Madura Mills Co. Ltd.—New Jail Road, Madurai.
Madura Knitting Co.—Hosiery, Ramnad Road, Madurai.
Mercury Pharmaceuticals Manufacturing Chemists, 60, South Avani Street, Madurai.
M. M. Ram Muthusamy Chettiar & Co.—Madurai
Mohan & Co.—1, Mahal Vadampokki Street, Madurai.
Mother India Fire & General Insurance Co. Ltd.—24, South Chitrai Street, Madurai.
M. P. Venkatachalapathier & Sons.—Manjana Kara Street, Madurai
National Indian Life Insurance Co. Ltd.—271, Goodshed Street Madurai.
National Insurance Co. Ltd.—126, Dindigue Road, Madurai.
Oriental Govt. Security Life Assurance Co. Ltd.—134, Palace Road, Madurai.
P. S. Lakshmanaier Sons.—East Veli Street, Madurai.
Punjab National Bank Ltd.—Madurai.
Ramdad District Central Co-operative Bank.—North Veli Street, Madurai.
Rasayana Saya Sabai.—East Veli Street, Madurai.
Royal Talkie Distributors.—South Masi Street, Madurai.
Sarathi Handloom Textiles.—Post Box No. 45, Madurai.
Seth Pesumal Bagwandas.—South Masi Street, Madurai.
Sethuram Weaving Mills.—Old Kosavapalayam Road, Madurai
S. I. Manufacturing Co.—Chemists & Druggists, 44, Danappamudali Street, Madurai.
S. M. S. S. Rajagopal & Bros.—South Masi Street, Madurai
S. N. Devendrier Sons.—Ramand Road, Madurai.
S. N. R. Sundara Rao & Sons.—105-A, South Masi Street, Madurai
S. N. Venkatachalapalhiar & Sons.—53, Lakshmipuram 4th Street Madurai.
South India Bank Ltd.—South West Street, Madurai.
Southern Roadways Ltd.—P. B. No. 21, Madurai.
S. Pm. Medical Mart.—15, East Chitari Street, Madurai
S. R. R. Kuppuswamier & Sons.—230, East Marret St., Madurai
Sri Kothandaram Spg. & Wvg. Mills.—Madurai.
Sri Meenakshi Mills Ltd.—Spinning & Weaving, Madurai
Steel Merchants Syndicate.—Steel, 247, East Main Street, Madurai
S. V. Iyer, Minerva Colour Co.—278, Ramnad Road, Madurai
Tayub Mohammed Hajee Moosa & Co.—South Masi Street, Madurai
T. K. V. S. Nara Simmier & Sons.—Panthadi 5th Street, Madurai
T. M. V. Abdul Azeez & Bros.—East Masi Street, Madurai
T. N. C. Nagalingam Pillai & Sons.—Chemists & Druggists, North Chitrai Street, Madurai.
Truthfull Manufacturing Co. Ltd.—Ramnad Road, Madurai
T. S. K. Rajaramier & Bros.—8, Kondayanicker Lane, Madurai.
T. Vairamani Nadar & Co.—5, Laksmipuram Cross Street, Madurai
T. V. Sundaram Iyengar & Sons Ltd.—Madurai
Udipi Boarding & Lodging.—West Masi Street, Madurai
United Commercial Bank Ltd.—South Masi Street, Madurai
United Stores.—Cycles & Electricals, 8, North Chitrai Street, Madurai
V. A. Punniyappa Nadar & Co.—247, East Masi Street, Madurai.
V. N. M. A. Rajendra Nadar & Bros. Co., Subramaniapuram, Madurai.
V. O. Kuppuswamy Chettiar & Bros.—Navbhathkhana Street, Madurai.
V. Ramraj Vijaya Cycle Mart.—27, South Chitra Street, Madurai

MANIPUR

Chief Commissioner, Jagat Mohan Nath Raina.

Area: 8,628 sq. miles; Population: 577,635; Density: 67; Capital: Imphal: Strength of Territorial Council: 32 including two nominated members.

Names of Districts with population: Manipur Plains District 4,02,267; Hills District 1,75,368.

Names of Districts with names of taluks and their population within brackets: Manipur Plains District (Sadar 2,70,962; Thonbal 1,23,754; Jiribum 7,541); Hills District (Mao 28,445; Churachandpur 42,695; Tengnowpal 24,049; Ukrul 42,491; Tamenlong 37,688)

Manipur bounded on the east and south by Burma and on the north and west by the Naga Hills and the Cachar District of Assam, is highly strategic territory on the eastern frontier of India. Two land routes from Burma pass through its territory. It was formally proclaimed a Chief Commissioner's Province of the Indian Union on the 15th of October, 1949, and became a Part C State when the Constitution of 1950 came into force. Following the reorganization of States in India, Manipur became a Union Territory from 1st November 1956 and it is now administered as a Union Territory under the provisions of the Union Territories Act, 1956.

In the Territorial Council formed after the second general elections there are 16 Congress members, Communists 4, Socialist Party 6 and Independents 6.

The Congress is the largest single party.

The Territory has a population of 577,635 (1961 census) and an area of 8,628 square miles. The density of the population is 67. Seven hundred square miles of the Territory form a central valley, 2,600 feet above sea-level, which is shut in on all sides by extensive hill tracts at places over 6,000 feet, covering the rest of the Territory. The climate varies from temperate in the valley to cold in the high hills. The rainfall on the average is 65 inches in the year.

The main population is "Meitels" inhabiting the valley with some 40 tribes and sub-tribes known by the generic names of Nagas and Kukis. Though a number of different dialects are spoken in the Territory, Manipuri and English are the official languages. The people are carefree and healthy, with a passion for religious festivals involving community dances in which both sexes join.

There are about 1,102 refugee families in Manipur.

The soil is fertile. Rice is the principal crop of which Manipur exports a fair quantity.

The area under cultivation is about 2 lakh acres.

Handloom weaving is a popular industry throughout the Territory and Manipuri cloth of various picturesque and indigenous designs, is in demand throughout India and even outside.

There are 2 colleges, 42 high schools, 125 M.E. schools, 941 primary and upper primary schools. The total number of students for the year ending 31st December 1957 was 1,90,976.

There are 17 hospitals and 46 dispensaries, six touring and mobile dispensaries, and four maternity and child welfare centres.

The Budget estimates for Income and Expenditure for 1958-59 were Rs. 25,49,560 and Rs. 1,02,19,157 respectively. Deficit: Rs. 76,69,577.

The Planning Commission has tentatively accepted a ceiling of Rs. 6·25 crores for various development schemes under the Second Five-Year Plan. The schemes are connected with agriculture and rural development, N.E.S. and Community Projects, irrigation and power, industry, transport, education, medical and public health, housing, labour and labour welfare, welfare of backward classes and Scheduled Tribes. The development programmes have been taken up in right earnest.

A separate scheme for water supply for Imphal Town at an estimated cost of Rs. 28,36,000 has been taken up.

All educational institutions in Manipur up to high schools, excepting two Government High schools in Imphal, the basic training institution, one middle school and one Montessori school were expected to be transferred to the Manipur Territorial Council with effect from January 1, 1958. All hospitals and dispensaries, excepting the civil hospital in Imphal and roads with a total of 621 miles including maintenance of bridges, paths, excepting national highways and State highways, were also expected to be transferred from January 1 to the Territorial Council.

Institutions

MANIPURI DANCE COLLEGE, IMPHAL

Chairman: J. M. N. Raina, (Chief Commissioner, Manipur.

Secretary: N. Nilakomal Singh, Assistant Secretary, Manipur Administration.

MYSORE STATE

Area : 74,293* sq. miles.
Population : 19,401,193.
Capital : Bangalore.

Strength of the Legislative Council : 52 ; of the Legislative Assembly : 208 ; No. of members returned to the Lok Sabha : 26 ; No. returned to the Rajya Sabha : 12.

The State is divided into four Divisions for administrative purposes.

The Divisions as well as the Districts which make up each Division are shown below. The names of the District headquarters are given in brackets after the names of the Districts.

1. Bangalore Division : Bangalore (Bangalore), Kolar (Kolar), Tumkur (Tumkur), Chitaldrug (Chitaldrug), Bellary (Bellary).

2. Mysore Division : Mysore (Mysore), Mandya (Mandya), Hassan (Hassan), Chickmagalur (Chickmagalur), Shimoga (Shimoga), South Kanara (Mangalore), Coorg (Mercara).

3. Belgaum Division : Belgaum (Belgaum), Dharwar (Dharwar), Bijapur (Bijapur), North Kanara (Karwar).

4. Gulbarga Division : Gulbarga (Gulbarga), Bidar (Bidar), Raichur (Raichur).

There are 19 Districts, 168 Talukas, 289 towns and 25,897 villages.

The area and population of each District and of the Talukas into which the Districts are divided are given under each District.

Abolition or reorganization of the District Boards was under the consideration of the State Government.

CENSUS

Some general figures relating to census are given below.

Total population : 19,401,193 ; Males : 9,866,533 ; Percentage of males : 50·9 ; Females : 9,534,660 ; Percentage of females : 49·1.

Urban : 4,455,985 ; Percentage of urban population : 23 ; Rural : 14,945,208 ; Percentage of rural population : 77.

Agricultural : 13,820,661† ; Percentage of total : 71·2 ; Owner cultivators : 9,242,572 ; Percentage : 47·6 ; Tenant cultivators : 1,813,154 ; Percentage : 9·3 ; Agricultural labourers : 2,105,076 ; Percentage : 10·9 ; Non-cultivating owners : 659,441 ; Percentage · 3·4.

Non-agricultural : 5,581,234† ; Percentage of total : 28·8 ; Production (other than cultivation) : 1,980,912 ; Percentage : 10·2 ; Commerce : 1,061,637 ; Percentage : 5·5 ; Transport : 230,981 ; Percentage : 1·2 ; Other services : 2,307,704 ; Percentage : 11·9.

Kannada-speaking : 12,598,339 ; Percentage : 62·2 ; Telugu : 2,282,403 ; Percentage : 11·3 ; Hindustani : 1,742,119 ; Percentage : 8·6 ; Tamil : 703,039 ; Percentage : 3·5 ; Marathi : 1,251,969 ; Percentage : 6·2 ; Banajari : 88,878 ; Percentage : 0·4 ; Tulu : 714,324 ; Percentage : 3·5 ; Malayalam : 194,199 ; Percentage : 1·0 ; Hindi : 61,778 ; Percentage : 0·3 ; Konkani : 419,278 ; Percentage : 2·1 ; English : 16,187 ; Percentage : 0·08 ; Gujarati : 24,357 ; Percentage : 0·1 ; Punjabi : 6,195 ; Percentage : 0·03 ; Sindhi : 3,982 ; Percentage : 0·02 ; Bengali : 2,469 ; Percentage : 0·01 ; Coorgi : 68,114 ; Percentage : 0·3 ; Rajasthani : 37,566 ; Percentage : 0·2 ; Others : 49,885 ; Percentage 0·2.

Scheduled Castes : 2,873,499 ; Percentage of total : 14·8 ; Scheduled Tribes : 46,689 ; Percentage of total : 0·24.

Literates : 3,928,067 ; Percentage : 18·7 ; Literate males : 3,016,783 ; Percentage : 28·3 ; Literate females : 911,304 ; Percentage : 8·8 ; Rural : 2,314,489 ; Urban : 1,613,578.

* There is a slight discrepancy between the Govt. of India figure and the State Govt. figure.

† There is a discrepancy between these and the total.

AGRICULTURE

Figures for land utilization are given below in acres. They relate to the year 1955-56.

Geographical area according to village papers (acres) : 45,273,751 ; Forests : 6,288,406 ; Barren and uncultivable land : 2,058,163 ; Land put to non-agricultural use : 2,086,511 ; Cultivable waste : 1,554,771 ; Permanent pastures and other grazing lands : 4,377,212 ; Land under miscellaneous tree crops, area and groves not included in net area : 953,847 ; Current fallows : 1,905,155 ; Other fallow land : 1,673,749 ; Net area sown : 24,375,937 ; Area sown more than once : 832,052 ; Percentage of the net area sown : 53·84 ; Total cropped area *i.e.* gross cropped area : 25,207,989 ; Net area sown per head of agricultural population (acres) : 1·76 ; Total land per capita (acres) : 2·33.

Figures for area under principal crops are given below in thousand acres with production in hundred tons within brackets. They relate to the year 1956-57.

Cereals—

Rice 1,961 (10,253) ; Jowar 6,558 (8,939) ; Bajra 1,274 (1,423) ; Maize 33 (63) ; Ragi 1,915 (7,434) ; Wheat 727 (626) ; Small millets 1,221 (1,400).

Total cereals and millets—13,697·4 (30,164 4).

Pulses—

Bengal Gram 417 (526) ; Tur 617 (866) ; Other Kharif pulses 1,840 (3,029) ; Other Rabi pulses 703 (777).

Total pulses 3,577 (5,198).

Total food grains 17,274·4 (35,362·4).

Sugarcane 123 (30,940).

Pepper 22 (1,552 (in 00 mds.)).

Chillies 251 (311).

Ginger 1·0 (44·6).

Rubber 4 1 (8,743 (in 00 bales)).

Oilseeds—

Groundnut 2,070 (5,573) ; Castor 113 (79) ; Sesamum 182 (162) ; Rape and mustard 8 7 (9·6) ; Linseed 125 (83).

Total oil seeds 2,498·7 (5,906·6).

Fibres—

Cotton 2,403 (3,585 (in 00 bales)) ; Mesta 38 (1955-56).

Drugs and Narcotics—

Tobacco 108 (for 1955-56).

The normal annual food production, excluding pulses, is taken to be 30 lakh tons. The total paddy output of the State in 1956-57 was about 1,025,300 tons. The trend in the production indices of food crops is indicated by the following figures : 1952-53 (100·0 base) ; 1953-54 (128 1) ; 1954-55 (142 4) and 1955-56 (148·6). In 1957-58 five districts of the State experienced scarcity conditions, crops there having failed partly or wholly, owing to untimely rains. These districts were Mysore, Mandya, Bangalore, Kolar and Tumkur.

Animal Husbandry (Thousands) : No. of cattle in the State 8,997 ; of buffaloes 2,642 ; of sheep 4,151 ; of goats 2,606 ; of horses and ponies 42 ; Poultry 7,899.

Inland Fisheries : 3,500 tons of fish are produced annually of the value of Rs. 2,00,000. There are six rural fishery demonstration units, one fresh water fishery research station and 12 fish farms. There are also 5 fish co-operatives.

Number of tanks 20,000 ; number of reservoirs 5,000 ; number of multi-purpose projects 10 ; length of rivers 3,000 miles ; number of fishery divisions 4 ; quantity of dry fish annually stocked 20 lakhs ; fish produced annually 3,500 tons ; value of fish Rs. 2,00,000.

Marine Fisheries : There are 25 fishing harbours, 200 fishing villages, 8,000 fishing boats, 40,000 fishing nets, and 20,000 fishermen. The total quantity of fish caught is 155,000 tons and the value Rs 1 25 crores There are 48 fish curing yards, 80 fishermen's co-operatives, 30 fishery schools, 20 fish-meal and oil plants, 2 cold storage ice plants and 10 mechanized boats.

The value of fish exported Rs. 83 lakhs ; number of teachers in fishery schools 119 ; annual fish production per fisherman 7 tons ; number of people depending on fish industry 123,000 ; number of transport vans 3 ; number of administrative units in charge of gazetted officers 4 ; varieties of marine fish 40.

Area in sq. miles covered by N.E.S. or Community Development Blocks : 14,533 ; No. of villages covered : 5,870 ; Population covered : 3,020,513.

LAND REFORMS

Mysore is yet to evolve a uniform law to bring about significant land reforms in all parts of the State. The new State of Mysore includes five different areas where five different tenancy laws were in operation before the reorganization in November 1956. A Committee headed by Mr. B. D Jatti has submitted a report after studying the existing tenancy laws. This is likely to form the basis of uniform land reforms in the whole of Mysore State.

There are 24 6 lakh holdings in the State comprising 267 8 lakh acres The average size of a holding is 10 87 acres. The largest number of holdings is the size-group of 2·5 to 5 acres. Of the total area of 267 8 lakh acres, 206·4 lakh acres are under personal cultivation. About 61 4 lakh acres (or 22·95 per cent) are cultivated by tenants. The percentage of land under tenant cultivation varies from district to district. Hassan District has the smallest proportion (2 84 per cent) under tenant cultivation and South Kanara the highest (65 86 per cent).

According to the 1951 census, 71·2 per cent of the total population are dependent on agriculture in the areas now comprising Mysore State. About 47·8 per cent of them are principally owner-cultivators, 9 3 per cent agricultural labourers and 3 4 per cent rent receivers. The report says that only 28 per cent of the people working on land are landless and the owner-cultivators are more than 13 times those who rent the land.

The Committee has recommended that the ceiling on existing holdings under personal cultivation may be four and a half family holdings (a family holding being defined as a unit of land yielding a net income of Rs 1,200 per annum) as against three family holdings for future acquisition. The recommendations of the Committee were before the Legislature.

FOREST

Forest area : 12,000 sq. miles.

The forests are rich in teak, rosewood, venteak, tumkino, white cedar, ebony, etc Rich forest areas hitherto untapped are also present with bamboos and soft wood species, potential sources of raw material for paper, rayon, plywood and matchwood industries. The revenue of the forest department is about Rs. 3·50 crores per annum.

IRRIGATION

The total area irrigated is 1,699,869 acres. Of this the area irrigated by Government canals is 358,243 acres, by private canals 16,623 acres, by tanks 774,753 acres, by wells 295,604 acres, other sources 254,646 acres.

Large Irrigation Projects in Execution

Name of the Project.	Location.	When started.	Completion.	Area to be irrigated in Acres.	Total cost in lakhs.	Estimated rise in output after completion in Tons.
Tungabhadra Project[1]						
(*a*) Left Bank Channel	Raichur District.	1945	1959	5,80,000	2,557·00	39,708
(*b*) —do— Right Bank Channel[2] (Low Level).	Bellary District.	1945	1954	92,346	64·44	—
Rajolibanda Diversion Scheme[3]	Raichur District.	1947	1959	7,400	433·00	—
Bhadra Reservoir Project[4]	Chickmagalur District.	1947	1961	2,34,200	2,442 00	38,397
Tunga Anicut Project[5]	Shimoga.	1946	1957	21,500	231·12	6,467
Nugu Reservoir Project[6]	Mysore District.	1947	1957	20,000	244·25	8,000
Ambligola Reservoir Project	Shimoga District.	1953	1959	6,834	56·00	2,064
Naranapur Anicut	Chitaldurg District.	1952	1958	2,210	21·08	950
Kariyala Tank (Gayatri Reservoir) ..	Chitaldurg District.	1951	1958	2,000	21·75	1,118
(*a*) Kolchi Weir Project 1st Stage[7]	Belgaum.	1949	1960	3,650	42·95	720
(*b*) —do— High Capacity Canal II Stage.[7]				8,000	21 50	—
Ghataprabha I Stage[8]	Belgaum and Bijapur Districts.	1949	1958	1,24,000	545 00	—
Ghataprabha II Stage	Bijapur District.	1956	1961	1,30,000	999 00	
Ramanahalli Tank	Bijapur District.	1954	1959	4,800	40 80	960[9]
Kalskap Tank	Bijapur District	1953	1959	2,823	19 79	564
Areshankar Tank	Bijapur District.	1953	1959	3,100	21·67	611
Kabini Reservoir Project	Mysore District.	1957	1961	30,000	250 00	30,000[10]
Dharma Project	Dharwar District.	1957	1960	14,000	67 00	1,850
Lakshmanathirtha Project	Coorg District.	1957	1961	3 167	30 42	—
Chickbole Reservoir	Mysore District.	1957	1961	2,637	26 00	

[1] Water was allowed for an area of 38,500 acres during 1956-57 of which 25,000 acres were irrigated. [2] Water made available for 57,601 acres of which 25,000 acres were actually irrigated during 1956-57. [3] Total extent of area to be irrigated is 1 15 lakh acres of which 7 400 acres are in Mysore state limits. [4] Works to an extent of irrigating 17,894 acres has been completed. An area of 6 145 acres has been developed as per crop planning. Estimated output: Rice 38,397 tons; Sugarcane 91 777 tons; other crops 21,132 tons. [5] Water was allowed to irrigate 10 115 acres during 1956-57, but the actual area brought under cultivation is 14,000 acres. [6] Water made available for irrigating 2 000 acres during the irrigation season of 1955-56. [7] The canal is proposed to be extended at a cost of Rs 21 50 lakhs to irrigate an additional area of 8 000 acres. [8] Area served with irrigation facilities for 76,000 acres upto end of March 1957, but the actual area irrigated is 15,510 acres. [9] Wheat 800 tons. [10] Paddy.

Progress of some schemes:

Tunga, estimated to cost Rs. 2·31 crores and irrigate 22,000 acres. Upto 1956-57, Rs. 198 17 lakhs were spent on it.

Nugu, estimated to cost Rs. 2 44 crores and irrigate 20,000 acres. Upto Dec. 1958-57, Rs. 241 69 lakhs were spent on it.

Ambligola, estimated to cost Rs 56 lakhs and irrigate 7,000 acres. Upto 1956-57, Rs. 21 35 lakhs were spent on it.

Ghataprabha Left Bank Canal, estimated to cost Rs. 5·45 crores and irrigate 1 2 lakh acres. Upto Dec 1956-57, Rs 1·75 crores were spent on it. The Districts to benefit are Belgaum and Bijapur.

Tungabhadra Project estimated to cost about Rs. 43 crores in all.

The Tungabhadra Dam is situated on the river Tungabhadra at Malapuram, three miles from Hospet in the Bellary District of Mysore State. This is a joint project of the Governments of Andhra and Mysore.

The Bhadra or Lakkavalli, estimated to cost about Rs. 25 crores, is designed to impound 61,250 million cubic feet of water on the River Bhadra, irrigating 2,34,200 acres of land in Mysore State, and generating 25,000 Kw. firm power. Installed capacity being 40,400 Kw. The Project was started in 1947 and by June 1957, about Rs 9 crores had been spent. The dam has risen to nearly half the total height and irrigation was started on the left bank canal during 1956-57.

(*For details see article on irrigation*)

CO-OPERATION

The number of different types of co-operative societies in Mysore State is given below:

Agricultural Co-operative Societies 5,650; Marketing 135; Non-Agricultural 1,105; Farming 30; Grain Banks 1,163; Harijan and Depressed Class 202, Weavers 370; Sericultural 11; Silk Handloom Weavers 1; Industrial 630; Co-operative Printing Works 1; Rural Industrial Co-operative Financing Bank 1; Co-operative Apex Banks 8; Co-operative Land Mortgage Banks 7; Cotton Handloom Weavers 1; District Central 10; House Building 183; Co-operative Institute 1; Artisans 33; Consumers 680; Multipurpose 1,662; Students 35; Social Services 9; Ladies 40; Producers 32; Federal 169; General 24; Other kinds 525; Population served by each co-operative society 1,526.

The total working capital in the former Mysore State was Rs. 1,348 lakhs in 1955-56.

In Bombay Karnatak the share capital was about Rs 162 lakhs and the working capital Rs 1,092 lakhs (1954-55).

In Hyderabad Karnatak the total working capital was about Rs. 128 lakhs (1954-55).

ELECTRICAL POWER

Installed capacity (1957-58) 130 464 Kw.

" " (1956-57) 134 510 kw.

Total capacity of power plant installed in State, Hydel 179 200 Kw, Diesel 5 310 Kw. Total effective capacity: Hydel 142,000 kw, Diesel 4,300 Kw.

Total production: 1956-57 829 512 mln kws. (Hydel 827 749 mln Kws, Thermal 1 763 mln Kws); 1957-58 (6 months), 452 854 mln Kws (Hydel 450 533 mln Kws, Thermal 2 321 mln Kws).

Number of units supplied to industry 1956-57 488 857 mins; 1957-58 (6 months) 266 5 mins (Estimates).

Number of units supplied for irrigation: 1956-57: 16 618 mins; 1957-58 (6 months): 3 00 mins. (Estimates).

Units supplied for domestic purposes 1956-57 52 05 mins; 1957-58 (6 months): 27 56 mins (Estimates).

Projects under Construction

Name of Project.	Location.	Commencement.	Completion.	Installed capacity.	Cost in crores of Rs.
Sharavathi Valley Project	15 miles from Talaguppa Rly. Station near Jog.	1956	1962 (I Stage)	178,200 Kw.(*a*)	22 97 (I Stage)
Bhadra Hydro Electric Project ..	18 miles from Bhadravathi	1956	1961	33,200 Kw (*b*)	2 42
Tungabhadra Hydro Electric Project Right Bank.	4 miles from Hospet Rly. Station.	1953	1961	36,000 Kw.(*c*)	7·5
Tungabhadra Hydro Electric Project Left Bank.	3 miles from Munirabad Rly. Station.	1955	1961	27,000 Kw.(*d*)	4·6635

Estimated rise in output after completion is about 1,466 million units over the 1956-57 figure.

(a) 891,000 Kw ultimate capacity. (b) 40,400 Kw ultimate capacity. (c) Ultimate capacity 72,000 Kw. Two units of 9,000 Kw installed and two more units being installed. (d) Ultimate capacity 36,000 Kw.

Names of power stations now in operation, their location, installed capacity and production :

Name.	Installed capacity (Kw.).	Location.	1956-57 Production.
			Million units
Sivasamudram[1]	42,000	28 miles from Maddur Rly. Stn. towards South East.	121·000
Shimshapura[1]	17,200	28 miles from Madur Rly. Stn. towards South East.	92·000
Jog (M.G.H.E.[1] Works)	120,000	12¼ miles from Talaguppa Rly. Stn. towards north.	616 000
Tungabhadra Hydro Elec. Works[1•]	36,000	4 miles from Hospet Rly. Station.	(57-58) estimated for one year.
Mercara[2]	270	Mercara	0·4
Somvarpet[2]	184	Somvarpet.	0 087
Virajpet[2]	304	Virajpet	0·147
Kudige[2]	65	Kudige.	0 015
Gonikoppal[2]	80	Gonikoppal.	0·030
Raichur[2]	688	Raichur.	1 688
Gulbarga[2]	630	Gulbarga.	1 191
Yadgir[2]	431	Yadgir.	0·364
Bailhongal[2]	150	Bailhongal.	0·063
Guledgud[2]	400	Guledgud	Starting
Hukeri[2]	400	Hukeri.	0 508
Ilkal[2]	200	Ilkal.	0 07

[1] These are hydel stations [2] These are diesel stations.

The following are some of the other diesel stations with the installed capacity in Kw.: Sandur 78 Kw , Udipi 110 Kw , Karkala 32 Kw ; Mangalore 1 284 Kw.

• Right Bank (Andhra and Mysore) Dam Site and canal stations. Mysore share 1,5th (only two units of 9,000 Kw. now in service).

Sharavathi Hydro-Electric Project It is the biggest hydro-electric project of the country, located at 15 miles from Talaguppa Rly station near Jog, within easy distance of load centres and benefiting Mysore State and ultimately parts of the neighbouring States of Bombay, Andhra, Madras and Kerala Electricity produced in this Rs 40 crore scheme will be the cheapest in India. The foundation was laid by Mr S. K. Patil, former Union Minister for Irrigation and Power on February 5, 1958. When the ten units that are proposed to be installed go into operation in four or five years the Sharavathi hydel station will produce 891,000 Kws. of power.

LARGE-SCALE INDUSTRIES

Main large-scale industries in the State with location : Textiles (Bangalore, Davangere, Bellary, Mysore, Hubli, Gadag, Gokak), Engineering (Bangalore, Harihar), Mineral and Metal (Bangalore, Bhadravati, Bellary, Kolar, Shimoga), Food, drink and tobacco (Bangalore), Chemicals, dyes, etc, (Bangalore, Mysore), Paper and printing (Bhadravati, Nanjangud and Bangalore); Process relating to wood stone and glass (all over the State); Process connected with hides and skins (Bangalore), Gins and presses (Davangere and surrounding areas), Fisheries (Mangalore, Karwar).

Industries owned by State Government : The Central Industrial Workshop, Bangalore ; The Mysore Iron and Steel Works, Bhadravati ; The Government Soap Works, Bangalore ; The Mysore Silk Weaving Factory, Mysore ; The Government Porcelain Factory, Bangalore ; The Mysore Implements Factory, Hassan ; The Government Electric Factory, Bangalore.

The erection of a new cast iron spun pipe plant in the Mysore Iron and Steel Works, Bhadravati was completed in October 1957 at a cost of Rs. 55 lakhs. It will enable the Mysore Iron and Steel Works to increase the production of iron needed for water supply schemes.

The erection of the plant marks the completion of the first stage of the development of the Mysore Iron and Steel Works under the Second Five-Year Plan. The Government of India has provided Rs 6 crores under the Plan for the development of the works.

Major industries owned by the Union Government located in Bangalore : The Hindustan Machine Tools Ltd. ; Bharat Electronics Ltd. ; The Hindustan Aircraft Ltd., Bangalore ; The Indian Telephone Industries, Bangalore.

Government Aided Concerns : The Radio & Electrical Manufacturing Co., Bangalore ; The Mysore Lamp Works, Bangalore ; The Mysore Paper Mills, Bhadravati ; The Mysore Sugar Company, Mandya and The Mysore Industrial & Testing Laboratory Ltd , Bangalore ; The Mysore Spun Silk Mills, Channapatna, The Mysore Chemicals and Fertilisers, Belagula ; The Mysore Tobacco Co curing centres at Mandya, Mysore, Kolar, The Mysore Stoneware Pipes and Potteries, Soladevanahalli, near Chikbanavar Railway Station ; The Mysore Coffee Curing Works, Chikmagalur ; The Mysore Chrome Tanning Co , Bangalore ; The Mysore Lamp Works, Bangalore.

Besides, there are a number of private concerns representing various industries They include The Bangalore Woollen, Cotton and Silk Mills, Bangalore, The Mysore Spinning and Manufacturing Co , Bangalore , Minerva Mills, Bangalore ; Sri Krishnarajendra Mills, Mysore ; Shree Shankara Textile Mills, Davangere ; The Mysore Kirloskar Ltd , Harihar ; Kirloskar Electric Co., Bangalore ; The Mysore Machinery Manufacturers, Bangalore ; Steel Construction Co , Bangalore.

(About 60 per cent of the industries in the State is controlled by the Government.)

The main industries in Belgaum and Dharwar districts are textiles, paper and printing and processes relating to wood, stone and glass. The textile industry supports the largest number of workers. There are three textile mills in Dharwar and one in Belgaum.

In Gulbarga and Raichur districts, the major industries are (1) the Hyderabad Gold Mines Co. Ltd., (2) the Associated Cement Companies Ltd., Shahabad and (3) MSK Mills Ltd., Gulburga (Textiles).

The cashewnut industry is one of the most important both in North and South Kanara. In South Kanara it gives employment to about 5,500 workers. South Kanara produces 2,890 tons of nuts. Besides, about 9,000 tons of cashewnuts are imported from Africa for processing in the local factories.

There are no large scale industries in Coorg except one coffee curing works, a tile factory and a few rice mills.

Figures are available for the output of certain chemicals for the whole State (figures in tons).

An estimate of annual production :

Nitric acid 10 ; sulphuric acid 3,890 ; alum 210 ; aluminium sulphhate 657 ; ammonium sulphate 2,363 ; magnesium sulphate 152 ; copper sulphate 1,150 ; superphosphate 2,323 ; potash alum : 4.

Quantity of fine gold produced per annum : 1.94 lakh ounces. Value . Rs. 488 lakhs.

Quantity of fine silver produced per annum : 14,380 ounces. Value . Rs. 54,000.

LABOUR

The names of industries in the State with number of concerns and employees respectively within brackets for the year ended 31st March 1957 Food except beverage (239 ; 20,245) ; Tobacco (31 ; 6,371) ; Transport (41 ; 5,033) ; Textiles (306 , 52,994) ; Metal products (14 ; 815) ; Machinery (43 ; 29,125) ; Beverage (6 ; 1,968) ; Printing, publishing and allied industries (53 ,1,415) ; Leather and leather products (2 ; 48) , Chemical and chemical products (17 ; 1,337) ; Wood, cork except furniture (19 ; 952) ; Rubber and rubber products (2 ; 793) ; Paper industry (1 ; 1,226) ; Electrical Supply and appliances (1 ; 28) ; Miscellaneous (119 ; 9,944).

Total number of concerns and employees respectively in registered factories (31st March 1957) : 915 ; 1,32,294.

Provisions of the Minimum Wages Act, 1948 are in force in respect of agricultural labour in the following taluks : Bangalore District (Ramanagaram and Devanahalli taluks) ; Mysore District (Gundlupet and Periyapatna taluks) ; Mandya District (Malavalli and Srirangapatna taluks) ; Hassan District (Holenarsipur and Belur taluks) ; Chickmagalur District (Narasimharajapur and Kadur taluks) ; Shimoga District (Sorab and Shikaripur taluks and three of Sagar taluk) ; Talaguppa, Kasaba and Anandapuram (Community project areas) ; Chitaldrug District (Harihar and Chellakere taluks) ; Tumkur District (Pavagada and Kunigal taluks) ; Kolar District (Bagepalli and Srinivasapur taluks) ; Bellary District (Bellary taluk).

In the integrated areas, minimum wages under the Act in respect of agriculture is in force in Raichur and Coorg districts only.

Minimum rates of wages under the Act have been fixed for the following scheduled employment in the merged areas noted below :

Hyderabad Area : Employment in rice, flour and dal mills, oil mills, bidi making, tanneries, stone breaking or crushing, road construction and building operations, agriculture.

Madras Area : Employment in woollen carpet making, flour mills and dal mills, tobacco manufactory (bidi making), plantations, oil mills, local authority, road construction and building operations, stone breaking and stone crushing, mica works, motor transport and tanneries.

Bombay Area : Employment in rice, flour and dal mills, bidi making, oil mills, local authority, stone breaking or crushing, road construction and building operations, public motor transport, tanneries and leather manufactory, printing press, salt pans and ginning and pressing.

Coorg Area : Employment in Coffee plantations, agriculture, public motor transport and cardamom plantations.

Number of tenements put up by employers in Mysore State upto 1957 in the respective divisions : Bangalore Division 2,690 ; Kolar Division (under Mines Housing Scheme) 10,936 ; Shimoga Division 3,061 ; Mysore Division 2,714 ; under Labour Housing Corporation, Mysore 1,291 ; Hubli Division 2,722 ; Mangalore 120 ; Coorg (Mercara) 68 ; Plantation Division 3,849 units ; Gulbarga Division 1,980.

Number of strikes and lockouts in 1954-55: 29.

Number of workers involved : 22,395.

Number of man days lost : 1,63,779.

Number of trade unions : 194 (1955-56) ; 336 (1956-57).

Total membership : 60,035 (1955-56).

Number of labour welfare centres : 10 (1953-54).

Factory labour which is covered by the Labour Housing Scheme totals about 3,200. The Scheme is not in operation in plantation areas.

HOUSING 1956 April—1958 June

Housing Schemes in the State : Subsidised Industrial Housing Scheme and Low Income Group Housing Scheme.

Housing Authority for both schemes : Mysore Housing Board, Bangalore.

Subsidised Industrial Housing Scheme :

Provision in the Second Five Year for housing : Rs. 85·92 lakhs.

Source from which finance is drawn : Loan and subsidy by the Government of India.

Different classes of houses built : Number of tenements constructed 3,252 (3,166 one-roomed and 86 two-roomed).

Number of tenements under construction : 300 (270 one-roomed and 30 two-roomed).

Cost of building house of each class : Single roomed Rs. 3,300 ; two-roomed Rs. 3,850.

Rent charged for each : Single-roomed Rs. 12·50 nP. per month ; two-roomed Rs. 14·50nP. per month.

Financial help to private enterprises : Employers Loan 37½ per cent ; Subsidy 25 per cent. Co-operatives of industrial workers. Loan 50 per cent ; Subsidy 25 per cent.

Total number of houses built through this scheme by the Mysore Housing Board : 3,252.

Low Income Group Housing Scheme :

Source from which finance is drawn : Loan from the Government of India.

Maximum amount of loan admissible for construction of houses : Rs. 6,000 per house. Second Five Year Plan provision for low income group housing : Rs. 244·85 lakhs.

No. of houses constructed by the Mysore Housing Board 271 ; no. under construction 200.

No. of houses, constructed by Government Servants : 34.

No. of houses constructed by the City Improvement Trust Board, Mysore 97.

No. of houses constructed by co-operatives 519 ;

No. under construction 279.

No. of houses constructed by local bodies 48 ; no under construction 122.

Financial help to private enterprises : Rs. 52·50 lakhs to housing societies upto 1956-57; Rs. 8·86 lakhs to local authority upto 1956-57.

No. of houses built through this scheme : 567. (48 houses by local bodies and 519 houses by housing societies.

No. of houses built by Mysore Housing Board : 402.

Provision in the Second Plan for Plantation Labour Housing : Rs. 15·60 lakhs.

SMALL-SCALE INDUSTRIES

Main cottage industries : Leather stitching and ornamental work, flaying, brass works, tannery and smithy, pottery, mat weaving, lacquerware, carpentry, basket-making, tile-making, hand-made paper, coir industry, rattan industry, sandalwood and ivory inlay works, toy-making, druggets, palm gur from Nira, agarbatti, glazing, etc.

More than 25,047 small-scale industrial units employ 61,232 people. The capital invested is Rs. 163·12 lakhs and the estimated gross value of production is Rs. 156·77 lakhs.

Sericulture : Area under mulberry 1·55 lakhs acres ; no. of families directly engaged 0·75 lakhs ; no of families indirectly engaged 2·15 lakhs ; production of raw silk 19 lakh lbs. ; value Rs. 765 lakhs.

Silk looms : Handlooms 4,080 ; power looms 4,600.

Area under graft mulberry 250 acres.

Production of Seed cocoons : Mysore seed cocoons 52 crores ; Foreign seed cocoons : 635 lakhs.

No. of registered seed reares : Mysore 6,800 ; Foreign 625.

Silk Waste production : Improved 17 lakh lbs. ; Filature 1·15 lakh lb. ; Charaka 7·30 lakh lbs.

The former Bombay area being a cotton producing area, hand-spinning and weaving are a subsidiary occupation of the farming community. Almost every homestead produces some coarse yarn and cloth for domestic consumption. Sheep breeding is another industry, supporting the local woollen industry. The woollen blankets of Ranibennur are famous. In North and South Kanara, bee-keeping and bamboo work are among the most important indigenous industries. Coffee works are prominent in South Kanara and Coorg.

In the cotton growing tracts of Bijapur, Belgaum and Dharwar, the handloom industry is the main urban handicraft. Metal work and toy making industries are located in Belgaum and Gokak.

In the former Hyderabad area, agriculture is the mainstay. About three per cent of the population is engaged in cottage and small scale industries. By far the largest number of people are employed in cotton and woollen weaving, cement products and pottery, bee-keeping and basket-making industries. Tanning, silver inlay work, oil crushing, salt making, gur making, beedi and soap manufacture are other small scale industries in this area.

Chief minerals/location/quantity (annual average) : Gold (Kolar, 193,967 ounces), Iron Ore (Bhadravati, 206,929 tons) ; Asbestos (Chikmagalur and Bangalore districts, 30 tons) ; Chromite (Mysore, Mandya and Shimoga districts, 9,893 tons) ; Manganese (Shimoga, Chitaldrug, Bellary and Tumkur districts, 3,781 tons) ; Mica (Mandya, Hassan, Mysore and Shimoga districts, 50 tons) ; Kayolin (Bangalore, Chikmagalur districts, 10,290 tons) ; Other minerals (Corundum, feldspar, kyanite, magnesite, copper, lead, antimony, lime-stones, soap-stones and ornamental stones found in various parts of the State).

Total number of men employed : About 36,000.

Number of men employed in each mineral industry : Gold (25,900) ; Other minerals (10,100).

Total value of mineral production in a year : About Rs. 7 crores.

In the merged areas there is gold in the Hatti and Kappat ranges and the Ainavar and Malaprabha basin. The other important minerals are iron, manganese, bauxite, copper, saltpetre, beryl, building and ornamental stones, limestones, asbestos, chromite and sulphur.

PUBLIC HEALTH

Commonest diseases with mortality in 1956 in brackets : Malaria (11,578), T.B. (3,314), Plague (87), Small-pox (532), Cholera (116), Typhoid (2,445), Other Fevers (16,731), Dysentery and diarrhoea (8,342), Respiratory diseases (4,923), Leprosy (463), Maternal deaths (1,193).

No. of allopathic hospitals : 157.

No. of allopathic dispensaries : 619.

Total no. of beds in allopathic hospitals : 9,248.

No. of ayurvedic and unani dispensaries 460.

Special hospitals with no. of beds within brackets : Eye hospital : 1 (175) ; T B. hospitals and sanatoria : 7 (958) ; Leprosy hospitals : 3 (337), Infectious diseases hospitals : 3 (188), Maternity and child welfare hospitals : 49 (1,665), Mental hospitals : 2 (549).

Total no. of allopathic doctors : 1,234

Total no. of ayurvedic and unani doctors 505.

Total no. of nursing staff : 723.

Total no of midwives : 664.

No. of medical colleges : 4 (1958)

Total no. of students in Colleges 600 (approx.).

No. of primary health Units (1957-58)

Allopathic dispensaries : 204, no of beds in allopathic hospitals and dispensaries 441

EDUCATION

Position in relation to the whole State as on March 1956 :

	Institutions	Teachers	Students
Universities (2)	61	1,740	30,875
High Schools ..	548	8,279	193,705
Middle Schools ..	1,657	11,099	297,439
Primary Schools	20,164	43,924	1,472,865
Basic Schools .	441	1,669	40,799
Area served by each school (in sq. miles) ..			3
Population served by each school ..			818

Kinds of institutions as in March 1956

First Grade Colleges 27 ; Intermediate Colleges 17 ; Professional Colleges 26 ; Oriental Colleges 6 ; High Schools 548 ; Middle Schools 856 ; New Type Middle Schools 801 ; Lower Primary Schools 20,164 ; Junior Basic Schools 441 ; Nursery Schools 95 ; Training Institutions for Occupational Institutes 10 ; Industrial Schools 19 ; Medical Schools 7 ; Agricultural Schools 6 ; Commercial Schools 98 ; Oriental Schools 15 ; Music, Dance, Fine Arts, etc. 18 ; Schools for the Handicapped 1 ; Reformatory Schools 65 ; Adult Literacy Classes 4,523 ; Research Institutions 5 ; Arts and Crafts 8 ; Others 10.

Total : 27,922.

Professional Colleges would be broken up as follows. The number of students is shown in brackets :

Education and teachers' training 5 (210), Medicine 3 (1,056), Commerce 4 (1,432), Law 2 (490), Agriculture 2 (257), Engineering 2 (2,449), Textiles 2 (89).

TRANSPORT

Government Road Transport Department figures for March 1957 :

Total no. of vehicles : 1,121.

No. of trucks : 20.

Canadian trucks for goods transport : 163.
Department Vehicles : 58.
No. of routes : 661.
Route mileage : 20,938.
No. of schedules : 703.
Scheduled mileage per day : 87,113.
No. of passengers carried per day : 123,691.

Total length of State highway coming under the jurisdiction of the P.W.D. after the reorganization of States : 9,594 miles 7 furlongs (cement concreted 277 miles 5 furlongs ; black topped 1,502 miles ; metalled 7,367 miles 3½ furlongs ; other types 447 miles 6½ furlongs).

Total length of national highways coming under the jurisdiction of the P.W.D. after the reorganization of States : 558 miles 4 furlongs (cement concreted 16 miles 3 furlongs ; black topped 493 miles 3 furlongs ; metalled 48 miles 6 furlongs).

Ports and harbours : Coastline 200 miles ; No. of airports 4 ; no. of airstrips 4.

POTENTIALITIES

The area constituting old Mysore is industrially advanced as can be seen from the number of small-scale and big industries located there. The region outside old Mysore has vast economic resources, though no scientific survey has been conducted to assess these yet. In point of variety and abundance, some of its resources, more particularly its food and commercial crops, are among the best in the country.

The Kannada-speaking areas of former Bombay, Madras, Hyderabad and Coorg are not very thickly populated. The density of population being slightly below the all-India average and the food resources being adequate, there is no undue pressure on land as in other parts of the country, although dependence on agriculture is almost of the same degree as elsewhere.

Absence of electric power has been the main cause of the industrial backwardness of this region. There is not a single major industry worth the name. There are, however, at least 30 sites, so far mapped, where hydro-electric power can be developed. Besides, the Mahatma Gandhi Hydro-Electric Project has plans for expansion to cover the entire Kannada-speaking area.

This area constitutes the oldest geological region in India. Karnataka's soils are next only in importance to its mineral wealth. Apart from their high fertility value in respect of food crops, they yield such important commercial crops as cotton, oilseeds, tobacco, indigo, mulberry, sugarcane, firewood, teak, bamboo, sandalwood and a myriad variety of forest produce. Tea, coffee, cinchona, spices, eucalyptus, pepper, cardamom and rubber can also be added to this list. The area's black cotton soil is famous.

Minerals will be the bedrock of the future prosperity of this area. There is great variety and richness of mineral resources. As already mentioned, places where gold can be mined include Hatti, Kapgal ranges, Ainavar and the Malaprabha basin. The other important minerals to be found are iron, manganese, bauxite, copper, salt-petre, beryl, building and ornamental stones, limestones, asbestos, chromite and sulphur.

High quality fish is available in abundance along the North Kanara and South Kanara coast. Auxiliary products like fish-oil, guano, paste, manure, maws, fins, and shells are also available. Salt is another important article which is available in abundance along the coast. Although this industry has dwindled in recent years, the North Kanara district alone can export 25,000 tons of salt every year. The salt resources of South Kanara are twice those of North Kanara.

The commercial importance of forest products of this area is, indeed, high. Timber ranks high. North Kanara produces one of the best Indian teaks.

BUDGET 1958-59

Revenue : Rs. 5,096 65 lakhs.
Expenditure : Rs. 5,082·60 lakhs.
Surplus : Rs. 14 05 lakhs.

SECOND FIVE-YEAR PLAN

Total allotment : Rs. 144·85 crores.
Major Heads :

	Rs. Crores.
Agriculture & Community Development	29·25
Irrigation & power	62·81
Industries	10·33
Transport & communications	8·83
Education	11·37
Public Health	13·08
Housing	4·79
Social services	3·69
Miscellaneous	0·71
Total	144·85

A ceiling of Rs. 30 crores was put on the total expenditure for 1957-58. Schemes involving an expenditure of Rs. 2,868 588 lakhs were prepared for 1957-58. The individual allotments were :

Major Heads :	Rs. lakhs
Agricultural production	111·353
Minor irrigation	54·000
Animal Husbandry	20·552
Land Development	3·200
Dairying and Milk Supply	5·640
Forest	21·064
Co-operation	51·490
Marketing & Warehousing	13·410
Fisheries	14·010
Horticulture	1·208
Community projects & NES	188·460
Major & Medium irrigation	711·250
Power	480·750
Village & Small-scale Industries	160·520
Large & Medium Industries	84·850
Roads & Communications	156·500
Road transport	39·850
Education	292·845
Health	235·119
Housing	90·120
Labour & Labour welfare	29·150
Welfare of Backward Classes & Social Welfare	48·020
Statistics & Publicity	5·227
Development of area under Tungabhadra Project	50·000

EDUCATIONAL INSTITUTIONS

UNIVERSITY OF MYSORE

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Sanskrit, N. Shivarama Sastry, M.A.
Urdu, Persian and Arabic, Dr. Khizer Ali Khan, M.A., Ph.D.
Political Science, K. B. Y. Thotappa, M.A., Ph.D.
Philosophy, N. A. Nikkam, M.A. (Cantab.).
Psychology, Dr. B. Kuppuswami Naidu, M.A., D.Litt.
History, Vacant.
Physics, S. B. Bondade, B.A., LL.B., B.Sc. (Hons.) (Lond.).
Chemistry, Dr. G. Narayan, M.Sc., Ph.D.
Mathematics, P. H. Nagappa, M.Sc., A.I.A.
Mathematical Economics and Statistics, S. K. Ekambaram, B.Sc. (Hons.), M.A. (Cantab.).
Botany, K. N. Narayan, M.Sc., Ph.D.
Zoology, Dr. B. R. Seshachar, D.Sc.
Indology, M. Seshadri, M.A., Ph.D. (Lond.).

This is a teaching and affiliating University.
No. of constituent colleges : 10.
No. of affiliated colleges : 27.
Total No. of Students during 1957 : 30,875.

Estimates (1957-58) :
Government Grant : Rs. 50,00,000.
Opening Balance : Rs. 17,20,043.
University (fees, etc.) : Rs. 17,69,300.
Total Expenditure : Rs. 84,89,343.

LIST OF COLLEGES

Central College, Bangalore.
College of Commerce, Bangalore.
College of Engineering, Bangalore.
Yuvaraja's College, Mysore.
First Grade College, Tumkur.
First Grade College, Shimoga.
Intermediate College, Bangalore.
Intermediate College, Chikmagalur.
Intermediate College, Chitaldrug.
Intermediate College, Davangere.

Intermediate College, Hassan.
Intermediate College, Kolar.
Intermediate College, Mandya.
Maharaja's College, Mysore.
Maharani's College for Women, Bangalore.
Maharani's College for Women, Mysore.
Medical College, Mysore.
Teachers' College, Mysore.
Agricultural College, Bangalore.
Basappa Intermediate College, Bangalore.
B.M. Sreenivasiah College of Engineering, Bangalore.
B.D.T. College of Engineering, Davangere.
D. Banumiah's College of Commerce, Mysore.
Law College, Bangalore.
Mount Carmel College, Bangalore.
National College, Bangalore.
Sarada Vilas College, Mysore.
Sri Krishnarajendra Silver Jubilee Technological Institute, Bangalore.
St. Joseph's College, Bangalore.
St. Philomena's College, Mysore.
The National Institute of Engineering, Mysore.
Vijaya College, Bangalore.
Bangalore Medical College, Bangalore.
Medical School, Bangalore.
Veerasiva College, Bellary.
Rashtreeya Vidyalaya Teachers' College, Bangalore.
Intermediate College, Konanur (Hassan District).
Sharadavilas Law College, Mysore.
Vidyodaya Intermediate College, T. Narasipur.
Intermediate College, Kanakapura.
Institute of Education, Mysore.
All-India Institute of Mental Health, Bangalore.
College of Arts and Commerce, Malleswaram, Bangalore.
Acharya Patasala College of Arts and Commerce, Basavangudi, Bangalore 4.
Intermediate College, Chamarajanagar.
Saradavilas Law College, Mysore.
Government College, Mercara.

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Engineering College :

Civil Engineering, D. B. Narasimhiah, B.E., M.Sc. (Mech.), M.Sc. (C.E.), Dip. in Tech., A.M.A.S.C.

Electrical Engineering, W. J. Paul Raju, B.A., B.E.

Mechanical Engineering, B. R. Narayana Iyengar, B.Sc., B.E.S.M. (Mech.), M.I.T., A.M.I.E. (Ind.).

Mathematics, K. Venkatachallengar, D.Sc.

Commerce College :

Commerce, Dr. G. Ramakrishna Reddy, M.A., Ph D.

Medical College :

Anatomy, Y. Appajee, B.A., M.B.B.S. (Cal.), M.Sc. (Lond.).

Pathology, Charles D'Souza, B.Sc., M.B.B.S., M.S. (Path.), D.B. (Manch.).

Phisiology, Vacant.

Hygiene, B. N. Lingaraju, M.B.B.S., D.P.H., M.P.H.

Pharmacology, G. S. Raghunatha Rao, B.Sc., M.B.B.S., D.Phil. (Oxon.).

Part-time Professors (Medical College) :

Medicine, Basavaraj Urs, B.Sc., M.B.B.S., D.T.M. & H., F.F.P.S.; Vacant.

Surgery, A. K. Gopalarajan, M.B.B.S., F.R.C.S. (Edin.).

Clinical Surgery, K. Krishnamurthy, B.Sc., M.B.B.S., M.S., F.R.C.S., (Edin).

Midwifery, Vacant.

Gynaecology, Smt. Jayalakshmi Yagnanarayana Iyer, M.B.B.S., F.R.C.S.

Ophthalmology, S. T. Puttanna, B.Sc., M.B.B.S., D.O.M.S. (Eng.).

Forensic Medicine, Vacant.

Teachers' College :

Education, A. C. Deve Gowda, M.A. (Col.), B.T., M.Ed. (Leeds), Dip.-Edn.; C. Rangachar, B.Sc., M.Ed. (Leeds).

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Business Manager : R. H. P. Dart.

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Bangalore 3.

The departments of the Institute provide facilities for post-graduate research in Inorganic Chemistry, Physical Chemistry, General Chemistry, Organic Chemistry, Bio-chemistry, Physics, Aeronautical Engineering, Internal Combustion Engineering, Metallurgy, Power Engineering (Electrical, High Voltage, Mechanical, and Civil and Hydraulic Engineering), Electrical Communication Engineering, Chemical Technology and Chemical Engineering, Pharmacology, Fermentation Technology and Applied Mathematics. Facilities for research in Industrial Engineering and Administration, Economics and Industrial Psychology also exist.

There is also provision for post-graduate instruction in Aeronautical Engineering, Internal Combustion Engineering, Metallurgy, Power Engineering (Electrical, Mechanical and Civil and Hydraulic Engineering), Electrical Technology, Electrical Communication Engineering, Chemical Engineering, Foundry Engineering, Automobile Engineering, High Voltage Engineering, Soil Mechanics and Foundation Engineering, Electronic Engineering, Ultra Short and Microwave Engineering, Line Communication Engineering and Acoustical Engineering, and for background teaching in Economics and Social Sciences, French and German. Part-time courses in Industrial and Production Engineering and in Industrial Administration have been started. The departments are well equipped and have adequate staff.

A fuels and lubricants laboratory was started on July 2, 1955.

The Library of the Institute contains about 55,000 volumes of journals and books.

Conferments: Diplomas (D.I.I.Sc.) are awarded by the Council on the recommendation of the Senate to students who have completed satisfactorily courses of studies approved by the Senate.

Associateships (A.I.I.Sc.) equivalent to 1st Class M.Sc. degree of a University are awarded by the Council on the recommendation of the Senate to students possessing prescribed minimum qualifications who have devoted a minimum of two years entirely to research and have presented a thesis of the work done during the period.

Membership: (M.I.I.Sc.) which shall be equivalent to the Ph.D. degree of a University, may be awarded by the Council on the recommendation of the Senate to students: (i) who are Associates or who hold the Diploma of the Institute in Power Engineering or an M.Sc. degree by research or a first class M.Sc. degree, or in the event of there being less than five first classes in any year, the first five in rank in the M.Sc. examination provided they have passed in the first or second class, and who have devoted a minimum of one year entirely to research work and have submitted a thesis which is approved by the Senate; and (ii) who possess the following minimum qualification for admission and who have devoted a minimum of three years entirely to research work and have submitted a thesis which is approved by the Senate:—D.I.I.Sc. (other than P.E.), B.E. I or II class, M.Sc. with at least 50 per cent marks in the aggregate, B.Sc. Hons. (3 year course) I or II class with at least 50 per cent marks in the aggregate, B.Sc. Hons. (2 year course) I class and B.Sc. and B. Pharm. I class or with 60 per cent marks in the aggregate.

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Honorary Fellowships of the Institute may, on the recommendation of the Council, be conferred by the President of India who is the Visitor of the Institute on persons who have attained eminence in the field of science or industry or who have rendered signal service to the Institute.

The scientific work of the Institute is recorded in the Journal of the Indian Institute of Science, published every quarter in January, April, July and October.

Budgeted expenditure for 1957-58: Rs. 34,03,000 (recurring); Rs. 14,42,000 (non-recurring).

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Director, Dr. S. Bhagavantham, D.Sc.
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Organ: The Aryan Path (Monthly) edited by Sophia Wadia.
London Branch: 62, Queen's Gardens, W. 2.

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Asstt. Priest : The Rev. E. S. Paramanandam, L.M. & S. ; *Deacon :* The Rev. Pritam Singh.
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OTHER TRADE AND COMMERCIAL ASSOCIATIONS

Mysore Silk Cloth Merchants' Association (Wholesale), Avenue Road, Bangalore.
Licensed Electrical Contractors' Association, Avenue Road, Bangalore.
Mysore Silk Handloom Weavers' Association, Jumma Masjid Road, Bangalore.
Bangalore Ready-Made Dress Manufacturers' Association, Chickpet, Bangalore.
Bangalore Grain Merchants' Association, Chamarajpet, Bangalore.
Radio Merchants' Association, 6-D, Brigade Road, Bangalore.
Indian Coffee Board, Kempegowda Road, Bangalore.
Cycle Dealers' Association, Sri Narasimharaja Road, Bangalore.
Tobacco Wholesale Merchants' Association, Avenue Road, Bangalore.
Mysore State Beedi Manufacturers' Association, 28, Mohamedan Block, 4th Cross, Chamarajpet, Bangalore.
Bangalore Commercial Association, Bangalore.
Hindu Hotels Association, Bangalore City.
Mysore Bankers' Association, Bangalore.
Concrete Association of India, Sri Narasimharaja Road, Bangalore.

OTHER SOCIAL, CULTURAL, LITERARY, RELIGIOUS, ETC. ASSOCIATIONS

Rotary Club of Bangalore, 36, Residency Road, Bangalore.
Shorthand Writers' Association, District Office Compound, Bangalore.
Bangalore City Institute, Fort South Gate, Bangalore.
United Lodge of Theosophists, Sir Krishna Rao Road, Basavanagudi, Bangalore.
Young Men's Christian Association, Civil Station, Bangalore.
Anglo-Indian Association, 5-B, Magrath Road, Bangalore.
Institute of Public Administration, Vidhan Soudha, Bangalore.
Institute of Tele-Communication Engineers, C/o Indian Telephone Industries, Bangalore.
Institute of Management, C/o Hindustan Aircraft Ltd., Bangalore.
Malleswaram Ladies Association, 15th Cross, Malleswaram, Bangalore.
Kannada Sahitya Parishat, 4, Hardinge Road, Chamarajpet, Bangalore.
Mysore State Ayurvedic Congress, Jayachamarajendra Institute of Indigenous Systems of Medicine, Bangalore.
Ex-Servicemen's Association, 9, Main Road, Munireddipalyam, Bangalore.
Sri Kasturba Gandhi Hindi Shikshana Shala, 111 Main Road, Chamarajpet, Bangalore.
Mysore Hindi Sahitya Parishat, Chamarajpet, Bangalore 2.
Central Unani Medical Practitioners' Association, Nagarthapet.
Maharashtra Mandal, Gandhi Nagar, Bangalore.
Maharashtra Mahila Mandal, Basavanagudi, Bangalore.
Mysore State Branch of Red Cross Society, Bangalore 4.
Catholic Club, Civil Station, Bangalore.
Free Masons Lodge, Civil Station, Bangalore.
Servants of India Society, Basavanagudi, Bangalore.
Sindhi Refugee Union, Commercial Street, Bangalore.
Mysore Horticultural Association, Lalbaug, Bangalore.
Sri Ramakrishna Students' Home, Basavanagudi, Bangalore.
Kanara Union, Malleswaram, Bangalore.
Central Mohammedan Association, Arcot Srinivasachar Street, Bangalore.
Parsi Anjuman Club, Civil Station, Bangalore.
Social Welfare Board, Bangalore 4.
Sri Bharat Seva Mandali, Cubbonpet, Bangalore.

BANGALORE DISTRICT

Area : 3,072 sq. miles ; *Population :* 2,127,061.

Headquarters : Bangalore.

Talukas with area in square miles and population respectively within brackets : Bangalore Corporation (26 ; 7,78,977) ; Bangalore North (163 ; 1,60,488) ; Bangalore South (229 ; 1,41,222) ; Hoskote (260 ; 1,12,130) ; Devanhalli (226 ; 90,302) ; Doddaballapur (312 ; 1,09,754) ; Nelamangala (256 ; 1,06,514) ; Magadi (358 ; 1,36,442) ; Channapatna (206 ; 1,31,403) ; Ramanagaram (244 ; 92,769) ; Kankanahalli (589 ; 1,68,789) ; Anekal (203 ; 98,271).

The average rainfall is 34·08 inches. The District has a forest area of 314·1 sq. miles.

Bangalore is the headquarters. It is 26 sq. miles in area and has an estimated population of 1,101,600 (1956). It is a centre of many State-owned and private industries, such as soap, porcelain insulators, electrical transformers, gas mantles, gas lamps, glassware, pharmaceutical products, vegetable oil products, chrome tanned leather, nakki, gotta and lametta. Some of these industries are being carried on on a cottage industry scale. There are also woollen and cotton and silk mills.

Channapatna is situated to the south-west of Bangalore on the Bangalore-Mysore Railway. It has a population of 24,041. The town is noted for the manufacture of lacquer toys and the drawing of wire for musical instruments. It is also a centre for sericulture in the State. It contains a Government Silk Farm and the Mysore Spun Silk Mills, a Government-aided enterprise. Large quantities of coconuts and betel leaves are produced in the town. Considerable quantities of mangoes are also exported.

CLUBS IN BANGALORE

Century Club, Cubbon Park, Bangalore.
Basavanagudi Union and Services Club, Bangalore.
Basavanagudi Union and Ladies' Club.
Recreational Club, Malleswaram.
Bowring Institute, St. Mark's Road, Bangalore.
Bangalore Race Club, Bangalore.
Bangalore Club, Civil Station, Bangalore.
Bangalore Golf Club, Bangalore.
Mysore State Cricket Association, Bangalore.
Mysore State Hockey Association, Bangalore.
Mysore State Football Association, Bangalore.

LIBRARIES IN BANGALORE

Public Library, Cubbon Park, Bangalore.
Kannada Sahitya Parishat (Library), Bangalore.
Gandhi Sahitya Sangh, Malleswaram, Bangalore.
U.S.I.S. Library, Sri Narasimharaja Road, Bangalore.

CINEMA HOUSES IN BANGALORE

Alankar, Bangalore City.
Asoka Talkies, Bangalore Civil Station.
Bharat Talkies, Bangalore City.
Central Talkies, Bangalore City.
Elgin, Bangalore Civil Station.
Everest, Bangalore Civil Station.
Geetha, Bangalore City.
Himalaya, Bangalore City.
Jai Hind Talkies, Bangalore City.
Kempe Gowda Talkies, Bangalore City.
Lakshmi Talkies, Bangalore City Station.
Liberty, Bangalore Civil Station.
Majestic, Bangalore City.
Minerva Talkies, Bangalore City.
Movieland, Bangalore City.

New City, Bangalore City.
New Empire, Bangalore Civil Station.
New Imperial, Bangalore Civil Station.
New Opera, Bangalore Civil Station.
Palace Talkies, Bangalore Civil Station.
Paramount Talkies, Bangalore City.
Plaza, Bangalore Civil Station.
Prabhat, Bangalore City.
Regal, Bangalore City.
Rex, Bangalore Civil Station.
Roopamahal, Bangalore Civil Station.
Sagar, Bangalore City.
Shivaji, Bangalore City.
Shree, Bangalore Civil Station.
States, Bangalore City.
Super, Bangalore City.
Swastic, Bangalore City.
Vijayalakshmi, Bangalore City.

HOSPITALS IN BANGALORE

Victoria Hospital, City Market Square, Bangalore.
Vani Vilas Hospital, Fort, Bangalore.
Mental Hospital, Hosur Road, Bangalore.
Minto Ophthalmic Hospital, Albert Victor Road, Bangalore.
Central Leprosarium, Magadi Road, Bangalore.
St. Theresa's Tuberculosis Hospital, Bangalore.
Bowring Hospital, Hospital Road, Bangalore.
Lady Curzon Hospital, Hospital Road, Bangalore.
Hajee Sir Ismail Sait Gosha Hospital, Tasker Town, Bangalore.
Isolation Hospital, Old Madras Road, Bangalore.
St. Philomena's Hospital, Bangalore 1.
St. Martha's Hospital, Kempegowda Road, Bangalore.
Jail Hospital, Bangalore.
Epidemic Diseases Hospital, Bangalore.
Santhabai Deva Rao Shivaram Sanatorium, Bangalore.
Zenana Mission Hospital, Col. Hill Road, Bangalore.
Tuberculosis Sanatorium, Bangalore 1.
Hospital for Women and Children, Malleswaram, Bangalore.
Sri Jayachamarajendra Institute of Indian Medicine, Seshadri Road, Bangalore.

HOTELS

Central Hotel, Queen Statue Circle, Bangalore Civil Station.
High Ground Hotel, High Ground, Bangalore Civil Station.
Bharat Bhawan, Bangalore Civil Station.
Hotel Embassy, Civil Station.
Hotel Greenland, Civil Station.
Kingston Guest House, 15, Richmond Road, Bangalore Civil Station.
Manel Guest House, 11-C, St. Marks Road, Bangalore Civil Station.
Shilton House, 1, Grant Road, Bangalore Civil Station.
West End Hotel, Race Course Road, Bangalore Civil Station.
Bombay Ananda Bhavan Boarding & Lodging House, 1, Old Goor House Road, Bangalore Civil Station.
National Boarding & Lodging House, 52, Veerapillai Street, Bangalore Civil Station.
Saraswati Vilas Boarding & Lodging House, 55, Jeweller's Street, Bangalore Civil Station.
Subramania Vilas, 124, Veerapillai Street, Bangalore Civil Station.
Bombay Ananda Bhavan Boarding House, Chickpet, Bangalore City.
Sastry's Hotel, Chickpet, Bangalore City.
Malabar Lodge, Rameshawar Temple Street, Chamarajpet, Bangalore City.
Modern Hindu Hotel, Seshadri Road, Bangalore City.
Modern Indian Lodge, Platform Road, Bangalore City.
Neo Mysore Cafe & Boarding House, Kempegowda Road, Bangalore City.
New Malabar Lodge, Balepet, Bangalore City.
Prabhat Boarding & Lodging House, Chickpet, Bangalore City.
Udipi Brahmins' Hotel, Chickpet, Bangalore City.
Sukhananda Hotel, Cubbon Road, Bangalore Civil Station.

COTTON MILLS

BANGALORE WOOLLEN, COTTON AND SILK MILLS CO. LTD.

Spindles 46,240; Looms 1,157. Messrs. Binny & Co. (Madras) Ltd., Secys., Managing Agents, 7, Armenian Street, Madras. Mills at No. 1, Agraharam Road, Bangalore 2.

MINERVA MILLS LTD.

Spindles 39,896; Looms 704. Messrs. N. Sirur & Co. Private Ltd., Mg. Agents, Temple Bar Building, 70 Forbes Street, Fort, Bombay. Mills at Magadi Road, Bangalore 2.

MYSORE SPINNING AND MANUFACTURING CO. LTD.

Spindles 50,492; Looms 500. Messrs. N. Sirur & Co. Private Ltd., Mg. Agents; Temple Bar Building, 70, Forbes Street, Fort, Bombay. Mills at Malleshwaram, Bangalore 3.

†RAMKUMAR MILLS LTD.

Spindles 19,780; Looms 420. M/s Yallaya Bros. Ltd. Mg. Agents, Sudhama House, Chickpet, Bangalore 2. Mills at Bangalore.

SHREE KRISHNA SPINNING & WEAVING MILLS PRIVATE LTD.

Looms 180; Messrs. Yadalam Subbiah Setty & Sons, Mg. Agents, Basavangudi, Bangalore 4. Mills at Subramanyapura, [illegible] South Taluk.

SHREE SURYODAYA MILLS PRIVATE LTD.

Formerly Bangalore Spinning & Weaving Mills. Looms 105. R. Rama Setty, Mg. Director, C/o Maruthi Mans[illegible] Davangere. Mills at Yeshvantpur, Bangalore North Taluk.

T. R. MILLS LTD. †

Looms 208. D. R. Madhava Krishnaiya, Mg. Dir., Office on Mill premises. Mills at Chamarajpet, Bangalore 3.

† Statement for August 1957 not received. Figures taken from 1956 statement.

BANGALORE MUNICIPAL CORPORATION

Mayor, Y. Ramachandra, B.Sc., B.L.
Deputy Mayor, Shrimati C. Sharada, B.Sc., B.L.
Commissioner, K. Narasimhaiengar, I.A.S.
P.A. to the Commissioner, N. Siddalingappa, M.A., LL.B.
Council Secretary, S. Balasubramanian, M.A., L.T.
Engineer, R. L. Raju.
Health Officer, Dr. S. R. Bhombore, M.B.B.S., D.P.H., M.P.H.
Manager, M. Swaminathan, M.A.
Head Accountant, D. Narasimhamurthy Rao.
Special Officer, Depressed Classes Amelioration, T. P. Rachappa, B.A.
Physical Education Officer, A. R. Chikapapiah.

COUNCILLORS

M. R. Narasimha Iyengar (*Division No.* 1); N. Subbiah (*Division No.* 2); K. Devaya (*Division No.* 3); M. Ramaiah (*Division No.* 4); V. R. Naidu (*Division No.* 5); M. G. Seshadri (*Division No.* 6); H. L. Nanjappa (*Division No.* 7); V. Thammaiah (*Division No.* 8); Muniswamappa (*Division No.* 9); Y. Ramachandra (*Division No.* 10); B. H. Sanjeevappa (*Division No.* 11); S. V. K. Rajan (*Division No.* 12); T. Krishnappa (*Division No.* 13); P. N. Narayan (*Division No.* 14); K. Thoppaian (*Division No.* 15); G. Narayana (*Division No.* 16); S. Krishna Rao Pawar (*Division No.* 17); M. Rangiah Naidu (*Division No.* 18); P. Veerappa (*Division No.* 19); V. S. Krishna Iyer (*Division No.* 20); C. G. Rama Rao (*Division No.* 21); T. R. Shamanna (*Division No.* 22); R. Vajrappa (*Division No.* 23); K. C. Puttanna (*Division No.* 24); L. Subbaraj (*Division No.* 25); P. Thimmiah (*Division No.* 26); Y. B. Panashankarappa (*Division No.* 27); K. Shikarappa (*Division No.* 28); I. P. Jitendra (*Division No.* 29); B. K. M. Gowda (*Division No.* 30); G. T. Hemanna (*Division No.* 31); Patel M. Anjane Gowda (*Division No.* 32); S. N. Jerome (*Division No.* 33); S. Sunder Raj (*Division No.* 34); P. S. K. Naidu (*Division No.* 35); D. Bhaskaran (*Division No.* 36); A. Nanjappa (*Division No.* 37); B. K. Sriramaiah (*Division No.* 38); S. A. Azeez Dawood (*Division No.* 39); M. M. Devaraja Chettiar (*Division No.* 40); M. Jagadeesan (*Division No.* 41); Venkatesulu (*Division No.* 42); B. S. Narayanaswamy (*Division No.* 43); A. N. Srinivasan (*Division No.* 44); S. Hameed Shah (*Division No.* 45); N. R. Murthy (*Division No.* 46); S. A. Asirvatham (*Division No.* 47); K. Rajasekharappa (*Division No.* 48); B. Nanjappa (*Division No.* 49); P. D. Govindaraj (*Division No.* 50).

Depressed Classes (Reserved)

A. S. Mani (*Division No.* 4); Siddappa (*Division No.* 9); B. M. Sampangi (*Division No.* 15); C. Obiah (*Division No.* 16); P. M. Venkatesh (*Division No.* 45); Selvaraj Rathnam (*Division No.* 50).

Women (Reserved)

Smt. B. Indiramma, M.A., Dip. in Ed. (*Division No.* 1); Smt. Leeladevi Renuka Prasad (*Division No.* 13); Smt. P. R. Jayalakshamma (*Division No.* 23); Smt. Annapurnamma (*Division No.* 29); N. Kamalammal (*Division No.* 37); Vacant (*Division No.* 40).

Labour Electorate I

K. Sriramulu; B. Kanniah.

Labour Electorate II

M. Pallavelu; D. S. Sriramalu.

Mysore Chamber of Commerce

K. M. Nanjappa; T. N. C. Satagopan.

Bangalore Trades Association

P. Kuppuswamy.

Bangalore Commercial Association

Jaffer Haji Ebrahim Sait.

Aldermen

Jeenabhai Devidoss; G. V. Challam; N. Narain Chetty; B. M. Seenappa; Mrs. Vasia Begum Sadiq Suhael.

Special Councillor

The Station Staff Officer, Bangalore.

BUDGET ESTIMATES FOR 1958-59

Revenue: Rs. 2,09,07,900.
Expenditure: Rs. 2,07,64,000.
Surplus: Rs. 1,43,900.

BELGAUM DISTRICT

Headquarters : **Belgaum.**

Belgaum District with Belgaum as its capital, is bounded on the north by Kolhapur and Satara South Districts; on the east by Bijapur; on the south by the Districts of Dharwar and North Kanara; on the west by the territory of Goa and Kolhapur District.

The area of the District is 5,380 square miles and the population according to 1951 census is 16,46,395. The languages spoken are Kannada and Marathi.

The talukas with their area in sq. miles and population respectively within brackets : Athani (744 ; 1,85,609) ; Belgaum (394 ; 2,81,087) ; Khanapur (675 ; 99,872) ; Parasgad (611 ; 1,24,935) ; Raibag (372 ; 91,449) ; Chikodi (479 ; 2,69,834) ; Hukeri (382 ; 1,74,414) ; Ramdurg (470 ; 90,051) ; Sampgaon (435 ; 1,54,494) ; Gokak (596 ; 1,74,650).

The country is a large plain studded with solitary peaks and broken here and there by the low ranges of Sahyadri hills. In the north and east the land is level and well-cultivated, but in the west it is intersected by spurs of the Sahyadri Range thickly covered in some places with forests. The District contains both black and red soils and produces mostly grains, pulses, oil-seeds, fibres and cotton. The average rainfall in Belgaum is 41·5 inches.

Belgaum, the Divisional and District headquarters, has a very pleasant climate especially in the hot season and it is described as the 'Mahableshwar of the poor.' It has retained its historic importance in the form of an imposing fortress (which is just near Belgaum City) built in the Mogul period. A memorial in the form of a bust of Rajasaheb Bhave the famous ruler of Ramdurg, who for his participation in the 1857 uprising, was publicly hanged at Belgaum by the British, has been put up in the heart of Belgaum City. It is a cantonment and a station on the Southern Railway. It is a busy centre throwing on all its sides well maintained roads connecting the districts of Dharwar, Bijapur and North Kanara of Mysore State and also southern Maharashtra and the Goa territory. It is an important centre of the State Transport Bus Service and is the Headquarters of the Belgaum Division of the new Mysore State.

There are a big travellers' bungalow and inspection bungalow for the Government touring officers and a well-established private hotel, Hotel Green. There are also a Civil Hospital, a Military Hospital, two well-equipped private hospitals and half a dozen maternity hospitals in the city. The eye hospital of Padmashri Dr. Mody, the well-known eye Surgeon, situated at Khasbag only a mile from Belgaum Railway Station, is the pride of Belgaum. Belgaum has a Government Vaccine Institute which regularly supplies lymph in great quantities to the whole of Bombay and Mysore States and even outside areas on demand. For the training of military cadets and also for the children of the civilians there is a residential institution called King George Public School in the Camp and the well-known Mahratta Light Infantry Regimental Centre.

There is a Guidance Institute in Belgaum for guiding the students appearing for the Defence Service examinations and the Public Service Commission examinations.

The health and sanitation of the Camp area is managed by the Cantonment Board and of the Belgaum City by the Belgaum Borough Municipality of more than a hundred years' standing. The official language of the Municipality is Marathi.

In the city and the Camp area there are five Colleges, two Arts, and one Science College, one Law College, one College of Commerce, one College for the training of Secondary School Teachers, all affiliated to the Karnatak University. There are about 19 High Schools of which five are exclusively for girls which send up students for the S.S.C. Examination. There is a Government-Technical High School with the prospect of developing into a Polytechnic for providing diploma courses in different branches of engineering and later into a College of Engineering. Under the First and Second Five Year Plans two local high Schools have been converted into multi-purpose high schools. Mahila Vidyalaya High School for Girls imparting instruction in Home Science and Sardar's High School (the only High School run by Government) imparting instruction in fine arts and appreciation of arts. There are also three Primary Teachers' Training Colleges one Marathi and the other two Kannada. Other institutions worth mentioning are the Remand Home, the Rotary Club, the Theosophical Society, the Masonic Lodge, Vanguaya Charcha Mandal (Marathi Literary Society started in 1927), Karnatak Sahitya Sangh, Kalopasana Mandal and Varerkar Natya Sangh both devoted to cultural development especially the dramatic art. Besides these there are the Union Gymkhana, the Social Club and Kreeda Bhuvana. Belgaum Club and the Ladies Club for the recreation of Belgaum public.

It has literary associations managed by the lovers of Marathi and Kannada literatures and can be proud of a Free General Library of a hundred years standing with an imposing building of its own having a clock tower.

There is an aerodrome at Sambra, seven miles from Belgaum City.

INSTITUTIONS

KARNATAK AYURVED VIDYAPEETH SOCIETY
Khasbag—Belgaum.

Propagate Ayurvedic Science.

President : G. B. Patil, M.A., LL.B. ; *General Secretary :* Vaidya A. V. Gadag ; *Principal :* Vaidya B. C. Yadur (Bhishagwar).

COTTON MILLS

GOKAK MILLS LTD. (formerly Gokak Water Power & Mfg. Co. Ltd.). Spindles : 72,904 ; Looms : 5. Agents : Messrs. Forbes Forbes Campbell & Co. Private Ltd., Forbes Building, Home Street, Fort, Bombay. Mills at Gokak Falls, Belgaum District.

BELLARY DISTRICT

Area : **3,825 sq. miles ;** *Population :* 773,7[illegible]

District Headquarters : **Bellary.**

Talukas **7 :**

Talukas with the area in square miles and population respectively within brackets : Bellary (652 ; 1 84,929), Siruguppa (403 ; 74,966) ; Hospet (384 ; 1,33,238) ; Sandur (481 ; 52,523) ; Hadagalli (587 ; 1,01,961) ; Harpanahalli (611 ; 1,17,633) ; Kudligi (703 ; 1,08,462).

Agricultural products : Cotton, groundnut, cholam, korra, sugarcane.

Irrigation is confined to the Tungabhadra region. The headworks of the project are located in Mallapuram (Hospet Taluka) The area irrigated in Bellary by this project will be about 125,000 acres.

Minerals : Iron, manganese. The iron deposits in Sandur are among the richest in India.

Industries : Cotton carpet making, blanket weaving.

There are about 20 high schools including schools for girls. There is one Intermediate College.

SCHOOLS

Here is a list of some schools in Bellary District :

Municipal Hindu High School ; Municipal Muslim High School; St. John's High School ; Wardlaw High School ; S. J. High School; St. Philomena's High School (for girls) ; Government Girls' High School.

In Hospet :

Municipal High School ; Sardar Patel High School ; Government Girls' High School.

Other schools with their location in brackets are :

Board High School (Siruguppa) ; Government High School (Harapanahalli) ; 5 Board High Schools respectively at Kudligi, Kottur, Hadagalli, Sandur, Kampli.

Veerasaiva College (Intermediate), Bellary.

GOVERNMENT WELLESLEY TUBERCULOSIS SANATORIUM
Bellary.

Superintendent.—Dr. Y. Rajasekhara, M.B.B.S., T.D.D. (Wales), M.R.C.P. (Edin.).

BIDAR DISTRICT

Area : **2,209 ;** ***Population :*** **552,141.**

Headquarters : **Bidar.**

Talukas with area in square miles and population respectively within brackets : Bidar (445 ; 1,52,045) ; Humnabad (592 ; 1,68,285) ; Bhalki (589 ; 1,40,454) ; Santpur (456 ; 91,357).

The country is mostly flat with a gentle slope towards the east The largest river is Karanja. The District has a dry, healthy climate. The staple food crop is various kinds of jawar. Next come wheat rice and bajra. There are no forests. The chief mineral is soapstone.

Prominent among the many relics of the palmy days is the fort of Bidar which contains the ruins of many palaces and mosques. The tombs of the twelve Bahmani kings lie to the north-east of the town.

BIJAPUR DISTRICT

Area : 6,563 sq. miles ; *Population :* 13,96,185.

Headquarters : Bijapur.

Talukas with area in square miles and population respectively within brackets : Badami (527 ; 1,36,396) ; Bagalkot (352 ; 1,03,501) ; Bagewadi (764 ; 1,37,029) ; Bijapur (1,028 ; 2,09,283) ; Bilgi (327 ; 59,187) ; Hungund (512 ; 1,35,528) ; Indi (854 ; 1,41,279) ; Jamkhandi 450 ; 1,43,274) ; Muddebihal (570 ; 1,12,419) ; Mudhol (349 ; 83,268) ; Sindgi (830 : 1,35,023).

Bijapur District lies roughly between 15°49' and 17°29' North Latitude and 75°19' and 76°32' East Longitude. On the north it is separated by the river Bhima from Sholapur Dist. including the Akalkot Taluka, formerly a State ; on the east and south-east it is bounded by Gulbarga and Raichur districts, on the south by the District of Dharwar and on the west by the Districts of Satara South (also called Sangli) and Belgaum.

The area of the District since the exclusion of Ramdurg Taluka is 6,563 sq. miles and the population according to 1951 census is 1,396,185 spread over 25 towns and 1,229 villages. The scheduled castes number 121,521 and the scheduled tribes 205. The majority of the people are Lingayats. Both Kannada and Marathi are spoken. The court language is Kannada.

The District has a rich soil but rains are uncertain, the average rainfall varying between 18 and 22 inches. It is one of the famine districts of the State. The staple crops are jowar and wheat but cotton, groundnut, bajri, pulses, linseed, sesamum and safflower are also largely grown. Bijapur and Bagalkot are the two important market centres, the former exporting cotton, jowar, wheat, groundnut, linseed, sesamum and bajri on an extensive scale. Ilkal in Hungund Taluka and Guledgud in Badami are two other commercial centres. Ilkal is known for 'Ilkal saris' the export of which exceeded 3 lakhs of rupees a year at one time. Rabkavi, Mahalingpur and Terdal in Jamkhandi Taluka are three power-loom centres, exporting fashionable sarees and petals on a large scale. Handloom industry is the main industry of the District with about 30,000 handlooms, employing nearly 150,000 weavers. The cement factory is called "The Bagalkot Cement Co., Ltd., Bagalkot" and is under the management of Tendular Industries Ltd. Cholkhans are the chief exporting handloom production Centre in Badami Taluka.

Bijapur is an attractive tourist centre possessing a large treasure of historical monuments of architectural importance including the famous "Gol-Ghumbaz" with its Whispering Gallery, a World-Wonder. Besides, the district has the earliest Hindu Temples of the 4th century, at Pattadkal and Aihalli near Badami which has rock-cut cave temples of an earlier period than Ajanta and Ellora. Important Hindu pilgrimage centres are "Bala-Shankari" at Badami ; Inchageri a seat of Sadhus about 27 miles from Bijapur ; Dr. Ranade Nimbal Ashram about 24 miles from there, being the second Railway Station from Bijapur on Sholapur side.

AGRICULTURE

Bijapur is mainly an agricultural district growing as stated above jowar, bajri, wheat, cotton, groundnut, pulses, linseed, sesamum, and safflower. There are two Agricultural Produce Market Committees one at Bijapur and the other at Bagalkot for the regulation of trade. Jowar, bajri and wheat are exported on a large scale to deficit areas, while the cash crops of cotton and groundnut are exported to Sholapur and Gokak Mills, and to Bombay and Marmagao respectively. Linseed goes to Bombay and sesamum to Madras State while safflower is consumed by local Ghanis. Grape is now widely cultivated by Bijapur gardeners, Babanagar on Bijapur-Jath road about 12 miles from Bijapur being the chief grape producing centre. Pomegranates are largely grown in Kolhar in Bagewadi Taluka and Kaladgi in Bagalkot Taluka. Onions and betel leaves in Bagewadi and lemons in Indi and Sindgi are largely grown and exported to Sholapur and Hubli, *etc.* Out of the total geographical area of 4,231,491 acres according to village papers, the total area under cultivation is 36,42,184 acres. Forests cover 208,613 acres.

Over five thousand irrigation wells were sunk under a subsidy scheme in Indi, Bijapur and Sindgi talukas and several gardens were cropped up. Three major irrigation tanks at Hamanhalli in Sindgi, at Areshankar in Bagewadi and at Kalakop in Bagalkot Taluka were constructed and completed in 1956 at a cost of nearly one crore of rupees and about ten thousand acres of cultivable land was brought under irrigation. Out of seven lift irrigation schemes only two continue to function. The total area brought under irrigation by means of Government canals, tanks and wells etc. is now 660,456 acres. Besides, the Ghataprabha Left Bank Canal has benefited Jamkhandi and Mudhol talukas bringing under irrigation a total area of about a lakh acres.

Transport facilities : Bombay State Transport Service functioning in the District has now been taken over by the new Mysore State and is called the Mysore Government Road Transport Department with its Head Office at Hubli. It has a monopoly of catering passenger service maintaining also a big fleet of goods trucks. There is a divisional office at Bijapur. It has opened six depots and garages at Bijapur, Jamkhandi, Bagalkot, Muddebihal, Badami and Athani. It has a passenger service fleet of 211 vehicles operating on 137 routes linking almost every big village in the District. Besides, it runs direct service to Belgaum, Sholapur Miraj-Sangli, Athani-Shedbal and Mangalvedha throughout the year on account of high-level bridges constructed across the rivers, the Krishna near Padalgi, the Bhima near Dhulkhed, the Bar near Chadchan and the Don near Bableshwar.

There are as many as 398 Village Panchayats in the District. The annual income of a dozen of them exceeds Rs. 15,000.

There are a Merchants' Association, a Shroffs' Association, Kirana Merchants' Association and Stationery Merchants' Association at Bijapur. In addition to these, there are a Bailiffs' Association, a Post and Telegraph Workers' Union, a State Transport Workers Union, Government Servants' Association, a Hammals' Union, and Municipal Kamgars' Union, all being at Bijapur only.

One Community Project Block worth Rs. 15,00,000 was fully implemented in 58 villages in Indi Taluka. It was inaugurated on October 2, 1953 and was completed on October 2, 1956. Three National Extension Service Schemes one in each taluka of Badami, Sindgi and for the rest of the Indi Taluka, each worth Rs. 9,00,000 are now under implementation.

Bijapur District Khadi and Gramodyoga Board has opened Ambar Charkha Centres, 4 at Bijapur, one each at Torvi, Tikota, Bijaraga and Honwad in Bijapur Taluka and about half a dozen centres in Muddebihal Taluka. At present training is imparted to only ladies and 20 such trainees are admitted at each Centre. This Board runs a Soap-making and Match-box manufacturing factory at Bijapur and Jamkhandi. It also runs a Khadi and Gramodyoga Vidyalaya at Jamkhandi, there being 40 students on its roll.

The Southern Railway runs right through the District from north to south.

Institutions :—There are two First grade Colleges—one at Bijapur and the other at Bagalkot run by the Bijapur District Education Association. Bijapur has in all 24 high-schools, three Secondary and 575 Primary Schools ; 1,087 Lower Primary schools, Sr. Junior Basic schools ; two Pre-primary schools ; three Training Colleges, two Occupational Institutions and an Industrial-cum-Technical High School ; one Medical School ; two agricultural schools, 14 Sanskrit Pathashalas and Arabic Madarasahs ; two Music, Dance and Art Schools ; one Remand Home and one Arts and Crafts training and embroidery institution.

Hospitals, Dispensaries and Health Centres :—There are three General Hospitals ; 15 general Dispensaries, four Primary Health Centres and 32 Ayurvedic General Dispensaries.

The Vijaya College was started in 1945 at Bijapur by the Bijapur Lingayat District Educational Association, Bijapur. The college is affiliated to the Karnatak University, Dharwar.

COMMERCE AND INDUSTRY

There is an oil mill at Bijapur providing work to about 200 workers. Bijapur has also biscuit and soap factories, handloom centres at Dargah (a suburb of Bijapur), Terdal, Rabkavi and Banahatti (where several hundred handlooms, and about 60 power looms are operating to turn out a large variety of saris), 60 ginning factories working during cotton season only, slate and tile factories, glass bangles and copper and brass industries. Country carpets and blankets are made in several villages in Bagalkot, Hungund, and Badami Talukas and Bilgi Petha. There is a wool-weaving demonstration centre at Kundargi where weavers are trained in improved methods in wool-weaving. A Government sheep breeding farm is situated at Anagwadi where improved types of wool are produced. Fine white building stone are exported from Badami and grinding stones from Muddebihal. Shahabadi type slatestones of various dimensions are quarried and exported in abundant quantities from Talikot, Kaladgi and Minajgi. There is a factory at Bagalkot for manufacturing glassware of all kinds. Oil crushing is done by country ghanis throughout the District and soon oil expellers will be set up at Bagalkot.

There are at present more than a hundred looms working day and night producing hundreds of bhatars every day.

A Sarvodaya centre is functioning at Kaladgi in Bagalkot Taluka.

EDUCATIONAL INSTITUTIONS

Vijay College, Bijapur.
Shree Basaweshwar College, Bagalkot.
Government Agricultural High School, Bijapur.
Training College for Men, Bijapur.
A. K. Girls' High School, Bijapur.
Marathi Vidyalaya High School.
P. D. J. High School.
Darbar High School.
Shree Siddheshwar High School.
Anjuman-E-Islam High School.
Government Technical School.

LIBRARIES

The **Bijapur Sarwajanik Wachanalaya** has opened a free library called **Muktadwar Granthalaya.**

Shree Sidheswar Wachanalaya is another public library.

SOCIETIES

There are 100 Agricultural Co-operative Credit Societies; eight Marketing Societies; 51 non-Agricultural Societies; 7 Farming Societies; 13 Grain Banks; 93 Weavers' Societies; 67 Industrial Co-operative Societies; one Co-operative Printing; Rural Industrial Co-operative Bank 1; one Co-operative Land Mortgage Bank; a District Central Co-operative Bank; 33 Housing Societies; one Co-operative Institute; 23 Consumers Societies; 336 Multi-Purpose Societies; one Social Service Society; three ladies Co-operative Societies; two Producers Societies; 11 Federal Societies; two General ones and 17 of other types.

Four National Extension Service Blocks are functioning in the District at Bailami, Indi, Sindgi and Bagalkot covering 495 villages with a population of 5,13,990.

CHICKMAGALUR DISTRICT

Area : 2,787 sq. miles; *Population :* 417,538.

Headquarters : Chickmagalur.

Talukas with area in square miles and population respectively within brackets: Chickmagalur (644; 96,344); Kadur (554; 1,18,715); Tarikere (466; 82,015); Koppa (335; 41,406); Narasimharajapura (514; 19,750); Mudegere (365; 49,026); Sringeri (45; 10,282).

The District has an average rainfall of 73·45 inches and a forest area the largest in the State, of 811·5 sq. miles.

Chickmagalur, the District headquarters town, is 25 miles from Kadur railway station and has a population of 21,744. Coffee, cardamom and oranges are the principal commodities produced. The town is in the heart of the coffee-growing area. A coffee curing works called Mysore Coffee Curing Works is established here as well as a warehouse for coffee. A number of planters have also settled in this town.

Copra is exported to Madras and Bombay, and gingelly mostly to places in South India. The total value of commodities exported annually from Arsikere is Rs. 40 lakhs. Cotton ginning, rice milling, and manufacture of cocoanut brooms are the chief activities of the town.

ASSOCIATIONS

THE INDIAN PLANTERS' ASSOCIATION

Chickmagalur P.O.

President.—S. N. Ramanna, B.A., LL.B.

Vice-President.—A. M. Basava Gowda, M.L.A.; *Jt. Hon. Secretaries.*—C. Veerazowda; B. K. Narasimha Murthi, B.A., B.L.

MYSORE PLANTERS' ASSOCIATION

Basankudige Estate, Javali P.O.

Chairman.—U. K. Lakshman Gowda, B.Sc.

Secretary.—G. P. Obrien.

CHITALDRUG DISTRICT

Area : 4,185 sq. miles; *Population :* 868,370.

Headquarters : Chitaldrug.

Talukas with area in square miles and population respectively within brackets: Chitaldrug (477; 1,38,354); Challakere (854; 1,24,990); Molakalmuru (295; 49,016); Jagalur (377. 70,237); Davangere (366; 1,46,151); Harihar (184; 63,485); Holakere (410; 91,964); Hosadurga (517; 87,328); Hiriyur (647; 96,845).

The District has a rainfall of 21·95 inches and a forest area of 326·0 sq. miles.

Commercially the most important town is Davangere, which is also the headquarters of a Taluka. It is situated on the Bangalore-Haribar railway line. Ragi, jawar, cotton and groundnut are the chief articles of production and trade. The town has over fifteen cotton ginning factories. There are also a number of cotton pressing factories and weaving mills. Large quantities of groundnut cake are exported to foreign countries.

THE DAVANGERE TRADES ASSOCIATION

Mandipet, Davangere.

President : H. Kottur Basavappa, B.A., LL.B.

Vice-Presidents : Maganur Basappa; Iyanhalli Doddaveerappa; *Secretary :* Jayanna M. Chigateri.

COTTON MILLS

SHRI GANESAR TEXTILE MILLS LTD.

Spindles 19,576. Messrs. G. Mahadevappa & Bros., Mg. Agents, P.O. Box No. 23, Davangere City. Mills at Chitaldrug Road, Davangere.

SRI SHANKARA TEXTILE MILLS LTD.*

Spindles 17,800; Looms 10. Messrs. Murugarajendra & Co., Post Box No. 2, Davangere. Mills at Harihar Road, Davangere.

DAVANGERE COTTON MILLS LTD.

Spindles 28,816; Looms 300. Messrs. B. Hanumanthappa & Son, Managing Agents, Post Box No. 5, Davangere. Mills at Chitaldrug Road, Davangere.

* Statement for August 1957 not received. Figures taken from last year's statement.

COORG DISTRICT

Area : 1,591 sq. miles; *Population :* 229,405; *District Headquarters :* Mercara; *Talukas :* North Coorg, South Coorg.

Area and population of North Coorg: 609 sq. miles; 97,732.

Area and population of South Coorg: 986 sq. miles; 1,31,673.

Coorg, a former Part "C" State, now a part of the new Mysore State, is bounded along its entire western frontier by the mountain chain of the Western Ghats. The Western Ghats curve somewhat inland and thus also serve to some extent as the northern and southern boundaries. In the north Coorg is partially separated from the forest highlands of Mysore by the rivers of Kumaradhara and Hemavathi, and on the east it merges into the general tableland of Mysore, the boundaries being marked by the river Cavery which is known as the Ganges of South India and a famous place of pilgrimage. Coorg is a hilly country with a rainfall of 80 to 120 inches with evergreen, deciduous and semi-deciduous forests.

The Coorg district covering an area of 1,591 square miles has a population according to the 1951 census of 229,405. The population is made up of Coorgis, Gowdugals, Lingayats, Brahmins, Muslims, Christians and (Harijans) Scheduled Castes and Scheduled Tribes. Kannada is the chief language; Kodagu (Coorg language) is a dialect of old Kannada.

Paddy, coffee, orange, pepper and cardamom are the chief agricultural produce. There is no large scale industry. Transport consists mainly of buses, lorries and bullock carts. The chief items of trade are coffee, orange, pepper, cardamom and rice. The 1955 estimates for rice crop was 70,000 tons. The whole district is covered by the community projects schemes. The output of honey is about 2 lakh lb.

DHARWAR DISTRICT

Headquarters : **Dharwar.**

Talukas with area in square miles and population respectively within brackets : Byadgi (168 ; 58,853) ; Dharwar (430 ; 1,61,020) ; Gadag (413 ; 1,44,260) ; Hangal (299 ; 89,627) ; Haveri (402 ; 1,24,198) ; Hirekerur (310 ; 96,568) ; Hubli (290 ; 1,95,532) ; Kalghatgi (259 ; 50,860) ; Kundgol (235 ; 68,817) ; Mundargi (336 ; 48,963) ; Nargund (176 ; 33,313) ; Navalgund (418 ; 75,237) ; Ranebennur (362 ; 1,20,813) ; Ron (476 ; 1,27,874) ; Shiggaon (344 ; 98,004) ; Shirhatti (367 ; 81,447).

Dharwar District is bounded on the north by the Districts of Belgaum and Bijapur ; on the south by Shimoga and Chitaldrug Districts ; on the east by Raichur and Bellary Districts ; and on the west by the District of North Kanara. The area of the District is 5,285 square miles and the population according to 1951 census 1,575,380. Dharwar District is roughly divided into two belts, characterised by differences of configuration, soil and products. To the north and north-east spread vast unbroken plains of black cotton soil which produce wheat and abundant cotton crops. Dharwar is the biggest cotton growing District in Mysore State. The western belt of the District is traversed by low hills ; this tract consists of a succession of low ranges covered with heritage and brushwood. The ranges are separated by flat valleys, and it is to these valleys and the lower slopes of the hills that cultivation is chiefly confined. Farther west the country is still more hilly, and the trees increase in size towards the frontier of North Kanara. The Basel Mission carries on social and educational work. Dharwar, the headquarters town, is a station on the Southern Railway and is the cultural centre of what is popularly known as the North Karnatak region. It is also the seat of the Karnatak University, and a broadcasting station of All-India Radio started functioning in January 1950. Dharwar has two Arts and Science colleges, a Government College of Agriculture, a Law College, a Polytechnic and a Kannada Research Institute. The city of Hubli, 12 miles from Dharwar, is the biggest city in the District and is the Divisional Headquarters on the Southern Railway, with a railway workshop, an Arts and Science College, a College of Engineering, a Medical College and a College of Commerce. Hubli is also known for its textile industry. The town of Gadag is another centre noted for its cotton trade and textile industry.

KARNATAK UNIVERSITY

Chancellor, Shri Jaya Chamaraja Wadiyar, Governor of Mysore.
Vice-Chancellor, D. C. Pavate, M.A. (Cantab.).
Registrar, S. S. Wodeyar, M A., LL B.
Total number of students (1956-57) : 10,885.

THE DEANS OF THE VARIOUS FACULTIES

Arts, Dr. S. C. Nandimath, M.A., Ph.D. (Lond.), Basaveshwar College, Bagalkot ; *Social Science,* Dr. C. C. Pattanshetti, M.A., Ph D., J. G. College of Commerce, Hubli ; *Science,* Dr. N. R. Tawde, Head of the Department of Physics, Karnatak University, Dharwar ; *Law,* Prof. V. A. Majumdar, B.A., LL.B., R. L. Law College, Belgaum ; *Engineering,* Prof. B. R. Sali, B. V. Bhoomraddi College of Engineering and Technology, Hubli ; *Agriculture,* Dr. S. W. Mensinkai, M Sc., Ph D., College of Agriculture, Dharwar ; *Medicine,* Dr. R P. Koppikar, M.Sc., F.C.P S. (Bom.), Kasturba Medical College, Manipal.

BUDGET—1956-57

Income : Rs. 9,54,959.
Expenditure : Rs. 9,59,795.
Govt. Grant : Rs. 5,10,115.

UNIVERSITY TEACHING DEPARTMENTS

The Department of Kannada ; The Department of Mathematics and Statistics ; The Department of Chemistry ; The Department of Physics ; The Department of Geology ; The Department of Economics ; The Department of History ; The Department of Politics ; The Department of Sociology ; The Department of Philosophy ; The Department of English ; The Kannada Research Institute, Dharwar.

AFFILIATED COLLEGES

Karnatak College, Dharwar.
Lingaraj College, Belgaum.
Secondary Teachers' Training College, Belgaum.
R. L. Law College, Belgaum.
The J. S. S. Science and Banashankari Arts College, Dharwar.
Basaveshwar College, Bagalkot.
The Vijay College, Bijapur.
The J. G. College of Commerce, Hubli.
College of Agriculture, Dharwar.
The R. P. D. College, Belgaum.
The B. V. Bhoomaraddi College of Engineering and Technology, Hubli.
The Kanara College, Kumta.
The Kadasiddheshwar Arts College, Hubli.
The Kasturba Medical College, Manipal.
The Karnatak Law Society's College of Commerce, Belgaum.
The J. S. S. Law College, Dharwar.
College of Engineering, Manipal.
Law College, Manipal.
Institute of Pre-University College, Gadag.
P. C. Jabin Science College, Hubli.
Govt. Arts and Science College, Gulbarga.
Govt. Training College, Gulbarga.
Laxmi Venkatesh Desai College, Raichur.
Shankar Arts & Science College, Yadgiri.
Sharana Basaveshwar College, Gulbarga.
Karnatak Medical College, Hubli.

EDUCATIONAL INSTITUTIONS

Karnatak Arts and Science College, Dharwar.
College of Agriculture, Dharwar.
Janata Education Society's Science and Banashankari Arts College, Dharwar.
P. C. Jabin Science College, Hubli.
Karnatak Medical College, Hubli.
Kadasiddheshwar Arts College, Hubli.
Training College for Men, Dharwar.
Karnatak University (Post-graduate Instruction in Kannada, Chemistry, Statistics, Physics and Geology), Dharwar.
Kannada Research Institute, Dharwar.
Graduate Basic Training Centre, Dharwar.
Jagadguru Gangadhar College of Commerce, Hubli.
B. V. Bhoomaraddi College of Engineering and Technology, Hubli.
Training College for Women, Dharwar.
J. S. S. Law College, Dharwar.
K. H. Kabbur Institute of Engineering and Polytechnic, Dharwar.
Extension Training Centre, Dharwar.

SOCIETIES

The Karnatak Vidya Vardhak Sangha, Dharwar.
The Karnatak Historical Research Society, Dharwar.
The Sanskrit Patashala, Dharwar.
The Karnatak Hindi Prachar Sabha, Dharwar.

VANITA SEVA SAMAJ, DHARWAR

The Samaj is the home for the orphans, destitutes and the poor and conducts a Training College for Women, a High School for Girls, a primary school, Technical, Weaving and Tailoring Sc. Free Maternity Home, Free Ayurvedic Dispensary, Fit Free Basic Institution.

President P G Halkatti.
Chairman : Gangadharappa.
Secretary : L. R. Puranik.

MAHILA VIDYA PEETH, HUBLI

LIBRARIES (ALL OPEN TO THE PUBLIC)

Karnatak Granthalaya (Regional Library), Dharwar.
Kannada Research Institute Library, Dharwar
Karnatak University Library, Dharwar.
Saraswati Vidyaranya Vachanalaya, Hubli.

KARNATAK CHAMBER OF COMMERCE

Hubli.

President : S. S. Yelamali.
Vice-Presidents : V. H. Kabade ; Ramji Devji ; T. Chandrauna
Hon. Secretaries : R. V. Sirur ; I. V. Wali ; R. G. Wali

THE KARNATAK HISTORICAL RESEARCH SOCIETY

College Road, Dharwar, Mysore State

President : R. R. Diwakar, M A., LL B., Ex Governor of Bihar
Chief Editor : Vidyaratna Vidyabhusana R. S. Panchamukhi M A
Hon. Secretary : V. B. Naik, M A., LL B.

SANSKRITI PRAKASHANA

Malmaddi-Bellary Road, Dharwar.

Is a literary body.
President : Ramachandrarao Sali.
Chief Editor : Pandurangrao B. Desai, M A.
Secretary & Publisher : U. B. Bidi.

COTTON MILLS

†‡**NARAYANDAS CHUNILAL COTTON SPINNING & WEAVING MILLS (formerly Gadag Cotton Spg. & Wvg. Mills), Spindles 11,334 · Looms 218. Vyayakumar Motilal Hirakanwala, Owner. Office on Mill premises ; Mills at Gadag, Dharwar (West)**

‡**NANDI HASBI & CO. COTTON SPG. MILL, spindles [illegible] F. M. Hasbi, Managing Partner ; Office on Mill premises, Mills at Nargund, Dharwar District.**

‡†**NEW KARNATAK COTTON MILLS (formerly Bharat Spg. No. 1 and No. 2), Spindles : 28,904 ; New Gujrat Cotton Mill Ltd Prop., Ahmedabad. Bombay Office : Gool Mansion, Hornby Road, Fort ; Mills at Hubli.**

† Statement for 1957 not received. Figures taken from last year's statement.

‡ Proprietary concern.

GULBARGA DISTRICT

Area : 6,574 sq. miles ; *Population :* 1,212,036.

Headquarters : Gulbarga.

Talukas with area in square miles and population respectively within brackets : Aland (678 ; 1,34,524) ; Gulbarga (664 ; 1,86,446) ; Chitapur (691 ; 1,45,058) ; Chincholi (609 ; 92,440) ; Seram (365 ; 82,988) ; Yadgir (666 ; 1,59,830) ; Shahpur (627 ; 1,23,830) ; Shorapur (711 ; 1,23,554) ; Jevargi (Andola) (746 ; 91,214) ; Afzalpur (514 ; 72,152).

Most of the land is almost flat, the slope being from north to south and south-east. A hill range, however, traverses the District from the west to a south-easterly direction. The principal river is the Bhima, a tributary of the Krishna. The other river is the Kagna.

Generally speaking the District is devoid of forests except in the hilly areas, which contain teak, eppa, tirman, tabul, tamarind and mango. The plains are hot and dry, while the wooded hills are damp.

The average rainfall is about 29 inches, but it is capricious, causing occasional droughts.

In part of the area the black cotton soil predominates while part is sandy. The rabi crops are white jawar, wheat, gram, cotton and linseed. The kharif crops are yellow jawar, bajra, castor seed, rice, linseed and hemp. The staple food crop is jawar, bajra, rice and wheat being next in importance.

The most important mineral found is laminated limestone, which occurs at Shahabad and is known as Shahabad stone, largely used for flooring and roofing. There is also a cement works in Shahabad.

The exports consist of jawar, bajra, cotton, oilseeds and tobacco. The chief imports are salt, sugar, cotton and woollen stuffs, matches and kerosene.

COTTON MILLS

MAHABOOB SHAHI KULBARGA MILLS CO., LTD. Spindles 35,140 ; Looms 606. Managed by Committee of Directors. Office on Mill premises. Mills at Gulbarga.

HASSAN DISTRICT

Area : 2,638 sq. miles ; *Population :* 715,135.

Headquarters : Hassan.

Talukas with area in square miles and population respectively within brackets : Hassan (457 ; 1,32,447) ; Alur (164 ; 33,380) ; Arsikere (479 ; 1,40,087) ; Belur (310 ; 70,487) ; Manjarabad (407 ; 53,308) ; Arkalgud (295 ; 85,739) ; Hole-Narsipur (232 ; 79,322) ; Chennarayapatna (404 ; 1,19,675)

The District has a rainfall of 38·73 inches and a forest area of 96·4 sq. miles.

Hassan, the District Headquarters Town has a population of 24,869. The town has one implements factory started by Government. There are also a number of rice mills, engineering and cement works.

Arsikere is an important trade centre for coconuts, copra, cotton, paddy, gingelly.

INSTITUTIONS

SRI L. V. OCCUPATIONAL INSTITUTE

Hassan

Literary body

Superintendent : B. C. Malle Gowda

KOLAR DISTRICT

Area : 3,188 sq. miles ; *Population :* 1,129,875.

Headquarters : Kolar.

Talukas with area in square miles and population respectively within brackets : Kolar Gold Fields (City) (30 ; 1,59,084) ; Kolar (305 ; 1,32,162) ; Mulbagal (316 ; 93,891) ; Srinivasapur (321 ; 84,542) ; Chintamani (313 ; 1,05,208) ; Sidlaghatta (265 ; 75,005) ; Bagepalli (361 ; 70,042) ; Gudibanda (87 ; 22,907) ; Goribidnur (339 ; 1,27,021) ; Chikballapur (249 ; 78,885) ; Malur (24[illegible] ; 89,774) ; Bangarpet (237 ; 91,354)

The District has an average rainfall of 28·21 inches and a forest area of 285 sq. miles.

Kolar which is the District Headquarters Town has a population of 27,176. Tanning of hides and skins, manufacture of jaggery, brown sugar, agricultural implements, woollen carpets and rugs, are other industrial activities. There is also a sheep breeders' association. A woollen spinning centre is maintained by the State Department.

Kolar Gold Fields, which form the largest concentration of population in the District, are situated south-west of Bangarpet taluka and are connected to Bangalore and Bowringpet on the main line by railway. It is inhabited largely by working classes. The population is 159,084. The four important mines are Mysore, Nandidroog, Oorgaum and Champion Reefs, now all taken over by the State. Raw skins of sheep and goats, cows, bullocks and buffaloes are also exported from this area.

MANDYA DISTRICT

Area : 1,917 sq. miles ; *Population :* 717,545.

Headquarters : Mandya.

Talukas with area in square miles and population respectively within brackets : Mandya (277 ; 1,24,572) ; Srirangapatna (143 ; 64,697) ; Nagamangala (402 ; 1,01,168) ; Krishnarajpet (352 ; 1,08,151) ; Malvalli (307 ; 1,31,616) ; Maddur (238 ; 1,16,948) ; Pandavapura (214 ; 70,395).

The District has a rainfall of 27·46 inches and a forest area of 51·7 sq. miles.

Mandya, the District Headquarters Town, lies 25 miles north-east of Mysore on the Bangalore-Mysore Railway. It has a population of 21,158. Cultivation which is most extensively carried on is sugarcane. The Mysore Sugar Co., Ltd., a Government aided concern, has its factory here. The factory employs 1,200 persons daily. 25 to 30 thousand tons of sugar are manufactured annually. A distillery is attached to the sugar factory where molasses, a by-product is used for the manufacture of power alcohol. A confectionary is also attached to the sugar factory. Mandya is also a centre for the butter trade. Cart-making and weaving of woollen goods are other industries. The Government of India issued a licence to a private concern in January 1958 to set up a paper factory at Mandya at an estimated cost of Rs. 3 crores. The Mysore Government had agreed to invest ten per cent in the share capital.

MYSORE DISTRICT

Headquarters : Mysore.

Talukas with area in square miles and population respectively within brackets : Mysore City (14 ; 2,44,323) ; Mysore (303 ; 95,039) ; Krishnarajnagar (231 ; 1,07,895) ; Hunsur (342 ; 73,689) : Periapatna (333 ; 72,725) ; Hegadevanakote (706 ; 75,399) ; Gundlupet (355 ; 98,320) ; Chamarajnagar (479 ; 1,72,082) ; Nanjangud (372 ; 1,70,145) ; T. Narsipur (223 ; 1,35,016) ; Yelandur (104 ; 40,138) ; Kollegal (1,076 ; 1,38,908).

The area of the District is 4,622 sq. miles and the population is 1,423,679. The District has an average rainfall of 29 inches 83 cents and a forest area of 447.5 sq. miles.

Mysore, the District headquarters town is also the residence of the Governor. It has an area of 14·43 sq. miles and a population of 244,334. It is a paddy growing centre, with several mills for hulling paddy. There are a large number of power and handloom industries for weaving cotton and silk fabrics in the town. Sandalwood oil is produced in the Government Sandal Oil Factory. The Central Food Technological Research Institute, one of the national laboratories, is situated here. Mysore is also the headquarters of the Mysore University. There are a few taxidermists in the town. An exhibition is held here annually.

ASSOCIATIONS

Arasu Mandaliya Sangham, Mysore City : Promotion of interests of Arasu community.

Ayurveda Vaidya Sangha, Mysore City : Promotion of Science of Ayurveda.

Gunamba Maternity & Child Welfare Trust, Mysore City : Promotion of maternity care and child welfare.

Children's Library, Mysore City : run by the Rotary Club.

Hindi Prachar Sabha, Mysore City.

Theosophical Society, Mysore City.

Mysore Bar Association, Mysore City.

Mysore Literary Union, Mysore City.

Mahila Samaj, Mysore City.

Ramakrishna Ashram, Mysore City.

Vanita Sadana, Mysore City.

WESLEY PRESS AND PUBLISHING HOUSE

P.O. 37, Mysore City.

USHA PRESS AND PUBLISHING HOUSE

Mysore City.

CHETHANA MUDRALAYA AND PUBLISHING HOUSE

Mysore City.

CLUBS

Social Club, Holenarsipur.
Cosmopolitan Club, Mysore City.
Sports Club. Mysore City.
Vontikoppal Club, Mysore City.

HOTELS

Hotel Metropole, Mysore City.
Hotel Krishnarajasagar, Brindavan Gardens, Krishnarajasagar
Bombay Anandabhavan Boarding House, Mysore City.
Gayathri Bhavan, Mysore City.
Hotel Dasaprakash, Mysore City.
Bombay Indra Bhavan, Mysore City.
Modern Hindu Hotel, Mysore City.
Chamundeswari Bhavan, Mysore City.
Carlton Hotel, Mysore City.
Ritz Hotel, Mysore City.

INDUSTRIES

Mysore Chemicals and Fertilizers Ltd., Belugola P.O.
Mysore Lac and Paint Works, Ediga, Mysore.
Government Silk Weaving Factory, Mysore.
Government Sandalwood Oil Factory, Mysore.
Coorg & Mysore Coffee Co. (1937) Ltd., Chamundi Coffee Curing Works, Vanivilas Mohalla P.O.
Premier Film Corporation Ltd., Mysore.
Mangalore Ganesh Beedi Works, Mysore.

SPINNING & WEAVING MILLS

Sri Krishnarajendra Mills Ltd., Mysore ; number of Spindles 42,024 ; Looms 292. H. N. Pallegar, M.A., LL.B., I.A.S. Chairman and Mg. Director. Office on Mill Premises. Mills at Irwin Road, Mysore.

*Kapila Textile Mills Ltd., Messrs. C. P. C. & Co., Mg. Agents, Gandhi Sq., Mysore. Mills at Nanjangud ; number of Spindles 15,184, Looms 250.

MYSORE MUNICIPAL COUNCIL

President, B. Narayanaswamy, B.A., B.L.

Vice-President, D. Lingiah.

Municipal Commissioner, M. Vazeer Ahmed, B Sc.

Health Officer, Dr. S. P. Anikar, M.B.B.S., D.P.H.

Municipal Executive Engineer, H. Seetharamaiah, B.E.

Octroi Supdt., J. Basappa, B.Sc.

Revenue Officer, M. C. Narayanaraj Urs., B Sc.

Manager, Municipal Farm, G. Padmanabha Setty.

Audit Superintendent, B. T. Ramaswamy.

Superintendent, Municipal Office, G. Subba Rao.

MEMBERS

An estimate of party position is : Con. 17, P.S.P. 6, Soc. 3, Comm. 1, Ind. 5.

T. V. Srinivasa Rao, S. Somasundara Sharma, D. Lingiah and M. Chickathammayya (*Division No.* 1).

Dr. J. Kamalaraman, Dr. B. G. Das and K. Siddiah (*Division No.* 2).

A. Krishnamurthy Rao, Vedanth Hemmege and Srikantasharma (*Division No.* 3).

B. Narayana Swamy, H. Kempe Gowda and M. N. Thimmiah (*Division No.* 4).

Chowdiah, Doddathammiah and Srimathi Soundaramma Venkatesh (*Division No.* 5).

B. K. Puttiah, B. N. Kenge Gowda, B.A., B.L., S. Govindiah, C. Sreerama Chetty and H. N. Muddiah (*Division No.* 6)

A. Mohamad Sait, Azeez Sait and Mir Nasir Hussain (*Division No.* 7).

M. K. Lingiah, J. M. Coutinho, S. Sampavaih, M. J. Mohamad Yakoob and S. Jogi Siddhan (*Division No.* 8).

M. Venkatalingiah, K. Doulath Rao and Mariyappa (*Division No.* 9).

BUDGET ESTIMATES FOR 1957-58

Revenue : Rs. 65,50,490.
Expenditure : Rs. 66,77,039.

*Temporarily closed down on account of financial difficulties (February 1958).

NORTH KANARA DISTRICT

Headquarters : Karwar.

Area : 3,964 sq. miles.

The total population according to 1951 census is 517,780.

Talukas with area in square miles and population respectively within brackets : Ankola (348 ; 48,181) ; Bhatkal (120 ; 50,053) ; Haliyal (315 ; 36,516) ; Honavar (278 ; 74,490) ; Karwar (284 ; 78,725) ; Kumta (235 ; 77,457) ; Mundgod (257 ; 15,615) ; Siddapur (333 ; 41,777) ; Supa (732 ; 18,159) ; Yellapur (508 ; 19,112) ; Sirsi (556 ; 57,695).

North Kanara is a District on the Konkan Coast between 15°55′ and 15°31′ N. and 74°9′ and 75°10′ E. It is bounded on the north by Goa and the Belgaum District ; on the east by the Dharwar and Shimoga districts ; on the south by South Kanara and on the west by the Arabian Sea. The Sahyadri range of the Western Ghats varying in height from 2,500 to 3,000 feet runs through the District from the south to the north, dividing it into two tracts, the uplands or Balaghat and the lowlands or Payan Ghat.

Karwar, the headquarters of the District, possesses a fine natural harbour with great potentialities. The natural attractions of the country around, make Karwar a good health resort and a centre for tourists.

Agriculture is the mainstay of the people. Cultivable waste is about 60,000 acres. Barren and uncultivable land is about 45,000 acres. The net area sown is about 265,000 acres.

The net area irrigated is a little over 45,000 acres. The percentage of net area irrigated to net area sown is 16·96.

Paddy occupies 190,000 acres, ragi occupies 2,000 acres, black gram 2,000 acres and horse gram 2,700 acres.

Of the cash crops :—Sugarcane occupies 33,000 acres ; coconuts 12,000 acres ; mangoes 2,000 acres ; bananas 4,000 acres ; pine-apples 1,000 acres ; sweet potatoes 900 acres ; onions 400 acres ; cashewnuts 1,200 acres ; betel-nuts cover an area of 15,400 acres ; pepper 2,000 acres, cardamom 600 acres ; groundnuts 9,500 acres and betel-leaves 400 acres.

Rice which is most widely grown is responsible roughly for 75 per cent of the net cropped area. The average yield ranges from 5 to 40 maunds per maund of seed. The introduction of the Japanese method of cultivation has improved matters in many tracts and is responsible for larger yields. Another agricultural product the cultivation of which is fast developing in the loose sandy soil of Kanara is groundnut.

Roughly 83 per cent of the area of the district is forest. It approximates to 3,005 square miles.

The total population of fishermen is about 26,000. The average annual yield is about 20,000 tons. The chief variety is mackarel. There is a Mackarel Research Station at Karwar.

ECONOMY

The W.I.P.R. passes through Supa and the distance covered by it is about 32 miles. There is no major railway connection in Kanara.

Karwar-Bhatkal road is the national highway and so is the Kanara portion of the Bombay-Trivandrum national highway. Lately the Government has been constructing a cement road on the highway Kanara-Hubli-Karwar—a distance of 102 miles.

The Mysore State Road Transport Corporation plies practically throughout the district with the monopoly of passenger traffic.

Vessels up to 10 tons can go up to a distance of 20 miles in Kali River and up to 18 miles in the Agrashini. The Sharawati takes boat traffic up to Gersappa, about 25 miles from Honnavar.

The steamers of the Scindia Steam Navigation Company touch Karwar, Tadri, Kumta and Bhatkal during the fair season.

The most important commodities of export are timber, fuel, charcoal, bamboos, manganese and sweet potatoes, onions and supari. Fresh fish is transported from almost all the ports by motor launches to Bombay. The principal imports are grains, sugar, pulses, kerosene oil, coconut oil, Mangalore tiles, etc.

The only mineral that is successfully tackled at present is manganese. In flourishing times about 20,000 tons were exported every year to dollar areas.

Among the important industries are the Government saw mills, and a plywood factory at Dandelli. A good many rice mills sprang up during the days of rationing. But this number is now decreasing and the pounding woman is fast taking the place of the mill.

Bee-keeping is a favourite industry initiated by Government and in a forest tract like Kanara it has a bright future. Already there are 4,500 colonies in the district and the honey yield is about 30 to 35 thousand lb. a year.

The total area covered with bamboos is 89,000 acres and lies mainly on the slopes of the Gangavli and Kali rivers.

An area of about 25,570 acres of forest is covered with very useful species of palm known as the tali palm. This provides annually about 1,500 mature palms yielding about 300 tons of edible sago flour giving means of subsistence to about 6,000 people. The chief produce is tali-chakki or pitch from which edible flour is prepared.

Baswarajadurga an island off Honnavar produces the best quality of *Cavi* or reddle which is used for painting houses.

BENEVOLENT INSTITUTIONS

District Probation and After Care Association and Remand Home.
Hon. Secretary, S. M. Kalkini, B.A., LL.B.

COLLEGES

Kanara College, Kumta.

RAICHUR DISTRICT

Area : 5,591 sq. miles ; *Population :* 953,640.

Headquarters : Raichur.

Talukas with area in square miles and population respectively within brackets : Raichur (588 ; 1,49,593) ; Manvi (749 ; 1,04,724) ; Deodurg (595 ; 89,815) ; Sindhnoor (628 ; 75,750) ; Gangavati (514 ; 86,921) ; Koppal (542 ; 1,30,885) ; Yelburga (545 ; 1,03,723) ; Kushtagi (536 ; 1,00,601) ; Lingsugur (739 ; 1,11,658).

There is a range of hills extending from the west and north-west with two breaks. The general slope of the country is from the north-west towards the south-east. The most important river is the Krishna, which forms the boundary in the north ; next the Tungabhadra which forms part of the boundary in the south. The Bhima joins the Krishna on the northern boundary.

The most important trees are teak, ebony, bijasal, mango, tamarind, neem.

There are no large forests. The District is generally healthy except during the rains when fevers might prevail. The temperature during the year varies from about 110° F. to about 70° F. The average annual rainfall is about 25 in.

The chief antiquities are in or near the fort of Raichur. There are also the old forts of Deodurg and Yadgir, besides many temples and mosques.

The staple food crops are jawar and bajra. Cotton is also grown and so are rice and oilseeds.

The most important mineral is the auriferous quartz. Laminated limestone, Shahabad stone and talc are also found.

The principal exports are jawar and other foodgrains and oils and the chief imports salts, coconuts, sugar, kerosene and cloth.

Raichur town is of some commercial importance.

SHIMOGA DISTRICT

Area : 4,060 sq. miles ; *Population :* 663,315.

Headquarters : Shimoga.

Talukas with area in square miles and population respectively within brackets : Shimoga (409 ; 96,620) ; Bhadravati (257 ; 80,494) ; Chennagiri (458 ; 1,01,922) ; Honnali (338 ; 85,394) ; Shikaripur (342 ; 64,320) ; Sorab (412 ; 65,388) ; Sagar (749 ; 71,580) ; Hosanagar (539 ; 37,514) ; Thirthahalli (483 ; 60,083).

The District has an average rainfall of 56·98 inches and a forest area of 439·4 sq. miles.

Shimoga, the District headquarters town, has a population of 46,524. It is the biggest centre for areca trade in the Malnad parts of the State. Rice, jawar, wheat, ragi, cane jaggery, tamarind, chillies, groundnut are exported to South Kanara and Bombay by rail and road. Chief forest produce includes teak, sandalwood, rosewood The Government of Mysore maintain a timber depot here and also run a Sandalwood Factory. There is also a match factory called the Mysore Match Factory.

Another notable place is Bhadravati on the Bhadra river, 12 miles south-east of Shimoga. It is an industrial and trade centre with a population of 42,451. The Mysore Iron and Steel Works, the Cement Factory, the Mysore Paper Mills and a Ferro-Silican Plant are all located here.

SOUTH KANARA DISTRICT

Area : 3,250 sq. miles ; *Population :* 1,330,917.

Headquarters : Mangalore.

Talukas with area in square miles and population respectively within brackets : Coondapur (600 ; 1 74,415) ; Udipi (357 ; 2,90,559) ; Karkal (629 ; 1,71,919) ; Mangalore (406 ; 4,51,005) ; Puttur (1,248 ; 2,42,969).

The Western Ghats form a natural boundary in the east, and the Arabian Sea in the West The land slopes gently from the east to the west, but gives an impression of flatness Much of the surface is bare and treeless and strewn with granite boulders, but there are many small hill ranges well-wooded From the sea the coast-line presents an endless stretch of coconut palms broken by river mouths.

The District has a heavy rainfall and the flora is as a consequence exceedingly varied. Of fruit trees, the coco and the areca palms and the jack and the mango are important. The palmyra palm is found everywhere and the cashew is common. The bamboo grows luxuriantly. Flowers grow in profusion. The fauna is as varied as the flora. Leopards, bisons, elephants are fairly common. The jackal and the monkey are found almost everywhere, while many species of snakes exist.

The climate is excessively humid with a rainfall of over 140 inches. The rains seldom fail in this District and drought is extremely rare.

The chief objects of archaeological interest are the Jain remains especially in Karkala, Mudbidri and Venur—in the form of huge monolithic statues, temples or bastis and stambhas or pillars.

The District has some of the best rice lands in the country ; tobacco and vegetables are also grown, along with black gram, horse gram and green gram. On the hills there is coffee.

The District is essentially a forest District. The country is everywhere thickly wooded. The most valuable trees are teak, poonspar, black wood and jack.

The soil yields excellent clay which has given rise to a flourishing tile industry. Another important industry is coffee curing and the processing of cashewnut.

The principal exports are coffee, tiles, copra, rice and wood. The chief imports are cotton piece-goods, grain, oil, sugar, salt.

Mangalore is the biggest single harbour But Malpe near Udipi has greater possibilities and was mentioned by the West Coast Major Port Development Committee for development as a major port between Marmugao and Cochin.

INSTITUTIONS AND SOCIETIES

THE CODIAL BAIL PRESS
Mangalore 3.

Director & Manager : Rev. Fr John Moran Menezes.

THE KANARA CHAMBER OF COMMERCE
P.O. Box No 116, Bunder, Mangalore 1

President : Kudpi Srinivas Shenoy ; *Vice-President :* Manel Srinivas Nayak ; *Secretary :* Kasturi Mangesh Pai ; *Hon. Secretaries :* P. Narasing Rau ; U. Subraya Malla.

KARNATAKA POLYTECHNIC
Mangalore

Principal : N. S. Jathanna ; *Head of A.I.T. Section :* T. Balachandran ; *Superintendent :* K. V. Bhat.

ST JOSEPH'S INTERDIOCESAN SEMINARY
P. Box No 3, Mangalore 7

A religious body for training R. C. Priests

Rector : Rev. J. C. Pereira, S.J. ; *Minister :* Rev. J. Sal. D'Souza, S.J. ; *Procurator :* Rev. F. M. Viegas, S.J.

TUMKUR DISTRICT

Area : 4,093 sq. miles ; *Population :* 1,151,362.

Headquarters : Tumkur.

Talukas with area in square miles and population respectively within brackets : Tumkur (403 ; 1,86,469) ; Madhugiri (422 ; 1,31,042) ; Koratagere (256 ; 78,710) ; Sira (584 ; 1,25,932) ; Pavagada (523 ; 95,579) ; Chikanaikanhalli (413 ; 91,869) ; Gubbi (466 ; 1,25,600) ; Tiptur (303 ; 94,142) ; Turuvekere (305 ; 80,467) ; Kunigal (388 ; 1,35,433).

Tumkur District has an average rainfall of 26 15 inches and a forest area of 196·3 sq. miles.

Tumkur which is the District Headquarters Town has a population of 35,999. It has half a dozen rice mills, and also flour mills, oil mills, slate-pencil factories, and a tile factory. Groundnuts and groundnut products, castor seed, hongey seed and food grains such as jowar, are exported to places in and outside the State.

THE MYSORE PAPER MILLS LIMITED

Registered Office : **BANGALORE CITY**

Phone : 4856

Mills :

BHADRAVATI (Mysore State, Southern Rly.)

Phone : 31. Telegrams : "PAPERMILL"

PAPER INDUSTRY IN MYSORE

The Mysore Paper Mills owe their origin to the foresight and progressive Industrial policy of the Government of Mysore. A Joint Stock Company was formed in 1936 with the Government of Mysore taking a share both in the Capital and the Management.

The Mills at Bhadravati, on the left Bank of the perennial river Bhadra command various facilities such as nearness to bamboo forests, labour and workshop facilities. His Late Highness Sri Krishnaraja Wadiyar Bahadur laid the foundation of the Mill buildings on the 1st of April 1937.

The Mills commenced production in 1938 as an integrated Paper and Pulp Mill with a Fourdrinier Paper Machine of a rated capacity of 15 tons of paper per day, with 17-ton bamboo pulp and 2½-ton rag pulp plants.

In September 1954, a Second Paper Machine of the same capacity, with the latest improvements, went into production. At the same time, Stock Preparation Plant was modernised with the addition of Solvo Pulpers, High Speed Refiners, and slush feeding of Furnish. A new Electrolytic Caustic Soda—Chlorine Plant was also installed.

Presently, the Mills are manufacturing about 8,000 tons of high class Writings, Printings, Bonds, M. G. White Posters, Cartridges, Off-set Printings, etc. per annum. These papers are marketed under the Trade Mark 'Bison Brand'.

Plans are under active consideration for increase of output to 16,000 tons per annum in keeping with the country's rapid advance in Industrialisation and mass literacy.

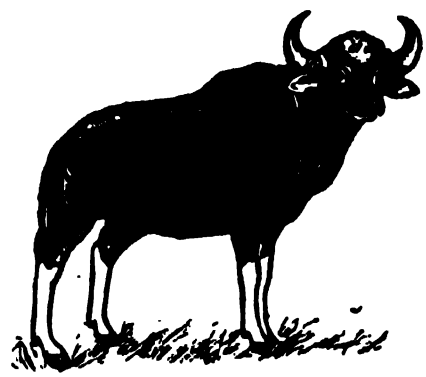
The Mill employs more than 550 educated men on an average and about 1,000 skilled and unskilled workers, besides providing employment for 800 more in the extraction and transport of bamboos.

A regular town has grown up at Bhadravati with all modern amenities like protected water-supply, electric lighting, sanitary arrangements, a Co-operative Society, Primary and Middle Schools and Medical and Maternity aid.

The Mills have consistently maintained and continue to maintain the quality of their products and full service to their Customers. They are also meeting the full paper requirements of the Government of Mysore and a portion of the needs of the Government of India. The Mills are now unable to meet the full needs of their valued customers.

With the implementation of the contemplated Expansion scheme, the Mills hope they will be able to meet in full the demands of their growing clientele all over the country.

BISON BRAND



Trade Mark.

BANGALORE DISTRICT

COMMERCIAL FIRMS

Abdul Careem & Sons, Chickpet, Bangalore.
Abdul Gaffar, H. R. & H. M. Gulam Ahmed, Sri Narasimharaja Road, Bangalore.
Abdul Gaffoor & Sons, T. M., 210, Avenue Road, Bangalore.
Abdul Razack Sahib & Sons, P., Gundopanth Street, Bangalore.
Abdul Sattar Hajee Dawood Salt, New Tharagupet, Bangalore.
Abdullah Basha, B. S., Old Tharagupet, Bangalore.
Adinarayana Setty & Sons, A. C., 106, Sultanpet, Bangalore.
Ahmedally & Co., A., Sri Narasimharaja Road, Bangalore.
Aiyar & Co., Kempegowda Road, Bangalore.
Ambalam & Brothers, Kalasipalayam, Bangalore.
Ambi & Co., Avenue Road, Bangalore.
Ameo Limited, Mysore Road, Bangalore.
Amichand & Co., V., 351, Chickpet, Bangalore.
Anand Brothers, Kempegowda Road, Bangalore.

ANGLO-AMERICAN OPTICAL CO., Qualified Opticians, 68, Commercial Street, Bangalore 1. Phone: 4229.

Anglo-American Watch Co., 68, Commercial Street, Bangalore 1.
Anur Brothers, 77-78, Balepet, Bangalore.
Appajayya Setty & Sons, B. V., New Tharagupet, Bangalore.
Appanna Setty & Sons, A. K., New Tharagupet, Bangalore.

ASSOCIATED ELECTRICAL INDUSTRIES (INDIA) PRIVATE LTD., 27, Sri Narasimharaja Road, Bangalore; Head Office: Crown House, 6, Mission Row, Calcutta 1. Branches at Calcutta, Bombay, Madras, New Delhi, Coimbatore and Nagpur. Grams: "MAINLAND" (all Offices). Associated Companies—Associated Electrical Industries Manufacturing Co. Private Ltd., Birlec Ltd., The British Thomson-Houston Co. Ltd., Siemens Edison Swan Ltd., Ferguson Pailin Ltd., The Hotpoint Electric Appliance Co. Ltd., Metropolitan-Vickers Electrical Co. Ltd. Metropolitan-Vickers GRS. Ltd., Newton Victor Ltd., Sunvic Controls Ltd., Agencies—Aluminium Union Ltd., Engineers and Contractors for electric Power Plant and electrical equipment of all descriptions, Suppliers of Steam turbines, Condensing plant, generators, Motors, Switchgear, Converters, Mercury arc rectifiers, Transformers, Electric Locomotives, Diesel Rail Cars, Railway and Tramway equipment, Trolleybuses, Railway Signalling equipment, welding equipment, Electric Lamps, Lighting Fittings, Domestic electric appliances, Meters, Instruments, Magnetos, Wireless equipment, Sound reproducing equipment, Tape recorders, Batteries, Electric Cables, X-Ray and Electro-medical equipment, Refrigerator Plant, Aluminium electric transmission line Conductors; Bangalore Office Manager: —T. V. Parthasarathy; Chairman: F. J. E. Tearle; Managing Director: J. Nicholson; Directors: H. C. Hardy, J. Carey-Brown, T. C. Hornby, A. C. D. Moir, C. M. Humfrey and V. N. Dixit.

Bandy Bros., 78, Commercial Street, Bangalore 1.
Bangalore Publicity Service, Bangalore.
Batchamiyam Saheb & Co., A., New Tharagupet, Bangalore.
Bhiwandiwala & Co., A. H., 8, Old Tharagupet, Bangalore 2.
Bombay Auto and Radio Stores, 50, Sri Narasimharaja Road, Bangalore.
C. A. Gallabotwala & Co. Ltd., Sri Narasimharaja Road, Bangalore.
Capital Cycle and Motor Company, Sri Narasimharaja Road, Bangalore.
Cement Marketing Co. of India Ltd., Sugar Company Building (near Town Hall), Sri Jayachamaraja Wadiyar Road, Bangalore City.
Chinai Silk Trading Co. Ltd., 432, Avenue Road, Bangalore 2.
Chiniwar & Co., Malleswaram Post, Sampige Road, Bangalore 3.
Commercial Hardware Co., 21, Old Poor House Road, Bangalore.
Consolidated Electric Industries, No. 29, Sri Narasimharaja Road, Bangalore City.
Coomoraswamy Pillay & Co., M., 478, Avenue Road, Bangalore.
Cowasji & Co., Alexandra House, Richmond Town, Bangalore.
Davidoff & Co., Chickpet, Bangalore.
Deshbandhu & Chaya, Bangalore.
Desi Soap and Ink Works, Sampangi Tank Road, Bangalore.
Dhondusa Dhaktappa & Brothers, S., Subedar Chatram Road, Bangalore 2.
Donti Venkatesiah Setty & Sons, Chickpet, Bangalore City.
Dunlop Rubber Co. (India) Ltd., 24, Mahatma Gandhi Road, Bangalore 1.
Egyptian Confectionery, 1, Haines Road, Bangalore.
Elgin Electric Flour Mills, Hosur Road, Bangalore.
Elgin Talkies, Blackpally Road, Bangalore.
Emberuman & Co., Krishna Building Avenue Road, Bangalore.
Firestone Tyre and Rubber Co. of India Ltd., 1-A, Sydney Road, Bangalore.
Foster & Co., J. B., 15, St. Mark's Road, Bangalore 1.
Furtado & Sons, B. X., Sri Krishna Buildings, Avenue Road, Bangalore.
Gangoji Rao & Sons, T. L., Laxman Rao Road, Balepet, Bangalore.
Ganjam Nagappa & Son, Arcot Srinivasachar's Street, Bangalore.
Gannon Dunkerley & Co. Ltd., 157, Sri Narsimharaja Road, Bangalore.
General Assurance Society Ltd., 111, Gandhinagar, Bangalore.
General Electric Company of India, Ltd., 5, Mahatma Gandhi Road, Bangalore.
General and Machinery Company, Osmania Buildings, Sri Narasimharaja Road, Bangalore.
Girimaji & Co., G. S., Electrical, Mechanical and Sanitary Engineers, Shankarapuram, Bangalore.
Glenand Products, 2, South Parade, Bangalore.
Goldwin Aerated Water Factory, 2, Lalbagh Road, Bangalore 2.
Good Year Tyre and Rubber Co., Central Street, Bangalore.
Gopalan & Co., Avenue Road, Bangalore.
Gorappa & Son, A., 51, Jumma Masjid Road, Bangalore 2.
Govindiah Setty & Bros., B. N., Sri Balasubramanya Jewellery Mall, Nagarthpet, Bangalore.
Gowri Shankar Chemical and Pharmaceutical Works, 64, Lalbagh Road, Bangalore.
Gurusidappa & Sons, C., Chamrajpet, Bangalore.
Haji Mohamed Osman Sahib & Co., Godown Street, Bangalore.

HOLLERITH (INDIA) (PRIVATE) LIMITED. Hollerith Electronic and Electromechanical Punched Card Accounting Machines; Head Office: Fazalbhoy Building, Mahatma Gandhi Road, Bombay 1; Area Office: 8/2, Church Street, Bangalore 1; Area Manager: P. Subramanian; Tel. Address: "TABULORIAL".

Huskur Chennabasappa & Sons, 17, Crescent Road, Bangalore.
Hussen & Co., M. N., Bangalore.
Hymamshu & Co., Mahatma Gandhi Road, Bangalore 1.
India Tin Industries Ltd., The, Old Madras Road, Duravaninagar, P.O., Bangalore.
Indian Oxygen & Acetylene Co. Ltd., Platform Road, Bangalore.
Industrial and Agricultural Engineering Co., 54-55, Silver Jubilee Park Road, Bangalore.
Jaffar Khan & Bros., C. M., New Bamboo Bazar, Bangalore.
Jahgirdar & Co., Seshadripuram, Bangalore 3.
J. & J. DeChane Agency, 21, First Floor, City Market, Bangalore 2.
Jaya Bharatam Co., 1422, Sampige Road, Malleswaram, Bangalore.
J. B. Advani & Co. (Mysore) Ltd., Silver Jubilee Park Road, Post Box 548, Bangalore 2.
Kamal & Co., 121, Sultanpet, Bangalore City.
Kapurchand Bros. (Bangalore) Ltd., 274-276, Chickpet, Bangalore 2.
Katta V. Srinivasa Setty & Sons, Avenue Road, Bangalore.
Kenkare Brothers, Gandhinagar, Bangalore.
Keshavalal & Co., Sri Narasimharaja Road, Bangalore.
K. H. Soap Works (Extension), Bangalore 6.
K. H. Shama Rao & Sons, 12, Lalbagh Road, Post Box No. 66, Bangalore 2.
Kocheta & Sons, K. M., Avenue Road, Bangalore.
Kochikar Brothers Ltd., Visveswarapuram, Bangalore.
Krishnachand & Co., No. 5, Coles Road, Bangalore.
Krishnamachari & Co., T. T., Tasker Town, Bangalore.
Krishnamurthy & Sons, M. N., Chickpet, Bangalore.
Laxmi & Co., Seshadripuram Extension, Bangalore.
Laxmi Electric Stores, Avenue Road, Bangalore.
Lilliput Pictures, Bangalore City.
Lokkur & Co., Stock and Share Brokers, Kempegowda Road, Bangalore.
M. Chandameyan Sahib & Son, 76, Commercial Street, Bangalore 1.
Madras Auto Service Co. Ltd., 159, Sri Narasimharaja Road, Bangalore.
Madurai Mudaliar & Sons, P. M., Iron Founders, Cottonpet, Bangalore.
M. Mallappa, Chickpet, Bangalore 2.
Metro Malleable Manufacturers Ltd., Silver Jubilee Park Road, Bangalore City.
Mill Stores Limited, 19, Silver Jubilee Park Road, Bangalore 2.
Mirimal Bhabutmal & Brothers, 314, Chickpet, Bangalore 2.
Modern Electric House, The, 263-A, Cavalry Road, Bangalore 1.
Modern Engineering Co., Chickpet, Bangalore.
Mohamed Salt & Sons, H. A. R., Chickpet, Bangalore.
Moonlswamy & Sons, Lalbagh Road, Bangalore.
Muddanna, M., & Sons, 158, Avenue Road, Bangalore City.
Mukta Chhaganmull & Co., 438, Avenue Road, Bangalore.
Muller Paten Brothers, 91, Chickpet, Bangalore.
Mysore Carpet Works Ltd., 67, Subedar Chatram Road, Bangalore 3.
Mysore Chemical Manufacturers Ltd., Tarabanahalli, near Chikbanavare, Bangalore.

Mysore Cycle Importing Co., G-35, Arcot Sreenivasachar Street, Bangalore.

Mysore Electrical Industries Ltd., Bangalore.

Mysore General & Commission Agency, Radio House, 9, Central Street, Bangalore.

Mysore Glass and Enamel Works Ltd., 34, Gandhinagar, Bangalore 2.

Mysore Industrial Products, 331, First Main Road, New Tharagupet, Bangalore.

Mysore Industrial and General Agencies, Sri Narasimharaja Road, Bangalore City.

Mysore Paper Mills Ltd., Asiatic Buildings, Bangalore.

Mysore Commercial Union, Ltd., Post Box No. 89, Bangalore 1.

Mysore Spectacles Co., 89, Sultanpet, Bangalore 2.

Mysore Spinning and Manufacturing Co., Ltd., Malleswaram, Bangalore.

Mysore Stoneware Pipes and Potteries Ltd., Gandhinagar, Bangalore.

Mysore Sugar Co. Ltd., Sri Jayachamaraja Road, Bangalore.

Mysore Tobacco Co. Ltd., District Board Buildings, Kempegowda Road, Bangalore City.

Mysore Vegetable Oil Products Ltd., P.O. Box No. 1, Bangalore 2.

N. Sreeramiah, Venkateshiah & Co., D/48, Old Tharagupet, Bangalore 2. Phone: 3874.

Naidu, S. T., & Sons, Dharmaraja Street Cross, Bangalore Cantt.

Narayanaswamy & Co., B. V., Arcot Srinivasachar Street, Bangalore.

Natrajan & Co., C. (Regd.), P.O. Box 20, Sultanpet, Bangalore 2.

Nathan & Co., V. L., Quadrant Road, Bangalore.

National Sugar Works and Coffee Powder Manufacturers, Old Tharagupet, Bangalore.

National Type Foundry, The, Manavarthepet, Bangalore 2.

Novelz Bros., 50, Gandhinagar, Bangalore.

N. S. Narayan Brothers, 156, Commercial Street, Bangalore 1.

Parimala & Co., No. 29, Gandhinagar, Bangalore.

Parry & Co., Ltd., St. Mark's Road, Bangalore.

Pasupathy Ayyar & Co., K. G., Kempegowda Road, Bangalore.

Patel Electric Company, 5/2, Ekambera Sahuji Lane, Chickpet, Bangalore.

Poobathi Krishniah Setty & Co., Chickpet, Bangalore 2.

Poornima Silk House, Chickpet, Bangalore City.

Porcelain Products Co., Subedar Chatram Road, Bangalore.

Pouravani, Bangalore City.

R. Patel & Co., St. Mark's Road, Bangalore.

Radio Engineering Co., Philips House, 6-D, Brigade Road, Bangalore.

Radio Soap Institute, The, Lalbagh Road, Bangalore 2.

Raghulal & Co. (Bangalore) Ltd., 70, Arcot Srinivasachar Street, Bangalore 2.

Rainbow Trading Co., Chickpet, Bangalore.

Raja Cycle and Motor Works, "Raja Buildings", Sri Narasimharaja Road, Bangalore.

Rajagopalan & Co., V. S., South Parade, Bangalore.

Raja Laxminarayana Setty & Sons, Sri Narasimharaja Road, Bangalore.

Ram Mohan & Co., Garudachar Buildings, Bangalore.

Ramnarayan Girdharidas & Co., Avenue Road, Bangalore.

Rangaswamiah H. & Co., Manavarthepet, Bangalore 2.

Reliance Assurance Co. Ltd., Reliance Assurance Buildings, Kempegowda Road, Bangalore.

Reliance Electric Co., 20, Sri Narasimharaja Road, Bangalore.

Royal Stores, 11, South Parade, Bangalore.

R. S. Cooper & Co., News Agents, Times of India Office, 112-D, Brigade Road, Bangalore 1.

S. Dhondusa Gold Thread Factory, Subedar Chatram Road, Bangalore City.

Salam Abdul Majeed & Co., M. A., Stationers, Doddapet, Bangalore.

Samprathi Brothers, 89, Sultanpet, Bangalore City.

Sandur Manganese & Iron Ores (Private) Ltd., Sandur House, Palace Road, Bangalore.

Seshu Iyer & Co., Bangalore.

Sha Surajmull Magaraj & Co., Dewan Surappa Lane, Chickpet, Bangalore.

Shacoor Ahmed Sait, Shacoorabad, Kengeri, Bangalore.

Shah Brothers, Chickpet, Bangalore.

Shah Sakalchand Babulal & Co., Chowdeswari Temple Street, Bangalore.

Shamshuddin & Sons, 6-B, Ulsoor Road, Bangalore.

Shantilal & Co., Osmania Buildings, Sri Narasimharaja Road, Bangalore.

Shivram's Radio House, 24, Silver Jubilee Park Road, Bangalore 2.

Shrieves & Co., Arcot Srinivasachar Street, Bangalore.

Shroff Chennabasappa & Sons, Avenue Road, Bangalore.

Shukoor & Brothers, T. J., Commercial Street, Bangalore.

Shunmughan & Sons, T., New Bamboo Bazar, Bangalore.

Simhan & Co., 30, 4th Main Road, Malleswaram, Bangalore.

Simpson & Co. Ltd., 29-A, Mahatma Gandhi Road, Bangalore.

Sitaram & Pai Brothers, Arcot Srinivasachar Street, Bangalore City.

Sivaji Soap Nut Oil Mills, New Tharagupet, Bangalore.

Sivashankar Brothers, S. S., Sampige Road, Malleswaram, Bangalore.

Soobiah & Sons, V. B., Printers, Nagarthpet Main Road, Bangalore 2.

Sound Products Co., Post Box No. 14, 60, Subedar Chatram Road, Bangalore 2.

Spencer & Co. Ltd., Mahatma Gandhi Road, Bangalore.

Sreeram & Co., 88, Arcot Srinivasachar Street, Bangalore.

Srinivasa Murthy & Sons, G., Bangalore.

Srinivasacharlu & Co., Sri Narasimharaja Road, Bangalore.

Sri Venugopalaswamy & Co., Sri Krishnarajendra Road, Bangalore.

Standard Bricks and Tile Works, Yelahanka, Bangalore.

Standard-Vacuum Oil Co., Magadi Road, Bangalore.

States Engineering Co., Sri Narasimharaja Road, Bangalore.

Steel Construction Co. Ltd., Hardinge Road, Bangalore.

Subbiah Setty & Sons, M., Chamarajpet, Bangalore.

Sujan & Co., 28, Lalbag Road, Bangalore.

Swastik & Co., 92, 3rd Cross Road, Gandhinagar, Bangalore.

Swastik Agencies, Post Box No. 647, Sabuvani Buildings, Sri Narasimharaja Road, Bangalore 2.

Syed Bawker & Co., Commercial Street, Bangalore.

Syed Mahamood & Sons, General Merchants, 6/10, Richards Square, Bangalore 1.

Syed Oosman & Co., D., General Merchants, 165-66, Avenue Road, Bangalore.

Tallam & Co., S. R. L., Dewan Surappa Lane, Bangalore.

Tallam Subbaraya Setty & Sons, Nagarathpet, Bangalore.

Tarapore & Co., Engineers and Contractors, Bangalore.

Tata Oil Mills Co. Ltd. (Tomco Sales Department), 24, Mahatma Gandhi Road, Bangalore 1.

THE COMMISSION & GENERAL AGENCY
(Manufacturers' Representatives)
Sri Narasimharaja Road,
Post Box No. 812, Bangalore 2.
Estd. : 1900
Phone : 2247 Grams : "AGENCY"
Branches : Coimbatore, Mangalore, Kozhikode & Mysore.
Representing :
Tata Industries (Textiles Dept.), Bombay.
Godrej & Boyce Mfg. Co. (Private) Ltd., Bombay.
Parle Products Mfg. Co. Ltd., Bombay.
The Acme Mfg. Co. Ltd., Bombay.
Stainless Steel Agencies Ltd., Bombay.
Parle Bottling Co. Ltd., Bombay.

Time Shop, 10, Commercial Street, Bangalore 1.

Thos. Cook & Son (Continental and Overseas) Ltd., 20C, Mahatma Gandhi Road, Bangalore.

Trade Development Co., Mavalli, Bangalore.

T. R. & Sons, Chamarajpet, Bangalore.

Union Co., 8-9, Bridge Road, Bangalore.

United Commercial Bank Ltd., 26, Gandhinagar, Bangalore.

United India Cycle Co., 39, Silver Jubilee Park Road, Bangalore City.

United Trades and Agencies, Electrical Contractors, Chickpet, Bangalore.

V. Akambara Chetty & Sons, Chetty Hall, 42-43, Commercial Street, Bangalore 1.

Vale & Co., G. K., South Parade, Bangalore.

Vasudeva Setty & Sons, T., Krishna Buildings, Avenue Road, Bangalore.

Veerabhadrappa & Sons, G. R., Avenue Road, Bangalore.

Venkatesiah Setty & Sons, Chickpet, Bangalore.

Venson & Co., St. Mark's Road, Bangalore.

Vijaya Publicities, 85, Sultanpet, Bangalore 2.

Vijayam & Co., B. N., 2, Gundopanth Street, Bangalore.

V. R. Brothers, Main Guard Cross Road, Bangalore.

V. S. R. & Co., Chamarajpet, Bangalore.

Western India Match Co. Ltd., 41, Old Tharagupet, Bangalore.

YADALAM SUBBIAH SETTY & SONS, Managing Agents, Sri Krishna Spinning and Weaving Mills Private Ltd., Chickpet, Bangalore 2. Manufacturers of Mercerised Suitings, Tussores, Poplins and Shirtings.

CLASSIFIED LIST OF TRADES & PROFESSIONS.

ADVERTISING AGENTS AND CONSULTANTS

Associated Advertising and Services.—Krishna Buildings, Avenue Road, Bangalore 2.
Bharath & Co.—Basawangudi, Bangalore 4.
D. J. Keymer & Co. Ltd.—Mysore Sugar Co. Buildings, Sri Jayachamaraja Road, Bangalore 2.
Efficient Publicities, Ltd.—436, Visweswarparam, Bangalore 4.
Empire Publicities.—Kalasipalayam, Bangalore.
Federal Advertising Service.—" Raja Snow Buildings ", Subedar Chatram Road, Bangalore 3.
Grimmer Advertising Consultant.—Opposite Opera Talkies, Bangalore.
Indian Advertising Service.—Malleswaram, Bangalore 3.
Kataka Publicities.—Cottonpet, Bangalore.
Mysore Publicities.—Malleswaram, Bangalore 3.
Purnima Publicities.—Park View, Tulsi Thotam, Bangalore.
Rao Publicities.—II Main Road, Chamarajpet, Bangalore.
Shermack & Son, 1-J, Central Street, Bangalore 1.
Subha Advertising and News Services.—5, Venkatachaliah Lane, Bangalore.
Vijaya Publicities.—Gandhinagar, Bangalore 2.

AERATED WATER MANUFACTURERS

Bombay Ice Candy Works.—Central Street, Bangalore 1.
Goldwin Aerated Factory.—2, Lalbagh Road, Bangalore 2.
Jain Bharath Soda Factory.—Kilari Road, Bangalore.
Ketty Candy Works & Bar.—Central Street, Bangalore 1.
Krishna Soda Factory.—Sri Jayachamarajendra Road, Bangalore 2.
Murugan Soda Factory.—St. John's Road, Bangalore 1.
Mysore Soda Factory.—Kilari Road, Bangalore.
Sardar Aerated Water Factory.—Hospital Road, Bangalore 1.

AUCTIONEERS

Azeez Bros.—Central Street, Bangalore 1.
Cash Auctioneers, The.—1, Rest House Road, Bangalore.
F. C. Rayan & Co.—Mahatma Gandhi Road, Bangalore 1.
Frank Ebraham.—St. Mark's Road, Bangalore 1.
Noor (1947).—Central Street, Bangalore 1.
Republic Auction Hall.—110, Brigade Road, Bangalore 1.

AUTOMOBILES, PARTS AND ACCESSORIES

Addison & Co. Ltd.—St. Mark's Road, Bangalore 1.
Auto Accessories & Spares.—G-86, Sri Narasimharaja Road, Bangalore 2.
Auto Renovo Garage.—Mahatma Gandhi Road, Bangalore 1.
Autos General Service Station.—30, Sri Narasimharaja Road, Bangalore 2.
Bangalore Automobiles.—Seshadripuram, Bangalore 3.
Bangalore Cycle & Motor Co.—Mahatma Gandhi Road, Bangalore 1.
Bangalore Stores.—38, Sri Narasimharaja Road, Bangalore 2.
Bharat Automobiles.—1/4, Sri Narasimharaja Road, Bangalore 2.
Bombay Auto & Radio Stores.—Sri Narasimharaja Road, Bangalore 2.
Car Trade, 9-A, Central Street, Bangalore 1.
Central Automobiles Ltd.—68, Oosmania Buildings, Sri Narasimharaja Road, Bangalore 2.
Coimbatore Automobiles.—34, Central Street, Bangalore 1.
Dosey's Garage.—Mahatma Gandhi Road, Bangalore 1.
Eastern Agencies.—24, Sri Narasimharaja Road, Bangalore 2.
Express Automobiles.—Kalasipalayam, Bangalore.
George Oakes Ltd.—Opposite Corporation Offices, Bangalore 2.
George Webbe Chevrolet Co.—Mahatma Gandhi Road, Bangalore 1.
Hindustan Garage.—Mahatma Gandhi Road, Bangalore 1.
Hindustan Motors Stores.—5, Ramakrishna Buildings, Sri Narasimharaja Road, Bangalore 2.
Immanual Automobiles.—18, Sri Narasimharaja Road, Bangalore 2.
India Garage.—St. Mark's Road, Bangalore 1.
J. P. Stephens & Sons.—104, Brigade Road, Bangalore 1.
Karnatak Motor Corporation.—Sri Narasimharaja Road, Bangalore 1.
Madras Automobiles.—Sri Narasimharaja Road, Bangalore 2.
Madras Auto Service Co., Ltd.—189, Sri Narasimharaja Road, Bangalore 2.
Merlin Motors.—Mahatma Gandhi Road, Bangalore 1.
Modern Mechanical Works.—Cavalry Road, Bangalore.
Motor Sales & Stores.—Coomankhan Road, Bangalore.
Popular Motor & Cycle Co.—Gianand Building, Brigade Road, Bangalore 1. Phone 373.
Raja Cycle & Motor Works.—Sri Narasimharaja Road, Bangalore 2.
Raja Lakshmanarayana Setty & Sons.—Sri Narasimharaja Road, Bangalore 2.
R. A. O. Swamy & Sons.—Central Street, Bangalore 1.
Reliable Motor Stores.—Sri Narasimharaja Road, Bangalore 2.
Reliance Auto Engineering Works.—161-3, Sri Narasimharaja Road, Bangalore 2.
Sarvajit Motor Stores.—Kalasipalayam, Bangalore.
Shanti Kiran Motors.—Mahatma Gandhi Road, Bangalore 1.
Simpson & Co. Ltd.—Mahatma Gandhi Road, Bangalore 1.
StanLuc Services.—14, Residency Road, Bangalore 1.
Tallam Automobiles.—New Bamboo Bazaar, Bangalore.
T. K. Kumarh & Co.—3-E, Central St., Bangalore 1.
T. R. & Co.—Cavalry Road, Bangalore.
T. R. & Sons.—Cavalry Road, Bangalore.
T. Shanmugam & Sons.—Mahatma Gandhi Road, Bangalore 1.
Union Motors Ltd.—Brigade Road, Bangalore 1.
V. R. & Bros.—Quadrant Circle, Bangalore.
V. S. Rajagopalan & Co.—Mahatma Gandhi Road, Bangalore 1.

BAKERS AND CONFECTIONERS

B. B. Bakery.—Chickpet, Bangalore 2.
Coronation Confectionery Stores.—Lansdown Building, Bangalore.
Crown Bakery.—Chookai, Bangalore 1.
Egyptian Confectionery.—1, Haines Road, Bangalore 1.
Excelsior Bakery.—Quadrant Road, Bangalore.
Golden Bakery.—Quadrant Road, Bangalore.
Gowri Shankar Industries.—Old Tharagupet, Bangalore.
Moti Biscuit Co.—Prabha Talkies Square, Bangalore.
Mysore Sugar Co. Ltd.—Sri Jayamaraja Road, Bangalore 2.
Nilgiri Dairy Farm.—Brigade Road, Bangalore 1.
Parade Stores.—St. Mark's Road, Bangalore 1.
Ruby Confectionery Works.—Tulasi Thotam, Bangalore.
Shamla Confectionery.—Majestic Circle, Bangalore 2.
Shivaje Bakery.—Old Police Road, Near City Market, Bangalore 2
S. Israil & Co.—Near Russel Market Square, Bangalore 1.
Vijaya Bakery.—Avenue Road, Bangalore 2.
Weldon Confectionery & Candy Works.—Old Tharagupet, Bangalore

BANKS

Bangalore Central Co-operative Bank Ltd.—Central Bank Road, Chamrajpet, Bangalore 2.
Bangalore City Co-operative Bank Ltd.—3rd Hardinge Road, Bangalore 2.
Bank of Jaipur Ltd.—Avenue Road, Bangalore 2.
Bank of Mysore Ltd.—Avenue Road, Bangalore 2.
Canara Banking Corporation Ltd.—Arcot Sreenivasachar Street, Bangalore 2.
Canara Bank Ltd.—Avenue Road, Bangalore 2.
Canara Industrial & Banking Syndicate Ltd.—53, Gandhinagar, Bangalore 2.
Central Bank of India Ltd.—60, Kempegowda Street, Bangalore 2
Century Bank Ltd.—Gandhi Nagar, Bangalore 2.
Devanga Bank Ltd.—5, Kempegowda Road, Bangalore 2.
Grain Merchants' Co-operative Bank Ltd.—Hardinge Road, Bangalore 2.
Hindu Bank Karur Ltd.—34-36, Gandhi Nagar, Bangalore 2.
Indian Bank Ltd.—Gandhi Nagar, Bangalore 2
Indian Overseas Bank Ltd.—Kempegowda Road, Bangalore 2.
Karnataka Bank Ltd.—Kempegowda Road, Bangalore 2.
Manickavelu Banking Corporation Ltd.—90, New Tharagupet, Bangalore 2.
Mysore Central Co-operative Land Mortgage Bank Ltd.—Albert Victor Road, Bangalore 2.
Mysore Provincial Co-operative Apex Bank Ltd.—1, Hardinge Road, Bangalore 2.
Mysore Standard Bank Ltd.—30/1, Gandhi Nagar, Bangalore 2.
National Bank of India Ltd.—106, Narasimharaja Square, Bangalore 2.
Palai Central Bank Ltd.—25, Mahatma Gandhi Road, Bangalore 2
Punjab National Bank Ltd.—Kempegowda Extension, Bangalore 2.
Salem Bank Ltd.—Sri Krishnarajendra Road, Bangalore 4.
State Bank of India.—St. Mark's Road, Bangalore 1.
S. M. S. A. Bank Ltd.—II Main Road, New Tharagupet, Bangalore 2.
Travancore Bank Ltd.—789, Chickpet, Bangalore 2.
United Commercial Bank Ltd.—Kempegowda Road, Bangalore 2
Vysya Bank Ltd.—467, Sri Krishnarajendra Road, Bangalore 2.

BLOCK MAKERS

Bangalore Press.—Mysore Road, Bangalore 2.
Dawn & Co.—Narayan Pillai Street, Bangalore.
Deccan Herald Press.—Mahatma Gandhi Road, Bangalore 1.
Express Engraving Co.—Avenue Road, Bangalore 2.
Gururaja Studio.—Chickpet, Bangalore 2.
Hall & Co.—Chickpet, Bangalore 2.
Mysore Press Ltd.—Bangalore.
Rajagopal Photo-Zinco Works.—Kalasipalayam, Bangalore.
Shanmugam Process Studio.—Chickpet, Bangalore 2.
Super Process Studio.—Chickpet, Bangalore 2.

BOOK SELLERS AND PUBLISHERS

Bangalore Book Centre.—Puttanna Road, Basavangudi, Bangalore 4.
Bangalore Press Book Depot.—Avenue Road, Bangalore 2.
Bangalore Printing & Publishing Co. Ltd.—Lake View, Mysore Road, Bangalore 2.
Bangalore Tract & Book Society.—16, St. Mark's Road, Bangalore.
Bharathi Publishing House.—Avenue Road, Bangalore 2.
Bible House.—Mahatma Gandhi Road, Bangalore 2.
Central Publishing House.—Silver Jubilee Park Road, Bangalore 2.

HIGGINBOTHAMS LTD. (Estd. 1844).—Mahatma Gandhi Road, Bangalore 1. Booksellers, Publishers, Stationers, Etc.

International Book House, Ltd.—Basvangudi, Bangalore 4.
Karnataka Publishing House.—Krishnarajendra Road, Bangalore.
K. V. Dasappa & Sons.—Avenue Road, Bangalore 2.
Majestic Book House.—Majestic Square, Bangalore 2.
M. B. Lal & Co.—Mahatma Gandhi Road, Bangalore 1.
N. S. Vasan & Co.—Avenue Road, Bangalore 2.
Photoplay Book House.—53, Richard's Square, Bangalore.
R. S. Cooper & Co.—112-D, Brigade Road, Bangalore 1.
S. R. Grant & Co.—St. Mark's Road, Bangalore 1.
Sri Devi Book House.—12-A, Residency Road, Bangalore 1.
Sri Nanjundeswara Book Depot.—Avenue Road, Bangalore 2.
State Business Syndicate.—D-9, V Main Road, Gandhi Nagar, Bangalore 2.

BOOTS AND SHOE-MAKERS

American Boot House.—Chickpet, Bangalore 2.
Bata Shoe Co. Ltd.—Commercial Street, Bangalore 1.
Casino Foot Wear.—Avenue Road, Bangalore 2.
Coronation Foot Wear.—Commercial Street, Bangalore 1.
Empire Foot Wear.—Market Frontage, Bangalore.
Flex Foot Wear.—Market Frontage, Bangalore.
G. S. Shaw & Sons.—Mahatma Gandhi Road, Bangalore 1.
Keshav & Co.—Commercial Street, Bangalore 1.
Mohamed Basheer.—Old Poor House Road, Bangalore 1.
Mysore Chrome Leather Tanning Co., Ltd.—Mysore Road, Bangalore 2.
Ram Boot Works.—Central Street, Bangalore 1.
Reliable Foot Wear.—Commercial Street, Bangalore 1.
Reliance Foot Wear.—Old Poor House Road, Bangalore 1.
Rubin Moses & Sons.—Commercial Street, Bangalore 1.
United Foot Wear.—Grain Bazar, Bangalore 2.

BRICKS AND TILES

Bangalore Fire Bricks & Tile Works.—Bangalore.
B. Jayamuni & Sons.—Dasarahalli, Bangalore.
Brick & Tile Works.—Whitefield, Bangalore.
Fire Bricks & Potteries Ltd.—Yesvantpura P.O., Bangalore.
Shermack & Son.—1-J, Central Street, Bangalore 1.
Standard Bricks & Tile Works.—Yelashanka, Bangalore.

CABLES & WIRE MFGRS.

ASSOCIATED ELECTRICAL INDUSTRIES (INDIA) PRIVATE LTD.—27, Sri Narasimharaja Road, Bangalore. (See Commercial Firms in Bangalore.)

CARPET MANUFACTURERS AND DEALERS

Anantharamaiah's Carpet Factory.—Byatarayanapura, Bangalore.
B. K. Subbaiah & Sons.—Sowrastrapet, Bangalore 2.
Indian Carpet House.—102, Commercial Street, Bangalore 1.
M. Muniswamiah & Sons.—Mahatma Gandhi Road, Bangalore 1.
M. Ramiah Carpet Factory.—Seshadripuram, Bangalore 3.
Mysore Carpet Works.—Seshadripuram, Bangalore 3.
T. R. Ramanna Carpet Factory.—Basavangudi, Bangalore 4.
Y. Chickanna & Sons.—Chickpet, Bangalore 2.

CHEMISTS AND DRUGGISTS

Alba Laboratories.—City Market, Bangalore 2.
Bangalore Medical Hall.—Avenue Road, Bangalore 2.
Basavangudi Pharmacy.—Gandhi Bazaar, Bangalore 4.
Central Pharmacy.—Basavangudi, Bangalore 4.
Cipla Depot Trading Co.—Kalasipalayam, Bangalore.
City Pharmacy.—Arcot Srinivasachar Road, Bangalore 2.
City General Medical Agency.—Chickpet, Bangalore 2.
Coronation Pharmacy.—Arcot Srinivasachar Road, Bangalore 2.
Darvin & Co.—Chickpet, Bangalore 2.
Dattatreya Pharmacy.—Nagarthpet, Bangalore.
Gajanana Traders.—Police Road, Bangalore.
Hari & Co.—Arcot Srinivasachar Road, Bangalore 2.
H. C. S. & Bros.—K. V. Temple Street, Bangalore.
International Pharmacy.—Avenue Road, Bangalore 2.
Lal Vani's.—Silver Jubilee Park Road, Bangalore 2.
Medico & Surgical Agency.—Basavangudi, Bangalore 4.
Mysore Farm Drug House.—Gandhi Bazaar, Bangalore 4.
Mysore Medical Supplies Ltd.—Subedar Chatram Road, Bangalore.
Orient Pharmacy.—Mahatma Gandhi Road, Bangalore 1.
Popular Pharmacy.—Malleswaram, Bangalore 3.
Pranlal & Co.—Arcot Srinivasachar Street, Bangalore 2.
Raghulal & Co.—Arcot Srinivasachar Street, Bangalore 2.
Raja Pharmacy.—Basavangudi, Bangalore 4.
Reliance Medical Hall.—Sultanpet, Bangalore.
Sri Girija Medical Stores.—Arcot Srinivasachar Road, Bangalore 2.
Shahi Pharmacy.—City Market, Bangalore 2.
Shobha Pharmacy.—City Market, Bangalore 2.
Sitaram & Pai Bros.—Arcot Srinivasachar Street, Bangalore 2.
Shekar Shekar Pharmacy.—City Market, Bangalore 2.
V. A. Bangalore & Co.—Arcot Srinivasachar Road, Bangalore 2.
Vijaya Pharmacy.—Silver Jubilee Park Road, Bangalore 2.
Weldon & Co.—Commercial Street, Bangalore 1.
West End Pharmacy.—Brigade Road, Bangalore 1.
Wilfred Pereira.—Central Street, Bangalore 1.

CLOTHING MANUFACTURERS

Aruna Dress Manufacturing Co.—Chickpet Cross, Bangalore 2.
Bangalore Clothing Factory.—Yunus Building, Nagarthpet, Bangalore 2.
Bangalore Dress Manufacturing Co. (Samson's Dresses).—Lalbagh Road, Bangalore 2.
Bharath Dress Manufacturing Co.—Sri Narasimharaja Road, Bangalore 2.
City Dress Manufacturing Co.—Sri Narasimharaja Road, Bangalore 2.
Eastern Hat Manufacturing Co.—6, Shankar Buildings, Chickpet, Bangalore 2.

GLOBE DRESS MANUFACTURING CO.—Silver Jubilee Park Road, Bangalore 2. Phone: 4812. Grams: "GLOBDRESS"; Manufacturers of Quality Garments & Exporters; Stockists required from unrepresented Area in India & Abroad.

Golden Ready-Made Dress Manufacturing Co.—Chickpet, Bangalore 2.
Indian Dress Manufacturing Co.—Santhuspet, Bangalore 2.
Joosab Abdul Kareem Sait & Co.—New Market, Bangalore 2.
Krishna Dress Manufacturing Co.—Basavangudi, Bangalore 4.
Lakshman Dress Manufacturing Co.—Basavangudi, Bangalore 2.
Lalitha Dress Manufacturing Co.—Silver Jubilee Park Road, Bangalore 2.
Manu Garments.—Silver Jubilee Park Road, Bangalore 2.
Novelty Dress Manufacturing Co.—Nagarthpet, Bangalore 2.
Nutan Dress Manufacturing Co.—N-6, Nagasandra Road, Basavangudi, Bangalore 4.
Prakash Dress Manufacturing Co.—Kempegowda Road, Bangalore 2.
Raghvendra Dress Manufacturing Co.—772, Chickpet, Bangalore 2.
Ranganath Dress Manufacturing Co.—Cubbonpet, Bangalore 2.

ROYAL DRESS MANUFACTURING CO., THE.—"Shalimar Buildings", Subedar Chatram Road, Seshadripuram, Bangalore 3; Trade Enquiries encouraged.

Siddarama Dress Manufacturing Co.—Ulsoorgate, Bangalore 2.
Sri Lakshmi Venkateswara Dress Manufacturing Co.—Akkipet, Bangalore 2.
Sri Rama Dress Manufacturing Co.—45, Avenue Road, Bangalore 2.
Standard Dress Manufacturing Co.—Chickpet, Bangalore 2.
Star Dress Manufacturing Co.—53-1, Police Road, Bangalore 2.
State Traders.—Chickpet, Bangalore 2.
Swastic Trading Co.—Balepet, Bangalore 2.
Udaya Dress Manufacturing Co.—Basavangudi, Bangalore 4.
Warewells (India) Ltd.—Lalbagh Road, Bangalore 2.

CROCKERY

Bawa Glass & Crockery House.—Chickpet, Bangalore 2.
C. S. Narayan Rao & Bros.—City Market, Bangalore 2.
Gem Light & Co.—Chickpet, Bangalore 2.
Government Porcelain Factory.—Malleswaram, Bangalore 3.
M. Hashim & Co.—Old Poor House Road, Bangalore 1.
Mysore Glass & Enamel Works Ltd.—Yeswantapur, Bangalore.
Mysore Industrial Development Co.—99, Central Bank Road, Chamrajpet, Bangalore.
Mysore Stoneware, Pipes and Potteries, Ltd.—Gandhi Nagar, Bangalore 2.
S. M. Stores.—Meenakshi Koil Street, Bangalore.
Sri Rama Ceramic Industries.—Mysore Road, Bangalore 2.
Well Wish Stores.—117, Brigade Road, Bangalore 1.

CYCLES AND CYCLE PARTS DEALERS

Bangalore Cycle & Motor Co.—1-A, Mahatma Gandhi Road, Bangalore 1.
Bharat Cycle & Motor Co.—Chickpet, Bangalore 2.
Bombay Cycle Co.—Arcot Srinivasachar Street, Bangalore 2.
Capitol Cycle & Motor Co.—P.B. 126, Sri Narasimharaja Road, Bangalore 2.
Central Cycle Works.—Central Street, Bangalore 1.
Century Cycle & Motor Mart.—Chickpet, Bangalore 2.
C. Natrajan & Co.—Sultanpet, Bangalore 2.
C. V. Rama Iyer & Co.—12, Sri Narasimharaja Road, Bangalore 2.
Empire Cycle Mart.—Brigade Road, Bangalore 1.
Fancy Stores.—Brigade Road, Bangalore 1.
K. J. Balsara.—59, Silver Jubilee Park Road, Bangalore 2.
Kumar Cycle Importing Co.—50/1, Silver Jubilee Park Road, Bangalore 2.
Liberty Cycle Importing Co.—57, Silver Jubilee Park Road, Bangalore 2.
M. R. Parekh & Bros.—Arcot Srinivasachar Street, Bangalore 2.
Mysore Cycle Importing Co.—Arcot Srinivasachar Street, Chickpet, Bangalore 2.
New Era Corporation.—Silver Jubilee Park Road, Bangalore 2.

Paramount Cycle Stores.—1/2, Silver Jubilee Park Road, Bangalore 2.
Popular Auto & Cycle Co.—Brigade Road, Bangalore 1.
Presidency Cycle Importing Co.—63, Silver Jubilee Park Road, Bangalore 2.
Raja Cycle & Motor Works.—Sri Narasimharaja Road, Bangalore 2.
Ramaswami & Narasinga Rao.—179, Sri Narasimharaja Road, Bangalore 2.
Rawoof Cycle Mart.—Quadrant Circle, Bangalore.
Reliable Motor Stores.—Narasimharaja Road, Bangalore 2.
Reliance Cycle & Motor Accessories.—Main Guard Cross Road, Bangalore.
Sharada Cycle Stores.—Arcot Srinivasachar Street, Bangalore 2.
Silver Cycle Importing Co.—67, Silver Jubilee Park Road, Bangalore 2.
Singson Cycle Co.—97, Commercial Street, Bangalore 1.
Standard Cycle Mart.—24, New Market, Bangalore.
State Cycle Importing Co.—66, Silver Jubilee Park Road, Bangalore 2.
T. R. & Sons.—Cavalry Road, Bangalore 1.
United India Cycle Co.—39, Silver Jubilee Park Road, Bangalore 2.
Vora Cycle Trading Co.—Silver Jubilee Park Road, Bangalore 2.

DYES AND CHEMICALS

Bharat Dyes & Chemicals Co.—Uttaradimutt Lane, Chickpet, Bangalore 2.
Colours Trading Co. Ltd.—Arcot Srinivasachar Street, Bangalore.
G. Umakantha & Co.—Mamulpet, Bangalore.
Jayakumar Agencies.—Mamulpet, Bangalore.
Mohamed Rahim Khaleeli.—Avenue Road, Bangalore 2.
M. Srinivasachariu & Co.—Sri Narasimharaja Road, Bangalore 2.
Shapur & Co.—Arcot Srinivasachar Street, Bangalore.
S. Palaniswamy & Co.—Nagarthpet, Bangalore.
Vasanth Dyes & Chemicals.—Chickpet, Bangalore 2.

ELECTRIC FURNACES

ASSOCIATED ELECTRICAL INDUSTRIES (INDIA) PRIVATE LTD.—27, Sri Narasimharaja Road, Bangalore. (*See Commercial Firms in Bangalore.*)

ELECTRIC LAMPS

ASSOCIATED ELECTRICAL INDUSTRIES (INDIA) PRIVATE LTD.—27, Sri Narasimharaja Road, Bangalore. (*See Commercial Firms in Bangalore.*)

ELECTRIC MOTORS, GENERATORS & SETS

ASSOCIATED ELECTRICAL INDUSTRIES (INDIA) PRIVATE LTD.—27, Sri Narasimharaja Road, Bangalore. (*See Commercial Firms in Bangalore.*)

ELECTRICAL GOODS & APPLIANCES

Ahuja's, Electrical Show Room.—881-882, Chickpet, Bangalore 2.
Asoka Electric Stores.—Chamarajpet, Bangalore 2.

ASSOCIATED ELECTRICAL INDUSTRIES (INDIA) PRIVATE LTD.—27, Sri Narasimharaja Road, Bangalore. (*See Commercial Firms in Bangalore.*)

Bangalore Electric Service Trading Co.—Chamarajpet, Bangalore 2.
Bangalore Light House.—27, Meenakshy Kovil Street, Bangalore.
Bengal Electricals.—" India House ", Malleswaram, Bangalore 3.
Bharathi Electric Service Co.—44, Sri Narasimharaja Road, Bangalore 2.
City Electric Stores.—Balepet, Bangalore 2.
Consolidated Electrical Industries.—Sri Narasimharaja Road, Bangalore 2.
Electronico.—Silver Jubilee Park Road, Bangalore 2.
Flash Electric Works.—Mahatma Gandhi Road, Bangalore 1.
General Electric Warehouse.—Sri Narasimharaja Road, Bangalore 2.
Grand Electric Stores.—Chickpet, Bangalore 2.
Hind Electric Co.—Ebrahim Saheb Street, Bangalore 1.
Hindustan Electric Stores.—Old Taluk Cutchery Road, Bangalore.
Hymanshu & Co.—Mahatma Gandhi Road, Bangalore 1.
Ideal Electrical Works.—Gandhi Nagar, Bangalore 2.
Industrial & Agricultural Engineering Co. (Mysore) Ltd.—Silver Jubilee Park Road, Bangalore 2.
International General Electric Co. Ltd.—Sri Narasimharaja Road, Bangalore 2.
Jai Hind Electric Corporation.—Avenue Road, Bangalore 2.
Jaya Electric Stores.—Subedar Chatram Road, Bangalore.
Killedar Electric Co. Ltd.—13th Cross, Malleswaram, Bangalore 3.
Kohinoor Electric Co.—Chickpet, Bangalore 2.
Kumar Electric House.—Fraser Town, Bangalore.
Lakshmi Electric Stores.—Avenue Road, Bangalore 2.
Maheswar Electric Co.—Chickpet, Bangalore 2.
Modern Electric House.—263-A, Cavalry Road, Bangalore 1.
Mysore Electrical Industries, Ltd.—Mysore Road, Bangalore 2.
Nagareswara Electric Co.—Chickpet, Bangalore 2.
Narayana Electric Stores.—Chickpet, Bangalore 2.
Nemichand Electric Stores.—Chickpet, Bangalore 2.
Patel Electric Co.—Chickpet, Bangalore 2.
Popular Electric Co.—Mackan Road, Bangalore.
Precious Electric Co.—Arcot Srinivasachar Street, Bangalore 2.
Radiant Electricals.—Chamarajpet, Bangalore 2.
Radio & Electricals Manufacturing Co.—Mysore Road, Bangalore 2.
Raghava Electric Stores.—Gavipuram Extension, Bangalore 2.
Ramkrishna Electric Stores.—Gandhi Bazar, Basavangudi, Bangalore 4.
Regal Electrical Co.—Commercial Street, Bangalore 1.
Reliance Electric Co.—Sri Narasimharaja Road, Bangalore 2.
Shakthi Electric Stores.—Subedar Chatram Road, Bangalore.
Sree Rama Electric Stores.—Chamarajpet, Bangalore 2.
Sri Gururaja Electric Stores.—Arcot Srinivasachar Street, Bangalore 2.
Sri Krishna Electric House.—Nagarthpet, Bangalore.

ELECTRICAL INSTRUMENTS & METERS

ASSOCIATED ELECTRICAL INDUSTRIES (INDIA) PRIVATE LTD.—27, Sri Narasimharaja Road, Bangalore. (*See Commercial Firms in Bangalore.*)

ELECTRODES

ASSOCIATED ELECTRICAL INDUSTRIES (INDIA) PRIVATE LTD.—27, Sri Narasimharaja Road, Bangalore. (*See Commercial Firms in Bangalore.*)

ELECTROPLATERS

Modern Electro Metalling Works.—Brigade Road, Bangalore 1.
Madonna Modern Electroplating Works.—Sri Narasimharaja Road, Bangalore 2.
Rathna Electroplating & Engineering Works.—Kumbaragundi Road, Bangalore.
Srinivasa Electric & General Stores.—Nagarthpet, Bangalore 2.
S. S. Kshyatriya Electric Stores.—Balepet, Bangalore 2.
Standard Electric Co.—Gandhinagar, Bangalore 3.
Swastick Electrical Industries.—Chickpet, Bangalore 2.
Taj Electric Stores.—Subedar Chatram Road, Bangalore 2.
Vasudeva's Radio Cine Electricals.—48, Silver Jubilee Park Road, Bangalore 2.
Velt & Co.—Avenue Road, Bangalore 2.
Vijaya Electric Stores.—Cottonpet, Bangalore 2.
Vishvanatha Electric & Radio Corporation.—Sri Narasimharaja Road, Bangalore 2.
V. Rangappa & Sons.—Nagarthpet, Bangalore.

ENGINEERS AND CONTRACTORS

A. Narasaiya & Sons.—Avenue Road, Bangalore 2.
Ashoka Engineering Co.—Brigade Road, Bangalore 1.
Asoka Electric Stores.—Chamarajpet, Bangalore 2.

ASSOCIATED ELECTRICAL INDUSTRIES (INDIA) PRIVATE LTD.—27, Sri Narasimharaja Road, Bangalore. (*See Commercial Firms in Bangalore.*)

Associated Engineering Services.—Sr Narasimharaja Road, Bangalore 2.
Bombay Cash Bazar.—Commercial Street, Bangalore 1.
Electric & General Emporium.—Commercial Street, Bangalore 1.
Electric & General Engineering Co.—Dispensary Road, Bangalore.
Gopal & Bros.—Vinveswarapuram, Bangalore.
G. S. Sivarudrappa & Sons.—Kempegowda Road, Bangalore 2.
Industrial & Agricultural Engineering Co. (Mysore) Ltd.—Silver Jubilee Park Road, Bangalore 2.
K. G. Girmajee & Bros.—Basavangudi, Bangalore 4.
Lakshmi Electric Stores.—Avenue Road, Bangalore 2.
Modern Electric House.—Cavalry Road, Bangalore 1.
Reliance Electric Co.—Sri Narasimharaja Road, Bangalore 2.
Sivagura & Co.—Commercial Street, Bangalore 1.
States Engineering Co.—Sri Narasimharaja Road, Bangalore 2.
United Trades & Agencies.—Chickpet, Bangalore.
Vinayakam & Co.—Commercial Street, Bangalore 1.

FLORISTS AND SEEDSMEN

B. L. Bayanna & Bros.—Lalbagh Fort Road, Bangalore 2.
Croton Nursery.—Lalbagh Fort Road, Bangalore 2.
G. Gurappa & Sons.—Mavalli, Bangalore.
M. Lakshmaiya & Sons.—Lalbagh Road, Bangalore 2.
M. Moosakutty & Sons.—Lalbagh Road, Bangalore 2.
M. Obalappa & Bros.—Lalbagh Road, Bangalore 2.
M. Ramaiya & Sons.—Lalbagh Road, Bangalore City.
Soundarayya Nursery.—Lalbagh Road, Bangalore 2.

FURNITURE MANUFACTURERS AND DEALERS

. R. Sharieff.—Sri Narasimharaja Road, Bangalore 2.
angalore Furnishing Co.—Central Street, Bangalore 1.
harath Furnishing House.—Sri Jayachamaraja Road, Bangalore 2.
alley & Co.—Central Street, Bangalore 1.
eneral Equipment Merchants Ltd.—69, Silver Jubilee Park Road, Bangalore 2.
. D. Francis & Sons.—Silver Jubilee Park Road, Bangalore 2.
etro Furnishing House.—Bamboo Bazar, Bangalore.
anduranga Furniture Works.—Malleswaram, Bangalore 3.
oyal Furnishing Co.—Cavalry Road, Bangalore 1.
. Chandran.—15, Infantry Road, Bangalore 1.
. Chandran Furniture Shop.—8, Central Street, Bangalore 1.
hacoor Bros.—Central Street, Bangalore 1.
araka Ram Furnishing Works.—Balepet, Bangalore 2.

GLASS AND GLASSWARE

awa Glass & Crockery House.—Chickpet, Bangalore 2.
. S. Narayan Rao & Bros.—City Market Bangalore 2.
em Light Co.—Chickpet, Bangalore
overnment Porcelain Factory.—Malleswaram, Bangalore 3.
laharaja Frame Works.—Chickpet, Bangalore 2.
lysore Glass & Enamel Works Ltd.—Yeswantapur, Bangalore.
. M. Stores.—Meenakshi Koil Street, Bangalore.
ri Ram Ceramic Industries.—Mysore Road, Bangalore 2.
ell Wish Stores.—117, Brigade Road, Bangalore 1.

HARDWARE AND PAINTS

hmadally & Co., Ltd.—Sri Narasimaharaja Road, Bangalore 2.
. K. Mohamed & Co.—21, Malavalli Rama Rao Lane, Bangalore.
. M. Mohamed Mohadeen & Co.—Gundopath Street, Bangalore.
runa Paints & Enamels.—Malleswaram, Bangalore 3.
angalore City Hardware Co.—Godown Street, Bangalore.
angalore Paint & Enamel Works.—Malleswaram, Bangalore 3.
harathi Paint Syndicate.—93, Silver Jubilee Park Road, Bangalore 2.
hasker Trading Agency.—Godown Street, Bangalore.
. N. Vijayam & Co.—Gundopath Street, Bangalore.
. A. Gallakotwala & Co., Ltd.—43/1, Sri Narasimharaja Road, Bangalore 2.
alcutta Machinery & Metal Mart.—12, Gundopath Street, Bangalore.
handra Hardware Stores.—Malavalli Rama Rao Lane, Bangalore.
ommercial Hardware Co.—21, Old Poor House Road, Bangalore 1.
. K Saddar & Co.—19, Silver Jubilee Park Road, Bangalore 2.
brahim Rahimtulla & Co.—9, Silver Jubilee Park Road, Bangalore 2.
annon Dunkerley.—Sri Narasimharaja Road, Bangalore 2.
eneral Hardware Co.—Gundopath Street, Bangalore 2.
lobe Iron Foundry.—Magadi Road, Bangalore.
aji Abdul Rahaman Sahib Son.—Gundopath Street, Bangalore 2.
Hindustan Hardware Mart.—Malavalli Rama Rao Street, Bangalore.
. Haji Khader Bacha Sahib & Sons.—Gundopath Street, Bangalore 2.
. H. K. Pacha Miyan Saheb Bros.—Avenue Road, Bangalore 2.
rishna Engineering Works.—Cottonpet, Bangalore.
d Abdul Basith & Bros.—19, Meenakshi Koil Street, Bangalore.
d A. Jabbar & Co.—26-A, Old Poor House Road, Bangalore 1.
d Chandamiyan Sahib & Son.—76, Commercial Street, Bangalore 1.
d C. Sundaraja & Co.—6, Godown Street, Bangalore.
ercury Agency.—97-B, Commercial Street, Bangalore 1.
ysore Hardware & Metal Mart.—13, Gundopath Street, Bangalore 2.
alin & Prakash.—Silver Jubilee Park Road, Bangalore 2.
Abdul Razak Sahib & Sons.—Gundopath Street, Bangalore.
C. Abdul Wahab Sahib & Co.—88, Gundopath Street, Bangalore.
M. Abdul Khuddus & Sons.—89, Commercial Street, Bangalore 1.
evanna Gurusidappa.—Godown Street, Bangalore.
chardson & Cruddas Co., Ltd.—Sri Narasimharaja Road, Bangalore 2.
tal Hardware Mart.—V-46, Malavalli Rama Rao Lane, Bangalore.
. Mohamed Ismail & Co.—81, Commercial Street, Bangalore 1.
Nazeer Ali Hardware Stores.—Meenakshi Koil Street, Bangalore.
tates Steel & Paints Co.—Godown Street, Bangalore.
Jamini & Co.—Commercial Street, Bangalore 1.
J Wahab & Sons.—100/101, Commercial Street, Bangalore 1.
. Mohamed Ubaidulla Sahib & Co.—Godown Street, Bangalore.
own Hardware Stores.—206, Avenue Road, Bangalore 2.
. R. Malik & Co.—Godown Street, Bangalore 2.
S Khader & Bros.—12, Godown Street, Bangalore.
don Engineering Co.—Visveswarapuram, Bangalore.
ited Hardware Co.—Commercial Street, Bangalore 1.
Baba Sahib & Son.—127, Commercial Street, Bangalore 1.
S A. Basith & Co.—Kumbarpet, Bangalore.

HOSPITAL EQUIPMENT & SUPPLIES

ASSOCIATED ELECTRICAL INDUSTRIES (INDIA) PRIVATE LTD.—27, Sri Narasimharaja Road, Bangalore. (*See* Commercial Firms in Bangalore.)

HATS AND CAPS MANUFACTURERS AND DEALERS

Austin Hat Works.—Avenue Road, Bangalore 2.
Eastern Hat Manufacturing Co.—Chickpet, Bangalore 2.
Imperial Hat Manufacturing Co.—Civil Station, Bangalore.
Oriental Hat Manufacturing Co.—Civil Station, Bangalore.
Royal Hat Works.—Commercial Street, Bangalore 1.
Union Hat Works.—Avenue Road, Bangalore 2.

HOTELS

Ambassador Hotel.—High Grounds, Bangalore 2
Bharath Bhavan.—Infantry Road, Bangalore 1.
Bombay Anand Bhavan.—Old Poor House Road, Bangalore 1.
Bombay Chandra Bhavan.—Avenue Road, Bangalore 2.
Central Hotel.—Kasturba Road, Bangalore 1.
Hotel Embassy.—Infantry Road, Bangalore 1.
Hotel Greenlands.—Kasturba Road, opposite Museum, Bangalore 1.
Jaya Bhavan.—Kalasipalayam, Bangalore 2.
Lalitha Mahal.—Gandhi Nagar, Bangalore 2.
Lobo's Hotel.—Cubbon Road, Bangalore 1.

MAISH'S HOTEL.—1, Residency Road, Bangalore 1. Phone: 3717; Grams: "SERVICE"; European Management; Continental & Indian Dishes.

Modern Hindu Hotel.—Anandrao Circle, Bangalore 2.
Neo Mysore Cafe.—Kempegowda Road, Bangalore 2.
New Everest Hotel.—Park Road, Bangalore 2.
New Krishna Bhavan.—Sirur Park, Seshadripuram, Bangalore 3.
Ratan Café.—Malleswaram Circle, Bangalore 3.
Shastry's Hotel.—Chickpet, Bangalore 2.
Shilton Hotel.—St. Mark's Road, Bangalore 1.

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Phone : 3670 & 6141 (3 lines) Grams : "BESTHOTEL"

Taj Mahal Hotel.—Gandhinagar, Bangalore 2.
Victoria Hotel & Restaurant.—Residency Road, Bangalore Cantt. Phone : 4538.
West End Hotel.—Race Course Road, Bangalore 2.

INSURANCE COMPANIES

Andhra Insurance Co., Ltd.—Kempegowda Road, Bangalore 2.
Asiatic Government Security Life & General Assurance Co., Ltd.—Kempegowda Road, Bangalore 2.
Asian Assurance Co., Ltd.—1, Sri Narasimharaja Road, Bangalore 2.
Bangalore Provident Insurance Co., Ltd.—Kempegowda Road, Bangalore 2.
Bharat Insurance Co., Ltd.—Avenue Road, Bangalore 2.
Bombay Life Assurance Co., Ltd.—Visweswarapuram, Bangalore.
British India General Insurance Co., Ltd.—Kempegowda Road, Bangalore 2.
Canara Mutual Assurance Co.—Gandhi Nagar, Bangalore 2.
Commonwealth Assurance Co., Ltd.—Basavangudi, Bangalore 4.
Concord of India Insurance Co., Ltd.—Chickpet, Bangalore 2.
Crescent Insurance Co., Ltd.—Mahatma Gandhi Road, Bangalore 1.
Empire of India Life Insurance Co., Ltd.—Kempegowda Road, Bangalore 2.
General Assurance Society Ltd.—Gandhinagar, Bangalore 2.
Hindustan Co-operative Insurance Society Ltd.—Kempegowda Road, Bangalore 2.
Indian Mutual Life Association Ltd.—Fort, Bangalore.
Industrial & Prudential Assurance Co., Ltd.—Kempegowda Road, Bangalore 2.
Jupiter General Insurance Co., Ltd.—II Cross Road, Basavangudi, Bangalore 4.

Metropolitan Insurance Co., Ltd.—Chamarajpet, Bangalore 2.
Mysore Government Life Insurance Dept.—Post Office Road, Bangalore.
Mysore Insurance Co., Ltd.—Silver Jubilee Park Road, Bangalore 2.
National India Life Insurance Co., Ltd.—Silver Jubilee Park Road, Bangalore 2.
New Asiatic Insurance Co., Ltd.—Sri Narasimharaja Road, Bangalore 2.
New India Assurance Co., Ltd.—Kempegowda Road, Bangalore 2.
Oriental Govt. Security Life Assurance Co., Ltd.—Mahatma Gandhi Road, Bangalore 1.
Pandyan Insurance Co., Ltd.—Chickpet, Bangalore 2.
Pioneer Caledonian & Century Insurance Co., Ltd.—325, Visveswarapuram, Bangalore.
Popular Insurance Co., Ltd.—Gandhinagar, Bangalore 2.
Premier Life & General Insurance Co., Ltd.—Sri Narasimharaja Road, Bangalore 2.
Prithvi Insurance Co., Ltd.—Kempegowda Road, Bangalore 2.
Ruby General Insurance Co., Ltd.—37-38, Silver Jubilee Park Road, Bangalore 2.
Sterling General Insurance Co., Ltd.—Sri Narasimharaja Road, Bangalore 2.
Union Life Insurance Co., Ltd.—27-28, Silver Jubilee Park Road, Bangalore 2.
United India Life Assurance Co., Ltd.—Sri Narasimharaja Road, Bangalore 2.
Vanguard Fire & General Insurance Co., Ltd.—Silver Jubilee Park Road, Bangalore 2.
Warden Insurance Co., Ltd.—Gandhinagar, Bangalore 2.

JEWELLERS AND DIAMOND MERCHANTS

Aswathanarayana Jewellery Hall.—Chickpet, Bangalore 2.
Bangalore Jewellery Mart.—Chickpet, Bangalore 2.
Barton Son & Co., Ltd.—Mahatma Gandhi Road, Bangalore 1.
Batchu Ramaiah Setty & Sons.—139, Jewellers Street, Bangalore 1.
B. Basappa & Sons.—Chickpet, Bangalore 2.
B. Muthyala Setty & Bros.—Avenue Road, Bangalore 2.
B. N. Govindiah Setty & Bros.—Nagarthpet, Bangalore 2.
Ceylon Trading Co.—11, Commercial Street, Bangalore 1.
C. J. Ramaswamy Setty & Sons.—Avenue Road, Bangalore 2.
C. Krishnaiah Chetty Sons & Co.—459, Avenue Road, Bangalore 2.
C. Narayana Swamy Setty & Sons.—Chickpet, Bangalore 2.
Davangere City Jewellery Mart.—Avenue Road, Bangalore 2.
Ellore Jewellery Mart.—Avenue Road, Bangalore 2.
Ganjam Nagappa & Son.—Arcot Srinivaschar Street, Bangalore 2.
Kantilal A. Mehta & Bros.—Avenue Road, Bangalore 2.
Keseria A. Setty & Co.—Chickpet, Bangalore 2.
K. M. Kocheta & Sons.—Avenue Road, Bangalore 2.
K. R. Nanjundiah Setty & Sons.—Chickpet, Bangalore 2.
Lakshmi Jewellery Co.—Nagarthpet, Bangalore 2.
Lalitha Jewellery Co.—Nagarthpet, Bangalore 2.
Mahalaxmi Jewellery Works.—Gundopath Street, Bangalore 2.
Mutha Chaganmal Salt & Co.—Avenue Road, Bangalore 2.
N. S. Narayan Bros.—Commercial Street, Bangalore 1.
Panduranga Jewellery Mart.—Chickpet, Bangalore 2.
Satyasadhana Jewellery Mart.—Nagarthpet, Bangalore 2.
Shantilal A. Mehta & Bros.—Avenue Road, Bangalore 2.
Swastick Jewellery Mart.—Avenue Road, Bangalore 2.
T. Vasudeva Setty & Sons.—Avenue Road, Bangalore 2.
V. Ananthapadmanabhaiya Setty & Sons.—Avenue Road, Bangalore 2.
V. R. Seetharamaiah Setty & Sons.—Avenue Road, Bangalore 2.

LIGHTING FITTINGS

ASSOCIATED ELECTRICAL INDUSTRIES (INDIA) PRIVATE LTD.—27, Sri Narasimharaja Road, Bangalore. (*See* **Commercial Firms in Bangalore**).

MACHINERY DEALERS, IMPORTERS, MANUFACTURERS

Allied Industrial Distributors Ltd.—70-71, Silver Jubilee Park Road, Bangalore 2.
A. B. Eawer & Co.—Silver Jubilee Park Road, Bangalore City (S. India). Phone : 3198.
A. C. E. C. (India) Ltd.—Silver Jubilee Park Road, Bangalore 2.
Associated Electrical Industries (India) Ltd.—United India Building, Bangalore 2.
A. B. Eawar & Co.—Silver Jubilee Park Road, Bangalore 2.
Bangalore Textile Machinery Co.—Kasi Visveswara Temple Street, Bangalore.
Bellibol Ltd.—Silver Jubilee Park Road, Bangalore 2.
Bengal Electricals.—"India House", Malleswaram, Bangalore 3.
Best & Co., Ltd.—Silver Jubilee Park Road, Bangalore 2.
Crompton Engineering Co. (Madras) Ltd.—31-32, Silver Jubilee Park Road, Bangalore 2.
Durga Engineering Works.—63, Silver Jubilee Park Road, Bangalore 2.
East Asiatic Co. (India) Ltd.—Silver Jubilee Park Road, Bangalore 2.
Gannon Dunkerley & Co., Ltd.—Sri Narasimharaja Road Bangalore 2.
General Engineering Co.—Kempegowda Road, Bangalore 2.
General & Machinery Co.—Sri Narasimharaja Road, Bangalore 2
Government Central Industrial Workshop.—G.P.O. Road, Bangalore.
Industrial & Agricultural Engineering Co. (Mysore) Ltd.—Silver Jubilee Park Road, Bangalore 2.
International General Electric Co., Ltd.—Sri Narasimharaja Road, Bangalore 2.
Jaya Engineering Co.—Silver Jubilee Park Road, Bangalore 2.
Jaymes Engineering Co., Ltd.—Silver Jubilee Park Road, Bangalore 2.
Khoday Engineering Works.—Tank Bund Road, Bangalore.
Kirloskar Bros. Ltd.—Sri Narasimharaja Road, Bangalore 2.
K. Swaminathan & Co.—20, Silver Jubilee Park Road, Bangalore 2
Madhurai Mudaliar & Sons.—Mysore Road, Bangalore 2.
Marshall Sons & Co. (India) Ltd.—Sri Narasimharaja Road, Bangalore 2.
Metro Malleable Manufacturers Ltd.—Silver Jubilee Park Road, Bangalore 2.
Modern Electric House.—263-A, Cavalry Road, Bangalore 1.
Modern Engineering Co—Chickpet, Bangalore 2.
Modern Mill & Auto Stores.—21, Silver Jubilee Park Road, Bangalore 2.
M. R. & Sons.—Avenue Road, Bangalore 2.
Mysore Electrical Industries Ltd.—Mysore Road, Bangalore 2
Mysore Industrial & Agricultural Marketing Co.—Mavalli Circle, Bangalore.
Mysore Industrial Suppliers Ltd.—2/3, Silver Jubilee Park Road, Bangalore 2.
Mysore Machinery Manufacturers Ltd.—Mysore Road, Bangalore 2.
Radio & Electricals Manufacturing Co.—Mysore Road, Bangalore 2
Rane (Madras) Ltd.—Sri Narasimharaja Road, Bangalore 2
Shantilal & Co.—Sri Narasimharaja Road, Bangalore 2
Sri Swamy Trades.—2nd Main Road, Visveswarapuram, Bangalore
Srivisco.—Subedarchatram Road, Bangalore.
Standard Machinery Co., Ltd.—87, Silver Jubilee Park Road, Bangalore 2.
Steel Construction Co., Ltd.—Hardinge Road, Bangalore.
Tarapore & Co.—Spencer Road, Bangalore.
Voltas Ltd.—Sri Jayachamaraja Road, Bangalore 2.
V. S. Begur & Co.—48-A, Silver Jubilee Park Road, Bangalore 2

MANUFACTURERS' REPRESENTATIVES

Anand Bros., Ltd.—Kempegowda Road, Bangalore 2.
Anur Bros.—Balepet, Bangalore 2.
Bombay Trading Co. (Mysore).—Hanuman Buildings, Chickpet, Bangalore 2.
Commission & General Agency.—Sri Narasimharaja Road, Bangalore 2.
Continental Agencies.—II Cross, Gandhinagar, Bangalore 2.
Emberuman & Co.—Avenue Road, Bangalore 2.
Impex Corporation (Mysore) Ltd.—Kempegowda Road, Bangalore 2.
International Agencies.—Gandhinagar, Bangalore 2.
M. A. T. Acharya & Co.—Avenue Road, Bangalore 2.
Modern Electric House.—263A, Cavalry Road, Bangalore 1. Phone 4351. Grams : "Ranipadam."
M. Srinivasachariu & Co.—Sri Narasimharaja Road, Bangalore 2
Mysore Industrial & General Agencies.—Sabuvani Buildings, Sri Narasimharaja Road, Bangalore 2.
N. G. Naik & Co.—52, H.B. Samaja Road, Basavangudi, Bangalore 2.
Parry & Co., Ltd.—St. Mark's Road, Bangalore 1.
Selvel Lines.—I Cross, Gandhinagar, Bangalore 2.
Swastik Agencies.—Silver Jubilee Park Road, Bangalore 2.
Union Agencies.—Brigade Road, Bangalore 1.
Vijayam & Co. (Madras) Ltd.—Kempegowda Road, Bangalore 2.
V. R. & Sons.—Narasimharaja Road, Bangalore 2.
Young India Agencies, Ltd.—Gandhinagar, Bangalore 2.

METAL MERCHANTS

A. C. Subbiah Chettiar.—Arcot Srinivasachar Street, Bangalore 2
Anant Bros.—Arcot Srinivasachar Street, Bangalore 2.
Annapurna Cooker Co.—Basavangudi, Bangalore 4.
Keshavlal & Co.—71, Sri Narasimharaja Road, Bangalore 2.
Kiran Metal House.—Chickpet, Bangalore 2.
Lalchand Chaganlaj.—Chickpet, Bangalore 2.
Maganlal & Co.—Arcot Srinivasachar Street, Bangalore 2.
Misrimal Bhabuthmal & Bros.—Chickpet, Bangalore 2.
Motilal & Co.—Arcot Srinivasachar Street, Bangalore 2.
Raghava Metal Works.—96-97, Oosmankhan Road, Bangalore 2.
Sha Kundanmal Kesharimal.—Arcot Srinivasachar Street, Bangalore 2.

Sha Maganlal & Chamanlal.—Arcot Srinivasachar Street, Bangalore 2.
Shantilal C. Dhami.—Arcot Srinivasachar Street, Bangalore 2.
Sha Pratapmal Mulchand & Co.—Arcot Srinivasachar Street, Bangalore 2.
Sha Sankalchand Nathmal.—Chickpet, Bangalore 2.
S. Hastimal & Co.—Arcot Srinivasachar Street, Bangalore 2.
V. C. P. Ramaswamy Chettiar & Sons.—Arcot Srinivasachar Street, Bangalore 2.
V. Deepchand.—Arcot Srinivasachar Street- Bangalore 2.
V. G. Gopal & Sons.—Arcot Srinivasachar Street, Bangalore 2.
Vijaya Metal & Coffee Works.—Old Police Road, Bangalore 2.

MILLS & MILL OWNERS



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MUSICAL INSTRUMENTS

Alison & Co.—Civil Area, Bangalore 1.
Aruna Musicals.—Balepet, Bangalore 2.
Calcutta Musical Stores.—Balepet, Bangalore 2.
Haneef & Co.—Chickpet, Bangalore 2.
Jahman's Musical Stores.—Chickpet, Bangalore 2.
K. B. Gurusiddiah & Bros.—Sunkalpet, Bangalore.
New Bombay Harmonium Stores.—Balepet, Bangalore 2.
Saraswati Vilas.—Nagarthpet, Bangalore 2.
Sharada Nilaya.—Sunkalpet, Bangalore 2.

OPTICIANS

G. S. Sindhe & Sons.—City Market, Bangalore 2.
Jalal Optical Stores.—Avenue Road Bangalore 2.
Keshavlal C. Udani.—Arcot Srinivasachar Street, Bangalore 2.
Lawrence & Mayo (India) Ltd.—Mahatma Gandhi Road, Bangalore 1.
Mysore Spectacle Co.—Sultanpet, Bangalore 2.
Optical Co.—City Market, Bangalore 2.
Optical & General Agencies.—Avenue Road, Bangalore 2
Parr Optical Works.—Central Street, Bangalore 1.
Ramson Optical House.—Cavalry Road, Bangalore 1.
Ravel Bros.—City Market, Bangalore 2.
Royan Optical Co.—Bangalore.
S. R. Gopala Rao.—D. Opt., Narasimharaja Road, Bangalore 2.
The Glass House.—Central Street, Bangalore 1.
V. M. Jagannath & Bros.—City Market, Bangalore 2.
W. H. Merch & Sons Co.—Brigade Road, Bangalore 1.

PAPER MERCHANTS

Ambi & Co.—Avenue Road, Bangalore 2.
Babulal Hiralal & Co.—Sultanpet, Bangalore 1.
D. M. Mariyappa & Sons.—Sultanpet, Bangalore 2.
Gopalan & Co.—Avenue Road, Bangalore 2.
Indian Paper Corporation.—Silver Jubilee Park Road, Bangalore 2.
J. B. Advani & Co. (Mysore) Ltd.—Post Box No. 48, Bangalore.
J. M. Abdul Rasheed & Co.—123, Commercial Street, Bangalore 1.
Lalwanis.—Silver Jubilee Park Road, Bangalore 2.
Lindner & Co.—Chickpet, Bangalore 2.
M. S. Salam Abdul Majid & Co.—Avenue Road, Bangalore 2.
Murthy Paper Mart.—Avenue Road, Bangalore 2.
Murugan Paper Mart.—Sultanpet, Bangalore 2.
Oosmania Paper Mart.—Avenue Road, Bangalore 2.
Paper Sales & Service.—Mamulpet, Bangalore 2.
T. M. Abdul Gaffoor & Sons.—Avenue Road, Bangalore 2.
Tulsi & Co.—Majestic Square, Bangalore 2.
Venkatesha Paper Mart.—K. Temple Street, Bangalore.

PERFUMERS

Ananda Perfumery Works.—Sultanpet, Bangalore 2.
Aromatik (India).—Seshadri Road, Bangalore 3.
Balakrishna Perfumery Works.—Mamoolpet, Bangalore 2.
Chandra Perfumery Works.—Balepet, Bangalore 2.
Chandru's Perfumery Works.—Akkipet, Bangalore 2.
Indian Real Perfumery Works.—Chickpet, Bangalore 2.
Jaya Perfumery Works.—Ganigaspet, Bangalore 2.
Lalitha Perfumery Works.—Mamoolpet, Bangalore 1.
Manyam & Co.—Seshadripuram, Bangalore 3.
Modern India Trading Co.—Akkipet, Bangalore 2.
Mysore Agarbathi Co.—1, Madar Sab Street, Bangalore.
Mysore Prabhat Perfumery Works.—Avenue Road, Bangalore 2.
Mysore Sultan Perfumery Works.—Mysore Road, Bangalore 2.
Rajalakshmi Perfumery Works.—Mamoolpet, Bangalore 2.
Raja Perfumery Works.—Chickpet, Bangalore 2.
Shobha Perfumery Works.—Benki Nawab Street, Bangalore 2.
Sudarshana Perfumery Works.—Chickpet, Bangalore 2.
Sunder Perfumery Works.—Sultanpet Cross, Bangalore 2.
S. V. Murugesan & Bros.—Old Kasai Road, Bangalore 2.
Vijayalakshmi Perfumery Works.—Sowrashtrapet, Bangalore 2.

PHOTOGRAPHERS AND PHOTOGRAPHIC MATERIALS

Bakasha Electric Photo Studio.—Cavalry Road, Bangalore 1.
Day & Night Studio.—Majestic Square, Bangalore 2.
E. G. K. & Sons.—3, Mahatma Gandhi Road, Bangalore 1.
E. G. Krishniah Setty & Sons.—Avenue Road, Bangalore 2.
Electrograph Studio.—7-B, Brigade Road, Bangalore 1.
Empire Photo Stores.—Avenue Road, Bangalore 2.
G. G. Wellings.—2-C, Mahatma Gandhi Road, Bangalore 1.
G. K. Vale & Co.—4, Mahatma Gandhi Road, Bangalore 1.
G. S. & Sons.—Avenue Road, Bangalore 2.
Jhamatmal Sons.—1, Commercial Street, Bangalore 1.
M. A. T. Acharya & Co.—Avenue Road, Bangalore 2.
M. P. P. Ambalam & Bros.—469, Avenue Road, Bangalore 2.
Mysore Photo Emporium.—99-A, Subedarchatram Road, Bangalore 2.
National Studios.—Kalasipalyam Main Road, Bangalore 2.
Photo Flash.—New Market, Bangalore 2.
Photo Speed Co. (India).—113-E., Brigade Road, Bangalore 1.
Raman's Photo Studio.—Balepet, Bangalore 2.
Sagar Photo & Cine Service.—New Market, Bangalore 2.
S. R. Dass Studio.—Cavalry Road, Bangalore 1.
Studio Ajanta.—Viveswarapuram, Bangalore.
Studio Rene.—Brigade Road, Bangalore 1.
Vandy Ke Electric Studio.—Avenue Road, Bangalore 2.
V. G. Chimalgi.—Opp. Majestic Talkies, Bangalore 2.
Verona.—Mahatma Gandhi Road, Bangalore 2.

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PRINTING PRESS MATERIAL

Abdul Rasheed & Co., T.M.—Civil Station, Bangalore 1.
Acharya & Co., M. A. T.—Avenue Road, Bangalore 2.
Bangalore Type Foundry.—Cottonpet, Bangalore 2.
Batliboi & Co.—Sri Narasimharaja Road, Bangalore 2.
Christian Literature Society Press.—Dickenson Road, Post Box 43, Bangalore 1.
City Type Foundry.—Chickpet, Bangalore 2.
East Asiatic Co. (India) Ltd.—Silver Jubilee Road, Bangalore 2.
Government Soap Factory.—Bangalore.
Home Industries.—Seshadripuram, Bangalore 3.
Mohamed Ghouse & Sons.—Cottonpet, Bangalore 2.
Mysore Type Foundry.—Gandhinagar, Bangalore 2.
National Type Foundry.—Manavarthapet, Bangalore 2.
Ranganatha Type Foundry.—Arcot Srinivasachar Street, Bangalore 2.

PRINTING PRESSES

Associated Printers (Madras) Ltd.—Mahatma Gandhi Road, Bangalore 1.
Avalon Press.—22, Chickbazar Road, Tasker Town, Bangalore.
Bharathi Printing Works.—3, Gollarpet, Bangalore 2.
Caxton Press.—Shankarpur, Bangalore.
Chitra Printery.—26, Sowrashtra Cross, Bangalore 2.
Christian Literature Society Press.—Dickinson Road, Bangalore.
'Daily Post' Press.—1, Madras Bank Road, Bangalore.
Deshabandu Press.—11, Sri Krishna Rajendra Road, Bangalore 2.
Eastern Press.—11-A, Sri Jayachamarajendra Road, Bangalore 2.
Educational Printing Press.—68, Mysore Road, Bangalore 2.
Elgin Power Press.—Civil Area, Bangalore 1.
Golden Printing Works.—Cottonpet, Bangalore 2.
Good Shepherd Convent Press.—20, Brigade Road, Bangalore 2.
Hosali Press.—38-A, Mahatma Gandhi Road, Bangalore 2.
Indian Press.—Balepet, Bangalore 2.
Jupiter Press.—Balepet, Bangalore 2.
Kalanidhi Press.—Chickpet, Bangalore 2.
Karnataka Press.—Chickpet, Bangalore 2.
Karnataka Publishing House.—Basavangudi, Bangalore 4.
Mir Power Printing Works.—Sri Narasimharaja Road, Bangalore 2.
Modi Power Printing Works.—Sri Narasimharaja Road, Bangalore 2.
Nalaris Printers.—Avenue Road, Bangalore 2.
National Press.—36, Dickinson Road, Bangalore.
Orient Power Press.—Lalbagh Road, Bangalore 2.
Phoenix Press.—87, Visveswarapuram, Bangalore.
Power Printing Works.—Chickpet, Bangalore 2.
Printers Ltd.—Mahatma Gandhi Road, Bangalore 1.
Rajagopal Photo-Zinco & Power Printing Works.—Kalasipalayam, Bangalore 2.
Reliance Press.—3, Commercial Street, Bangalore 1.
Science Press.—Seshadri Puram, Bangalore 3.
Stermack & Son.—Central Street, Bangalore 1.
Spinker & Co.—118, Brigade Road, Bangalore 1.
Viswananda Power Press.—78, Sri Narasimharaja Road, Bangalore 2.

PUMPS & PUMPING SETS MFRS. & DEALERS

ASSOCIATED ELECTRICAL INDUSTRIES (INDIA) PRIVATE LTD.—27, Sri Narasimharaja Road, Bangalore. (*See* Commercial Firms in Bangalore).

RADIO DEALERS, IMPORTERS, ETC.

American Radio Co.—Sri Narasimharaja Road, Bangalore 2.
Capital Agencies.—Brigade Road, Bangalore 1.
Chicago Telephone & Radio Co., Ltd.—Silver Jubilee Park Road, Bangalore 2.
Dickson Bros.—Sri Narasimharaja Road, Bangalore 2.
Eastern Radio Co.—Sri Narasimharaja Road, Bangalore 2.
Electronics.—Silver Jubilee Park Road, Bangalore 2.
General Radio & Appliances Ltd.—Silver Jubilee Park Road, Bangalore 2.
General Radio & Sound Service.—Silver Jubilee Park Road, Bangalore 2.
Hymanshu & Co.—Mahatma Gandhi Road, Bangalore 1.
India Prudential Mercantile.—Sri Narasimharaja Road, Bangalore 2.
India Radio Service.—Silver Jubilee Park Road, Bangalore 2.
Lalwani Radio Corpn.—Silver Jubilee Park Road, Bangalore 2.
Lokhraj Jassumal & Sons.—118-F, Brigade Road, Bangalore 1.
Melody House.—Mahatma Gandhi Road, Bangalore 1.
Modern Trading Co.—Silver Jubilee Park Road, Bangalore 2.
Narain Radio Co.—Silver Jubilee Park Road, Bangalore 2.
Philips House.—Silver Jubilee Park Road, Bangalore 2.
Pioneer Radio Co.—Sri Narasimharaja Road, Bangalore 2.
Prakash Radio Service.—Silver Jubilee Park Road, Bangalore 2.
Radio Electric Corporation.—Silver Jubilee Park Road, Bangalore 2.
Radio Engineering Co.—Brigade Road, Bangalore 1.
Radio House.—Brigade Road, Bangalore 1.
Radio Supplies.—Silver Jubilee Park Road, Bangalore 2.
Reliance Radio Service.—Silver Jubilee Park Road, Bangalore 2.
Shivram's Radio House.—84, Silver Jubilee Park Road, Bangalore 2.
Standard Radio Clinic.—Sri Narasimharaja Road, Bangalore 2.
Vasudev's Radios.—Silver Jubilee Park Road, Bangalore 2.
WACO.—Mahatma Gandhi Road, Bangalore 1.
Watcha's Radio Gram Store.—Brigade Road, Bangalore 1.

RAILWAY SIGNALLING EQUIPMENT

ASSOCIATED ELECTRICAL INDUSTRIES (INDIA) PRIVATE LTD.—27, Sri Narasimharaja Road, Bangalore. (*See* Commercial Firms in Bangalore).

REFRIGERATORS (DOMESTIC)

ASSOCIATED ELECTRICAL INDUSTRIES (INDIA) PRIVATE LTD.—27, Sri Narasimharaja Road, Bangalore. (*See* Commercial Firms in Bangalore).

SOAP MANUFACTURERS

Bangalore Soap Factory.—154, Ebrahim Sahib Street, Bangalore 1.
Desi Soap Works.—Sampige Tank Road, Bangalore 2.
Government Soap Factory.—K. R. Circle, Bangalore.
Radio Soap Institute.—Lalbagh Road, Bangalore 2.
Rudra Industries.—Avenue Road, Bangalore 2.
Srinivasa Soap Factory.—64, Old Tharagupet, Bangalore 2.
Yeswanth Soap & Chemicals, Ltd.—Yeswanthpur, Bangalore.

SPORTS GOODS

Acharya & Co., M. A. T.—Avenue Road, Bangalore 2.
Cuckerja.—182, Commercial Street, Bangalore 1.
H. N. Rao Brothers.—Chickpet, Bangalore 2.
Indian Sports Depot.—Avenue Road, Bangalore 2.
Julka Sports Club.—Subedar Chatram Road, Bangalore.
Popular Stores.—Sapaige Road, Malleswaram, Bangalore 3.
Rakhra Sports Co.—180, Commercial Street, Bangalore 1.
States Sports Club.—Subedar Chatram Road, Bangalore.

STARTERS & SWITCHGEAR

ASSOCIATED ELECTRICAL INDUSTRIES (INDIA) PRIVATE LTD.—27, Sri Narasimharaja Road, Bangalore. (*See* Commercial Firms in Bangalore).

STATIONERS

Ahmedia Stationery Mart.—190, Avenue Road, Bangalore 2.
Albion Stores.—111, Brigade Road, Bangalore 1.
Alwaysnew.—181, Commercial Street, Bangalore 1.
Ambika Stationery Mart.—Cavalry Road, Bangalore 1.
Anur Bros.—77-78, Balepet, Bangalore 2.
Bangalore Industrial Agencies.—Malleswaram, Bangalore 3.
Benn & Co.—Brigade Road, Bangalore 1.
Chandra Stores.—350, Avenue Road, Bangalore 2.
Chogalal Jethmal & Co.—143, Mamulpet, Bangalore 2.
Ganesh & Co.—222, Avenue Road, Bangalore 2.
Gopalan & Company.—Krishna Building, Avenue Road, Bangalore 2.
Keshavdas & Co.—190, Avenue Road, Bangalore 2.
Kowsik Emporium.—377, Avenue Road, Bangalore 2.
Krishna Stores.—80, Commercial Street, Bangalore 1.
Kumar & Co.—Avenue Road, Bangalore 2.
Liberty Stores.—7-B, Brigade Road, Bangalore 1.
Mahaveer Trading Co.—329, Avenue Road, Bangalore 2.
Neweys.—10-A, Commercial Street, Bangalore 1.
Parade Stores.—Mahatma Gandhi Road, Bangalore 1.
Plaza Stores.—185, Commercial Street, Bangalore 1.
Popular Stores.—Malleswaram, Bangalore 3.
Prospect House.—6, Brigade Road, Bangalore 1.
Ramesh & Co.—382, Avenue Road, Bangalore 2.
Seaha & Co.—49, Balepet, Bangalore 2.
T. M. Abdul Rasheed & Sons.—123, Commercial Street, Bangalore 1.
Westend Stores.—Brigade Road, Bangalore 1.

TIMBER MERCHANTS

Bangalore City Saw Mills & Timber Yard.—Cottonpet, Bangalore.
Bangalore Saw Mills & Wood Works.—Kumbaragundi Road, Bangalore.
Bhavani Saw Mills.—Cottonpet, Bangalore.
Century Wood Industries Ltd.—Tumkur Road, Bangalore.
Coorg Industries & Saw Mills.—Cottonpet, Bangalore.
D. Subba Rao.—Cottonpet, Bangalore.
G. N. Subbaiah.—1, Ranasinghpet, Bangalore.
Jaffer Khan & Bros.—New Bamboo Bazar, Bangalore.
Jubilee Saw Mills & Wood Works.—180, Mysore Road, Bangalore 2.
L. Narasinga Rao Mane & Sons.—Mill Road, Cottonpet, Bangalore.
Mane Hanumantha Rao & Sons.—Cottonpet, Bangalore.
Mysore Plywood Corporation Ltd.—Yeshwanthpur, Bangalore 2.
V. Venkatasubbaiah & Sons.—Mysore Road, Bangalore 2.

TOBACCONISTS

Bangalore Tobacco Mart.—Avenue Road, Bangalore 2.
B. Narayana Setty.—166, Mysore Road, Bangalore 2.
C. M. Ali & Bros.—Kalasipalayam Main Road, Bangalore.
D. K. Hussain & Sons.—Gundopath Street, Bangalore 2.
M. K. Ahmed & Sons.—Mysore Road, Bangalore 2.
Sastri's General Stores.—Hospital Road, Bangalore.

TOYS

Mysore Arts & Crafts Depot.—Mahatma Gandhi Road, Bangalore 1.
S. R. Bros.—Avenue Road, Bangalore 2.
Toyland.—Commercial Street, Bangalore 1.

TRACTORS

Diesel (India).—Kalasipalayam, Bangalore 2.
East Asiatic Co. (India) Ltd.—Silver Jubilee Park Road, Bangalore 2.
Jayems Engineering Co., Ltd.—Silver Jubilee Park Road, Bangalore 2.
Modern Electric House.—263-A, Cavalry Road, Bangalore 1.
Pashabhai Patel & Co., Ltd.—Mahatma Gandhi Road, Bangalore 1.
Standard Machinery Co., Ltd.—Silver Jubilee Park Road, Bangalore 2.
Voltas Ltd.—Sri Jayachamrajendra Road, Bangalore 2.
Webb's Farm Mechanization Ltd.—Mahatma Gandhi Road, Bangalore 1.

TRANSFORMERS

ASSOCIATED ELECTRICAL INDUSTRIES (INDIA) PRIVATE LTD.—27, Sri Narasimharaja Road, Bangalore. (*See* Commercial Firms in Bangalore).

TRAVELLING AGENTS

Bharat Travel Service Ltd.—Gandhinagar, Bangalore 2.
Ram Mohan & Co., Ltd.—Kempegowda Road, Bangalore 2.
Thomas Cook & Son, Continental & Overseas Ltd.—Mahatma Gandhi Road, Bangalore 1.
Trading Company.—Opp. Kalasipalayam Bus Stand, Bangalore 4.

TYPEWRITERS

Addison & Co., Ltd.—St. Mark's Road, Bangalore 1.
Bharat Typewriter Works.—Central Street, Bangalore 1.
International Typewriter Sales & Service Corporation.—Sri Narasimharaja Road, Bangalore 2.
Remington Rand (Inc.), Ltd.—St. Mark's Road, Bangalore 1.
Underwood Typewriters.—Sri Narasimharaja Road, Bangalore 2.

UMBRELLA MANUFACTURERS

Bangalore Umbrella Manufacturing Co.—Chickpet, Bangalore 2.
Kanayalal & Bros.—Chickpet, Bangalore 2.
Popular Umbrella Manufacturing Co.—Mamulpet, Bangalore 2.

WATCHES AND CLOCKS

A. R. Khaleel & Sons.—743, Chickpet, Bangalore 2.
Asonia Watch Works.—Mahatma Gandhi Road, Bangalore 1.
Empire Watch Co.—Balepet, Bangalore 2.
H. Dasappa.—Chickpet, Bangalore 2.
Jhamani's Watches & Clocks.—Chickpet, Bangalore 2.
Metro Watch Co.—2, Brigade Road Bangalore 1.
M. H. Sharriff & Sons.—54-55, Commercial Street, Bangalore 1
Minoo Bros.—Cavalry Road, Bangalore 1.
Pearl Watch Co.—10, Brigade Road, Bangalore 1.
Popular Watch Co.—Chickpet, Bangalore 2.
Regal Watch Co.—13-B, Brigade Road, Bangalore 1.
Reliable Watch Co.—Cavalry Road, Bangalore 1.
Rotary Watch Co.—China Bazar, Bangalore.
R. Subbaiah & Sons.—Chickpet, Bangalore 2.
Salesmen Watch Co.—Central Street, Bangalore 1.
Sharif & Bros.—Chooloi, Bangalore.
Swiswatch Co.—Brigade Road, Bangalore 1.
Tarapores.—112-4, Brigade Road, Bangalore 1.
The Watch Shop.—51, Richard's Square, Bangalore 1.
Time Shop, The - 10, Commercial Street, Bangalore 1.
Vadul Watch Co.—Balepet, Bangalore 2.

WELDERS (ELECTRIC & GAS)

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WELDING SETS

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BELGAUM DISTRICT

TRADES & PROFESSIONS

Ajit Laboratories Ltd., Belgaum.
Alembic Distributors Ltd., Belgaum.
Anandji Haridas & Co., Ltd., Railway Goods Shed Road, Belgaum.
Associated Mechanical Industries, 1745, Kirloskar Road, Belgaum.
Belgaum Guest House, 501, Math Galli, Belgaum.
Belgaum Motors, Camp, Belgaum.
Brooke Bond (India) Ltd., Bungalow No. 11, Fort, Belgaum.
Chikodi & Co., M. K., Market, Belgaum.
Devendra Chintamanrao Kolhapure & Sons, Ganpat Galli, Belgaum.
Doddanavar Brothers, Saw-Mill, Dharwar Road, Belgaum.
Engineering Equipment Company, Khanapur Road, Camp, Belgaum.
Gunbori's, Ramdev Galli, Belgaum.
G. G. Welling, 96, Church Street, Camp, Belgaum.
G. V. Herwadkar, Ganpat Galli, Belgaum.
H. B. Porwal & Sons Ltd., Library Building, Belgaum.
Lucky Restaurant, Fort Road, Belgaum.
Maharatta Tyre Co., 2974, Khade Bazar, Belgaum.
M. K. Swamy & Sons, No. 6, Church Street, Camp, Belgaum.
National Ice & Cold Storage, Goods Shed Road, Belgaum.
Ramnath Stores, Shri Krishna Nivas, Market, Belgaum.
Remington Rand Inc., College Road, Belgaum.
Republic Machinery Corporation, Kadolkar Lane, Belgaum.
S. G. Phadke & Sons, 3106, Khade Bazar, Belgaum.
Shevade's Camera Works Ltd., The, Thalakwadi, Belgaum.
Social Service Provident Insurance Company Limited, The, 1524-1, Maruti Galli, Belgaum.


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Vasudeo & Sons, Agents : "The Times of India", 92, Church Street, Camp, Belgaum.
Vijay Engineering & Machinery Co., Ramdeo Galli, Belgaum.

BIJAPUR DISTRICT

TRADES & PROFESSIONS

Acharya, V. H., & Co., Cloth Merchants, Bijapur.
Akki, B. D., Bijapur.
Allied Agencies, Azad Road, Bijapur.
Amte, S. N., Cap Mart, New Bazar, Bijapur.
Bagalkot Printing Works, Bagalkot, Dist. Bijapur.
Ballappa Golappa Golappanavar, Bagalkot.
B. C. Rudraksh, Gandhi Road, Bagalkot.
Basawanti, D. S., Bijapur.
Baxi General Stores, New Bazar, Bijapur.
B. D. Hooli, Rajahunsa Tailers, New Bazar, Bijapur.
Bhavi, V. P., Cloth Merchant, Bijapur.
Bhimappa Sangappa Handral, Bagalkot.
Bijapur Cloth Trading Co., Bijapur.
Bijapur Motor Transport Co., Ltd., Bijapur.
Bijapur Motor Union Ltd., Gandhi Road, Bijapur.
Bijapur Stores, Stationers and Newspaper Agents, Bijapur.
Chankeshara Himmatlal Surchand, Bijapur (S. Rly.).
Channappa Parashuram Yadke, Bagalkot.
Corporation Bank Ltd., Bijapur.
Dalichand M. Shaha, Opp. Municipal Hall, Bijapur.
Delheckar, R. L., Moulana Azad Road, Bijapur.
Deshpande's Indian Rhym Classical Dancing School, Bijapur.
Devagirkar, N. V. Cap Mart, Vegetable Market, Bijapur
Dongerchand Hirachand Bros., Bijapur.
Grand Hotel, Bijapur.
Haji Husensaheb Jahansaheb Maniyar, Bijapur
Harsukh Balkisan, Bijapur.
Heralji, S. S., Bijapur
Hitachintaka Printing Press, Bijapur
Jamatraj Punamchand Oswal, New Bazar, Bijapur.
Jamboti, D. D., Bijapur.
Jamkhandi Agricultural and Allied Industries Ltd., Jamkhandi.
Jog, N. B., Gandhi Road, Bijapur.
Joshi Bandhu, Bijapur.
Kale K. D., Bijapur.
Karandikar Bros., Bijapur.
Karnatak Engineering Co., Station Main Road, Bijapur.
Katti, M. R., Bijapur.
Khambhavi Bros., Bijapur.
Laxmi Stores, Gandhi Road, Bagalkot.
L. N. Torvi, Chemists, Druggists and Newspaper Agents, Mahatma Gandhi Road, Bijapur.
Mahalaxmi Co., Ltd., Bijapur.
Mahantappa Channallappa Sidgundi, Bagalkot.
Majid Auto-Motor Repairing Works, Main Road, Bijapur
Mallappa Karbasappa Surpur, Bijapur.
Mallikarjunappa Talikoti, Bagalkot.
Modern Medical Stores, Tilak Road, Godbole Mala, Bijapur (S. Rly.).
Modern Restaurant Boarding and Lodging, near Tripuri Sundari Talkies, Bijapur.
Mogali, N. I., Siddheshwar Road, Bijapur.
New Bharat Engineering Co., Bijapur.
New Siddheshwar Printing and Litho Works, Azad Road, Bijapur.
Nutan Ayurveda Karyalaya Private Ltd., Bijapur.
Porwal, J. C., New Bazar, Bijapur.
P. S. Apte, General Merchant and Commission Agent, New Bazar, Bijapur.
Radha Printing Works, Godbole Mala, Bijapur.
Rahimatbeg Ismail Beg Jamkhandi, Bagalkot.
Ramjee Davjee & Co., Bijapur.
Ramkrishna Medical Stores, Koujalgi Building, New Bazar, Bijapur.
Ranade, V. V., Cloth Merchant, Bijapur.
R. S. NAVADGI, Bijapur. Grocers and Principal Wholesale Dealers for Kanan Devan Tea for Bijapur, Belgaum, Sholapur Districts and Savantwadi and Goa Territories. Depots: Bijapur, Sholapur, Belgaum, Bagalkot and 18, Popatwadi, Kalbadevi Road, Bombay.
Sangappa Basawantappa Shirolkar, New Market, Bijapur.
Sanglikar, I. M., Bijapur.
Sha, Bhagchand Tarachand, Bagalkot.
Shah, Ganpatchand Padamchand, Bijapur.
Shah Pusalal Chhotmal, Bijapur.
Shah Shivraj Jeetmal, Bijapur (S. Rly.).
Shashikala Stores, Bijapur.
Shree Ganesh Pictures, Film Distributors, Bijapur.
Shree Laxmi Narasimha Ghee Stores, Chandabavdi Road, Bijapur.
Shree Ram Agency, Bijapur (S. Rly.).
Shree Shakti Talkies, Station Road, Bagalkot.
Shrikant Soda Water Factory, New Market, Gandhi Chowk, Bijapur.
Shri Mallikarjun Cap Mart, Bijapur.
Soma, S. B., Shree Siddheshwar Road, Bijapur.
Subhash Cloth Stores, Gandhi Chowk, New Market, Bijapur.
Sugandhi, V. Y., New Bazar, Bijapur.
Sugarcane Products and Industries Ltd., Bijapur.
Sukhlal Lachharam Rajabanshi, Bijapur
Suryawanshi Engineering Works, Main Road, Bijapur.
Sutar, A. M., Bijapur.
Swadeshi Mill Cloth Stores, New Market, Bijapur.
Swadeshi Stores, Bagalkot.
Tadvalkar, R. B., Bijapur.
Totappa Sanganbasappa Devangavi, Bagalkot.
Uttamchand Kedarmal Oswal, Bijapur.
Venkanna Naik Savnur, Bagalkot.
Venkatesh Ramrao Kulkarni, Bijapur.
Veerappa Shrishelayya Vastrad, Bagalkot.
Vijay Engineering and Machinery Co., 372, Sidheshwar Road, Adat Bazar, Bijapur.

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Gokuldas Vithaldas Warkar, Gunny Merchant and Commission Agent, Gadag, Southern Rly.

Hosmani & Co., Hubli. Tel. Address : "UNITY". Telephone No. 62. Prop. of Shri Gajanan Dal & Flour Mills.

LAXMAN BABANI PAI MEMORIAL PUBLICATIONS, Ghodke Building, Jaichamraj Nagar, Hubli, Dist. Dharwar (India), Rigveda, Yajurveda, Samaveda, Atharvaveda and Mahabharata ; Sanskrit Text and English translation. Complete in 80 (eighty) Volumes. Price Rs. 500 (five hundred Rupees).

MADIMAN, G. N., & SONS, Cotton Commission Agents, Merchants and Bankers. Agents : Standard-Vacuum Oil Company, Proprietors : Shri Laxmi Ginning and Manufacturing Co. P. O. Box No. 2, Hubli, Dharwar Dist. (Mysore State). Tel. Address : "MADIMAN". Telephone Nos. 15 & 150.

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State Bank of India, Hubli.

MYSORE

TRADES & PROFESSIONS

Bahusar Trading Co., Bank Road, Mysore.

Bhagavan Chetty & Co., Asoka Road, Mysore.

Chandrasekharappa & Sons, Santhepet, Mysore.

Coomaraswamy Pillay & Co., M., 85, Lansdowne Buildings, Mysore.

Coorg and Mysore Coffee Co. (1937), Ltd., Chamundi Curing Works, P.O. Vani Vilas Mohalla, Mysore.

Coorg Industries and Saw Mills, Mysore South.

Hajee Tayub Abdul Karim & Co., santhepet, Mysore.

Hindustan Coffee Works, Jagan Mohan Palace Road, Mysore.

K. Kempiah, Shree Krupa, 375, Benki Nawab Street, Behind C. T. Institute, Mysore.

Kuntalaranjani Works, 1362, Krishnamurtipur, Mysore.

Kupendrarao Jadhar, Asoka Road, Mysore.

Mallanna & Sons, P., Santhepet, Mysore.

Model Engineering Co., Vani Vilas Road, Mysore.

Modern Motor Service Ltd., 303, Dewan's Road, Mysore.

Murugesh, K., D. Mysore Bank Building upstairs, Sayaji Rao Road, Mysore.

Mysore Silk Filatures Ltd., Mysore.

Mysore Lac and Paint Works, Ltd., Eidga Extension, Mysore

Mysore Movietone Ltd., " Chirranjan Mahal, " Yuwal Road, Mysore

Mysore Rice Mills Ltd., Saraswatipuram, Mysore.

Mysore Patrike, Lansdowne Buildings, Mysore.

Mysore Supplies, Penholder Manufacturers, Mysore.

Nanjappa & Sons, S., Kalamma Temple Street, Mysore

Newspaper House, Jayanagar, Mysore.

Raghulal & Co., Sayaji Rao Road, Mysore.

Ramanna & Brother, K., Santhepet, Mysore.

R. Hanumanthappa & Son, Mysore.

Sharada Cycle and Watch Stores, Lansdowne Buildings, Mysore

Siddappa & Brothers, M. S., N. Madhava Rao Circle, Mysore

Sri Ramachandra Bhavan, Restaurant, Jaganmohan Place Road, Mysore.

Sri Venkateswara Book Depot, Lansdowne Buildings, Mysore.

Varadacharlu, A. V., & Son, Curzon Park Road, Mysore.

Wesley Press & Publishing House, Post Box 37, Mysore

ORISSA

Capital : Bhubaneshwar.

Area : 60,136 sq. miles.

Total Population : 14,645,946 (Males 7,242,892 and Females 7,403,054).

Average density of population : 244 per square mile.

The birth rate : 26·8 in 1950.

The death rate : 20·5 in 1950.

Administrative Divisions : The whole of the State is divided into 17 Districts. But some of the districts are tagged together for administrative convenience. Thus there are only 13 Administrative Districts. The following are the administrative districts with names of district headquarters :

Cuttack and Narsinghpur (Cuttack); Puri and Nayagarh (Puri); Dhenkanal and Angul (Dhenkanal); Baudh and Khondmals (Phulbani); Balasore (Balasore); Sambalpur (Sambalpur); Ganjam (Chatrapur); Koraput (Koraput); Mayurbhanj (Baripada); Sundergarh (Sundergarh); Bolangir (Bolangir-patna); Kalahandi (Bhawanipatna); Keonjhar (Keonjhargarh).

The District Magistrates of Cuttack, Puri, Dhenkanal and Baudh are the Ex-Officio District Magistrates of the Districts tagged therewith namely Narsinghpur, Nayagarh, Angul and Khondmals.

POPULATION

Area in Square miles and Population of Administrative Districts. The first figure indicates the area and the second the population :

Cuttack 4,210 ; 2,539,244 ; Balasore 2,507 ; 1,106,012 ; Puri 4,043 ; 1,572,262 ; Sambalpur 6,765 ; 1,301,804 ; Ganjam 4,725 ; 1,624,829 ; Koraput 9,875 ; 1,269,534 ; Phulbani 4,282 ; 146,895 ; Mayurbhanj 4,021 ; 1,028,825 ; Dhenkanal 4,226 ; 839,241 ; Keonjhar 3,216 ; 588,441 ; Sundergarh 3,788 ; 552,203 ; Bolangir 3,412 ; 917,875 ; Kalahandi 5,057 ; 858,781.

Names of talukas in administrative districts with area in square miles and population respectively in each taluka within brackets :

Cuttack District : Sadar (1,562 ; 11,75,759) ; Jajpur (1,115 ; 6,22,530) ; Kendrapara (977 ; 5,26,472) ; Athgarh (556 ; 2,04,483) ; Balasore District : Sadar (1,168 ; 5,80,012) ; Bhadrak (1,076 ; 4,47,270) ; Nilgiri (263 ; 78,730) ; Puri District : Sadar (1,521 ; 7,26,482) ; Khurda (971 ; 4,44,671) ; Nayagarh (1,551 ; 4,01,109) ; Sambalpur District : Sadar (1,692 ; 4,48,821) ; Jarsuguda (2,252 ; 6,12,037) ; Deogarh (1,044 ; 90,875) ; Kuchinda (944 ; 1,01,447) ; Rairakhol (833 ; 42,624) ; Ganjam District : *Agency :* Gumsur (1,410 ; 1,59,296) ; Berhampur (1,308 ; 1,55,990) ; Ghumsur (102, 3,306) ; *Plains :* Chatrpur (827 ; 4,71,528) ; Berhampur (899 ; 4,76,440) ; Ghumsur (1,589 ; 5,17,565) ; Koraput District : Koraput Sadar (2,100 ; 2,95,009) ; Nowarangpur (5,572 ; 6,86,390) ; Rayaghada (2,201 ; 2,88,135) ; Dhenkanal District : Sadar (1,078 ; 1,86,711) ; Khamakhyanagar (865 ; 1,56,663) ; Talcher (388 ; 92,770) ; Pal-Lahara (1,001 ; 40,799) ; Athmalik (711 ; 84,040) ; Hindol (642 ; 67,926) ; Angul (902 ; 1,90,432) ; Keonjhar District : Sadar (2,065 ; 2,88,367) ; Champua (912 ; 1,36,355) ; Anandapur (539 ; 1,63,719) ; Phulbani District : Khondmals (779 ; 85,543) ; Baudh (1,330 ; 1,67,713) ; Baliguda (2,173 ; 93,639) ; Bolangir District : Bolangir (868 ; 2,51,724) ; Titlagarh (985 ; 2,57,323) ; Patangarh (1,057 ; 1,57,415) ; Sonepur (882 ; 2,41,413) ; Sundergarh District : Sundergarh (1,781 ; 3,15,261) ; Panposh (711 ; 1,61,451) ; Bonai (1,296 ; 1,05,491) ; Kalahandi District : Sadar (1,968 ; 2,24,027) ; Dharamgarh (2,177 ; 4,14,904) ; Nawapara (1,312 ; 2,19,850) ; Mayurbhanj District : Sadar (2,105 ; 4,40,019) ; Bamanghaty (1,... ; 2,60,220) ; Panchpir (761 ; 1,88,444) ; Kaptipada (416 ; 1,65,142).

Number of Tahsils : 58 Revenue Sub-Divisions consisting of a number of Tahsils and Thanas.

Number of Union Boards : 2.

Number of District Boards : 6.

Number of Municipalities : 19.

Number of Notified Areas Councils : 12.

Number of Gram Panchayats : 2,348.

Number of villages : 50,084.

Strength of the State Legislative Assembly : 140.

Number of members returned from the State to the Lok Sabha : 20.

Number of members returned from the State to the Rajya Sabha : 10.

LARGE-SCALE INDUSTRY

Main large scale industries of State with important locations in brackets :

Textiles (Chowdwar-Cuttack); Cement (Rajgangpur); Refrigerators (Chowdwar-Cuttack); Paper (Brajrajnagar-Sambalpur); Glass (Barang-Cuttack and Bahalda, P.O. Mayurbhanj); Sugar (Aska Ganjam, Rayaghada, Koraput); Iron and Steel (Nayabazar-Cuttack and Parlakhemidi-Ganjam); Vegetable Products (Bhatrapur-Ganjam); Soap Works (Khariar Road, Kalahandi); Potteries (Baripada); Salt and Chemical Industries (Orissa Bazar-Cuttack); Spinning Mills (Cuttack and Mayurbhanj); Tube Mill (Chowdar); Refractions and Pipes (Barang); Mayurbhanj Glass Works (Bahalda Road, Mayurbhanj); Orissa Weaving Mills (Sambalpur); Orissa Cotton Mills (Bhagatpur, Cuttack), Mayurbhanj Textile (Baripada, Mayurbhanj), Orient Weaving Mills (Nayabazar, Cuttack), Berhampur Industries (Berhampur, Ganjam); Mayurbhanj Oil and Oil Products (Baripada, Mayurbhanj); Cotton textiles (Rajgangpur); Paper (Chowdwar); Refractory (Rourkela, Sambalpur, Belpahar); Ferro-manganese (Rayagada, Joda); Chlorine and Caustic Soda (Brajarajnagar); Low Shaft Furnace (Barbil), Tip Wagons (Rajgangpur); Structural Transmission Towers (Nayabazar, Cuttack), Sewing Machine Factory (Bhubaneswar).

CHIEF INDUSTRIAL UNITS

The Orissa Textile Mills ; The Orissa Cement Factory ; The Kalinga Refrigerators Corp. Ltd. ; The Orient Paper Mills ; Durga Glass Factory ; Aska Sugar Factory ; Mayurbhanj Spinning and Weaving Mills ; National Foundry and Rolling Mills ; Orissa Industries Ltd. ; Bharat Vegetable Products Ltd. ; Steel Co-operation of Orissa, Parlakhemidi, Dt. Koraput ; Hair Soap Works ; Mayurbhanj Potteries ; Bharat Salt and Chemical Industries ; Dawn and Co. (Biscuit factory), Darghabazar, Cuttack.

The construction of the 170-crore steel plant at Rourkela started in 1955. It will have a productive capacity of one million tons a year.

Production of individual industries (1952)* : Wheat flour 2,531 maunds ; Rice Milling 23,28,712 maunds ; Sugar 2,269 tons ; Distillery 143,088 L.P.G. ; Oil Crushing 51,137 maunds ; Soap 3,709 maunds ; Tanning 83,339 lb. ; Cement 114,721 tons ; Glass and glassware 3,541 tons ; Ceramics 56 tons ; Paper 27,691 tons ; Weaving and dyeing 22,355 bales ; Iron and Steel 1,085 tons ; Bricks, Tiles and Lime 814,672 maunds ; Saw Milling 31,876 C.F.T. ; Wood ware 69 grosses ; Printing 94,66,289 impression ; Narrow fabrics 33 tons ; Hosiery 33,225 dozens ; Dyeing and Bleaching 117,951 lb. ; Electricity 25,17,196 K.W.H.

Number of registered factories in individual industries :

Wheat and flour Mills 1 ; Rice Mills 88 ; Sugar factories 1 ; Distillery 5 ; Oil Crushing 5 ; Soap 1 ; Tanning 2 ; Cement 1 ; Glass 1 ; Ceramics 1 ; Paper 1 ; Cotton Textiles 5 ; Iron and Steel 4 ; General Engineering 37 ; Lac 3 ; Saw Milling 40 ; Tobacco 74 ; Printing 18 ; Hosiery 3 ; Dyeing and Bleaching 3 ; Electricity 5 ; Automobiles 6 ; Railway Workshop 2 ; Arms and Ammunition 1 ; Unspecified Industries 18.

Number of registered factories (upto June 1953) : 428.

Number of daily workers : 18,088.

COTTAGE INDUSTRIES

Main cottage industries in State :

Handloom, Hides and Skins, Salt manufactures, Horn works, Bell metal, Potteries, Filigree, Blacksmithy, Carpentry, Tailoring, Cane Works, Soap making, Trunk manufacturing and Paddy husking, Eri rearing, Rope-making, Toys, Bamboo works, Mats, Weaving, Spinning, Flaying of hides and horns.

Location : Throughout the State except salt manufacturing which has been established in the coastal areas and filigree which is confined to Cuttack. Horn works are established at Cuttack and Parlakhemidi.

There are 12 Industrial schools giving training in carpentry, smithy, weaving, cane-works, shoe-making and tailoring and 10 crafts schools giving training in handicrafts.

MINERALS, METALS

Mineral deposits : The potentialities of mines in Orissa have not been exploited fully. Iron and manganese ores and limestone and coal are worked out in large quantities. Other minerals like chromite, graphite, fire-clay, china-clay; soapstone, asbestos, white clay and kyanite are worked in limited quantities.

Location : Iron ore—in Badamphar, Gommahisani, Salapat, Gargari, Hatisiklly, Kasiabera in Mayurbhanj Ekdalpahar, Moharipur, Badapahar in Mayurbhanj, Thakurani, Kalamit, Saryabali, Kurgaber, Kerakhendra, Bhadrasahi Belkundi Jilingi-Lanyatola, Kaisa, Jolapuri, Guali, Rowada Uhburu Guali in Keonjhar, Tomaka, Bichakatia, Sukinda in Cuttack, Bandhubahal in Sundergarh District.

Chrome Ore—Kamarda, Saruabil, Gurganj in Cuttack

Manganese ore : in Thakurani, Bilkundi, Bamebari, Kalaparbat, Sayabali, Murgabera, Tiringpahar, Silijora, Kalimati, Chormalda, Daljahar, Haarmatu, Uhburu and others.

Coal : Daulbera, Talcher and Dera in Dhenkanal District and Himgir-Rampur in the district of Sambalpur.

Graphite : Majjivalam, Karigada in Koraput, Sargipali in Sambalpur Phaperi, Syadghat, Chikmbahal, Charbhata, Jubamal, Luhakhar etc. in Bolangir

Lime-stone, Hatibari Lanjibheme, Jagada and Biramitrapur in Sundergarh District.

Dolomite : Panpose, Bimitrapur and Jogada in Sundergarh District.

Chinaclay : Jhulan—Ruanshi, Chanchbam Jamkesar, Kurma, Drumuria, and Joshipur in Mayurbhanj.

Soap stone : Joshipur and Kendumundi in Mayurbhanj District.

Kyanite : Pasimji and Puruapari in Mayurbhanj.

White-Clay (Dudhiakhari) : Jagannath-Prasad in Puri District.

Asbestos : Joshipur in Mayurbhanj.

Fire clay : Belpahar and Darlipali in Sambalpur.

Quantity and value of each mineral extracted in 1956 : Chromite (49,735 tons : Rs. 36,52,045) ; Manganese (3,72 415 tons ; Rs. 4,52,58,286) ; Iron ore (17,97,010 tons ; Rs. 3,09,97,683) ; Limestone (10,35,385 tons : Rs. 31,06,155) ; Graphite (635 tons ; Rs. 1,68,005) ; Coal (5,86,310 tons ; Rs. 92,36,354) ; China clay (9,610 tons ; Rs. 3,54,399) ; Kyanite (223 tons ; Rs. 44,934) ; Soap stone (18 tons ; Rs. 648) ; Fire clay (10,097 tons ; Rs. 1,00,970) ; Dolomite (94,836 tons ; Rs. 8,53,524).

* Later figures not available.

Total number of men employed in mines: Average number of workers employed daily in the mines: 50,425.

Average number of workers employed daily in each mineral industry: Iron ore (14,775); Coal (6,920); Manganese (17,112); Others (11,618).

The State Government have plans for systematic prospecting and survey of the State locating further deposits.

PORTS

Chandbali and Gopalpur are the two ports in the State. It is proposed to spend Rs. 2·30 lakhs for the development of Chandbali Port during the Second Five Year Plan period. A sum of Rs. 75,371 was spent upto 31st March 1957. Steps were being taken to start hydrographic survey of Dhamra and Baitarani rivers during 1957-58.

Exports of food grains and other cargoes from Chandbali during 1956-57: 2,981 tons; Imports of cargo during the same period: 134 tons

Gopalpur: There has been no sea-borne trade since 1942.

Paradip. The State Government in consultation with the Government of India is going to develop an all-weather major port at Paradip. Paradip was expected to start functioning as a minor port during 1957-58 and efforts were being made to export about one lakh tons of iron ore during 1957-58. From 1958-59 it is hoped to export 3 lakh tons of iron ore per annum, which will bring in about Rs. 1·5 crores in foreign exchange. The prospects of trade are immense with the construction of railways from Rourkela to Talcher, Sukinda Mines to Jenapur, Cuttack to Paradip.

The total cost of the proposed major port at Paradip would be about Rs. 5·6 crores as estimated by the Japanese Mission in 1956.

AGRICULTURE

Total area of State in acres (1951): 33,481,229.

Total area cultivated: 14,958,000 acres.

Total area of cultivable land: 24,484,663 acres.

Total area cultivated twice: 962,744 acres.

The latest available position is as follows. The first figure in brackets shows the area in acres, and the second the yield in tons:

Rice (9,403,100; 2,123,985); Jowar (173,000; 3,924); Maize (61,400; 9,548); Ragi (304,300; 63,052); Wheat (11,500; 2,761); Barley (700; 138); Gram (60,900; 7,808); Sugarcane (959,300; 101,003); Tobacco (11,400; 2,710); Sesamum (252,600; 19,964); Groundnut (61,300; 17,184); Mustard (126,600; 20,537); Linseed (26,000; 2,519); Castor (52,700; 4,134).

Cotton (24,900; 2,148 bales); Jute (111,250; 244,750 bales); Millet (69,600; 10,954 bales).

Total production of crops: 2,487,915 tons.

Total area under Food crops: 11,184,000 acres.

Area possibly available for further cultivation through reclamation measures: 6,200,000 acres.

Livestock: Total number of Cattle: 7,888,518; Buffaloes: 893,464; Horses 6,439; Sheep: 681,365; Goats: 1,446,705; Mules: 508; Donkeys: 768; Camels: 503; Pigs: 108,573; Fowls 3,877,981; Ducks: 61,447.

No. of veterinary experimental stations: 1 (Provincial Veterinary Laboratory).

No. of veterinary hospitals and dispensaries: 135.

No. of veterinary technical staff: 1,002.

Variety of fish produced:

Fresh Water: Catla Catla, Rohu, Cirrhine, Mrigal, Labeo Calbasu, Cat fish and other carps.

Marine: Pomfret, Mackerel, Sardine and white Bait.

Estuarine: Bhekti, Kabala, Hilsa, Boraga, Sahal Khurauti, Khaatia, Ghungari, Surga, Patna, Singeh and Misc.

The provisions of the Orissa Estates Abolition and of the Amendment Acts are being implemented. With the exception of a few zamindaris in the Sundergarh district (Hemgiri, Saraigarh, and the Kharposh zamindars) the abolition of zamindaris is practically complete. The total area taken over is about 25,000 sq. miles and the area to be taken over about 2,000. The gross income of estates taken over till March 1955 was Rs. 118 lakhs, and the additional revenue about Rs. 77·5 lakhs. When all intermediaries are abolished there will be a further additional revenue of Rs. 20 lakhs.

STATE HELP FOR AGRICULTURE

Manures distributed under State auspices and their quantity: Compost (Urban): 378,290 cft.

Oil-cakes: 295 tons; Fertilizers: 7,860 tons.

Quantity of improved seeds distributed: Paddy: 32,800 mds.; Wheat: 3,569 mds. departmentally and 4,560 mds. through Gram Panchayat.; Maize: 20 mds.; Groundnut: 7 tons; Gram: 794 mds; Pulses: 4,025 mds.; Potato: 15 tons.

Agricultural implements distributed or loaned: 28 pumps were loaned to cultivators during 1954-55.

Number of agricultural experiment farms: 43

Under G.M.F. programme no cash loan was issued. Rs. 1,32,339 were spent in making payment of premium, meeting the transit charges, etc., in distributing different kinds of seeds, fertilizers and green manuring seeds and were ultimately treated as subsidy during 1954-55.

Plant protection organisation and its operation: 13 farms. 102,637 acres

Rise in production of different crops owing to Grow More Food: 16,676 tons.

FORESTS

Forests occupy nearly 40·31 per cent of the total area of the State.

Total forest area of the State: 24,244·94 square miles

The forests occur in all the thirteen districts of the State, but their distribution is rather poor in the coastal districts, *e.g.*, Puri, Cuttack and Balasore.

Private forests under forest Department management, seven sq. miles.

Total area of protected forests: 12,023 sq. miles

Total area of forest under Board of Revenue: 7,000 square miles.

Main types of forests: Tropical semi-evergreen forest, Tropical dry deciduous forest (Sal forests and mixed forests), Tidal forest (in the coastal area of Cuttack and Balasore Districts).

Sal is the most important species in the State. The other important timber species are Bija, Sisoo, Kurum, Semul, Bandhan, Gambhar, Champa and teak. Bamboos occur extensively in the State and besides meeting the local requirements for various purposes, feed the various paper mills.

Total revenue from the forest for the year 1956-57: Rs. 1,89,45,937.

Total expenditure on the State forests during 1956-57: Rs. 52,14,068.

Main forest produce, quantity of each variety and value of each variety in 1956-57: Timber (96,98,000 cft.; Rs. 55,35,586); Firewood (1,57,80,500 cft.; Rs. 17,74,624); Bamboos (1,43,93,791 nos.; Rs. 6,91,701); Kendu leaves (2,14,779 bags; Rs. 28,12,621); Myrobalans (50451 mds.; Rs. 24,430); Mahua flowers (14,346 mds.; Rs. 11,747); Khair (3,500 mds.; Rs. 13,360); Lac (2,546 mds.; Rs. 32,694); Sabai Grass (1,29,898 mds.; Rs. 1,29,845); Tamarind (2,350 mds.; Rs. 7,657); Vegetable oil and oilseeds, Mahua seeds and Kusum seeds (24,339 mds. Rs. 8,045).

Afforestation: During 1956-57, 287·25 acres were planted with Casuarina in Puri Division at a cost of Rs. 36,999. A sum of Rs. 6,000 was spent on making preliminary operations for Casuarina plantation in Cuttack and Balasore districts in 1957-58. In Balasore District near Chandipura an area of 200 acres was planted with Casuarina. 436 acres were planted with teak at a cost of Rs. 45,681 and 340 acres were planted with Sabai and 83 acres of Khair at a total cost of Rs. 16,807. A sum of Rs. 19,945 was spent for staff-wood plantation over an area of 125 acres in Dhenkanal Division.

LAND RECLAMATION

Reclaimed land: 10,286·14 acres in reclamation centre.

Area developed: 10,286·14 acres.

Number of tractors available for operation at present: 13.

Number of refugee families resettled: 2,300 (upto July 1952).

Financial and other help given to colonizers: The State Government spent a sum of Rs. 1,25,149 for the resettlement of refugee families.

Budget allotment for land reclamation for the year 1956-57, Rs. 26,10,590 for the Land Reclamation Scheme through Government Agency

TRANSPORT

Position in 1956:

Total mileage of roads: 6,429.

Mileage of metalled roads: 3,732.

Mileage of unmetalled roads: 2,697.

Total mileage of railways in the State 873 (1955).

Total mileage of water-ways: All the canals and some of the rivers are also navigable (761 miles).

Number of aerodromes: 2 (Bhubaneswar and Jharsuguda).

Number of passenger service buses 939

Number of goods-carrying trucks, lorries 1,069

Number of Taxis: 42

Number of private cars: 3,552

State Transport

(as on 31st March 1957)

Transport has been nationalised in the State.

Name of Transport Authority: The State Transport Services, Orissa

Operates passenger transport service in the districts of Sambalpur, Sundergarh, Bolangir, Kalahandi, Keonjhar, Koraput and a part of Dhenkanal, Balasore and Cuttack Districts

Capital invested (Progressive): Rs. 63,84,152.

Number of routes covered: 104.

Number of passenger vehicles owned: 257 (197 buses plus 40 superannuated)

Number of goods vehicles owned: 16.

Total number of passengers carried: 38,31,108

Total volume of goods carried: 4,23,793 mds.

Total expenses of authority .. .. .. Rs. 48,92,055

Total revenue .. .. .. Rs. 60,13,026

Profit .. .. Rs. 11,00,034

Number of men employed after nationalisation 944 on 31-3-1957.

Total mileage: 35,96,083.

Orissa Road Transport Company Ltd.

(As on 31st March 1957).

Operates passenger transport service only in the Districts of Ganjam, Phulbani and some parts of Puri and Cuttack districts.

Capital invested: Rs. 29,99,200.

Total mileage covered: 28,77,589.

Number of routes covered: 57.

Number of passenger vehicles: 113.

Number of suburban bus services: 3 (Cuttack-Bhubaneswar).

Total number of passengers carried: 33,15,929.

Total expenses of authority: Rs. 29,79,220.

Total revenue: Rs. 33,83,911.

Profit: Rs. 4,04,691.

CO-OPERATION

Position in 1957 :

Total number of Co-operative Societies (including Central Banks and State Co-operative Societies) : 9,170.

Total membership of Co-operative Societies : 7,18,175.

Total working capital : Rs. 1,275·92 lakhs.

Types of Co-operative Societies and number of each type : Orissa State Co-operative Marketing Society : 1 ; Orissa State Co-operative Union : 1 ; Agricultural Credit Co-operative Societies (including Grain Golas) : 7,071 ; Agricultural Non-Credit Co-operative Societies : 349 ; Non-Agricultural Credit Co-operative Societies : 235 ; Non-Agricultural Non-Credit Co-operative Societies : 1,019 ; Provincial Co-operative Land Mortgage Bank : 1 ; State Co-operative Housing Corporation : 1 ; Multipurpose Co-operative Societies : 192 ; Orissa State Co-operative Bank : 1 ; Orissa State Handloom Weavers Co-operative Society . 1 ; Insurance Co-operative Societies : 2 ; Central Co-operative Banks : 17 ; Central Non-credit Societies : 2 ; Large-sized Credit Co-operative Societies 267.

The Orissa State Co-operative Bank is the highest organisation in the co-operative banking channel. Its financial particulars are given below :

Working Capital : Rs. 1,65,27,122.
Deposits : Rs. 1,09,00,928
Paid-up Share Capital : Rs. 9,27,320 (of which Government contribution Rs. 4,00,000)
Reserve and other funds : Rs. 3,13,928.
Net Profit : Rs. 2,15,328
Usual rate of dividend : 4½ per cent.

PUBLIC HEALTH

Commonest diseases in State and mortality from each of these in 1955 : Cholera (570) ; Smallpox (492) ; Fevers (including Malaria, etc.) (1,23,151).

Number of allopathic hospitals (functioning up-to-date) : 156 (including T.B. and Leprosy hospitals).

Number of allopathic dispensaries (functioning up-to date) : 247.

Total number of beds in allopathic hospitals and dispensaries including T.B. and Leprosy hospitals . 3,936.

Number of Ayurvedic and Unani Hospitals and dispensaries (functioning up-to-date) : Ayurvedic Hospitals 2 ; Ayurvedic Dispensaries 104 ; Unani Dispensary 1.

Number and type of special hospitals (T.B., Cancer, etc) : T.B. Hospital (Govt. T.B. Hospital at Uditanarayanpur, Dist Kalahandi with 35 beds) Leprosy Hospitals 2 (Govt. Leprosy Hospital, Loisinga, Dist Bolangir with 16 beds and Leprosy Home Hospital, Cuttack with 420 beds).

Total number of allopathic doctors : (*a*) Total number serving in all classes of allopathic hospitals and dispensaries including Medical College : 590 ; (*b*) 1,344 (allopathic doctors so far registered in the State).

Number of Ayurvedic and Unani practitioners now serving in all classes of Ayurvedic hospitals and dispensaries including Unani dispensaries : 114.

Total number of nurses employed : 208 (including 25 male nurses).

Total number of nurses registered so far : 300.

Total number of Health Visitors employed : 22.

Total number of Health Visitors registered so far : 17.

Total number of Midwives employed : 79.

Total number of Midwives registered so far : 235.

Total number of dais employed : 266.

Total number of dais registered so far : 318.

Number of out-door patients (treated in allopathic) hospitals and dispensaries : 5,449,760 (1955).

Number of in-door patients treated in hospitals and dispensaries (allopathic) : 698,652 (1955).

Number of Government Hospitals : Allopathic 122 ; Ayurvedic 2.

Number of Medical Colleges : Allopathic 1 (S.C.B. Medical College, Cuttack) ; Ayurvedic : One Ayurvedic Teaching Institution (Gopabandhu Ayurveda Vidyapitha, Puri awarding D.A.M.S. diploma).

Total number of students (1956-57) : S.C.B. Medical College, Cuttack : 286 ; Gopabandhu Ayurveda Vidyapitha, Puri : 124.

Strength of staff (*i.e.*, Health Officers and Health Inspectors, etc.) on the preventive side of the Department : 3,265.

Budget allotment for 1957-58 : Medical Department Rs. 90,86,427 ; Public Health Department Rs. 49,75,629.

The national malaria control programme covers an area with a population of 83 lakhs.

EDUCATION (1956-57)

	Primary Schools	Middle Schools	High Schools
Number of Schools ..	14,729	705	276
Total enrolment .	6,56,095	58,795	70,959
Number of teachers .	23,956	3,224	3,238
Total direct expenditure (Rs.)	1,08,37,473	32,69,447	53,98,188
Contribution by State Govt (Rs.) .	1,00,04,765	20,42,845	24,38,053
By local authority (Rs.) .	2,31,591	74,207	2,53,144
By private agencies (Rs.) .	5,31,913	6,19,576	7,14,015
Fees (Rs.) .	7,590	5,10,835	19,62,070
Contribution by Centre (Rs.)	61,614	12,884	—

Number of Arts and Science Colleges : 14 (13 A.I for men and women respectively)

Total number of women's colleges . 1.

Arts, Science and Commerce (combined) : 2

Total enrolment . 6,211 (Boys 5,578, Girls 633).

Total number of professors, lecturers, etc. : 349.

Total expenditure for the year on higher education . Rs. 21,21,751.

Total number of professional colleges : 8 (Law 1, Medical 2 ; Training Colleges 2 ; Agriculture 1 ; Veterinary 1 ; Engineering 1)

Total enrolment : 367 (excluding enrolment in Medical, Engineering and Law Colleges)

Total number of professors, lecturers, etc. . 66 (excluding the above three colleges).

Total expenditure on professional education : excluding the above three colleges Rs. 3,53,812 (Direct expenditure only).

Total number of teachers' training institutions : 45 (Basic Training 6, Normal and Training 38, Hindi Training 1).

Number of training institutions which confer degree : 2 (The training college shown under professional colleges).

Total number of teachers or staff of training institutions : 200 (Schools 185, Colleges 13, Hindi Training 2).

Total number of students at degree institutions : 127 (Boys 111 ; Girls 16). (Training institutions only).

Total expenditure on teachers training : Rs. 4,48,493 (Direct expenditure). (Training Schools Rs. 3,66,262 ; Training Colleges Rs. 82,231.)

Besides the above, there are three oriental colleges for special education, out of which, two are managed by Government and one is aided.

Total number of students : 211.

Contribution by State Government : Rs. 68,552.

Number of teachers : 31.

Number of commercial, technical institutes : 40 (Engineering 4. Others 1, Agriculture 4, Industry 16, Commerce 2, Arts and Crafts 13).

Total enrolment : 2,010 (Industry 578 ; Commerce 42 ; Arts and Crafts 234 ; Engineering 659 ; Agriculture and others 497).

Total number of instructors : 200 (Commerce 3 ; Agriculture 27 ; Industries 90 ; others 11 ; Engineering 46 ; Arts and Crafts 23).

Total expenditure : Rs. 8,24,809 (Direct expenditure only).

Names of research institutions and other notable institutions : State Department of Archaeology, New Capital, Bhubaneswar.

Number of Universities . 1.

Name and location of University : Utkal University, Cuttack.

Number of elementary schools owned by State Government 3,524, by local authority 707 ; by private agencies 10,491 ; by Central Government 7.

Number of secondary schools (both basic and non-basic) owned by the State Government 243 ; by local authorities 74 ; by private agencies 382, by the Central Government 2.

Number of colleges owned by State Government 9, by private agencies 5.

Number of schools for deaf and dumb : 1.

Enrolment : 11.

Number of teachers : 3.

Establishment institutions devoted to social education . 2,154.

Number of teachers available . 2,297.

Number of adult (social) scholars on rolls during the year : 70,562.

Total number of adults made literate since movement was started : 1,66,724.

Total expenditure : Rs. 3,38,000.

Literacy in State 15 per cent.

Number of schools for oriental studies : 149 including one for girls

Enrolment in tols only . 3,674

Number of European and Anglo-Indian schools : 3.

Number of Madrasas : 3. Total enrolment : 277.

Number of nursery schools (Balaswamas) : Nil.

Areas where education is free and compulsory : (*a*) Banki (1 Union area (Banki town, Grampanchayat area) (2) Rural area (20 villages under the Union Board of Banki) ; (*b*) Parlakimedi Municipality (town only). Besides, 5 new centres are under notification.

Names of the places where compulsion is enforced : Banki Union Board (24 villages), Parlakimedi Municipality area and Banki Town Grampanchayat area.

Age of compulsion . 6 to 11.

Total number of children of the age group 6–14 in the State : 25,44,440 ; Number at school : 7,21,714.

Compulsion laws apply only to the male children of the age-group 6-11. They are 4,640 in number. Compulsion laws do not apply to girls.

Total no. of professional colleges : 8

Total enrolment : 926 (Law 203 ; Medicine 286 ; Veterinary 61 ; Engineering 70 ; Agriculture 79 ; Training Colleges 127).

Total no. of professors and lecturers : 131.

Social Education

Duration of course : 3 to 4 months (Literacy).

The adults are educated in daily night classes. Certificates are awarded at the end of the course.

The scheme began in 1949. About one lakh illiterate adults were made literate upto 31st March 1956 but the total number of adult illiterates within the age-group 14-45 is about 52,50,000.

Number of Basic schools both Junior and Senior and Post-Basic in the year 1956-57 : 385.

Number of students : 25,252.

Number of teachers : 995.

Number of Basic training schools : 6.

Secondary Education

The Board of Secondary Education, Orissa was constituted in January 1956.

The Board conducted the High School Certificate Examination in July 1956.

With effect from 1956 recognition of high schools is given by the Board.

Full attention is being given to implementation of individual schemes under the Second Five Year Plan in respect of the State of Orissa.

UTKAL UNIVERSITY

Cuttack 1.

Chancellor, Governor of Orissa.

Vice-Chancellor, Padmabhushan Dr. P. K. Parija, O.B.E., D.Sc., M.A. (Cantab.), I.E.S. (Retd.), F.N.I.

Registrar, G. C. Rath, M.A., Dip-in-L.Sc.

Asstt. Registrar, D. P. Baral, M.A., Dip. Ed.

Addl. Asstt. Registrar, P. C. Das, B.A., Dip-in-Edn. (Bristol), F.R.H.S. (Lond.).

Affiliating-cum-Teaching University.

Subjects for Post-graduate teaching and Research : Oriya, Sanskrit, Philosophy, English, Economics, History, Mathematics, Physics, Chemistry, Botany and Geology.

Number of colleges affiliated to the University : 23.

Number of teaching departments under its control : 9 including a) Department of Rural Economics & Sociology, b) Diploma class in Statistics, c) Diploma class and certificate course in French & German, d) University College of Engineering, e) M. S. Law College.

Total number of students : 6,872 (Men 6,192 ; Women 680) 1955-56.

Annual income (including Government grants, donations and endowments) : Rs. 15,05,000.
Annual expenditure : Rs. 12,16,350.
Grant from State Government : Rs. 4,58,540.
Central Government grant : Rs. 2,52,527.

AFFILIATED COLLEGES

Bhadrak College, Bhadrak (Balasore).

Christ College, Cuttack.

Fakir Mohan College, Balasore.
Gangadhar Mehar College, Sambalpur.
Government Training College, Angul (Dhenkanal).
Khallikote College, Berhampur (Ganjam).
Maharaja Purna Chandra College, Baripada (Mayurbhanj).
Narsing Chaudhury College, Jajpur (Cuttack).
Orissa College of Veterinary Science and Animal Husbandry, Cuttack.
Radhanath Training College, Cuttack.
Rajendra College, Bolangir.
Ravenshaw College, Cuttack.
Sailabala Women's College, Cuttack.
Samanta Chandra Sekhar College, Puri.
Sri K.C.G. College, Parlakimedi (Ganjam).
Sri S.C.B. Medical College, Cuttack.
Stewart Science College, Cuttack.
Utkal Krushi Mahavidyalaya, New Capital, Bhubaneswar (Puri).
Vikram Dev College, Jeypore (Koraput).

Intermediate Science College, Bhubaneswar, Puri.
Intermediate Science College, Keonjhar, Keonjhar Garh.

UNIVERSITY TEACHING DEPARTMENTS

University College of Engineering, Burla, P.O. Hirakud Colony, Dt. Sambalpur.

Madhusudan Law College of the Utkal University, Cuttack 3.

Modern European Languages Teaching Department of the Utkal University, Cuttack 3.

Post-Graduate Department in Geology.
Post-Graduate Department in Philosophy.
Post-Graduate Department in Sanskrit.
Post-Graduate Department in Physics.
Department of Rural Economics and Sociology.
Diploma Course in Statistics.

LABOUR

Position in 1957 :

Names of industries in which minimum wage is fixed : Rice Mill, Flour Mill and Dal Mill, Tobacco (including bidi and gudakhu making) manufactory, road construction, building operations and stone breaking or stone crushing, Public Motor Transport, employment in agricultural operations and employment under Local Authority (excepting Gram Panchayats, Anchal Sasan and Notified Area Committee for a period of five years with effect from 30th December 1954).

Average monthly earnings of industrial workers Rs. 65-10-0.
Total number of Trade disputes : 53.
Total number of strikes : 12.
Total number of workers affected : 4,442.
Number of Trade Unions in the State : 129.
Total membership of trade unions : 42,815.
Number of Labour Welfare Centres : 19.
Strength of Labour Welfare staff : 43.

Average daily number of workers in registered factories : 23,777.

Number of houses built through Industrial Housing Scheme (by private enterprises) : 212 one-roomed single storeyed ; 234 two-roomed single storeyed.

Number of houses built through Subsidised Industrial Housing Scheme : By private enterprises : 876 one-roomed single storeyed ; 24 two-roomed single storeyed ; 128 two-roomed double storeyed. By Government 160 one-roomed single storeyed.

Amount of loan advanced under Low Income Group Housing Scheme (1956-57) : Rs. 6,92,500.

Number of Employment Exchanges established : 7 (Cuttack, Sambalpur, Rourkela, Joda, Rairangpur, Rayagada and Berhampur).

There is a labour court with one presiding officer functioning at Berhampur. An industrial tribunal with one presiding officer (a High Court Judge) is functioning at Cuttack.

HOUSING AUTHORITY

Housing authority : Housing Board.

Different classes of houses built and number of each class in urban area and rural area : 1,140 single storeyed one room tenements, 234 single storeyed two room tenements and 128 double storeyed double room tenements built in the industrial areas of the State including 160 single storeyed one room tenements built by the State Government in Cuttack City (urban area).

Rent charged for each of the classes : Rent charged in respect of the houses constructed under the Industrial Housing Scheme, 1949, is at 2 per cent of the capital cost, subject to the limit of 10 per cent of the wages. The rent charged by Government for the houses constructed under the Government of India Subsidised Housing Scheme is Rs. 10 for a single storeyed one room tenement.

During the Second Plan period it is proposed to construct 1,138 tenements for the industrial workers through the agency of the State Public Works Department. The construction of 152 industrial tenements which was taken up in 1956-57 was in progress during 1957-58 and it was expected that the construction work would be completed in 1957-58.

Low Income Group Housing Scheme : A sum of Rs. 11,04,150 was advanced to the house builders of low income group during 1956-58. A further sum of Rs. 7 lakhs was sanctioned in 1956-57 for payment of loans to persons of low income groups for construction of houses. In order to meet the growing need of houses in urban areas, the Government of India allotted a sum of Rs. 10 lakhs for the year 1957-58 under the above scheme, for grant of loans to individuals of low-income group for construction of houses.

POWER PROJECTS

Position in 1956 :

Total capacity of Power Stations installed in the State : 29,031 kW.

Total Effective Capacity : 22,625 kW.

Total Production during the year 1955-56 in kW. Hrs. (Units) : 18·3 millions.

Total Units sold : 15·2 millions.

Chief Hydro-Electric Schemes under execution in the State :
Machkund Hydro-Electric Scheme (Koraput) and Hirakud Hydro-Electric Scheme (Sambalpur).

The following are the more important thermal power houses. The first figure within the brackets shows the installed firm capacity in kW, the second the units generated in kW hrs. and the third the units sold : Choudwar (5,000 kW, 1,40,70,000 kW hrs. ; 1,12,85,322 Kwgs.), Rajgangpur (C.W.P.C.) (6,500 kW ; 1,57,346 kW hrs. ; 1,56,072 Kwgs.).

The following are the more important diesel stations showing within brackets firstly the installed firm capacity and secondly the number of units generated. Rajgangpur (816 kW ; Hirakud (C.W.P.C.) (2,665 kW ; 4,92,837 kW hrs.) ; Burla (1,620 kW).

The following is a list of the Government Undertakings : *Thermal Power houses* Choudwar, Chatrapur, Rajgangpur (C.W.P.C.) ; *Diesel Stations* : Rajgangpur, Sundergarh, Bolangir, Bhawanipatna, Sonepur, Deogarh, Jeypore, Machkund, Aska, Bolarni, Phulbani, Sundargarh, Bhubaneswar, Nayagarh, Talcher, Dhenkanalnagar, Baripada, Keonjhar, Dhenkanal Kolony Rd., Hirakud (C.W.P.C.) and Burla (C.W.P.C.).

Total installed firm capacity of Licensee Undertakings : 9,088 kW, total number of units generated : 21,04,307 kW hrs. ; number of units sold : 25,94,946 Kwgs.

The more important licensee undertakings showing within brackets the installed capacity, number of units generated and the number of units sold respectively ; Berhampur Electric Supply Co. (1,249 kW ; 12,50,902 kW hrs. ; 14,63,800 Kwgs.) ; Brajarajnagar Orient Paper Mills (6,250 kW).

The following are the licensee undertakings : Cuttack Electric Supply Co., Puri Electric Supply Co., Balasore Electric Supply Co., Berhampur Electric Supply Co., Sambalpur Electric Supply Co., Jharsuguda Electric Supply Co., Bargarh Electric Supply Co., Parlakimedi Electric Supply Co., Brajarajnagar Orient Paper Mills and Rayaghada J. S. Co.

Machkund Scheme

This is a joint scheme of Orissa and Andhra Governments and is located in Koraput District for harnessing Hydro-Electric Power from the Machkund river. Orissa's Share is 30 per cent. Work on this scheme was started in 1946

Ultimate installed capacity : 1,11,750 kWs.

Total cost : Rs. 1,536·86 lakhs.

Orissa's share : Rs. 461·08 lakhs.

Expenditure upto end of First Five Year Plan Rs. 299·75 lakhs.

Provision in the Second Five Year Plan Rs. 101·30 lakhs.

Present stage of the Scheme : Three sets have already started generation, first one from August 1955, second from December 1955 and third from June 1956. The power house, transformer yard and all allied works have been completed. Work on the Jalapur Dam is in progress. Up to date Installed capacity 51,750 kWs. Three more sets of 20,000 kW will be installed by 1959.

Hirakud Scheme

This project was started in 1948 and is located at Hirakud near Sambalpur. The dam has been constructed here to utilise the waters of the Mahanadi River for irrigation, production of power and also to control the floods in the river.

It is the first of three dams proposed to control and harness the mighty river Mahanadi for the development of the entire region.

Water from the dam now completed flowed into the Bargarh Canal, the central arterial canal, in July 1956 and water was available for irrigation in September 1956.

The project will irrigate 6,72,000 acres of land in Sambalpur and Bolangir districts including a double-cropped area of 2,18,000 acres and 1,867,000 acres in Cuttack and Puri Districts An area of about 1,35,490 acres is now being irrigated by water from the Hirakud canals.

The main power house with four generating units was made available from December 1956.

Upto March 1956, about Rs 64·61 crores had been spent on the project. The revised estimates for Stage I are Rs. 70·78 crores.

Electric portion of the Hirakud Scheme :—

Installed capacity : 1,23,000 kW (first stage)

Installed capacity : 2,32,500 kW (including 2nd stage).

Present stage : Generation of power started in December 1956, work on the second stage of the scheme is in hand

For more particulars see under the main article on Irrigation.

Choudwar Thermal Station

Pending extension of power from Hirakud to Cuttack area, a steam station at Choudwar near Cuttack with 2 × 1500 kW and 1 × 2000 kW was installed at Choudwar bringing the capacity of the Thermal Station to 5,000 kW by the end of October 1955. This station is now fully loaded and is supplying power to Cuttack, Puri and Dhenkanal districts. This station will become a stand by plant for the Hirakud scheme when the hydro-electric power is available.

A 750 kW steam station which was installed at Jobra has been transferred to Chatrapur for supplying power to the Ganjam area. This was commissioned during early part of the year 1956-57

Transmission Schemes

Duduma Transmission Scheme : Total cost Rs 157·69 lakhs upto Rayagada (1st stage), Rs 142·00 lakhs upto Berhampur (2nd stage).

Expenditure upto end of First Five Year Plan : Rs 112·49 lakhs.

Provision in the Second Five Year Plan : Rs 154 lakhs. The scheme envisages extension of power transmission to Berhampur, Rayagada, Jeypore, Koraput, Nawrangpur and Borigumma. From Berhampur the transmission line will be extended to supply power to Aska, Bhanjanagar, Rambha and Chatrapur areas in the Ganjam District and Banpur, Balugaon, Kalugaghat etc. in the Chilka region of Puri District.

Hirakud Power Utilisation Scheme :

Total cost : Rs. 155·85 lakhs.

Expenditure upto First Five Year Plan period : Rs 77·54 lakhs.

Provision made in the Second Plan : Rs. 100 lakhs.

The scheme covers sub-transmission and distribution of power generated at Hirakud with a view to developing loads which would ultimately consume the power.

On this basis, 33 and 11 K.V. lines are being constructed at Hirakud round about Rajangpur and Rairangpur region in the north for connecting the important places and mining areas in the Sambalpur, Sundergarh, Keonjhar and Mayurbhanj districts. Lines have been constructed from Choudwar upto Puri and to Khurdo, Jatni *via* Bhubaneswar, to Dhenkanal area Khuntini ; lines to Jagatsinghpur Kendrapara had been completed and line to Jajpur was nearing completion.

The Choudwar Power House is now catering to the demands of all these regions which will eventually be tagged on to the Hirakud system.

Thermal Schemes

Cuttack Thermal Scheme :
Plant Capacity : 5,000 kW.
Total cost : Rs 59·28 lakhs.

Expenditure upto end of First Five Year Plan : Rs. 62·46 lakhs.

This supplies power to Cuttack, Puri and Dhenkanal districts through the transmission lines constructed under the Hirakud Power Utilisation Scheme and the Rural Schemes. The work is almost completed.

Small Towns and Rural Schemes :
Total Cost : Rs. 89·02 lakhs.

Expenditure upto First Five Year Plan : Rs 49·21 lakhs

Provision in the Second Plan : Rs 150·00 lakhs.

Investigation of New Hydro-Electric Projects In the Second Five Year Plan a provision of Rs 12 lakhs has been made.

IRRIGATION

Gross area irrigated : 2,224,000 acres

Water from Hirakud dam began to be available for irrigation in Sept. 1956, and will irrigate an area of 6·72 lakh acres in Sambalpur and Bolangir-Patna.

Minor Irrigation Schemes.

Total area irrigated and or benefited by minor irrigation projects 595,350 acres

The following are some of the more important minor irrigation projects with their location, area irrigated in acres and cost in lakhs of rupees respectively within brackets : Suk Pika (Cuttack District, 6,068, 11·30), Uchhai Nagar (Puri District, 4,000, 4·08); Derras (Puri District, 5,500, 13·00); Dasmauza (Balasore District 3,880, 1·76), Projects connected with Subamarekha problem Balasore District : (10,000 ; 6·00) ; Bauli (Dhenkanal District ; 7,600 1·35) ; Extension of No 2 Distributary Rushikulya Canal (Ganjam District, 6,000, 4·00).

Major Irrigation Schemes : Name with location, area in acres and cost in lakhs respectively within brackets. Hirakud Dam (Sambalpur & Bolangir Patna Districts : 4,48,600 ; 7,07·8 00); Delta Irrigation Project (Cuttack and Puri Districts ; 10,77,000, 1,492·00).

BUDGET 1958-59

Revenue : Rs. 27 52·35 lakhs.
Expenditure : Rs 26,94·38 lakhs.
Surplus : Rs. 57·97 lakhs.

ORISSA STATE FINANCIAL CORPORATION
Killa Maidan, Cuttack 1.

The Orissa State Financial Corporation was established by the Orissa State Government under the State Financial Corporations Act, 1951 and commenced functioning from 14th March 1957 with the object of providing medium and long-term credit to small-scale and medium sized industrial concerns in the State of Orissa, primarily for the purpose of purchase, renovation or expansion of plant and machinery and other fixed assets. Its Head Office is located in the building of the Office of the Director of Industries, Orissa, Killa Maidan, Cuttack-1, and no branches have been opened.

The Authorised Capital of the Corporation is Rs. 2 crores divided into 2 lakhs fully paid shares of Rs. 100/- each. The shares of the Corporation are guaranteed by the Government of Orissa as to the repayment of principal and payment of annum dividends at the rate of 3¼ per cent per annum is also guaranteed by the State Government. The shares are classed as Trustee Securities under the Indian Trusts Act, 1882 and approved Securities for the purpose of the Insurance Act, 1938 and the Banking Companies Act, 1949.

Particulars as on 31st March 1958 :

Number of applications received : 13.

Number of applications sanctioned : 3.

Amount of loans sanctioned : Rs. 6,30,000.

Amount actually disbursed : Rs. 1 lakh.

Amount recovered : Nil—not yet due for recovery.

Rate of Interest : 6½ per cent per annum with a rebate of ½ per cent for prompt payment of instalments and interest.

Total income : Rs. 1,40,000.

Total expenses : Rs. 30,000.

Chairman : M. Ramakrishnayya, I.A.S., Secretary to Government of Orissa, Finance Department ; *Managing Director :* V. N. Shirali ; *Accounts Officer :* R. N. Sahoo.

ADMINISTRATIVE PERSONNEL

(See under 'State Administrative Personnel').

ORISSA LEGISLATIVE ASSEMBLY

(See under 'General Elections').

ASSOCIATIONS

The Berhampur Chamber of Commerce (Orissa).—The Berhampur Chamber of Commerce was formed soon after the formation of Orissa State. It maintains a library and an information service, arranges commercial arbitrations and makes commercial opinion available to Government. It has about 140 members on its roll and publishes a monthly review.

President :—P. Narayana Rao, B.A., B.L. ; *Vice-President :*—Agent, Messrs. Haji Jama, Nur Mohamad ; *Secretary :*—I. Ramamoorti ; *Joint Secretary :*—V. Kedarinatham Raju.
Address.—Berhampur, Ganjam Dist.

BERHAMPUR TEXTILE INSTITUTE
Berhampur

CUTTACK CHAMBER OF COMMERCE
Railway Dockyard, Cuttack 3.

President. N. Agarwalla.

Vice-Presidents. H. K. Manji D. C Sahu.
Chairman Arbitration Board, B. Mahanty.

Hon. Jt. Secretary, N. K. Acharya.

GOVERNMENT HANDLOOM TEXTILE MARKETING ORGANISATION
Cuttack

INDIAN POLITICAL SCIENCE CONFERENCE
Ravenshaw College, Cuttack 3.

President :—Prof. J. P. Suda, Meerut. *Gen. Secretary & Treasurer :*—Prof. S. C. Dash, Ravenshaw College, Cuttack 3.

Managing Editor of the Journal :—Prof. A. L. Loomta, Model House, Lucknow.

Orissa Chamber of Commerce and Industry.—
Buxibazar, Cuttack 1.
President : B. Patnaik.
Vice-Presidents : G. C. Patnaik ; B. P. Modi.
Hon. General Secy. : S. N. Patnaik.
Secretary : R. S. Roy.

ORISSA MILLOWNERS' ASSOCIATION
Balasore

THE PUNJAB

Capital : Chandigarh.

Area : 47,456 square miles.

Total Population (1951 Census) : 16,134,890.

(Males 8,681,778. Females 7,453,112 ; Urban 3,066,402 ; Rural 13,068,488).

Religion-wise population of the State : Hindus 9,880,769 ; Sikhs 5,553,918 ; Muslims 284,993 ; Jains 45,096 ; Christians 98,858 ; Buddhists 1,660 ; Zoroastrians 86 ; others 658.

Literacy (1951) : 15·2 per cent ; Males 21·3 per cent ; Females 8·5 per cent

Main Occupation : Agriculture (66.5 per cent).

Languages spoken : Punjabi, Western Hindi, Pahari.

The number of seats allotted to the Punjab :— in Lok Sabha 22 ; Rajya Sabha 11 ; in the State Vidhan Sabha 154 ; in the Punjab Legislative Council 40.

Administrative Divisions : 3 ; Districts : 18 ; Tahsils 73 ; Towns 194 ; Villages 21,516.

Divisions : Ambala, Jullundur, Patiala.

Names of districts (with headquarters in brackets) : Hissar (Hissar), Rohtak (Rohtak), Gurgaon (Gurgaon), Karnal (Karnal), Ambala (Ambala), Hoshiarpur (Hoshiarpur), Amritsar (Amritsar), Jullundur (Jullundur), Ludhiana (Ludhiana), Ferozepore (Ferozepore), Gurdaspur (Gurdaspur), Kangra (Kangra), Simla (Simla), Patiala (Patiala), Bhatinda (Bhatinda), Sangrur (Sangrur), Kapurthala (Kapurthala), Mahendragarh (Narnaul).

POPULATION

The population District-wise is as follows :—

Hissar : 1,045,645 ; Rohtak : 1,122,046 ; Gurgaon : 967,664 ; Karnal : 1,079,379 ; Ambala 943,734 ; Simla : 46,150 ; Kangra : 936,042 ; Hoshiarpur : 1,091,986 ; Jullundur : 1,055,600 ; Ludhiana : 808,105 ; Ferozepore : 1,326,520 ; Amritsar : 1,367,040 ; Gurdaspur : 851,244 ; Bhatinda : 666,809 ; Kapurthala : 295,071 ; Mahendragarh : 443,074 ; Patiala : 999,069 ; Sangrur : 1,179,662.

The highest number of displaced persons is in Ferozepore (370,934) and the lowest in Kangra (19,770).

Names of Districts giving names of talukas, their area in square miles and population respectively within brackets :

Simla District (8 ; 46 150).

Kangra District (Kangra : 422 ; 1 56 317 ; Dera Gopipur : 495 ; 1 42 008 ; Nurpur : 519 97,480 ; Hamirpur : 590 ; 2,11 119 ; Palampur : 724 ; 1,74,451 ; Kulu : 6 225 ; 1 45,688).

Hissar District (Hissar : 1 019 ; 2,32,568 ; Hansi : 893 ; 2 36 792 ; Bhiwani : 977 ; 2,09 369 ; Fatehabad : 919 ; 1,45,634 ; Sirsa ; 1,639 ; 2,21,282).

Rohtak District (Rohtak : 517 ; 3,12 058 ; Jhajjar : 814 ; 3 24 431 ; Gohana : 553 ; 2,31,749 ; Sonipat : 447 ; 2,53 908).

Gurgaon District (Gurgaon : 411 ; 1,69,506 ; Ferozepur Jhirka : 312 ; 1,11,496 ; Nuh : 401 ; 1,37,626 ; Palwal : 382 ; 1,64,760 ; Rewari : 555 ; 2,55,573 ; Ballab Garh : 287 ; 1,28,763).

Karnal District (Karnal : 861 ; 3,25,915 ; Panipat : 461 ; 2,26,638 ; Kaithal : 1,221 ; 3,41,296 ; Thanesar : 554 ; 1,85,530).

Ambala District (Ambala : 388 ; 2,97,847 ; Kharar : 355 ; 1,73,407 ; Jagadhri : 489 ; 2,10,372 ; Naraingarh : 442 ; 1,22,906 ; Rupar : 286 ; 1,39,202).

Hoshiarpur District (Hoshiarpur : 572 ; 2,74,126 ; Dasuya ; 500 ; 1,44,538 ; Garhshankar : 509 ; 2,73,560 ; Una : 684 ; 2,96,258).

Jullundur District (Jullundur : 389 ; 4,59,069 ; Nawanshahar : 300 ; 2,24,401 ; Phillaur : 280 ; 2,09,795 ; Nakodar : 364 ; 1,62,335).

Ludhiana District (Ludhiana : 566 ; 4,22,734 ; Jagraon : 420 ; 2,08,646 ; Samrala : 344 ; 1,76,725).

Ferozepur District (Ferozepur : 660 ; 2,55,342 ; Zira : 494 ; 1,51,184 ; Moga : 646 ; 3,05,502 ; Muktsar : 928 ; 2,49,434 ; Fazilka : 1,239 ; 3,65,068).

Amritsar District (Amritsar : 545 ; 6,76,308 ; Tarn Taran : 474 ; 2,69,617 ; Ajnala : 418 ; 1,56,197 ; Patti : 525 ; 2,42,305).

Gurdaspur District (Gurdaspur : 497 ; 3,14,133 ; Batala : 477 ; 3,40,018 ; Pathankot : 366 ; 1,97,143).

Patiala District (Patiala : 700 ; 2,76,294 ; Rajpura : 381 ; 1,55,388 ; Nabha : 240 ; 92,587).

Barnala District (Barnala : 449 ; 1,59,276 ; Phul : 359 ; 1,26,530 ; Dhuri : 276 ; 1,11,539 ; Malerkotla : 240 ; 1,39,383).

Bhatinda District (Bhatinda : 846 ; 2,44,245 ; Faridkot : 562 ; 1,80,625 ; Mansa . 804 ; 2,41,939).

Kapurthala District (Kapurthala : 525 ; 2,08,475 ; Phagwara . 118 ; 86,596).

Fatehgarh Sahib District* (Sirhind : 295 ; 1 23,174 ; Payal : 134 ; 75,270 ; Amloh : 93 ; 38,953).

Sangrur District (Sangrur : 346 ; 1,27 211 ; Sanam : 543 ; 1 76 094 ; Narwana : 576 ; 1,69,985 ; Jind . 471 ; 1,69,644)

Mohindergarh District (Narnaul : 368 ; 1,57,469 ; Mohindergarh : 401 . 1,24,887 ; Dadri : 571 , 1,60,718).

Kohistan District* (Kandaghat ; 274 : 79,507 ; Nalagarh : 272 . 52,042 . Dera Bassi . 46 . 15,854)

There are 13 District Boards 58 Municipal Committees and a Panchayat in every village with a population of over 500. The erstwhile PEPSU region of enlarged Punjab had no organised local bodies, but now with the merger of PEPSU in the Punjab, elections are expected to be held of members of local bodies on the pattern of erstwhile Punjab

REGIONS

In the Zonal Division the Punjab falls within the northern Zone, comprising the States of Punjab, Rajasthan and Jammu and Kashmir and the Union territories of Delhi and Himachal Pradesh.

For the more convenient transaction of business with regard to some specified matters, the State is divided into two regions, the Punjabi-speaking and the Hindi-speaking regions.

The Hindi region consists of the districts of Kangra, Simla, Karnal, Rohtak, Gurgaon, Hissar Mohindergarh, the Kandaghat and Nalagarh tehsil of Patiala, Ambala district, excluding the Rupar and Chandigarh Assembly constituencies, Jind and Narwana tehsils of Sangrur district.

The Punjabi region consists of the districts of Gurdaspur, Amritsar, Bhatinda, Jullundur, Hoshiarpur, Ferozepur, Ludhiana, Kapurthala, the Rupar and Chandigarh Assembly constituencies in Ambala district, Patiala district excluding Kandghat and Nalagarh tehsils and Sangrur district, excluding the Jind and Narwana tehsils

The Chandigarh capital project will not form part of either of the two regions So long, however, as it does not become a full-fledged constituency on a population basis, its representative will sit in the Regional Committee for the Punjabi region.

For each region there is a regional committee of the State Assembly consisting of the members of the State Assembly belonging to that region including the Ministers from the region but not including the Chief Minister.

The Regional Committees have been impowered to make proposals with regard to questions of general policy not involving any financial commitments other than expenditure of a routine and incidental character.

The advice tendered by the regional committees will normally be accepted by the Government and the State Legislature. In case of difference of opinion, reference will be made to the Governor whose decision will be final and binding.

The regional committees will deal with the following matters : (i) Development and economic planning, within the framework of the general development plans and policies formulated by the State Legislature; (ii) Local Self-Government, that is to say, the constitutional powers of municipal corporations, improvement trusts, district boards and other local authorities for the purpose of local self-Government or village administration including "Panchayats"; (iii) Public health and sanitation, local hospitals and dispensaries; (iv) Primary and secondary education; (v) Agriculture; (vi) Cottage and small-scale industries; (vii) Preservation, protection and improvement of stock and prevention of animal diseases, veterinary training and practice; (viii) Pounds and prevention of cattle trespass; (ix) Protection of wild animals and birds; (x) Fisheries; (xi) Inns and Inn-keepers' (xii) Markets and fairs; (xiii) Co-operative Societies and (xiv) Charities and charitable institutions, charitable and religious endowments and religious institutions.

The Sachar formula will continue to operate in the area comprised in the former Punjab State, and in the area comprised in the former PEPSU State, the existing arrangements will continue until they are replaced or altered by agreement later.

The official language of each region will at the district level and below, be the respective regional language.

The State is bi-lingual recognising both Punjabi (in Gurmukhi script) and Hindi (in Devnagri script) as the official languages of the State.

INDUSTRIES

The total number of registered factories in 1955 was 2,573.

Among the more important industrial centre Jullundur is famous for its sports goods while Batala and Ludhiana are well known for light engineering works, Amritsar for textile goods Sonepat for its cycle factory which is also one of the largest of its kind in the country. The factory produces about 8,500 cycles per month as against 1,500 cycles produced in 1952.

The other large scale industries include one woollen mill at Dhariwal, one new cotton spinning mill with 25,000 spindles at Hissar, one sugar factory at Abdullahpur producing 10,000 tons of sugar, one hydrogenated oil factory at Abdullahpur with an annual production of 5,000 tons and one paper production factory at Jammatnagar with a production of 15,000 tons of paper.

There are also two embroidery mills and a number of ice making factories in the areas comprising the former Punjab; also one footwear factory at Faridabad, four assembling-cum-cycle manufacturing units at Sonepat, Faridabad and Ludhiana.

Heavy industries in the PEPSU region include two sugar factories at Hamira and Dhuri with a crushing capacity of 1,000 tons and 1,500 tons of sugarcane per day respectively one sugar factory and one textile mill at Phagwara, with a production of 57,000 yards of cloth per day, two cement factories at Surajpur and Dalmia Dadri producing 353,817 tons of cement per year, one distillery at Hamira, three starch factories at Phagwara, Rajpura and Faridkot, two roller flour mills at Patiala and Bhatinda and a biscuit factory at Rajpura.

SMALL SCALE INDUSTRIES

The Punjab has a large number of medium and small-scale industries which include scientific instruments, glassware, wooden planks and hooks, foundry and engineering, re-rolling mills, cotton ginning, canning and preservation of foods, starch and chemicals, milk food except beverages, distilling, rectifying and blending of spirits, electric goods, manufacture of ice, etc.

* Was a separate District when the census were taken.

In the hosiery industry, with 880 concerns out of a total of about 960 in India, Punjab occupies the leading position in the whole country.

In the production of artificial silk the Punjab ranks next only to Bombay. There are in operation at present, 350 units in the State.

Cottage Industries

The manufacture of blankets, 'khesies' rugs, cycle parts, utensils, tanning and wood industries, silk spinning and weaving, potteries, shoe making, making of sewing machine parts, etc., are among the principal cottage industries of the new State.

There are more than 73,500 hand-looms in the State (51,000 in the erstwhile Punjab region and 22,500 in erstwhile PEPSU). To promote sale of goods, sale depots at fourteen places in the former State of Punjab were set up, besides one cottage industries emporium at Chandigarh. In PEPSU similar sale emporia exist at Malerkotla, Phagwara and Patiala.

Statistical Table

The following table shows the existing position of some of the important industries in the State :—

Industry	No. of factories	Value of annual output, Rs. lakhs	Persons engaged
LARGE SCALE			
Punjab Region			
Textiles	36	2,771	27,180
Cycles	4	185	1,350
Paper	1	176	2,200
Sugar	1	172	1,050
Distilling	2	57	580
Engineering	8	50	1,510
Hydrogenated Oil	1	46	160
Starch	1	24	225
Chemicals	1	24	300
PEPSU Region			
Cement	2	266	N.A.
Textile	1	724	N.A.
Flour	2	104	N.A.
Sugar	3	N.A.	N.A.
Starch	3	24	N.A.
Biscuits	1	4	N.A.
LARGE SMALL SCALE INDUSTRIES (Punjab)			
Cotton ginning & pressing	67	4½ lakh bales	5,580
COTTAGE AND SMALL SCALE (Punjab)			
Textiles	5,430	1,218	77,531
Hosiery	869	687	20,700
Brassware	800	354	5,300
Cycle parts	300	162	2,300
Agricultural Implements	250	100	5,000
Sports Goods	150	80	3,000
Resin and Turpentine	19	75	272
Sewing machines and parts thereof	160	60	1,200
Scientific Instruments	32	25	480
Electric Fans	7	5	150
Surgical Instruments	17	3	162
Cycle & Sewing machine parts in PEPSU Region	49	N.A.	N.A.

N.A.—Figures not available.

New Enterprises

A new textile finishing mill with modern equipment and machinery at Amritsar has commenced production. Two roller flour mills have been established at Chandigarh. Sugar mills on co-operative basis namely, Morinda Sugar Mills, Janta Sugar Mills at Bhogpur, Hariyana Sugar Mills at Rohtak and Nawanshahr Sugar Mills were being erected in the State.

Rajpura is developing into an important industrial centre. A bone and glue factory, a cycle factory and a scrap melting furnace factory were being established there. A factory to produce electric fans, electric motors, etc., was being set up at Patiala. Arrangements for setting up a wire-products factory and a pistons and ring factory at Patiala had also been completed.

In the Punjab out of a total allotment of Rs. 7·13 crores in the Second Five-Year Plan, there is a provision of Rs. 1·4 crores for factory production. This provision represents the amount necessary for Government participation to the extent of one-third of total investment in the establishment of factories in the private sector.

In the Second Five-Year Plan for PEPSU region there is a provision of Rs. 190 lakhs under this head, out of which Rs. 160·54 lakhs are earmarked for village and small-scale industries.

AGRICULTURE

The total area of the Punjab according to village records pertaining to the agricultural year 1954-55 is 30,288,000 acres as per details given below :

	Acres
Area under Forests	835,000
Area not available for cultivation	7,863,000
Cultivable waste other than current fallows	2,598,000
Current fallows	1,770,000
Net area sown—	
(*a*) Irrigated	8,024,000
(*b*) Unirrigated	9,398,000
Total	30,288,000

The total area under irrigation during 1954-55 :

	Acres
By canals	5,264,000
By wells and tanks	2,817,000
Other sources	43,000
Area sown more than once	996,000
Total (net)	9,120,000

In the matter of food production, Punjab is the second largest wheat and gram producing area in the Union, third in barley and maize, fourth in bajra and sugarcane, while it produces considerable quantities of jawar, cotton, rice, rape, mustard and small quantities of tea, tobacco, groundnut and linseed. The production of cotton in the Punjab amounts to one-fifth of the total production of the country.

Production of foodgrains in 1956-57 : 5,473,000 tons.

In the former Punjab region the production of major foodgrains was 37·9 lakh tons in 1954-55 while that of cotton was 4·4 lakh bales. The production of paddy was 3·6 lakh tons.

In the former PEPSU region the production of foodgrains was 10·5 lakh tons in 1954-55, while that of sugarcane was 117,000 tons. The production of American and Desi Cotton was 135,000 bales and 93,000 bales respectively.

Productions of Principal Crops (1954-55) :

	Acreage	Output (tons)
Foodgrains		
Rice	654,199	373,200
Jawar	612,760	55,000
Bajra	2,454,384	251,500
Maize	958,108	439,900
Wheat	4,434,008	1,814,000*
Barley	617,161	226,000
Gram	5,885,643	1,954,000*
Cash Crops		
Potato	—	116,800*
Groundnuts	135,854	39,500
Sesame	68,492	7,100
Rape and Mustard	662,508	106,000
Linseed	28,599	2,500
Sugarcane	414,082	5,388,000*
Cotton American	828,823	490,700 (bales)
Cotton Desi	367,051	179,100 (bales)
Cotton (American and Desi)	—	800,000* (bales)
Rabi Oilseeds	—	111,000*

* Figures for 1956-57.

The following table shows targets of production for the First and Second Five-Year Plans for foodgrains and cotton :

Year	Punjab	PEPSU
A. *Foodgrains*	Tons	Tons
Base year : 1950-51	2,400,000	670,000
Targets of First Plan	3,200,000	845,000
Achievement : 1955-56	3,400,000	1,150,000
Targets of Second Plan	4,040,000	1,400,000
B. *Cotton*	Bales	Bales
Base Year : 1950-51	201,700	175,000
Targets of First Plan	300,000	255,000
Achievement : 1955-56	450,000	265,000
Targets of Second Plan	700,000	350,000

While the population of the new State is only 1,28th of the whole country, its contribution to increased production of cotton and foodgrains will be 1 5th and 1 15th, respectively during the Second Five-Year Plan period.

The Punjab Government has allocated substantial funds for creation of green belts against the advancing desert from Rajasthan. The construction of a net-work of canals and subcanals running into a total length of 3,500 miles has helped step up food production in the State.

The consumption of artificial fertilisers was stepped up to 75,000 tons in 1956-57. The target at the end of the Second Plan is expected to go up to 1,50,000 tons.

Besides 27 co-operative garden colonies, there are at present 550 co-operative farming societies in the Punjab. By the end of the Second Plan period, it is proposed to raise the number of co-operative societies to 850. The State Government has also set up a Land Mortgage Bank with its branches in all the districts for the benefit of farmers. The Second Plan provides for the establishment of 650 large-sized agricultural credit societies and 5,000 primary credit societies.

Animal Husbandry :

Number of veterinary hospitals and dispensaries : 411.

Number of veterinary outlying dispensaries : 765.

Community Development :

No. of Community Development Blocks	24
No. of N.E.S. Blocks	58
No. of N.E.S. Blocks to be opened in 1957-61	146
Rural population covered	58 lakhs *i.e.* 44·3 per cent.

LAND TENURE

Names of Tenancy Acts in force at present : The Punjab Occupancy Tenants (Vesting of Proprietary Rights) Act, 1952; The Punjab Abolition of Ala Malkiyat and Talukdari Rights Act, 1952 ; Punjab Security of Land Tenures Act, 1953 and Punjab Tenancy Act, 1887 ; Punjab Security of Land Tenures (Amendment) Act, 1955, PEPSU Occupancy Tenants (Vesting of Proprietary Rights) Act 1953, The Patiala and East Punjab States Abolition of Ala Malkiyat Rights Act, 1953, The Patiala and East Punjab States Union Tenancy and Agricultural Lands Act, 1953, The PEPSU Agricultural Tenant (Temporary Protection and Disability) Ordinance, 1954.

With the passage of the Punjab Occupancy Tenants (Vesting of Proprietary Rights) Act 1952, there are now no occupancy tenants except on evacuee lands. They became proprietors from 15th June, 1952 on payment of compensation to landlords in the Punjab region of the State.

Consequent upon the enforcement of the Punjab Security of Land Tenures Act, 1953, which came into force on the 15th April, 1953 tenants were divided into the following two classes : Tenants of landowners owning land above the permissible limit (30 standard acres or 60 ordinary acres) and tenants of landowners owning land below the permissible limit.

The permissible area has been fixed at 30 standard acres or 60 ordinary acres in case of locals ; and in case of displaced persons 50 standard acres or 100 ordinary acres for those who have been allotted 50 standard acres or more in lieu of land left in West Punjab, but to the extent of land allotted in case it is less than 50 standard acres and more than 30 standard acres ; but if allotted less than 30 standard acres then upto 30 standard acres including any land which such displaced person has in East Punjab.

The tenants of the former category have security of tenure for a period of 10 years from the date of the commencement of the tenancy or the date of the enforcement of the aforesaid Act whichever is later. The tenants of latter category are liable to ejectment after the 30th April 1954, upto which date no tenant is liable to ejectment.

There were a fairly large number of ejectments and an Ordinance was promulgated in October 1954.

The Government piloted an amending Bill in 1955 to tighten the provisions of the original Act further.

The amended Act empowered the Government to utilise the "surplus area" of both landowners and tenants for the resettlement of landless and ejected tenants. Under the Act, all areas above 30 standard acres owned by a local owner were considered "surplus." Further, a small owner who held land up to 30 standard acres could not eject a tenant from five standard acres unless the tenant was settled by the Government on the "surplus area." The amended Act also declared all sales, *bona fide* or otherwise, effected after January 1, 1955, illegal.

Landowners who were ever anxious to dodge the new laws failed to declare their "surplus areas," thereby compelling the Government to amend the Act again in the last budget session. A penal clause was introduced imposing both fines and imprisonment on defaulters.

The former PEPSU area is governed by another radical land law which lays down that ownership of all land in excess of the permissible ceiling of 30 standard acres shall vest in the State and compensation shall be payable by the State after its recovery from tenants when they assume proprietary rights. The PEPSU law provides for compensation amounting to 90 times the land revenue or Rs. 200 whichever is less and the Punjab law grants compensation upto three-fourths of the market value.

Consolidation of Holdings is an important problem. The total area to be consolidated in the Punjab and the PEPSU was 159 lakh acres and 60 lakh acres respectively. By the end of the First Five-Year Plan period, the consolidation of an area of 60 lakh acres had been completed.

The consolidation is expected to be completed by the end of the Second Five-Year Plan period at a total cost of Rs. 558·31 lakhs for areas in the former Punjab and of Rs. 221 lakhs in the former PEPSU.

A sum of Rs. 343 lakhs in the Punjab and Rs. 55·6 lakhs in PEPSU have already been spent on Community Development work upto the end of June 1956. People's participation including labour covered in terms of money amounts to Rs. 357½ lakhs in the Punjab and Rs. 81 lakhs in PEPSU upto the same period.

In the Second Five-Year Plan a further sum of Rs. 11 crores will be spent on this item.

Three soil conservation schemes namely : (i) Soil Conservation over Shivaliks, (ii) Afforestation of Bhakra Dam Catchment area and (iii) Desert Control are in operation in the underdeveloped areas of Kandaghat sub-division and Mahendragarh district.

Reserved, protected, unclassed and leased forests are located at Jullundur, Ludhiana, Hoshiarpur, Ferozepore, Kangra, Amritsar, Gurdaspur, Ambala, Karnal, Hissar, Rohtak, Gurgaon, Simla and Kandaghat Sub-division at Mahendragarh.

IRRIGATION

Total area irrigated : about 8,024,000 acres.

The Bhakra-Nangal Project is estimated to cost Rs. 174 crores. On completion it would provide irrigation for the first time to 3·8 million acres in the Punjab, 1 million acres in PEPSU and 9 lakh acres in Rajasthan, besides improving irrigation in about 8·5 million acres. The additional agricultural production is estimated at about Rs. 132 crores annually and nearly 4,00,000 kWs. of electric energy would be added to the State's power resources.

Full benefits of the Project will be available on its completion in 1960. However, schedules have been so arranged as to bring some measure of these benefits as each step of construction is completed.

After the completion of the Bhakra-Nangal Project, the total area to come under irrigation by the Bhakra Canal System consisting of 690 miles of main lines and branches and 2,100 miles of distributaries will be over 9 million acres.

The following table shows the year-wise figures of new acreage which will be irrigated by this Project :—

	Acres
1956-57	1,572,007
1957-58	1,644,608
1958-59	2,308,211
1959-60	2,654,965
1960-61	2,880,076
After completion	4,963,705

The project will also enhance supplies in Sirhind Canal from 9,040 cusecs to 12,500 cusecs at Ropar.

Beas River Project : It is proposed to harness the water of Beas River by taking out channel from the existing barrage on the river near Kapurthala and to irrigate about 40,000 acres of land. The revised cost of the project is Rs. 11·06 lakhs excluding the cost of the existing barrage. The flow channels have started irrigation.

Dadri Irrigation Scheme : 1,794 cusecs of supply will be released from the Hansi branch of Western Jumna Canal and this supply will be used for extension and improvement of irrigation. A part of this supply will be used for improving and extending irrigation in Jhajjar District and a part used for extending irrigation to Dadri Tahsil of the Mahendragarh District. The Dadri irrigation scheme will cost Rs. 59·5 lakhs and will bring an area of about 101,000 acres under command. They were opened for *kharif* irrigation during August 1955. The lining of channels would be completed during 1958.

Besides these and Harike and minor irrigation programme under the head 'agriculture schemes' a large number of other schemes also came to be undertaken during the First Five-Year Plan period.

Among these schemes were the construction of flood irrigation channels, the extension of irrigation on the Eastern Canal, and sinking of 978 tube-wells under the T.C.A. and G.M.I programme.

An additional area of 15 lakh acres is estimated to have been brought under irrigation as a result of all these schemes including area irrigated by Bhakra-Nangal Canals during 1951-56.

The implementation of all these schemes is estimated to bring 3,121,696 acres of more land under irrigation during the Second Five-Year Plan period. Thus out of a total cultivable area of 216 lakh acres in the new State, the Canal irrigated area will be 123½ lakh acres as against 64·03 lakh acres in 1950-51 and 92·28 lakh acres in 1955-56.

ELECTRIC POWER

No. of electric power stations : 44 · Installed capacity : 82,542 kW ; Energy generated 228·473 million kWh.

The main sources of electric supply in the State are (1) Uhl River Hydro-Electric Scheme where four sets of 12,000 kW. each, including one stand-by, are installed, (2) The Ganguwal Power House with 3 units of 24,000 kW each out of which at present two are working, (3) The Kotla Power House with 3 units of 24,000 kW out of which 1 is working at present and (4) a number of Government and private thermal electric supply stations at various places. Nine more generating units of 90,000 kW each are scheduled to be installed at the site of the Bhakra Dam.

Provision of electricity, particularly in the rural areas, for industrial and domestic uses was one of the main items on the development programmes in Punjab. Electricity has already been made available to about 42 43 lakh persons i.e. 28·8 per cent of the total population in the new State of which the rural population forms 10 to 12 per cent.

During the Second Five-Year Plan this percentage will rise to 50.

The per capita annual consumption of electricity at present in these areas is 10 kW and is estimated to rise to 50 kWs by the end of the Second Five-Year Plan period.

In the former Punjab area 30 towns and villages each having a population of 20,000 and above were electrified ; majority of 31 towns and villages each with a population of 10,000 to 20,000 was electrified ; 1,000 out of 15,216 towns and villages each with a population below 10,000 were electrified and another 4,000 will be electrified during the Second Five-Year Plan.

In PEPSU region, the number of towns receiving electric supply is 39 as against 13 in 1950-51. With the availability of more power from Bhakra-Nangal Project, 22 more towns in this part of the new State will get electrified during the Second Five-Year Plan period. Besides another scheme for electrifying 15 towns, not included under Bhakra-Nangal Sub-Project has been chalked out. Sufficient provision also exists in the Five-Year Plan for the electrification of 700 villages and energising 300 tube-wells, in addition to 360 tube-wells already electrified.

TRANSPORT

During the first Five-Year Plan Rs. 659 lakh were spent under this head in the Punjab region and Rs. 198·2 lakhs in PEPSU region. This helped construction of 1,513 miles of metalled road in Punjab and 231 miles in PEPSU region of the new State. A programme for the construction of another 1,497 miles of roads in the Punjab at a cost of Rs. 1,496 lakhs and 669 miles in

PEPSU has already been drawn up. Thus by the end of the Second Five-Year Plan there will be 7,092 miles of metalled roads in the new State of Punjab.

Besides this, National Highways and inter-State roads are also being developed under the Central Road Programme. Out of an outlay of Rs. 165 crores for all the States, Rs. 7·76 crores (gross Rs. 7·93 crores) are being spent for development of Highways in Punjab.

Development of village communications in the State has also made progress. Under the Community Development Programme about 200 miles of pucca roads have already been constructed. Although no provision for development of road transport could be made in the Punjab's First Five-Year Plan, yet a sum of Rs. 293 lakhs was spent on non-Plan development schemes during that period. The programme for nationalisation of passenger transport was carried out on restricted basis.

Government Transport Services in the Punjab region are at present operating on 77 routes with a fleet of 256 vehicles.

Government has plans to take over 50 per cent of all pucca routes, leaving 50 per cent to private operators. This scheme has been enforced in pursuance of an agreement between private operators and State Transport Department in 1957. The agreement will last for 10 years.

In PEPSU region of the State, the policy of gradual and phased nationalisation of transport was given practical shape on January 5, 1955 when 12 Government buses started operating on 8 routes all emanating from Patiala. Under the Second Five-Year Plan in this region of the State, road transport will be completely nationalised on the existing pucca routes and also on roads to be constructed. The number of such routes will be 29. These routes are operated by PEPSU Road Transport Corporation which was set up in partnership with the railways in 1956.

Total number of aerodromes: 2 (One owned by the Government and the other at Faridkot by the Maharaja of Faridkot).

The statistics of vehicles registered with the Department (PEPSU):—

	Cars.	Motor Cycles.	Trucks.	Tractors.	Buses.
For private use	1,610	459	110	980	..
Public vehicles	19	..	724	..	894
Departmental Vehicles ..	200	5	80	35	..
Belonging to Royal Families	97	2	8	14	3

Transport has not been nationalised in this area, but buses of the Government-owned Roadways run on certain routes in competition with those privately operated. The former State Government announced that it was committed to gradual nationalisation. In January 1950 it set up a four-member (all officials) Road Transport Corporation and declared that the objective was to nationalise road transport by 1955-56.

A Transport Authority was also constituted.

LABOUR

Number of registered Factories: 2,573.

Number of workers: 80,000.

Labour Welfare: During the first Plan period, Rs 104 lakhs were spent by the State Government on various welfare schemes.

The Punjab Trade Employees Act now stands extended to 103 towns in the Punjab.

A scheme to open labour Welfare Centres at six places of industrial concentration was launched in the State with a view to providing educative and recreational facilities to workers and their families. Accordingly, six such centres were opened at Ambala Cantt., Ludhiana, Jullundur, Amritsar, Jagadhri and Batala. A similar centre for the welfare of the plantation labour was also set up at Palampur in the Kangra District.

Under the subsidised Industrial Housing scheme, the construction of 200 houses, at Amritsar and 124 at Ludhiana has been completed. In the year 1955-56, a sum of Rs. 54 lakhs was provided for the construction of houses under these schemes. 1,700 houses for labour in all were constructed by the end of the Plan period.

Employees' Provident Fund scheme has also been enforced in the State and about 150 factories are covered by it. About 16,000 workers employed in these factories at present benefit from this scheme.

Employees' State Insurance Scheme also came to be enforced in 1956 in seven centres covering about 35,000 workers. Since then the number of workers insured has risen to 64,000. Additional facilities have also been provided with effect from the year 1956-56.

The Punjab Government have recently enacted legislation known as Commercial Establishments Bill. The bill confers on shops assistants and workers in all commercial establishments including newspapers and news-agency offices statutory rights with respect to earned leave, weekly holiday, minimum working hours etc. Workers in all commercial establishments will not be required to work for more than 10 hours a day with two hours rest in the afternoon.

Position in the former Punjab area:

Names of industries in which a minimum wage is fixed:

Shawl weaving establishments; Rice mill, flour mill or dal mill; Tea plantations, Oil mills, Inferior employees under local authorities; Public Motor Transport; Tanneries and Agriculture.

No. of workers benefited by the enforcement of Minimum Wages Act: about 30,000.

Average monthly earnings: about Rs. 65-8-0.

Position in the former PEPSU area:

Under the Minimum Wages Act, 1948, the Government fixed minimum rates of wages for workers employed, in stone-breaking or stone-crushing, under any local authority, in any oil mill, in road construction or in building operation, in Public Motor Transport, in any rice mill or dal mill and in agriculture.

EDUCATION

1955-56 No. of primary and Basic Schools: 12,609; of Middle Schools: 1,001; of High Schools: 986; of Arts and Science Colleges: 73; of Professional Colleges: 24.

No. of students (boys and girls) receiving education in Schools and Colleges (1957-58): 17.5 lakhs.

Total number of institutions: 15,918.

The State Budget in the Punjab for education was Rs. 545 lakhs for 1956-57 and the PEPSU Rs. 163 lakhs.

The aim of the Second Plan is to bring to schools 60 to 65 per cent of the children in the age-group 6—11 and 37½ per cent in the age-group 11-14. Ten per cent of the elementary schools will be converted into the basic type, while there will be a substantial expansion in other fields in the form of conversion of high schools into the multi-purpose type.

Technical institutions will also be expanded so as to raise the admission from 40 to 105 in the Engineering College, Chandigarh; from 40 to 60 in the Veterinary College, Hissar; from 50 to 100 in the Agricultural College, Ludhiana, and from 80 to 100 in the Medical College, Amritsar.

In addition, there are schemes for the re-organisation of Industrial Schools, and the expansion of Training Centres at a cost of Rs. 1·4 crores, the establishment of two Polytechnic and Printing Technology Institutes, the establishment of a Polytechnic at Patiala and 2 junior technical schools at a cost of Rs. 8 lakhs. Provision has also been made in the Plan to subsidize the establishment of an Institute of Engineering and Technology at Patiala.

The State expenditure on education has shown a sharp upward trend and the budgetary figure for 1958-59 stands at Rs. 8.10.50,000 as compared to the previous year's budget of Rs. 7,46,19,200.

The Government has decided to introduce free and compulsory education in all Government-owned schools upto the Matriculation stage. The scheme for free education has so far been introduced upto sixth class.

On October 1, 1957 the State Government decided to provincialise Local Body and District Board Schools throughout the State with a view to ameliorating the lot of teachers employed by local bodies and also effecting improvement in the standard of education. The decision affected 30,000 Board teachers and 10,000 local body schools.

The pay-scales were revised and brought in line with those of teachers already working in Government Schools. The provincialisation of local body Schools involved an expenditure of more than Rs. 4 crores.

(For other particulars about education see the tables given in the article on Education. The addition of the figures for the Punjab and the PEPSU will give the figures for the present Punjab).

HEALTH

Hospitals and dispensaries: 871; Number of beds: 9,494; Maternity & Child Welfare Centres: 144.

T.B Hospitals: Amritsar, Chetru (Kangra), Jullundur, Tanda, and T.B. Clinics at Dharamsalpur, Sangrur, Ka-auli and one each at district headquarters in the Punjab.

Medical & Dental Colleges: Three Medical Colleges at Amritsar, Ludhiana and Patiala, and one Dental College at Amritsar.

During the First Plan period

(1) Fourteen Hospitals were modernised;

(2) Ten Hospitals and 177 Dispensaries were taken over under the control of the State;

(3) Eight new hospitals, 13 subsidised dispensaries and 65 Ayurvedic dispensaries were opened;

(4) A Sanatorium was established at Tanda for 200 indoor patients. Rs. 4·10 lakhs were distributed as grants to T.B. clinics which now number 12—one at every district headquarters;

(5) Before 1951, there were only 188 beds available for T.B. patients. This number has now increased to 430;

(6) Water supply and drainage scheme was extended to 18 towns and 52 rural units;

(7) There was a reduction of malaria cases from 6·8 lakhs in 1950 to 3·8 lakhs in 1954;

(8) Construction of new premises for Rajindra Hospital at Patiala with provision for 500 beds;

(9) Opening of new Hospitals at Dadri, Gobindgarh, Nabha and Bhatinda;

(10) T.B. Clinics at Sangrur; and

(11) Expansion of the T.B. Clinic, Dharampur and the Civil Hospital, Bhatinda.

The three medical colleges in the State, are the Glancy Medical College, Amritsar, the Women's Christian Medical College, Ludhiana and the Medical College at Patiala.

In the Second Five-Year Plan period a sum of Rs. 963½ lakhs will be spent in the State on health plans. Out of this, a sum of Rs. 400 lakhs will be for water supply, drainage and sanitation schemes in the rural areas.

With the establishment of 36 more primary Health Units in the rural areas (with provision for maternity and child Welfare service at these units) and of 200 Ayurvedic Dispensaries, the further nationalisation of dispensaries, the expansion of the tuberculosis clinics and the B.C.G. campaign, it is calculated that at the end of the Second Plan, medical relief will be available for every village within a five-mile radius. The number of beds in the various hospitals of the State is also expected to increase to 9,996.

The Five-Year Plan for the former PEPSU provides for the opening of a Dental College, a Mental Hospital, and a T.B. clinic at Narnaul with 18 beds, a V.D. clinic at Dharampur, a Civil Hospital at Dhuri, four hospitals for women at Narwana, Barnala, Sunam and Bassi and the extension of some existing hospitals. There is also a provision for the opening of 90 rural medical centres.

Six re-organised B.C.G. teams are now functioning and two more such teams are being appointed. During the first four years of the Plan, 47,13,789 persons were tuberculin tested and 13,40,005 persons B.C.G. vaccinated.

In order to improve the existing water supply and to provide drainage for the removal of sullage water in urban and rural areas, grants to the extent of Rs. 12,00,000 (Rs. 8,00,000 for urban and Rs. 4,00,000 for rural schemes) were paid to the Local Bodies in the State during the first four years of the Plan. A sum of Rs. 10,00,000 is provided for disbursement during 1957-58. Under this arrangement water-supply and drainage schemes of 18 towns and 52 water-supply schemes of rural areas (excluding minor sanitary works in Panchayat villages) were financed.

Anti-Malaria measures: The Punjab State participated in the National Malaria Control Programme initiated by the Government of India. As a result of intensive anti-malaria measures under this programme about 34,00,000 people have so far been protected against malaria.

The Anti-Venereal Disease Team functioning in Kangra District with headquarters at Kulu, has already screened as many as 19,107 persons and has treated positive cases.

32 Maternity and Child Welfare Centres were opened during the First Plan of which 10 are maintained by the State. A grant-in-aid of Rs. 7,000 is being distributed every year in the Local Bodies for the extension of Maternity & Child Welfare Services.

Position in the former Punjab:

Total no. of hospitals and dispensaries: 657 (1955-56).

Number of beds in these hospitals: 8,775.

Medical aid is provided to about 60 lakh persons every year in these hospitals and dispensaries.

Number of hospitals exclusively reserved for women: 31. Number of beds: 1,167.

Number of maternity and child welfare centres: 104.

Number of District Board and Municipal dispensaries and hospitals: 258; Subsidised: 98; Private: 61.

The following figures are for 1954 unless otherwise stated:

Number of allopathic Hospitals and Dispensaries: Urban Hospitals 103; Rural Hospitals 10; Urban Dispensaries 115; Rural Dispensaries 344.

Total number of beds in allopathic Hospitals and Dispensaries: 6,443.

Number of Special Hospitals with the number of beds in each within brackets: Tuberculosis 2 (188); Dental Diseases 1; Eye Diseases 2 (470); Leprosy 3 (442); Mental Diseases 1 (500).

Total number of Ayurvedic and Unani Doctors: 17,872; Nurses: 1,186; Dais: 2,780; Compounders: 2,491.

Position in the former PEPSU:

Number of allopathic hospitals (1955): 49.

Number of allopathic dispensaries: 104 (Urban 35; Rural 69).

Total number of beds in allopathic hospitals and dispensaries (1955): 1,643.

Number of Ayurvedic and Unani dispensaries: 52 (1953).

Total number of allopathic doctors and compounders (1955): Doctors: 251 (men 217; women 34); Compounders: 314 (men 283; women 31); Male nurses: 12; Female nurses: 83.

CO-OPERATION

Total No. of societies (1955-56): 10,917; Total membership: 875,326; Working capital: Rs. 23·85 crores.

Some particulars about co-operation in the former Punjab area for March 1955 are given below:

Total number of societies: about 16,000; Total working capital: about Rs. 16 crores; Share capital of Provincial Co-operative Bank: Rs. 26·55 lakhs; Share capital of District Central Co-operative Banks: Rs. 9 lakhs each.

Particulars relating to the former PEPSU area are given below:

Total number of registered co-operative societies at the end of June 1955: 2,795.

Total membership of co-operative societies: 89,087.

Total working capital: Rs. 2·46 crores.

Types of each society and number of each type PEPSU State Co-operative Bank Ltd.: 1, Central Banks: 8; Banking Unions: 10; Central Grain Dealers' Syndicate: 1; Industrial Unions: 4; Agricultural Credit Societies: 1,691; Agri. Non-Credit: 301, Non-Agri. Credit: 448; Non-Agri. Non-Credit: 331.

FIVE-YEAR PLANS

PUNJAB'S First Five-Year Plan (1950-51 to 1955-56) as finally accepted by the Planning Commission envisaged an expenditure of Rs. 33·86 crores out of which Rs. 33·72 crores were spent by the end of the year 1955-56. Expenditure on the First Five-Year Plan in erstwhile PEPSU amounted to Rs. 9.03 crores against a provision of Rs. 9.20 crores.

In addition to the First Five-Year Plan, in the Punjab before integration, development expenditure amounting to Rs. 90·64 crores was also incurred on several Centrally-sponsored schemes such as Bhakra-Nangal and Community Projects (Rs. 82·12 crores) and on purely State schemes (Rs. 8·52 crores).

In PEPSU some schemes of local development work such as paving of streets, construction of pucca drains, repairs of drinking wells and school buildings, public sanitary latrines, construction of drains and culverts, village roads etc., were also undertaken besides the Five-Year Plan projects.

The Central Government contributed 50 per cent of the expenditure on these schemes while the State Government and the local inhabitants shared 25 per cent each. Including the expenditure on Community Development work in erstwhile PEPSU which amounted to about Rs. 50 lakhs, the total net cost on various schemes executed during the First Five-Year Plan period came to Rs. 133·89 crores.

During the Second Five-Year Plan a net expenditure of Rs. 162·43 crores will be incurred as per details given below:-

	Main Heads	Rs. in lakhs	
		Punjab region	PEPSU region
I.	Agriculture and Rural Development except Community Projects	1,240·19	677·35
II.	Community Projects and N.E.S. Blocks	931·00	169·10
III.	Irrigation and Power	5,722·65	1,482·00
IV.	Industries	712·50	180·00
V.	Transport and Communications	832·00	285·95
VI.	Social Services (other than Education and Health) ..	750·29	176·70
VII.	Education	1,187·50	297·33
VIII.	Health	665·00	298·50
IX.	Chandigarh Capital	446·50	..
X.	Miscellaneous including Publicity and Development of Mandis in Bhakra-Nangal areas	147·01	31·35
	Total ..	12,634·64	3,608·28

In formulating the Second Five-Year Plan not only is provision made for the completion of such Projects as were started in the First Plan, but adequate funds have also been provided for the development of Industries, Transport, Communications, Health and Education.

It is hoped that by 1960-61, 31·22 lakh acres of more land will be irrigated by the canal system and other major schemes. This will result in an enormous increase in the agricultural production. The addition in foodgrains will be 9·9 lakh tons, in cotton 3·45 lakh bales, sugarcane 1·1 lakh tons and oil seeds 14,000 tons over the 1955-56 figures. On the electricity side, it is proposed to construct further generating units to achieve a generating capacity of 98,29,000 KWh. The benefits of electricity will be extended to the rural area covering 4,000 to 5,000 additional villages in the Punjab region and 700 villages in PEPSU. The per capita consumption of electricity in the Punjab is now 10 KWh. This is expected to rise to 50 KWh. by 1960-61.

Along with the expansion of technical institutions, it is proposed during the Second Five-Year Plan to give elementary education to 60 to 65 per cent of the children in the age group 6-11 and 37½ per cent of the age group 11-14 as against the All India target of 60 per cent and 19 per cent respectively. Besides, ten per cent of the elementary schools will be converted to the basic type, while a substantial expansion will also be effected in the conversion of high schools to the multi-purpose type, in girls education, in training facilities and in social education.

With the establishment of more hospitals, dispensaries and health units in the rural areas and further nationalisation of dispensaries, it is anticipated that after the end of the Second Plan, medical relief will be available within a radius of five miles of every village.

The Second Plan provides for the construction of 1,457 miles of roads in the Punjab region and 600 miles in the PEPSU area.

With the establishment of 169 additional blocks during the Second Five-Year Plan the entire State will come under the Community Development Programme.

The Government phase of development of the Chandigarh Capital would also be completed during the Second Plan period. The revised estimated cost of the project is about Rs. 24 crores.

Colonization of Bhakra-Nangal Areas : Of the various subjects included under the head "Miscellaneous" the most important is the Colonization of the Bhakra-Nangal Areas. This seeks to establish marketing and factory facilities in the large-areas, which are to be irrigated, and will now produce a large surplus in places long used and limited to subsistence and famine production levels.

A sum of Rs. 7 lakhs was provided during the First Plan period while Rs. 178 lakhs have been earmarked for expenditure during the Second Plan.

Development of Scheduled Areas of Lahaul and Spiti: A beginning has been made, with Central Government assistance, to open up and develop the inaccessible scheduled areas of Lahaul and Spiti. This will pave the way for more rapid development. A sum of Rs. 30 lakhs is to be spent under this head during the Plan period.

Publicity : Under this item a sum of Rs. eight lakhs is to be spent under the head "Central Schemes". Six hundred community listening sets have been installed and another 2,300 sets are expected to be received during 1958-59.

BUDGET (1958-59)

Revenue receipts : Rs. 47·81 crores.
Revenue expenditure : Rs. 49·89 crores.
Deficit : Rs. 2·08 crores.

DISPLACED PERSONS

Every fifth individual in the former Punjab area is a displaced person ; the 1951 Census puts the figure of emigrants from Pakistan who have settled in this area at 2,375,097 out of a total population of 12,641,205. Displaced land-owners from West Pakistan were immediately put on the evacuee land left by Muslims in this part of the Punjab. There was a big gap between the available agricultural evacuee area—47,35,310 ordinary acres in Punjab and PEPSU—and the land abandoned by Indian nationals—67,29,050 ordinary acres—in West Pakistan. This gap was covered by adopting a scheme of graded cuts.

Resettlement of displaced persons is now complete and the Relief and Rehabilitation Department of the State Government, set up to deal with this, is in the ultimate stages of being wound up (March 1958).

Over 40 lakhs of people are now satisfactorily resettled, either with permanent rights on land or running small and medium scale industries or undergoing training in various vocational and technical institutions.

The entire work of resettlement in the rural areas is expected to be completed during the course of 1958.

About three lakh land allottees have so far been conferred permanent rights and substantial progress has been made in the allotment of rural houses.

On the urban side almost the entire work has been accomplished, a number of townships have been set up where displaced persons have been resettled and gainfully employed.

The Government is now setting up medium, small and cottage industries in these townships. A sum of Rs. 11.17 lakhs has been allocated for 1958-59 for this purpose. Another sum of Rs. 15 lakhs has been earmarked for giving loans for industrial rehabilitation.

The Government is maintaining homes for taking care of destitute women, and infirmaries for the old age. Incapacitated orphans are being maintained in schools and free treatment is being provided to tuberculosis patients.

An aggregate amount of a little over Rs. five crores has been paid so far either in cash or in the form of allotment of evacuee or Government owned immovable property on quasi-permanent basis.

PUNJAB UNIVERSITY

Chandigarh Capital.

VICE-CHANCELLOR

Dr. A. C. Joshi, D.Sc., F.N.I.

REGISTRAR

J. R. Agnihotri, M.A. (Pb.), B.A. (Hons.) (Oxon.), Bar-at-Law.

This is an Affiliating, Teaching and Examining University.

Subjects where provision exists for post-graduate and research: English, Economics, Zoology, Physics, Chemistry, Technical Chemistry, History, Botany, Mathematics, Hindi, Sanskrit, Punjabi, Urdu, Persian, Psychology, Philosophy and Political Science.

Number of colleges affiliated : 116.

Total number of students as on 31st March 1957 (Affiliated Colleges and University Teaching Departments): 50,166.

LIST OF COLLEGES

Punjab University Camp College, New Delhi.
Punjab University College, Hoshiarpur.
Punjab University College of Commerce, Jullundur City.
Punjab University Law College, Jullundur City.
Ahir College, Rewari.
A.I. Jat H.M. College, Rohtak.
Arya College, Ludhiana.
Arya College, Panipat.
A. S. College, Kalalmajra, Khanna.
Baring Union Christian College, Batala.
B. M. College, Simla.
Brijindra College, Faridkot.
Chhotu Ram College of Education, Rohtak.
Chhotu Ram Arya College, Sonepat.
Christian Medical College, Ludhiana.
D. A. V. College, Ambala City.
D. A. V. College, Amritsar.
D. A. V. College, Hoshiarpur.
D. A. V. College, Jullundur.
Dayanand College, Hissar.
Dyal Singh College, Karnal.
Dairy Science College, Karnal.
Dental College, Amritsar.
Dental College, Patiala.
Dev Samaj College for Girls, Ambala City.
Dev Samaj College for Women, Ferozepore City.
D. M. College, Moga.
Doaba College, Jullundur City.
Dronacharya S. D. College, Gurgaon.
Fateh Chand College for Women, Hissar.
G. H. G. Khalsa College, Gurusar Sadhar.
G. H. G. Khalsa Training College, Gurusar, Sadhar.
G. M. N. College, Ambala Cantt.
G. G. N. Khalsa College, Ludhiana.
Govt. Bikram College of Commerce, Patiala.
Govt. College, Chandigarh.
Govt. College for Women, Chandigarh.
Govt. Post-Graduate Basic Training College, Chandigarh.
Govt. College, Dharamsala.
Govt. College for Women, Amritsar.
Govt. Post-Graduate Basic Training College, Dharamsala.
Govt. College, Gurdaspur.
Govt. College for Women, Ludhiana.
Govt. Training College for Teachers, Jullundur City.
Govt. College, Hissar.
Govt. College, Ludhiana.
Govt. College, Malerkotla.
Govt. College, Muktsar.
Govt. College, Narnaul.
Govt. College, Rohtak.
Govt. College, Rupar.
Govt. College of Physical Education, Rupar.
Govt. College, Tanda Urmar.
Govt. Agricultural College, Ludhiana.
Govt. Intermediate College, Bilaspur.
Govt. College for Women, Patiala.
Govt. Training College for Women, Simla.
Guru Nanak College, Mandi Dabwali.
Guru Nanak Engineering College, Ludhiana.
Hans Raj Mahila Mahavidyalaya, Jullundur.
Hindu National College, Hariana.
Hindu College, Amritsar.
Hindu College, Sonepat.
J. S. D. Basic Training College, Baijnath.
Kanya Mahavidyalaya, Jullundur.
Khalsa College, Amritsar.
Khalsa College for Women, Sidhwan Khurd.
Khalsa Basic Training College for Women, Sidhwan Khurd.
Khalsa College, Nangal Amlira.
K. M. Post-Graduate Basic Training College, Bhiwani.
Khalsa Training College, Muktsar.
Lyallpur Khalsa College, Jullundur City.
Mahendra College, Patiala.
Malwa Training College, Ludhiana.
Medical College, Amritsar.
Medical College, Patiala.
M. R. College, Fazilka.
Montgomery G. N. Basic Training College, Jullundur.
Mukand Lal National College, Yamuna Nagar.
National College, Sathiala.
National College, Sirsa.
Punjab Engineering College, Chandigarh.
Punjab College of Veterinary Science and Animal Husbandry, Hissar.
Radha Krishna Arya College, Nawanshahar, Doaba.
Ranbir College, Sangrur.
Ranbir College for Women, Sangrur.
Ramgarhia College, Phagwara.
Ramgarhia Training College, Phagwara.
Rajindra College, Bhatinda.
R. K. S. D. College, Kaithal.
Randhir College, Kapurthala.
Ripudaman College, Nabha.
R. S. D. College, Ferozepur City.
Saraswati Training College for Women, Amritsar.
S. A. Jain College, Ambala City.
S. A. Jain College, Malerkotla.
S. D. College, Ambala Cantt.
S. D. College, Barnala.
S. D. College, Hoshiarpur.
S. D. College, Palwal.
S. D. College, Simla.
Shri Guru Ram Rai Degree College, Nahan.
Shri Saraswati Sanskrit College, Khanna.
Sikh National College, Banga.
Sikh National College, Qadian.
S. G. G. S. Khalsa College, Mahilpur.
S. M. D. R. S. D. College, Pathankot.
State College of Education, Patiala.
Sohan Lal Training College, Ambala City.
S. S. N. Arya College, Raman Mandi.
Technological Institute of Textiles, Bhiwani.
Thapar Institute of Engineering and Technology, Patiala.
Vaish College, Bhiwani.
Vaish College, Rohtak.
Vallabh Mahavidyalaya, Mandi.
Yadvindra College, Patiala.

PUNJAB FINANCIAL CORPORATION

(475, Model Town, Jullundur City.)

Established 1st Feb., 1953. The repayment of principal and payment of dividend at 3 per cent per annum is guaranteed by the State Government. The Corporation is intended primarily to supply the requirements of industries for block capital.

Total funds available : Over Rs. two crores ; Total loans advanced upto March 31, 1958 : Rs. 91,81,400 ; Amount repaid upto March 31, 1958 : Rs. 16,46,983.74 ; Total amount of loans for which applications were received upto March 31, 1958 : Rs. 4,01,46,500 ; Total amount of loans sanctioned upto March 31, 1958 : Rs. 1,46,53,000 (excluding loans declined, reduced or cancelled).

Income (April 1, 1957 to March 31, 1958) ; Rs. 6,56,030.94) ; Expenses : Rs. 2,76,524.95 ; Profit : Rs. 3,79,505.99.

Chairman, Board of Directors, S. R. Varma, I.A.S. ; *Managing Director*, H. L. Bahl ; *Secretary*, M. S. Rana ; *Accountants*, T. L. Khurana, B. L. Sawani.

ADMINISTRATIVE PERSONNEL

(See under 'States Administrative Personnel')

PUNJAB LEGISLATIVE COUNCIL

(See under 'General Elections')

PUNJAB LEGISLATIVE ASSEMBLY

(See under 'General Elections')

SHIROMANI GURDWARA PARBANDHAK COMMITTEE, AMRITSAR

(Teja Singh Samundri Hall, Amritsar.)

The Shiromani Gurdwara Parbandhak Committee is constituted under the provisions of the Sikh Gurdwaras Act, 1925 (Punjab Act VIII of 1925). It consists of:

(i) 132 elected members;

(ii) Head Priests of Darbar Sahib, Amritsar and the following four Takhats:—(a) Sri Akal Takhat Sahib, Amritsar; (b) Sri Takhat Keagarh Sahib, Anandpur; (c) Sri Takhat Patna Sahib, Patna; and (d) Sri Takhat Hazur Sahib, Nanded (Bombay).

(iii) 25 members co-opted by the above mentioned 137 members. Out of these co-opted members at least 12 members are co-opted from the area covered by the former PEPSU State and not more than four members from the area covered by the former Punjab.

Every Sikh man or woman, more than 21 years of age, who resides in the Punjab is entitled to have his name registered on the electoral roll of a constituency formed for the election of a member or members of the board provided he does not trim or shave his beard or Keshas except in case of Sehajdhari Sikh and does not smoke or take alcoholic drinks. Every voter is eligible for election provided he is not of unsound mind, is not an undischarged insolvent, is not an apostate from the Sikh religion, does not take alcoholic drinks, is not a Minister of a Notified Sikh Gurdwara, other than mentioned above in clause (ii), is not a paid servant of any Notified Sikh Gurdwara, being a Keshadhari Sikh is not an Amritdhari and can read and write Gurmukhi.

Elections to the Shiromani Gurdwara Parbandhak Committee are held every five years. Dates for the elections are fixed by the State Government and the preparation of electoral rolls and other arrangements are also made by the state Government.

The Shiromani Gurdwara Parbandhak Committee directly manages some of the important and historic Sikh Gurdwaras situated within the Punjab. All the above mentioned Gurdwaras are administered by a Committee of Management consisting of five members of whom four are elected by the voters of the constituency concerned and one member is nominated by the Shiromani Gurdwara Parbandhak Committee. The S.G.P.C. supervises the affairs of these Gurdwaras.

A Judicial Commission is also constituted under the provisions of the Sikh Gurdwaras Act to settle disputes regarding the management of the Gurdwaras. This commission has the same powers as are vested in a Court by the Code of Civil Procedure, and the Commission has unlimited jurisdiction as regards the value of the suits throughout the Punjab.

Under the provisions of the Sikh Gurdwaras Act, the S.G.P.C. and the Gurdwaras under its control and supervision can spend their funds for religious, charitable, educational or industrial purposes and also for such non-political purposes as are connected with the general uplift and welfare of the Sikhs. Its accounts are annually audited by the Auditors appointed by the State Government.

In the last Gurdwara elections, out of 132 elected members 110 members were elected on the ticket of the Shiromani Akali Dal, four members on the ticket of the Khalsa Dal i.e. Congress Sikhs and 18 on the ticket of the Desh Bhagat Board, i.e. Communist.

The S.G.P.C. manages about 500 Gurdwaras in the Punjab. Before partition there were about 750 Gurdwaras under the S.G.P.C.

The S.G.P.C. also runs an Arts College, an Industrial College and School and, several High Schools, hospitals, and libraries.

Master Tara Singh was unanimously elected President at the annual meeting held in November, 1966.

Office Bearers:—

Master Tara Singh (*President*); Bawa Harkishan Singh (*Senior Vice-President*); S. Kirpal Singh (*Junior Vice-President*); S. Prem Singh Lalpura (*General Secretary*).

Members:—

S. Amar Singh Dosanjh, S. Gurbax Singh Morinda, S. Shingara Singh, S. Sampuran Singh Raman, S. Gurbax Singh Katani, S. Mohinder Singh Sainwala, S. Jasbir Singh, Hissar, S. Gurbax Singh, B.A., B.T., S. Mohan Singh Mahawa, Prof. Waryam Singh, S. Bakhtawar Singh.

ASSOCIATIONS Etc.

AUTOMOBILE ASSOCIATION OF UPPER INDIA

10, Alexandar Road, Ambala Cantt.

President of the Committee: Maj. General Thakur Maha Deo Singh.

ENGINEERING ASSOCIATION OF NORTHERN INDIA

G.T. Road, Batala. Distt. Gurdaspur.

President: S. Rawail Singh; *Vice-Presidents:* K. L. Malhotra; P. L. Modgil, *Secretary:* G. C. Taxali.

THE FACTORIES' ASSOCIATION

Railway Road, Batala.

President: Atma Singh; *General Secretary:* Kharaiti Ram Sarin; *Financial Secretary:* Dharam Paul Goel.

FARIDABAD INDUSTRIES ASSOCIATION

Township, Faridabad.

President: K. K. Sharma; *Vice-President:* S. K. Bhargava; *Hon. General Secretary:* N. Balasundaram.

FEDERATION OF SPORTS INDUSTRIES

108–115, Industrial Town, Jullundur.

President: S. Balwant Singh Ahluwalia; *Vice-President:* Ishar Dass Mahajan; *Secretary:* M. R. Kohli.

GOVERNMENT HOSIERY INSTITUTE

Fort, Ludhiana.

Principal: N. N. Basu, Chartered Textile Technologist, A.T.I. (Manchester), F.T.C. (City & Guilds, London), A.N.C.H.T. (Board of Education, England).

HOSIERY MACHINE MANUFACTURERS ASSOCIATION

Miller Ganj, G. T. Road, Ludhiana.

President: S. Chanan Singh; *Vice-President:* S. Gurdial Singh; *Secretary:* R. C. Khanna.

INDIAN CHAMBER OF COMMERCE

116-B, Alexander Road, Ambala Cantt.

JULLUNDUR RADIO MERCHANT'S ASSOCIATION

Railway Road, Jullundur City.

President: Sohan Singh; *Vice-President:* Raj Pal; *Secretary:* Hardit Singh.

KAPURTHALA INDUSTRIES ASSOCIATION

Factory Area, Kapurthala.

President: S. S. Khosla; *Secretary:* K. N. Gupta.

THE KASAULI CLUB LTD.

Kasauli.

Chairman: Brigadier K. Bhagwati Singh; *Hony. Secretary:* Dr. A. T. Dadani.

LUDHIANA JOURNALISTS' ASSOCIATION

Civil Lines, Ludhiana.

President: R. Dhingra; *General Secretary:* H. S. Jolly.

THE LUDHIANA MACHINE TOOLS MAKERS GUILD

G.T. Road, Miller Ganj, Ludhiana.

President: Ashtar Singh; *Secretary:* R. C. Kapoor; *Cashier:* Jagir Singh.

THE LUDHIANA TEXTILE BOARD

Chauri Sarak, Ludhiana.

President: Dina Nath Agarwal; *Vice-President:* S. Sajjan Singh; *General Secretary:* Ram Swaroop Sahi.

LUMSDEN CLUB (REGD.)

Ram Bagh Gardens, Amritsar.

President: R. B. L. Parkash Chand Mehra *General Secretary:* Diwan C. Mehra; *Financial Secretary:* Sardar Mohan Singh Makkar.

NORTHERN INDIA CHAMBER OF COMMERCE

(Formerly Indian Chamber of Commerce), Ambala Cantt. (East Punjab).

The activities of the Chamber are spread over all spheres of commercial life of the Punjab, Himachal Pradesh and Delhi States. The Chamber is affiliated to the Federation of Indian Chambers of Commerce and Industry and is a member of the International Chamber of Commerce, Paris and the Indian Standards Institution.

President: Dr. Devraj Narang.

Vice-Presidents: S. Charanjit Singh, Satya Pal.

Hony. Secretary: H. S. Bajhaya.

PHAGWARA INDUSTRIES ASSOCIATION

G.T. Road, Phagwara (Kapurthala)

President: L. Bhagmal Handa; *Vice-President:* S. Pritam Singh; *Secretary:* Pt. Shanker

PUNJAB & DELHI CHAMBER OF COMMERCE

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RAJASTHAN STATE

Area : 132,077 sq. miles.
Population (1951 census) : 15,970,774.
Capital : Jaipur.

Rajasthan is divided into 5 divisions, 26 districts, 82 sub-divisions and 212 tehsils.

Names of Administrative divisions giving the names of districts (headquarters within brackets) in each division :

(1) *Bikaner Division*—Bikaner (Bikaner); Churu (Churu); Ganganagar (Ganganagar).

(2) *Ajmer Division*—Ajmer (Ajmer); Alwar (Alwar); Bharatpur (Bharatpur); Jaipur (Jaipur); Jhunjhunu (Jhunjhunu); Sawai Madhopur (Sawai Madhopur); Sikar (Sikar); Tonk (Tonk).

(3) *Jodhpur Division*.—Barmer (Barmer); Jaisalmer (Jaisalmer); Jalore (Jalore); Jodhpur (Jodhpur); Nagaur (Nagaur); Pali (Pali); Sirohi (Sirohi).

(4) *Kotah Division*.—Bundi (Bundi); Jhalawar (Jhalawar); Kotah (Kotah).

(5) *Udaipur Division*.—Banswara (Banswara); Bhilwara (Bhilwara); Chittorgarh (Chittorgarh); Dungarpur (Dungarpur); Udaipur (Udaipur).

No. of village panchayats 3,490; Town Municipalities 146; City Municipalities 5; District Boards 11; Corporation 1.

Rajasthani in its various dialects is spoken all over the State. The common language is Hindi.

Among castes and tribes in Rajasthan are the Brahmins, Jats, Mahajans, Chamars, Rajputs, Meenas, Gujars, Bhils, Malis or Kachhis and Balais.

BUDGET FOR 1958-59

Revenue Receipts :	Rs. 3,393·91 lakhs.
Revenue Expenditure :	„ 3,374.41 lakhs.
Surplus :	„ 19·50 lakhs.

DISTRICTS AND TEHSILS

Districts giving names of tehsils within brackets.

Ajmer District (Ajmer, Beawar, Kekri, Kishangarh, Rupgarh, Sarwar, Arai).

Alwar District (Alwar, Behror, Bansur, Laxmangarh, Rajgarh, Thanagazi, Kishangarh, Mandawar, Tijara).

Bharatpur District (Bharatpur, Payana, Rupwas, Weir, Nadbai, Deeg, Kaman, Nagar, Bari, Basseri, Gird (Dholpur) Rajakhera).

Jaipur District (Jaipur, Sanganer, Phagi, Chaksu, Amber, Jamwa-Ramgarh, Bairath, Kotputli, Phulera, Dudu, Baswa, Lalsot, Dausa, Sikrai).

Jhunjhunu District (Jhunjhunu, Girwa, Khetri, Udaipur).

Sawai Madhopur District (Bamanwas, Gangapur, Nadoti, Hindaun, Mahuwa, Toda-Bhim, Karauli, Sapotra, Khandar, Bonli (Malarna), Sawai Madhopur).

Sikar District (Neem-ka-thana, Sri Madhopur, Fatehpur, Laxmangarh, Sikar, Danta, Ramgarh).

Tonk District (Tonk, Aligarh, Niwai, Malpura, Toda-Raisingh, Duni).

Bikaner District (Bikaner, Lunkaransar, Magra (Kolayat), Nokha).

Churu District (Churu, Rajgarh, Taranagar, Dungargarh, Ratangarh, Sardarshahar, Sujangarh).

Ganganagar District (Ganganagar, Karanpur, Padampur, Anupgarh, Raisinghnagar, Sardulgarh, Suratgarh, Nohar, Bhadra).

Bundi District (Patan, Talera, Bundi, Nainwa, Hindoli).

Jhalawar District (Pachpahar, Dag, Gangdhar, Pirawa, Jhalrapatan, Aklera, Bakani, Khanpur, Manoharthana).

Kota District (Ladpura, Digod, Barod, Itawa, Pipalda, Baran, Mangrol, Anta, Kishanganj, Shahbad, Chechat, Ramganjmandi, Kanwas, Sangod, Chabra, Chipaborod, Atru).

Barmer District (Barmer, Chohtan, Sheo, Pachpadra, Siwana).

Jalore District (Jalore, Ahore, Jaswantpura Sanchore).

Jaisalmer District (Jaisalmer, Ramgarh, Sham, Fatehgarh, Pokaran, Nachna).

Jodhpur District (Bilara, Jodhpur, Shergarh, Osian, Phalodi).

Nagaur District (Nagaur, Jayal, Merta, Degana, Deedwana, Ladnu, Parbatsar, Nawa).

Sirohi District (Sirohi, Sheoganj, Pindawara, Reodar, Abu-Road).

Pali District (Bali, Desuri, Jaitaran, Raipur, Pali, Kharchi, Sojat).

Banswara District (Banswara, Garhi, Ghatole, Bagidora, Kushalgarh).

Bhilwara District (Bhilwara, Sahada, Raipur, Mandal, Panera, Madalgarh, Kotri, Shahpura, Jahazpur, Hurda, Asind).

Chittorgarh District (Chittorgarh, Gangrol, Rasmi, Kapasin, Begun, Bhensrorgarh, Partapgarh, Achnera, Nimbahera, Bhadesar, Dungla, Barisadri, Kanera, Chotisadri).

Dungarpur District (Dungarpur, Aspur, Sagwara).

Udaipur District (Girwa, Nathdwara, Gogunda, Rajsamand, Railmagra, Kumbhalgarh, Amet, Bhim, Devgarh, Phalasia, Kotra, Sarada, Salumber, Kherwada, Vallabhnagar, Mavli, Bhopalsagar, Lasadia).

DISTRICTS—AREA AND POPULATION

Names of Districts giving within brackets the area in square miles and population respectively (1951) :

Ajmer District (2,439; 693,372); Alwar District (3,126; 861,993); Bharatpur District (3,121; 907,399), Jaipur District (6,554, 1,656,097); Jhunjhunu District (2,322; 588,621); Sawai-Madhopur District (4,057, 765,172); Sikar District (3,021; 677,782); Tonk District (2,685; 400,947); Bikaner District (10,150; 330,329); Churu District (6,581; 523,276); Ganganagar District (5,159; 630,130); Bundi District (2,173, 280,518); Jhalawar District (2,143; 373,810); Kotah District (5,707, 766,198); Barmer District (9,734, 441,368); Jalore District (4,730; 459,467); Jaisalmer District (16,062; 102,743); Jodhpur District (9,024; 691,786); Nagaur District (6,767; 763,829); Sirohi District (1,705; 237,362); Pali District (4,673; 660,856); Banswara District (2,266; 356,559); Bhilwara District (3,758; 727,356); Chittorgarh District (3,182; 587,724); Dungarpur District (1,460; 308,243); Udaipur District (6,215; 1,191,232).

TEHSILS—AREA AND POPULATION

Tehsils giving area in square miles and population respectively within brackets.

Abu Road (304; 52,429); Achnera (225; 31,270); Ajmer (889; 382,227); Aklera (239; 41,106); Aligarh (158; 20,875); Alwar (705; 182,128); Amber (456; 129,546); Amet (176; 40,418); Antah (201; 31,581); Anupgarh (832; 27,673); Arain (337; 24,392); Arwar (142; 21,155); Asind (243; 48,069); Aspur (318; 63,871); Atru (330; 47,198).

Badnor (195; 33,802); Bagidora (332; 70,073); Bairath (504; 128,974); Bakani (220; 36,941); Bali (834; 154,294); Bamanwas (267; 48,809); Banera (268; 50,390); Bansur (256; 62,539); Banswara (443; 82,160); Bap (3,920; 32,886); Baran (204; 60,038); Bari (397; 110,737); Bari Sadri (162; 42,702); Barmer (5,670; 286,018); Barod (158; 24,311); Baseri (380; 63,324); Baswa (243; 92,061); Bayan (310; 72,232); Beawar (611; 177,411); Begun (360; 45,507); Behror (282; 108,602); Bhadesar (253; 47,006); Bhadra (469; 66,287); Bharatpur (371; 140,012); Bhawari (225; 28,768); Bhensrorgarh (347; 28,020); Bhilwara (302; 106,142); Bhim (223; 54,561); Bhopalsagar (263; 32,703); Bikaner (3,912; 194,864); Bilara (792; 106, 069); Bundi (316; 61,448).

Chaksu (371; 76,589); Chechat (145; 20,928); Chhabra (310; 40,727); Chhipa Barod (327; 45,621); Chhoti Sadri (264; 38,772); Chirawa (109; 31,175); Chittorgarh (204; 60,464); Churi Ajitgarh (93, 21,870); Churu (600; 83,097).

Dag (251; 35,747); Danta Ramgarh (500; 103,392); Dausa (406; 105,236); Deeg (193; 62,883), Deogarh (175; 37,362), Desuri (710; 109,660); Dholpur (232; 82,614); Didwana (1,159; 156,570), Digod (159, 25,581); Dungargarh (1,156, 51,743), Dungarpur (706, 144,569); Dungla (153; 42,194).

Fatehpur (260; 58,411).

Galhi (280; 67,369), Ganga Dhar (188; 32,511); Ganganagar (539; 132,567), Gangapur (258; 73,713); Gangrar (224; 46,928); Ghatol (805, 70,870).

Hanumangarh (1,147; 104,406); Hindaun (236; 90,918); Hindoli (452; 51,484), Hurda (237; 39,994).

Itawa (148; 21,271).

Jahazpur (405; 74,226); Jaipur (553; 425,216), Jaisalmer (3,620; 27,897); Jaitaran (860; 122,476); Jalore (1,552; 187,362); Jamwa-ramgarh (514; 107,716); Jaswantpura (1,360; 151,024); Jhalra Patan (259; 54,048); Jhunjhunu (1,373; 362,896); Jodhpur (2,870; 381,937).

Kaman (283; 83,958); Kanera (80; 7,152); Kanwas (289; 25,311); Kapasin (153; 46,128); Karanpur (317; 68,635); Karauli (482; 84,824); Kareda (221; 34,730), Kekri (938; 133,734); Khamnor (316; 95,091); Khandar (416; 37,213); Khanpur (317, 56,094); Kherwara (448; 67,758); Khetri (352; 81,244); Kishanganj (600, 35,601); Kishengarh (382; 52,428); Kolayat (Magra) (1,281; 23,541), Kot Kasim (69; 10,661); Kotputli (176; 65,410); Kotra (764; 44,133); Kotri (340; 60,442), Kumbhalgarh (320; 59,756); Kushalgarh (406; 66,087).

Lachhmangarh (449; 137,964); Lachhmangarh (465; 92,130); Lalpur (563; 120,068); Lalsot (336, 86,754), Lasadia (333; 55,632); Lateri (363, 30,462); Lunkaransar (3,135, 39,813).

Mahuwa (156; 63,546); Malarna (418; 67,942); Malpura (638; 75,490); Mandal (211; 46,014); Mandalgarh (556, 74,598); Mandrail (208; 20,105); Mandwar (225; 68,890); Mangrol (179; 32,531), Manohar Thana (237; 42,356), Mavli (301; 75,584), Merta (1,600, 169,756).

Nadbai (173; 54,895), Nadoti (240, 24,533); Nagar (181; 54,833); Nagaur (2,608, 200,572); Nainwa (438; 55,712), Nawa (560, 97,397); Neem-ka-Thana (1,031; 237,950) Nimbahera (219; 44,339), Niwai (413, 59,580); Nohar (232; 83,562); Nokha (1,822, 72,111).

Pachpadra (856; 49,197), Pachpahar (181; 33,907); Padampur (924; 58,629); Pali (1,024; 92,873); Parbatsar (840; 133,534), Partabgarh (394; 69,445), Patan (457, 71,770) Phagi (586; 76,253); Phalasia (300; 44,260); Phalodi (3,573; 110,858); Phulera (763, 142,264); Phulia (110; 17,215); Pindwara (209; 33,535); Pipalda (300; 42,739), Phawa (251, 41,067).

Raipur (180; 39,682); Raisinghanagar (510; 43,574); Raja Khera (151; 45,448); Rajgarh (474; 108,723); Rajgarh (845, 87,198); Rajsamand (212; 62,586); Ramganj Mandi (157; 28,130); Ramgarh (156; 28,583); Ramgarh (2,800; 10,760); Rashmi (161; 37,797); Ratangarh (655; 76,241); Relmagra (212; 48,913); Reodhar (473; 57,534); Rupbas (213; 62,454); Rupnagar (315; 27,065).

Sagwara (436; 99,803); Sahadan (222; 51,611); Saira (257; 52,432); Salumbar (350; 69,767); Sambhar (110; 22,371); Samkhabs (4,100; 13,482); Sangod (197; 34,464); Sanchore (1,818; 121,081); Sapotra (501; 55,742); Sarada (308; 68,256); Sardarshahr (1,551; 76,728); Sarwar (314; 28,694); Sawaimadhopur (637; 101,871); Sendra (73; 10,843); Shahabad (590; 33,360); Shahpura (154; 29,286); Sheo (2,448; 45,045); Sheoganj (345; 50,178); Shergarh (1,789; 92,922); Sikar (609; 157,316); Sikrai (194; 65,128); Sirohi (453; 67,347); Siwana (760; 61,108); Sojat (1,172; 170,710); Sujangarh (1,002; 103,525); Suratgarh (788; 44,797).

Talera (510; 40,104); Taranagar (682; 44,834); Thana Ghazi (347; 57,066); Tijara (319; 116,420); Toda Bhim (208; 75,956); Todarai Singh (542; 71,036); Tonk (576; 125,586).

Udaipur (464; 188,661); Udaipur (Watl) (395; 91,496); Uniara (358; 48,380).

Vallabhnagar (792; 93,359); Vinojrai (1,622; 17,718).

Weir (237; 74,009).

GEOGRAPHY

The Aravalli mountains intersect Rajasthan from end to end by a line running north-east and south-west. The heights of Mount Abu, merged into Rajasthan on November 1, 1956, are close to the south-western extremity of the range, while its north-eastern end may be said to terminate near Khetri almost on the borders of Delhi.

There are two main regions, one to the north-west of the hills and the other to the south-east. On the whole the north-west region is sandy, ill-watered and unproductive; it improves gradually as we move from west to east. In the extreme west it is mere desert, while towards the east it is comparatively fertile and habitable. The only river of any consequence here is the Luni. The great desert forming the whole of the frontier between Rajasthan and Sind is covered by sand-hills on which grows a kind of coarse grass in the dry season and a slightly richer vegetation depending upon the scanty rainfall.

The cultivation is everywhere poor and precarious. Along the base of the Aravalli range the land is well cultivated.

The region south-east of the Aravallis is higher, more fertile, and very diversified in character. It contains extensive hill ranges, long stretches of rocky wood and woodland. The region is traversed by many rivers and in some parts there are wide valleys, fertile table-lands and great stretches of excellent soil. The chief rivers are Banas and Chambal.

There are no natural fresh-water lakes in Rajasthan, the only considerable basin being the well-known salt lake at Sambhar. There are, however, numerous artificial lakes in the eastern half of the State. Among the many artificial lakes mention may be made of the Jai Samand, the Raj Samand, the Pichola (Udaipur), the Pushkar and the Anasagar (Ajmer).

Rainfall is very unequally distributed throughout Rajasthan. The summers are very hot and hot winds and dust storms are common. The winters are very cold. The change of temperature between day and night is sudden, excessive and very trying.

MINERALS

Rajasthan is an important mineral and building stone producing State. It produces on an average about 60 per cent of India's total production of soapstone. It ranks next to Bihar in Mica which is chiefly found in Ajmer, Udaipur, Bhilwara and Jaipur Districts.

The non-metallic minerals are silica sand, Felspar, Asbestos Barytes, Clays, Dolomite, Fuller's earth, Bentonite, etc. The metallic minerals are lead, zinc, silver ore and tungsten ore. Lead concentrates and zinc concentrates are prepared at Zawar mines in Udaipur. About 5 ounces of silver is found in a ton of lead, zinc and silver ore of Zawar mines. Appreciable tonnage of iron and manganese ores has also been produced. The State is the sole supplier of gypsum for fertiliser manufacture to Sindri plant.

Lignite coal is mined near Palana in Bikaner Division. There are vast deposits of high quality building stones such as marbles, sandstones and limestones. Limestone is used for the manufacture of cement at Lakheri and Sawai Madhopur and for lime at a number of places. Marble quarried at Makrana in Jodhpur Division is famous as building stone.

Large resources of sodium sulphate and salt also occur at Didwana and Sambhar lake. Thirty different varieties of minerals are worked out.

Production in thousand tons of some important Minerals in 1956: Asbestos, ·43; Barytes, ·20; Bentonite, ·30; Calcite, 1·10; Emerald, 91·83 (lbs.); Fuller's earth, 6·03; Gypsum, 797·76; Glass sand, 24·43; Iron ore, 128·39; Lead, Zinc and Silver: (*a*) Run of Mine ore, 89·36; (*b*) Lead concentrate, 3·90; (*c*) Zinc concentrate, 6·88; Lignite (coal), 25·62; Manganese ore, 6·20; Marble, 20·20; Mica (cut), 40·56; Soapstone, 37·18; Selenite, 3·38.

INDUSTRIES

Among the large-scale industries of Rajasthan, cotton textile, cement, glass and sugar are important. There are 11 cotton textile mills, 2 cement factories, 1 glass factory and 3 sugar mills in the State. The industrial production of some commodities during 1957 was as under:—

Cloth 166 lakh lbs. or 576 lakh yds.; yarn 373 lakh lbs.; cement 6·6 lakh tons; glass 695 tons; sodium sulphate 6·8 lakh mds.; salt 75·00 lakh mds.; sugar 15·5 thousand tons. (The last three figures relate to the financial year 1956-57).

The most important cottage and small-scale industries are Tie and Dye Fabrics, Gota Kinari (Silver and Gold laces), Lacquer wooden toys, Handmade paper, Papier Mache toys, Gem cutting, cloth printing, manufacture of tools and implements, Embroidered shoes (Jutiyan) and leather bags, and water bottles (Badlas).

Among the chief exports are salt, wool, woollen fabrics, raw cotton, oilseeds, opium, ghee, marble and sandstone, hides, printed clothes, camels, cattle, sheep and goats. The main imports include food grains, cotton piece goods, sugar, metals, timber and kerosene oil. The principal trade centres are the capitals of the former States.

AGRICULTURE

Rajasthan which used to be a deficit State before the first Five Year Plan period is now a surplus State.

Main Food Crops of the State: (*a*) Khariff Crops: Rice, Bajra, Jowar, Pulses and Maize; (*b*) Rabi Crops: Wheat, Barley and Gram.

Main cash crops of the State: (*a*) Oil seeds Sesamum, Rapeseed and Mustard and Linseed and Groundnut; (*b*) Cotton; (*c*) Sugarcane; (*d*) Tobacco.

Production of Food Crops in thousand tons (1956-57): (1) Cereals: Bajra 515; Jowar 224; Maize 313; Wheat 1,190; Barley 710; Rice 86; Small Millets 30; (2) Pulses: Gram 161; Tur 5; other Rabi pulses 4 and other khariff pulses 350.

Production of individual cash crops in thousand tons (1956-57): (*a*) Oil seeds Sesamum 81; Groundnut 45; Rapeseed and Mustard 106; Linseed 44; (*b*) Cotton (thousand bales) 167; (*c*) Sugarcane 572 tons in terms of gur; (*d*) Tobacco 5; (*e*) Chillies (dry) 15; (*f*) Potatoes 4.

Land Utilisation (in thousand acres) 1955-56: Total geographical area according to village papers: 84,406; Net area sown: 28,303; Fallow land: 14,721; Land not available for cultivation: 16,143; other uncultivated land excluding fallow land: 21,758; Forests: 3,481; Area sown more than once 2,703; Total cropped area: 31,006.

Area under crops in thousand acres (1956-57): Bajra: 8,868; Jowar: 2,150; Wheat: 3,279; Maize: 1,230; Barley: 1,445; Small Millets: 186; Rice: 228; Gram: 3,781; Tur: 36; Other Rabi Pulses: 25; Other Khariff Pulses: 4,486; Sesamum: 1,102; Rape and Mustard: 635; Linseed: 373; Groundnut: 164; Cotton: 542; Sugarcane: 82; Tobacco: 21; Chillies (dry): 50; Potatoes: 3.

Fish: Variety of Fish produced: There are large numbers of tanks, lakes and rivers in which inland fishes are found. The main species are the major carps, *viz.* Rohu, Naren, Marigal, Kalbous, Katla and other varieties, *e.g.*, Puti, Landhi, Bole, etc. are also found.

Land Reclamation:

Number of tractors available: 1,274.

Extra food production achieved by 1955-56 as compared to 1951-52: 3·3 lakh tons.

Budget provision for 1955-56: Rs. 34,31,000.

Number of veterinary experimental stations: There is one Pathology Laboratory at Bikaner.

Agriculture and veterinary education: Veterinary College, Bikaner. Four Basic Agriculture Training Schools started at Sawai Madhopur, Udaipur, Kotah and Sumerpur with total strength of 360 students. Besides, there are two extension centres for V.L.W.'s with a capacity of 100 students each.

Budget allotment for the Veterinary Department for the year 1955-56: Rs. 26,08,000.

COMMUNITY DEVELOPMENT AND NATIONAL EXTENSION SERVICE

Total number of blocks upto the end of December 1957: 102.

Total number of C. D. Blocks: 38; N.E.S. Blocks: 52; Post Intensive Blocks: 12.

Total number of villages covered: 16,207.

Total area covered: 50,322 sq. miles.

Population covered: 67·94 lakhs.

Expenditure incurred on Community Development (1956-57): Rs. 93·12 Lakhs.

Expenditure incurred on National Extension Service (1956-57): Rs. 67·98 Lakhs.

FORESTS

Total forest area in State: 16,000 sq. miles.

Main types of forests: Teak, Bamboo, Dhokara (firewood) and Khair.

Total revenue from forest for 1955-56: Rs. 55,86,987.

Total expenditure: Rs. 37,86,370.

Main forest produce: Timber, Firewood, Charcoal, Bamboos, Grass, Anwal bark, Kathar Gum and Tendu leaves.

Location of forests (in forest Divisions) and area in each division. *Western Circle:* Udaipur 3,800 sq. miles; Chittorgarh: 1,500 sq. miles. Jodhpur: 700 sq. miles; Banswara: 500 sq. miles; Sirohi: 500 sq. miles. *Eastern Circle* Jaipur: 800 sq. miles; Bharatpur: 1,200 sq. miles; Tonk: 500 sq. miles; Kotah 500 sq. miles; Bundi: 1,000 sq. miles; Jhalawar: 3,000 sq. miles; Baran: 1,000 sq. miles.

LIVESTOCK

Total number of cattle: 12,072,713 Breeding bulls 3,578,049; Breeding cows 4,411,570, Youngstock 4,080,288; Buffaloes: 3,410,110 Horses and Ponies: 112,636; Sheep: 7,372,800, Goats: 8,730,163; Poultry: 457,394, Donkeys 190,237; Camels: 436,237; Pigs: 70,075 Mules: 616.

Total livestock: 32,426,976.

Number of Veterinary Hospitals: 60 and dispensaries 134.

Number of surgeons: 93; Compounders: 139; Stockmen: 239.

LAND TENURE

Land Tenure Systems in the State:

There are three kinds of land tenure in the State *viz.*, Ryatwari, Jagirdari and Zamindari.

The Rajasthan Tenancy Act aims at introducing a uniform Tenancy Law for the whole of the State and will remove the diversity of conditions prevailing in different parts of Rajasthan in respect of Land Tenures and relations of tenants and landlords or tenants and Government.

The Rajasthan Land Reforms and Resumption of Jagirs Act, 1952 was enacted for the resumption of Jagir Lands, with the exception of jagirs utilised for the maintenance of any place of religious worship or for the performance of religious service. An Amendment Act was enacted in 1954. It contains provisions for allotment of Khudkast land to Jagirdars and removes the exemption from resumption to Jagirs with annual income below Rs. 5,000. It provides for a scale of compensation including rehabilitation grant.

The Act came into force from 18th February 1952. Resumption of Jagirs was started immediately after the Amendment Act was passed on 15th June 1954.

The present position regarding resumption of jagirs is that all jagirs with an annual income of Rs. 200 or more in the former United State of Rajasthan, and all settled jagirs with an annual income of Rs. 500 or more in the pre-reorganisation State of Rajasthan have been resumed.

The number of jagirs thus resumed is 8,254 with an estimated annual income of Rs. 262 lakhs. Of a total of Rs. 31 crores payable as compensation in 15 years, a sum of Rs. 410 lakhs has been paid as compensation.

About 170,000 petty jagirs, with an aggregate annual income of Rs. 70 lakhs, are yet to be resumed in Rajasthan. Also to be resumed are 5,000 jagirs of minor *istamuradars* and *maufidars* in the former Ajmer State, with an annual income of about Rs. 2,00,000.

Source of acquisition of compensation money: From the resources of the State with the assistance of the Central Government.

How the tenants are helped to acquire the land so released: Rules have been framed from time to time for allotment of land with a view to encouraging Grow More Food. These were revised in 1953 to make better provision for allotment of land to landless persons and agricultural labourers.

The State Legislature has passed an Act for abolition of religious jagirs also.

The Land Revenue Act, enacted in 1956, consolidated land laws. It regulated the appointment and powers of revenue courts and revenue-officers for the preparation and maintenance of maps and land records, settlement of revenue and rents, and partition of estates.

Among other enactments may be mentioned the Jagirdar's Debt Reduction Act, the Relief of Agricultural Indebtedness Act and the Agricultural Loans Act.

The Agricultural Rents Control Act limited the rent payable to the zamindar to twice the land revenue.

The Tenancy Act, 1955 ensured security of tenure. The law recognised only three kinds of tenants, khatedar tenants, tenants of khudkasht and ghair-khatedar tenants.

The fragmentation of holdings was undone by the Holdings (Consolidation and Prevention of Fragmentation) Act, 1954

The Bhoodan Yagna Act was passed in 1954 and the Bhoodan Yagna Board created by it started functioning in January 1955. The Board has received 411,405 acres of land from as many as 7,460 donors and villages. It has distributed 31,985 acres of land among 5,150 landless persons.

The majority of the holdings in Rajasthan are below ten acres each and, naturally, uneconomic The number of holdings less than an acre in area is more than 432,000 and of the 268,000 acres these cover, 50,000 acres are cultivated by sub-tenants.

Holdings of 1,000 acres and above number 560 (and account for 1,082,316 acres), those between 30 and 60 acres 149,050, those between 60 and 100 acres 38,283 and those between 100 and 1,000 acres 28,505. The average holding is now estimated at 15 acres.

The Lands Summary Settlement Act, 1953, empowered the State Government to undertake summary settlement in unsettled areas and to fix cash rents for land holdings, as an interim measure.

Unoccupied Government land, comprising culturable waste and land temporarily cultivated, is estimated at 14 million acres and the number of landless cultivators 375,000. There is, thus, enough land with the Government for allotment to landless agriculturists.

Persons to whom this land is to be allotted: The landless peasants for Khudkast.

IRRIGATION

Net irrigated area in the State: 3,335,000 acres (1955-56).

Net irrigated area by sources (1955-56). Canals 702,000 acres; tanks 440,000 acres; wells 2,154,000 acres; other sources 39,000 acres.

Gross irrigated area under crops (1955-56): Food crops 2,984,000 acres; Cotton 301,000 acres; Sugarcane 60,000 acres; others 592,000 acres.

Area irrigated more than once: 602,000 acres.

Names of irrigation projects in operation in the respective divisions showing the area irrigated:

Udaipur Division: Madar: 500 acres; Fateh Sagar Lake with channels: 500 acres; Swaroop Sagar and Pichola with Channels: 350 acres; Bhupal Sagar Tank: 2,200 acres; Jaisamand Lake: 13,000 acres.

Kankroli Division: Rajsamand: 6,000 acres; Nahar Sagar: 3,800 acres; Ummed Sagar: 4,400 acres.

Kotah Division: Ummed Sagar tank including Ramgarh Canals: 5,300 acres; Eklera Sagar: 2,460 acres; Parvati Canals: 11,580 acres.

Jaipur West Division: Chapperwara: 5,200 acres; Kalakh Sagar: 3,400 acres; Tori Sagar: 4,450 acres.

Jaipur East Division: Sainthal Sagar: 1,900 acres; J. Ramgarh: 5,250 acres; Madho Sagar: 2,000 acres; Mansarowar: 1,400 acres; Galal Sagar: 40 acres; Dhil: 5,100 acres.

Jawai Division: Jawai: 32,000 acres; Surpura: 600 acres; Jaswant Sagar: 2,000 acres; Sumair Samand: 1,600 acres.

Matsya Division: Sikri: 9,000 acres; Jaisamand: 3,760 acres; Jai Sagar 600 acres; Mangalsar: 830 acres; Boochara: 3,000 acres; Ajan Bund: 2,300 acres; Pichuna Canal: 10,000 acres; Ramsagar Tank & Canal: 5,000 acres; Urmila Sagar Tank & Canal: 3,500 acres; Tal-Shahi Tank and Channel: 400 acres.

Ganganagar Division: Gang Canal: 638,000 acres.

Central Sector works in progress: The names of the schemes giving within brackets the cost in lakhs, expenditure upto end of March 1956 and the area to be irrigated on completion: Bhakra (Rs. 464·87 lakhs, Rs. 353 16 lakhs; 570,000 acres); Chambal (Rs. 1,884 80 lakhs; Rs. 208 06 lakhs, 5,50,000 acres)

In 1956-57 two major canals namely Bhakra and Ghaggar irrigated 691 548 acres, 92 556 acres and 12,336 acres of land respectively.

New Works

Statement showing new works prepared to be taken up during the Second Five-Year Plan:

Multi-purpose schemes showing within brackets the location, estimated cost and area to be irrigated on completion. Bhakra Nangal* (Ganganagar District: Rs 2,436·87 lakhs; 570,000 acres), (i) Works in Rajasthan (Rs. 464·87 lakhs); (ii) Share of common works (Rs 1 872·00 lakhs) Chambal Project (Kota and Bundi, Rs 1,615 lakhs, 550,000 acres): (i) Kota Barrage, Rs. 307·00 lakhs, (ii) Right main canal, Rs. 762 lakhs, (iii) Left canal, Rs.186 lakhs; (iv) Rana Pratap Sagar dam, Rs 360 lakhs

Major and medium works showing within brackets the cost in lakhs of rupees and the potential annual irrigation in acres: Panas (Rs 480 lakhs; 225,000 acres) Jakham (Rs 117 lakhs; 4,000 acres); Mahi (Rs. 315 76 lakhs 70,000 acres); Berachat Padgaon (Rs. 63·77 lakhs, 18,200 acres); Betach at V. Nagar (Rs. 49·47 lakhs; 10,500 acres); Wagan* (Rs. 64·05 lakhs; 20,000 acres); Alnia (Rs 35·45 lakhs; 11,779 acres); Sabi (Rs. 25 lakhs; 40,000 acres); Khari Feeder (Rs. 20 lakhs; 8,000 acres); Khari Storage (Rs. 30 lakhs; 14 000 a res); Baudi (Rs 26 lakhs; 8,000 acres); Sukli (Rs. 18 lakhs; 8,000 acres); West Banas (Rs 48 75 lakhs; 13,364 acres); Manohar Thana (Rs. 95 lakhs; 50,000 acres). Sawan Bhadon (Rs. 11 lakhs; 10,000 acres); Narayan Sagar (Ajmer) (Rs 38·13 lakhs; 8,000 acres); Bharatpur Feeder from Agra Canal (Rs 14·76 lakhs; 18,000 acres); Parbati in Bharatpur District (Rs. 87·10 lakhs; 37,000 acres); Meja* in Bhilwara District (Rs. 59 lakhs; 37,000 acres); Gudha* in Bundi District (Rs. 42·35 lakhs; 16,700 acres); Jawai* in Pali District (Rs. 300 lakhs; 46,000 acres).

Minor irrigation works: Area to be irrigated: 212,000 acres.

Cost of New Minor Irrigation Works in the agriculture sector financed by the Ministry of Food and Agriculture: Rs. 247·31 lakhs.

Number of wells constructed during the First Five-Year Plan: 25,000.

Scarcity area works*: cost Rs. 340·25 lakhs; area to be irrigated 267,600 acres.

Rajasthan Canal

Rajasthan Canal Construction: The Government of India has decided to take up the construction of the Rajasthan Canal from the Harike barrage across the Sutlej. The Governments of Rajasthan and the Punjab have accordingly started making preliminary arrangements for the execution of the scheme.

The Rajasthan Canal, which is a Second Five-Year Plan project, will have a discharge of 18,500 cusecs at the head. About 425 miles in length, it will benefit extensive areas in Ganganagar, Bikaner and Jaisalmer Districts of Rajasthan State. The project will be developed in two stages.

The rainfall in these districts is scanty and varies between three and 12 inches per annum. The region is sparsely populated and frequently ravaged by famine. The construction of the canal will open up a new area for agriculture, improve the economic condition of the people and rehabilitate a large number of refugees from Pakistan.

The main canal will be in two parts (*a*) Rajasthan Feeder 134·2 miles long (110·8 miles in Punjab and 23·4 miles in Rajasthan); (*b*) Rajasthan Canal 291·6 miles long lying entirely in Rajasthan territory.

Estimated to cost Rs. 66·47 crores, the canal will provide irrigation facilities to a gross area of 5·11 million acres, with a total culturable commanded area of 3·36 million acres (by flow). On full development the area irrigated annually will be about 2·62 million acres, yielding about one million tons of crops annually valued at Rs. 30 crores.

The building of this canal will involve 6,700 million cft. of earthwork and 180 million sq. ft. of lining for the main canal only and will create employment for over half a lakh of people during construction period. The project will bring under irrigation a large desert area.

Direct revenue from this project after full development of the area in the pre-storage period will be about Rs one crore by way of water rates only. Betterment levy will bring to the exchequer Rs 45 crores and sale of Government waste land another Rs. 67 crores. Indirect revenue such as rise in income from income-tax, excise posts and telegraphs, railway, etc. will also be considerable.

POWER PROJECTS

Installed capacity (1958): 43,787 kW.

Position in 1957: (in thousand k.w.h.).

Electricity Generated: Steam or Gas—66 219; Diesel—27,388.

Electricity purchased from non-electric utilities—166.

Total electricity generated and purchased—93,773.

Electricity sold to ultimate consumer—66,866.

Electricity sold as percentage of electricity generated - 71·13.

K w h generated per thousand of population—5,861

K w.h generated per square mile—708.

Names of power stations in operation with their effective capacity in kW and production during 1955-56 in units in brackets: Jaipur (5,200 kW; 25,520,947 units); Bikaner (4,200 kW; 17,758,152 units); Jodhpur (3,000 kW; 12,535,233 units); Alwar (250 kW; 1,111,387 units); Bharatpur (335 kW; 1,078,788 units); Bhilwara (75kW; 120,000 units); Deeg (40 kW); Dholpur (160 kW; 1,009,000 units); Dungarpur (80 kW; 492,997 units); Jaisalmer (60 kW; 75,028 units); Jhalawar (45 kW; 232,226 units); Karauli (25 kW; 138,041 units); Kishangarh (60 kW; 9,000 units); Shri Ganganagar (900 kW; 2,277,578 units); Kotah (324 kW; 3,513,780 units); Newai (80 kW; 104,786 units); Sagwara (7 kW; 13,500 units); Shahpura (8 kW; 44,164 units); Tonk (100 kW; 457,739 units); Hindaun (30 kW; 24,357 units); Sikar (60 kW; 6,782 units). Total consumers on 31-12-1956—48,456.

The extensions of the existing power stations at Jaipur, Bikaner and Jodhpur have been completed.

In addition to the above 21 Government-owned power houses there were privately-owned power houses at the end of 1956-57 at the following places: Bundi, Udaipur, Pali, Rajgarh, Sirohi, Abu Road, Bhawani-mandi, Ladnu,

* Irrigation already started.

Nawalgarh, Pratapgarh, Banswara, Hanumangarh, Surtgarh, Garhi, Nathdwara, Pilani, Merta, Phalodi, Kuchaman, Ajmer and Beawar.

Under the development of thermal power stations scheme, diesel generating sets aggregating 1,050 k.W. were erected at four stations during 1956-57.

The scheme of rural and urban electrification provides for the installation of diesel and steam generating sets providing 5,700 kW installed capacity along with transmission and distribution lines.

The plant and equipment for this programme is being obtained under the Technical Co-operation Mission Aid Programme for which 1·06 million dollars have been provided.

Under the urban and rural electrification scheme to provide employment opportunities, 7,100 kW generating capacity is going to be added by 1958-59.

Bhakra Nangal Project : A total firm power amounting to 105,000 kW would be available for Rajasthan in the post-Bhakra Stage. Share of Rajasthan in the Bhakra Nangal Project 15·2 per cent. The canal system of the project will command an area of 9,00,000 acres in Rajasthan.

Summary of the total capital cost upto the end of 1963-64 of the whole project for Rajasthan would be about Rs. 829·026 lakhs.

Estimated rise in output after completion: 15,000 kW. by the end of the 10th year of operation. For more details see under "Irrigation."

Chambal Hydro-Electric Scheme : It is a multipurpose scheme and will serve 29 localities in Rajasthan. The project has been divided into three stages. The first stage will comprise the Gandhi Sagar Dam and the Kotah Barrage and a net-work of canals on either side of the barrage for irrigating 11 lakh acres in Madhya Pradesh and Rajasthan. Power generation in the 1st stage will be 75,000 kW and the total area to be irrigated would be 5·5 lakh acres in Rajasthan. The revised cost of stage I is estimated at Rs. 63·59 crores. For more details see under "Irrigation".

The project will be financed by the Madhya Pradesh and Rajasthan Governments.

CO-OPERATION

(June 30, 1957).

Total number of Co-operative Societies : 9,082.
Total membership : 343,583.
Total working capital : Rs. 8,59,95,180.
Total share capital : Rs. 1,48,76,008.
Loans advanced : Rs. 4,40,17,327.
Recoveries made : Rs. 3,42,69,760.
Loans due : Rs. 4,19,11,956.
Purchases : Rs. 95,23,479.
Sales : Rs. 86,82,518.

Types of Co-operative Societies and their number : (membership within brackets) :

State Co-operative Bank : 1 (334); Central Financial Institutions : 24 (11,353); Central Non-credit Societies : 60 (3,620); Central Land Mortgage Banks : 2 (749); State non-credit Societies : 2 (25); Co-operative Institutions : 3 (134); Agricultural Credit Societies : 5,452 (1,82,508); Agricultural Non-credit Societies : 1,489 (14,241); Primary Land Mortgage Banks : 22 (1,899); Non-agricultural Credit Societies : 271 (27,237); Non-agricultural Non-credit Societies : 2,048 (90,869); Societies under liquidation : 708 (10,614).

Budget allotment for 1956-56 : Rs. 13·67 lakhs.

Expenditure : Rs. 11 99 lakhs.

MEDICAL & PUBLIC HEALTH

In 1956, the State had about 281 hospitals, 207 dispensaries, 51 maternity and child welfare centres, 94 maternity hospitals, 435 wards in ladies and other hospitals, 2 leprosy hospitals with 80 beds, 3 mental hospitals with 204 beds, 2 isolation hospitals with 74 beds, 243 other hospitals with 5,193 beds. There were 843 doctors, 468 nurses, 537 midwives, 1,809 compounders, 165 sanitary inspectors 349 vaccinators, 39 health visitors and also malaria surveyors, functioning in the State.

Patients treated in Government hospitals and dispensaries (1956) : indoor 140,587 ; outdoor 8,235,176.

There is only one medical college the Sawai Mansingh Medical College at Jaipur.

TRANSPORT

Position in 1956-57 :

Total mileage of roads : 14,546.
Cement Concrete roads : 23 miles.
Mileage of metalled roads : 3,980 miles.
Mileage of unmetalled roads : 8,062 miles (1956).
Mileage of black topped roads : 2,335.
Mileage of gravelled roads : 2,961.
Mileage of fair weather roads : 5,247.
Total number of Aerodromes : 5.
Total vehicles : 20,011.
Number of taxi-cars : 119.
Number of motor cycles, etc. : 1,384.
Number of private cars : 8,154.
Number of public carriers : 4,041.
Private carriers : 979.
Number of stage carriages : 2,885.
Others : 2,449.

LABOUR

Number of registered factories : 508.

Average daily number of workers in registered factories : 56,964.

Minimum wages were fixed under the Minimum Wages Act, 1948, by the Government but they were declared null and void by the Rajasthan High Court.

Names of important labour laws enforced in the State : Workmen's Compensation Act, 1923 ; Indian Trade Unions Act, 1926 ; The Payment of Wages Act, 1926 ; The Industrial Disputes Act, 1947 ; The Minimum Wages Act, 1948 ; The Indian Factories Act, 1948 ; Employees' Provident Fund Act, 1952 : Employees' State Insurance Act, 1948 ; Industrial Employment (Standing Orders) Act, 1946 ; Indian Boilers Act, 1923 ; Rajasthan Maternity Benefit Act, 1953 ; Employment of Children Act, 1936 ; Weekly Holidays Act, 1942 ; Ajmer Shops and Commercial Establishments Act, 1956.

Number of trade Unions in State : 186 (December 1957).

Total membership : 36,375 (December 1957).

Sixteen Labour Welfare Centres have been opened at Jaipur, Bhilwara, Pali, Sri Ganganagar, Sawai-Madhopur, Alwar, Kotah, Jodhpur, Udaipur, Chambal, Bikaner, Bundi, Bijaynagar, Tonk, Beawar and Lakheri.

State Insurance was extended on 12th December 1956 to six Centres : Jaipur, Jodhpur, Pali, Bikaner, Bhilwara, Lakheri.

The insurance was extended to Sawai-Madhopur with effect from March 1, 1958. About 2,500 factory workers in this area will get the benefits of the State Insurance Act.

Medical care at Sawai-Madhopur will be provided by the State Government under the service system, for which one whole-time dispensary has been set up. For payment of cash benefits under the scheme, a sub-local office has been opened.

The employers of factories covered by the scheme will be required to pay their special contribution at 1½ per cent of the total wage bill.

Twelve Employment Exchanges function at Jaipur, Udaipur, Jodhpur, Kotah, Bikaner, Bhilwara, Ajmer, Alwar, Bharatpur, Sawai-Madhopur, Sri Ganganagar and Pali.

Number of applicants on live register : 19,779 ; Registration : 61,086 ; Placings : 8,129 (upto December 1957).

EDUCATION, 1956-56

(See under main article on Education for statistics).

Social Education : **(1955-56) :**

Centres for social education : 196.

Number of teachers available : Teachers are provided in these centres on an honorarium of Rs. 15 and Rs. 20 for males and females respectively.

Number of adults educated in the year : 15,240.

Total expenditure : Rs. 1,49,454.

Elementary education is not compulsory. It is free throughout the State.

Place of language in the education system : Regional language is not in force. Hindi is compulsory. English is compulsory after VI. Hindi is the medium of instruction.

RAJASTHAN FINANCIAL CORPORATION

The Corporation has an authorised capital of Rs. 2 crores, divided into two lakh shares of Rs. 100 each. Only one lakh shares were issued and fully paid-up. The position of shares held by various classes of shareholders as on 31st March 1958 was as follows : State Government 36,200, Reserve Bank of India 21,000, Scheduled Banks, Insurance Companies and other financial institutions 38,150, and parties other than the above 4,650. The object of the Corporation is to provide financial assistance to medium and small-scale concerns in the State.

Chairman, Board of Directors : Ram Nath A Poddar.

Managing Director : S. B. L. Bhargava.

Directors : G. S. Purohit, A. K. Roy, G. D. Somani, L. N. Birla, K. C. Mittra, D. R. Madhok, P. G. Mehta and P. V. Shrikanta Rao.

The Corporation sanctioned loans amounting to Rs. 61,69,000 to 26 industrial concerns by the end of March 1958. Of this amount a sum of Rs. 35,32,000 was disbursed by the Corporation. A further sum of Rs. 1,05,000 has been given during 1958-59 (upto May 1958).

The position of loans sanctioned and disbursed during 1955-56, 1956-57 and 1957-58 was as follows :—

Amount sanctioned : 1955-56 : Rs. 7,28,000 ; 1956-57 : Rs. 23,02,000 ; 1957-58 : Rs. 31,39,000

Amount disbursed : 1955-56 : Rs. 1,81,000 ; 1956-57 : Rs. 7,32,000 ; 1957-58 : Rs. 26,19,000

During 1957-58 the Corporation made a net profit of Rs. 3,67,826·22 nP as compared to Rs. 3,16,940·79 nP. made during 1956-57, subject to taxation.

SECOND FIVE-YEAR PLAN

The total allotment for the Second Five Year Plan for Rajasthan State : Rs. 105 ·· crores
Plan allotment for 1956-57 . Rs. 2· ·· crores.
Expenditure during 1956-57 : Rs. · ·· crores
Allotment for 1957-58 : Rs. 22 ·8 crores
Provision for 1958-59 : Rs. 20·07 crores.

Irrigation

Twenty irrigation and multi-purpose projects (other than the Rajasthan Canal) which will irrigate an area of 7·74 lakh acres in Rajasthan have been included in the Second Five Year Plan. The total cost of the schemes, some of which will be carried over to the Third Plan, is estimated at about Rs. 18·01 crores. Of this, Rs. 10·54 crores are likely to be spent during the Second Plan period and 2·11 lakh acres will receive irrigation benefits during this period. A sum of Rs. 13 lakhs has been allocated for investigations.

The following are the more important irrigation projects giving the total estimated cost, the area to be irrigated and the amount expected to be spent during the Second Five Year Plan period :

Banas Irrigation Project (Amarpura) ; cost Rs. 4·80 crores ; area to be benefited 2·3 lakh acres in Bhilwara, Ajmer, Tonk and Bundi Districts. Expected to be completed by 1965

Mahi Project ; cost Rs. 3·16 crores ; will irrigate 70,000 acres in Banswara District ; Rs. 66 lakhs to be spent during 2nd Plan.

Ramprataposagar Dam ; cost Rs. 2·02 crores (Rajasthan's share) ; will irrigate 1·5 lakh acres ; Rs. 50 lakhs to be spent during 2nd Plan, completion 1963-64.

Jakham Irrigation Project ; cost Rs. 1·17 lakhs ; will irrigate 53,000* acres in Udaipur District ; completion 1963 ; Rs. one crore to be spent 15,000 acres to be irrigated during 2nd Plan.

Manohar Thana Irrigation Project ; cost Rs. 9·5 lakhs ; will irrigate 50,000 acres in Jhalawar District ; completion during 2nd Plan.

* Final stage.

Wagan Project; cost Rs. 65 lakhs; will irrigate 20,000 acres in Chittorgarh District; completion during 2nd Plan.

Rajasthan Canal and Bhakra Nangal—See under Irrigation and Power under this State.

JAIPUR MUNICIPALITY*

Jaipur

The civic affairs of Jaipur are looked after by the Jaipur City Municipal Council consisting of 40 elected and four nominated members.

The Municipality's revenue and expenditure figures for 1957-58 were respectively Rs. 21,85,368 and Rs. 30,80,000. The budget for the year 1958-59 (April 1958) was yet to be submitted by the Municipal Council to the State Government for approval and sanction.

President : Shyam Bihari Lal Saxena.
Vice-President : Bal Chand Vaid.
Municipal Commissioner : R. D. Sharma, R.A.S. (Retd.).
Health Officer : Dr. A. S. Nagpal.
Municipal Engineer : D. K. Krija'ani.
Revenue Officer : Z. A. Alvi.
Assessment Officer : R. C. Mathur.

Councillors

G. L. Bhargava, D. L. Baddhar, S. R. Parekh, K. D. Gautam, R. K. Purohit, P. D. Mathur, Hakim Md. Ibrahim Khan, K. N. Jhalani, Radha Mohan Lal, M. L. Azad, Raghu Lal, K. C. Patni, K. C. Sanghi, B. C. Vaid, S. C. Agarwal, R. C. Johri, S. B. L. Saxena, R. C. Kadwal, P. C. Bhandari, S. M. Sanghi, G. D. Vaid, Abdul Razak Khan, Dr. K. B. Sharma, S. Intazam Ali Abdul Hakim, K. G. Saxena, Abdul Samad M. Ram, P. D. Gaur, A. B. L. Mathur, Dr. Karam Chand, Ram Dayal, B. L. Samodia, S. S. Swami, Bafruddin, S. L. Johri, Dr. Kamal Rai, R. S. Chandel, Brish Mohan, Devika Rani Jhalani (*Nominated*), Shyam Kumari Rai (*Nominated*), M. L. Patel (*Nominated*), and G. C. Pradhan (*Nominated*).

UNIVERSITY OF RAJASTHAN

Jaipur

Chancellor

Gurumukh Nihal Singh, Governor of Rajasthan.

Vice-Chancellor

G. C. Chatterjee, M.A. (Pun.), B.A. (Cantab.).
Registrar, K. L. Varma, M.A.

DEANS OF FACULTIES

Arts, Dr. M. L. Sharma, M.A., D. Litt., Head of the University Department of History, Jaipur.

Science, Dr. S. M. Mitra, D.Sc., Principal, Birla College of Science and Commerce, Pilani.

Commerce, C. B. Gupta, M.A., M.Com., Principal, Seth G. B. Podar College, Nawalgarh.

Law, Vacant.

Engineering, Vacant.

Medicine, Pharmaceutics and Veterinary Science and Animal Husbandry, Lt.-Col. A. C. Aggarwala, D.Sc. (Hons.), M.R.C.V.S., A.I.R.O. (Retd.), P.V.S. Class I (Retd.), Principal, Rajasthan College of Veterinary Science and Animal Husbandry, Bikaner.

Education, K. K. Chaturvedi, M.A., LL.B., Dip. (Lond.), B.Ed. (Edin.), Principal, Government Teachers' Training College, Bikaner.

Professor of Economics, M. V. Mathur, M.A., B.Com., M.P.A. (Harvard), University Professor of Economics and Head of the Deptt. of Economics and Public Administration, Jaipur.

Professor of Philosophy, Dr. P. T. Raju, M.A., Ph.D., University Professor of Philosophy, Jaswant College, Jodhpur.

Professor and Head of the University Deptt. of History, Dr. M. L. Sharma, M.A., D.Litt., University Professor of History.

Principal, University Law College, Jaipur, K. R. R. Sastry, M.A., M.L.

Total number of colleges affiliated to the University : 41.

Total number of male students in 58 colleges at the end of the Session 1956-57 : 17,200.

Total number of female students in 54 colleges at the Session 1956-57 : 1,689.

LIST OF AFFILIATED COLLEGES

Maharaja's College, Jaipur.
Maharani's College, Jaipur.
College of Commerce, Jaipur.
Rajasthan College, Jaipur.
Birla College of Arts, Pilani.
Birla College of Science and Commerce, Pilani.
Seth G. B. Podar College, Nawalgarh.
Jaswant College, Jodhpur.
Dungar College, Bikaner.
Lohia College, Churu (Bikaner Division).
Maharana Bhupal College, Udaipur.
Government College, Kotah.
Raj Rishi College, Alwar.
M. S. J. College, Bharatpur.
S. K. N. Agricultural Institute, Jobner (Jaipur Division).
Maharaj Kumar College, Jodhpur.
Government College, Sri Ganganagar (Bikaner Division).
Teachers' Training College, Bikaner.
Vidya Bhawan Govindram Sekseria Teachers' Training College, Udaipur.
Basic Teachers' Training College, Sardarshahr.
Sawai Mansingh Medical College, Jaipur.
Birla Engineering College, Pilani.
Mugnee Ram Bangur Memorial Engineering College, Jodhpur.
Shree Swaroop Govind Parekh College, Jaipur.
B. J. S. R. Jain College, Bikaner.
M.S. College for Women, Bikaner.
Rajmahal Girls' College, Jodhpur.
Rajasthan Mahila Vidyalaya, Udaipur.
Government College, Bhilwara
Government College, Sirohi.
Shri Jain College, Bikaner.
Agarwal College Jaipur.
Rajasthan College of Veterinary Science and Animal Husbandry, Bikaner.
Rajasthan College of Agriculture, Udaipur.
Rajasthan Sharamvi Vishwa Vidyapeeth (Night College), Udaipur
Government College, Ajmer.
Savitri Girls' College, Ajmer.
D. A. V. College, Ajmer.
S. D. Government College Beawar
Government Teachers' Training College, Ajmer.
Panasthali Vidyapeeth, Panasthali (Jaipur).

COMMERCIAL, EDUCATIONAL, RELIGIOUS SOCIETIES, INSTITUTIONS, Etc.

CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE PILANI

Assistant Director Incharge Dr B. H Wadia.
Assistant Director, Dr Amarjit Singh
General Secretary, C.E.E.R.I. Club, Kishanlal

GANGA X-RAY AND RADIUM INSTITUTE

Associated Group of Hospitals,

Bikaner.

Principal Medical and Health Officer, Dr. S. C. Mehta, F.R.C.S. (Eng.).
Chief Physician, Dr. G. K. Mukerji, M.B., B.S. (Bom.).
Chief Radiologist, Dr. Pyarelal Sharma, D.M.R. (Madras).

JAIPUR CHAMBER OF COMMERCE AND INDUSTRY

Johri Bazar, Jaipur City.

Damodardas Khandelwal (*President*); Harish Chandra Golcha (*Vice-President*); Lal Chand Patni (*Hony. Secretary*).

JODHPUR OIL MILLS ASSOCIATION

Behind Powerhouse, Jodhpur.

H. C. Bhoob, *President*; C. M. Agarwal, B.Sc. (Eng.). *Hony. Secretary*; Tejumal, *Joint Secretary*.

MAHA BODHI ASHOKA MISSION (REGD.).

Religious and Social.

Dhamma Kuti, Buddha Vihara, Mayo Link Road, Ajmer.

Founder Director : Rahula Suman Chhawara.
General Secretary : Mrs Quin Moi Rahula.
Treasurer : Yad Ram Chaudhri.

MARWAR CHAMBER OF COMMERCE

Haider Bldgs., Sojah Gate, Jodhpur.

President : Mohanlal Gupta.
Vice-Presidents : Roop Narain Shah, K. C. Bhatia.
Hony. Secretary : B. N. Bhargava.

RAJASTHAN ACADEMY OF SCIENCES

Birla College, Pilani.

President : Dr. S. M. Mitra, D.Sc ; *Secretary :* Prof. D. K. Santra, Ph.D. (Lond.) M.Pharm ; *Chief Editor of Proceedings :* Prof. B. N. Mulay, Ph.D., F.B.S.

RAJASTHAN CHAMBER OF COMMERCE AND INDUSTRY

Johri Bazar, Jaipur City.

Objects : To encourage friendly feelings, co-operation and unanimity among business and industrial community; to promote and protect the trade, commerce, industry and manufacture of Rajasthan or any part thereof; to collect and disseminate statistical and other information securing the promotion of the objects of the Chamber and to make efforts for the spread of commercial, industrial and economic knowledge; to take all steps necessary for supporting or opposing legislative or other action affecting the aforesaid interest by Government or the local body or bodies.

President : Sahu Shanti Prasad Jain. *Senior Vice-President :* P. G. Mehta. *Vice-Presidents :* M. G. Kabra, S. K. Mal, P. P. Singhal, K. Durlabhji, H. M. Parikh. *Hon. Secretary :* A. L. Sharma. *Hon. Jt. Secretary :* T. Khandelwal.

RAJASTHAN ELECTRIC SUPPLY COMPANIES ASSOCIATION

Kuchaman House Jodhpur.

RAJASTHAN IRON-ORE, MINE OWNERS AND EXPORTERS ASSOCIATION

Johri Bazar, Jaipur.

RAJPUTANA MINE-OWNERS & MINERAL MERCHANTS ASSOCIATION

Rang Mahal, Ajmer

President : Chaudhri Sunermal. *Vice-President :* Inderchand Rajgaria & Sons, *Hony. Secretary :* Gumanmal Tongia.

RAJPUTANA MUSEUM

Ajmer.

Superintendent : U. C. Bhattacharya, M.A.

SAHITYA SANSTHAN, RAJASTHAN VISHWA VIDYAPEETH

Near Town Hall, Udaipur.

Chancellor : Suniti Kumar Chatterjee ; *Pro-Vice-Chancellor :* Janardan Rai Nagar ; *Director :* Giridharilal Sharma.

VIDYA BHAWAN SOCIETY

Udaipur.

Educational Society founded in 1931

Founder President : Dr. Mohan Sinha Mehta ; *President :* Pt. Hirday Nath Kunzru ; *Hon. Secretary :* Lakshmilal Joshi.

THE WOOL MERCHANTS' ASSOCIATION

Mewari Bazar, Beawar.

President : Poonamchand Kankariya ; *Vice-President :* Amritlal Godani ; *Hon. Secretary :* Parsram H. Ahuja.

* The Municipal Council has been dissolved and Mr. P. Kaul has been appointed Administrator.

COMMERCIAL FIRMS

A. Lalchand, Inside Sojatigate, Jodhpur.
Amar Automobiles, Jalorigate, Jodhpur.
Anand Theatres Ltd., Jodhpur.
Arjun Medical & Provision Stores, Station Road, Jaipur (Rajasthan).
Arora Bros., Station Road, Jodhpur.
Arora Crockery House, Minerwa Building, Railway Road, Jodhpur.
Aseri Brothers, opp. Railway Station, Jodhpur.
Associated Films Distributors, Station Road, Jodhpur.
Automobile Works, Railway Road, Jodhpur.
Bankidass Mooiraj & Co., Jalorigate, Jodhpur.
Bansilal Chowthmal, Katla Bazar, Jodhpur.
Bhandari Brothers, opp. Mahatma Gandhi Hospital, Jodhpur.
Bharat General & Seed Stores, Minerva Building, P.B. No. 52, Jodhpur.
Bharat Sewa Ashram, Jodhpur.
Bhargava & Company, opp. Prem Prakash Talkies, Sawai Mansingh Highway, Jaipur (Rajasthan).
Bhargava Scientific Corporation, Devi Bhavan, Kutchery Road, Ajmer.
Bhatia Bros., Jalorigate, Jodhpur (Rajasthan).
Bombay Watch Co., Inside Sojatigate, Jodhpur (Rajasthan).
Boot Oil Mills, Industrial Area, Jodhpur.
Bothra Film Exchange, H O. Bikaner (Rajasthan).
B. N. Bhargava & Bros., Station Road, Ajmer.
Caltex Motors, Kutcheri Road, Jodhpur.
Central Radio & Service Co., Radio House, Ajmer.
Chandra Industrial and Commercial Corporation, Kutcheri Road, Jodhpur.
Chitra Cinema, Mehta Market, Jodhpur.
Chitraprakash Film Exchange, Ajmer Road, Jaipur City.
Chopani Ice Aerated Water & Oil Mills Ltd., Jodhpur.
Delhi Furniture House, Station Road, Jodhpur.
Delhi Mishthan Bhandar, Chaura Rasta, Jaipur.
Dhamraj Madanlal Khatri, Khamdafalsa, P.O. Box 11, Jodhpur.
D. P. Bhargava, B.Sc, LL.B., Advertisement Bookings, opp. Railway Station, Jodhpur.
D. R. Sharma & Sons, Sojatigate, Jodhpur.
Durgasingh & Sons, Gramophone Dealers, Sojatigate, Jodhpur.
Dwarkadas Rathi, Rathi Book House, Jodhpur.
East India Mineral Development Syndicate, Ltd., Jaipur.
Eastern Motor Company, Station Road, Jodhpur.
Electric Radio Corporation, Station Road, Jodhpur.
Empire Store, Mirza Ismail Road, Jaipur.
English Watch Company, Jalorigate, Jodhpur.
Fatehraj Manackchand Marmat, Katla Bazar, Jodhpur.
Ferozepur Boot House, Station Road, Jodhpur.
General Marketing Co., Chaura Rasta, Jaipur.
General Marketing Co., The, Jodhpur, (Rajasthan).
General Marketing Co., Hind Hotel Building, Chaura Rasta, Jaipur City.
Girdhar Ganesh Trading Co., Bhomiyonji-ki-Ghati, Jodhpur.
Gopal Watch Co., Sojatigate, Jodhpur.
Gotan Lime Syndicate, Gotan J. Railway (Jodhpur).
Govindram Ramchand, Ajmer Road, Jaipur.
Grand Hotel, Railway Road, Jodhpur.
Gulabchand Nawalmal, Pali—Marwar. Phone : 2.
Hari Narain Kacholia & Co., Mirza Ismail Road, Jaipur.
H. C. Brothers, Watch Merchants, Tripolia Gate, Jaipur.
Hind Mica Ltd., 12, Prithvi Road, Jaipur.
Hindustan Engineering Works, Jalorigate, Jodhpur.
H. S. Elahibux & Sons, Bangles Building, Jodhpur.
India Agencies, Riyan House, Sojatigate, Jodhpur.
India Radiogram Corporation, P.O. Box 63, Kutchery Road, Jodhpur.
Indian Industrial Command, Kutchery Road, Jodhpur.
Indra & Company, General Merchants, Station Road, Jodhpur
Industrial Command of India Ltd., Kutchery Road, Jodhpur.
Jaipur Art Studio, Kutchery Road, Jodhpur.
Jaipur Mineral Development Syndicate Ltd., Jaipur.
Jaipur Paper Mart, Tripolia Bazar, Jaipur City.
Jaipur Wine Stores, Mirza Ismail Road, Jaipur.
Janta Medical Stores, Station Road, Ajmer.
J.M.D.S. Cosmetics Ltd., Jaipur City.
J. Santosh & Sons, Engineers & Contractors, Sojatigate, Jodhpur.
Jodhpur Cloth Merchants' Association, Jodhpur.
Jodhpur Dayal Bagh Stores, Jodhpur.
Jodhpur Hosiery Mills, Sardarpura, Jodhpur.
Jodhpur Zinc Metal Works, Jodhpur.
Joginderpaul & Co., 36, Mehta Market, Jodhpur.
Kachhwaha Brothers, Sojatigate, Jodhpur.
Kaluram Shyamdass, opp. Ratanada Bridge, Jodhpur.
Kamla Optical Company, Station Road, Jodhpur.
Karachi Cloth Stores, outside Sojatigate, Jodhpur.
K. D. Framjee Marfatlal, Station Road, Ajmer.
Khadi & Cottage Industries Ltd., Jodhpur.
Khairatilal & Sons, Electric Dealers, Station Road, Jodhpur.
K. H. Thanvi & Company, Jalorigate, Jodhpur.
Kitabghar, outside Sojatigate, Jodhpur.
Kuchaman Electric Co., Ltd., Jodhpur.
Kuchaman Merchants' Association, Kuchaman City (Rajasthan).
Kumbat Binding Works, Jodhpur.
Lachoo Tailors, Sojatigate, Jodhpur.
Laung Medical Stores, Sardar Market, Jodhpur.
Laxmi Motor Co., Sojatigate, Jodhpur.
Laxmi Pen Company, Jodhpur.
Lokvani, The Hindi Daily of Rajasthan, Jaipur City.
Madan Gopal Zaveri & Co., Tripolia Bazar, Jaipur City.
Maharaja Shri Umaid Mills Ltd., Pali (Rajasthan).
Manmohan Opticals, Sojatigate, Jodhpur.
Marudhar Industries Ltd., Jodhpur.
Marudhar Stores, Station Road, Jodhpur.
Marwar Cement Company, Station Road, Jodhpur.
Marwar Cold Storage Company, Ratanada Bridge, Jodhpur.
Marwar Industries, Kuchaman House, Jodhpur.
Marwar Industries Ltd., Jodhpur.
Marwar Kala Mandir Ltd., Jodhpur.
Marwar Mercantile Co., Ltd., Kuchaman (Rajasthan).
Marwar Oil Mills, Jodhpur.
Minerva Hotel, Station Road, Jodhpur.
Mittal Sports, Ajmer Road, Jaipur.
M. Kumbhat & Sons, Jodhpur.
Modern Hair Dressers, Station Road, Jodhpur.
Modern Tailors, Outside Sojatigate, Kutchery Road, Jodhpur.
Mohan Brothers, Outside Jalorigate, Jodhpur.
Mohan Brothers, Furniture House, Station Road, Jodhpur.
M. S. Cycle Stores, Inside Sojatigate, Jodhpur.
M. Suraj Raj & Co., Ganchha Bazar, Jodhpur.
Nagaur Electricity Co., Ltd , Jodhpur.
Narsinghmal Mehta & Co., Sojatigate, Jodhpur.
Nathmal Tarachand Bothra, Rangri Ka Chowk, Bikaner (Rajasthan).
National Motors, Mirza Ismail Road, Jodhpur.
National Tractors, Chopasni Road, Jodhpur.
National Weaving Industries, Nagaurigate, Jodhpur.
Natwar Automobiles & Allied Industries Ltd., Jodhpur
Northern India Machinery Corporation, Ras House, Jodhpur.
O P Sanghi & Co., Jodhpur.
Pali Electricity Co., Ltd , Jodhpur
Pannalal Manchalal Khatri (Sindawala), Tamakhu Bazar, Jodhpur (Rajasthan)
Paradise Trading Corporation, Station Road Jodhpur.
Perfect Advertisers, Sojatigate, Jodhpur
Phalodi Electricity Co., Ltd Jodhpur
P. M. Allah Baksh & Son, Mirza Ismail Road, Jaipur (Rajasthan)
Praja-Sewak Weekly, Inside Sojatigate, Jodhpur (Rajasthan).
Prakash Optical & General Mart, Minerva Talkies Building, Shop No. 9, Jodhpur
Prem's Universal Store, Kutchery Road, Jodhpur.
Pustak Bhandar, Chopani Road, Jodhpur
Rai Bahadur Ramprasad Rajgarhia, 12 Prithviraj Road, Jaipur.
Rajasthan Metal & Rolling Mills, Ltd., Ratanada (Rajasthan).
Rajasthan Mineral & Co., 12, Prithviraj Road, Jaipur.
Rajasthan Oil Mills Association Lake House, Udaipur (Rajasthan).
Rajasthan Printing and Dyeing Mills, Nagaurigate, Jodhpur.
Rajasthan Traders, 1/B Road, Sardarpura, Jodhpur.
Rajasthan Trading Corporation, Station Road, Jodhpur.
Rajputana Metal Works, 1 B Road, Sardarpura, Jodhpur.
Rajputana Stationery Mart, Sojatigate, Jodhpur.
Rajputana Trading Co., Ltd , Jodhpur.
Ramesh Films Motion Picture Distributors, Olympic Cinema Building, Jodhpur (Rajasthan).
Ramgopal Pukhraj, Juni Bagar, Jodhpur.
Ramlaxman Stores, Kutchery Road, Jodhpur.
Rana Sewashram, Perfumed Hair Oil Manufacturers, Jalorigate, Jodhpur.
Rashtriya Khadi Bhandar, Sojatigate, Jodhpur.
R. B. Seth Moolchand Nemchand, Automobile Dealers, Jodhpur.
Regal Sports, Railway Road, Jodhpur.
R. P. Agdayemawer & Sons (Regd.), Moti Doongri Road, Jaipur (Rajasthan).

Sainik Motors, Kutchery Road, Jodhpur.
Sajjan Stores, Jalori Gate, Jodhpur.
Scientific Apparatus & Chemical Works, Kankaria Building, Jalori Gate, Jodhpur.
Seth Raghunathdas Shreeram Parihar, Kirana Merchants, Kotla Bazar, Jodhpur.
Shankerlal & Sons, Station Road, Jodhpur.
Shanti Bhawan Lodge, Jodhpur.
Sharma Brothers, News Paper Agents, Baiji Talab, Jodhpur.
Shreeram Hajarimal Rangwala, Jodhpur.
Shri Aron Marble Ltd., Jodhpur.
Shri Mahalaxmi Colour Mfg. Co., Ltd., Erinpura (Rajasthan).
Shri Marwar Printers Ltd., Jodhpur.
Shri Shardadevi Moondhra Motor Company, Station Road, Jodhpur.
Suraj Mal P. Sons, Minerva Cinema Building, Jodhpur.
Surana Bros., Sojati Gate, Jodhpur.
Surana & Co., Minerva Building, Jodhpur.
Tak Studios, opp. Prem Prakash, Jaipur.
Thahryamal Balchand, Kundan Nivas, Ajmer Road, Jaipur.
Thakar Das Khatri & Sons, Tripolia Bazar, Jodhpur.
Udaipur Distillery Company Limited, The, Udaipur (Rajasthan).
Udaipur Mineral Development Syndicate, Ltd., Bhilwara (Mewar State).
Uma Medical Stores, Khandaphalsa Road, Jodhpur.
United Motors, Sojati Gate, Jodhpur.
Vijaya Medical Stores, Jodhpur.
Vyas, P. B., & Co., Jalori Gate, Jodhpur.
Western Indian States Motors, Jaipur.

CLASSIFIED LIST OF TRADES & PROFESSIONS

AGRICULTURAL IMPLEMENTS

Hari Narain Kacholia & Co., Mirza Ismail Road, Jaipur.
M. Kumbhat & Sons, H.O. : Jodhpur.
National Motors, Mirza Ismail Road, Jaipur.
National Tractors, Chopasni Road, Jodhpur.
Rajasthan Arhat Factory, Head Office : Ghasmandi, Jodhpur.
Sainiks Motors, Sojati Gate, Jodhpur (Rajasthan).
Western Indian States Motors, Jaipur (Rajasthan).

AIR SERVICES

Indian National Airways, Sardarpura, Jodhpur.
O. P. Sanghi & Company, Jodhpur.

AUTOMOBILE & SPARE PARTS DEALERS

Amar Automobiles, Jalori Gate, Jodhpur.
Automobile Works, Railway Road, Jodhpur.

Grams : "SUPERINDIA" Phones { Residence : 423 Sales : 462

BHATIA BROS.
P.O. Box 46,
Chopasni Road,
Jodhpur (Rajasthan)

Importers and Distributors of Automotive Replacement Parts.

LAXMI MOTOR COMPANY, Sojati Gate, Jodhpur. Specialists in Dodge and Ford Spare Parts, Oldham & Mitar Batteries, Caltex Petrol Pump at Station Road, Jodhpur ; Bus Fleet Owners.

NATIONAL MOTORS
Gram : Transport Jodhpur
Phone : Jodhpur : 562
Ajmer : 383
Kotah : 70

KUTCHERY ROAD, AJMER
CHOPASNI ROAD, JODHPUR
NAYAPURA, KOTAH

Authorised Dealers & Distributors for
DODGE Cars & Trucks

Natwar Automobiles & Allied Industries Ltd., Jodhpur.
R. B. Seth Moolchand Nemchand, Jodhpur (Rajasthan).
SAINIKS MOTORS, Sojatigate, Jodhpur (Rajasthan). Phone : 473. Grams : "SAINIKS". Dealers : Ford Spare Parts, Hindustan Cars, Studebaker Trucks and Ferguson Tractors.

BAKERS & CONFECTIONERS

Delhi Mishthan Bhandar, Chaura Rasta, Jaipur.
Marudhar Stores, Railway Road, Jodhpur (Rajasthan).

BOOKSELLERS, PUBLISHERS & STATIONERS

Bhargava Brothers, Baijika Talab, Jodhpur.
D. R. Sharma & Sons, Sojati Gate, Jodhpur (Rajasthan).
Dwarkadas Rathe, Ratnada Bridge, Jodhpur.
Empire Store, Mirza Ismail Road, Jaipur.
Rajputana Stationery Mart, Sojati Gate, Jodhpur.
Rashtriya Pustak Bhandar, Chopasni Road, Jodhpur.
Sulabh Prakashan, Sojati Gate, Jodhpur.

BRASSWARE

P. M. Allah Buksh & Son, Mirza Ismail Road, Jaipur (Rajasthan).
Thahryamal Balchand, Kundan Niwas Building, Ajmer Road, Jaipur.

BUILDING MATERIALS

A. Lalchand, inside Sojati Gate, Jodhpur.
General Marketing Co., Ajmer Road, Jaipur.
Indra & Company, Jodhpur (Rajasthan).
Madan Gopal Zaveri & Co., Tripolia Bazar, Jaipur City.
M. Kumbhat & Sons, H. O. Jodhpur.
Marwar Cement Co., Station Road, Jodhpur (Rajasthan).

CARPET MANUFACTURERS & DEALERS

Gobindram Ramchand, Ajmer Road, Jaipur.
Indian Industries Palace, Ajmer Road, Jaipur City.
THAHRYAMAL BALCHAND, (Estd. 1918), Ajmer Road, Jaipur (India). Manufacturers & Exporters : Ivory & Brass Artwares; Silk Tie & Dye Scarfs; Wooden Artwares; Carpets; Sandalwood Articles; Precious Stones; Ornaments; Jewelleries; Jaipur Shoes, Embroidery Works and Jaipur Handprinted Cloths etc.

CATERERS, PURVEYORS & BAZAR SUPPLIERS

Delhi Mishthan Bhandar, Sawai Mansingh Highway, opp. Prem Prakash, Jaipur
Marudhar Stores, Railway Road, Branch : Kutchery Road, Jodhpur.

CENTRIFUGAL PUMPS

J. Santosh & Sons, Jodhpur.
M. Kumbhat & Sons, H. O. Jodhpur.

CHEMISTS & DRUGGISTS

Bhandari Brothers, Opp. Mahatma Gandhi Hospital, Jodhpur (Rajasthan).
Bombay Medical Stores, Station Road, Jodhpur.
Chaturbhuj & Co., Katla Bazar, Jodhpur.
Jain Brothers, Station Road, Jodhpur.
Laung Medical Stores, Sardar Market, Jodhpur.
Porwal Brothers, Station Road, Jodhpur.
Rajputana Medical Stores, Sojati Gate, Jodhpur.
Sohan Medical Stores, Sojati Gate, Jodhpur.
Uma Medical Stores, Khandaphalsa Road, Jodhpur.
Vijaya Medical Stores, Jodhpur (Rajasthan).

CINEMAS & THEATRES

Anand Theatres Ltd., Jodhpur.
Bhawani Talkies, Jaipur.
Charbhuja Talkies, Jodhpur.
Chetak Cinema, Udaipur.
Chitra Cinema, Jodhpur.
Krishna Cinema, Jodhpur.
Man Prakash Cinema, Jaipur.
Minerva Cinema, Station Road, Jodhpur.
Olympic Cinema, Jodhpur.
Polo Victory Cinema, Jaipur.
Prem Prakash Talkies, Jaipur.
Ram Prakash Talkies, Jaipur.
Stadium Cinema, Jodhpur.

CLOTH MERCHANTS

Delhi Cloth Mill Branch : Sojati Gate, Jodhpur.
India Agencies, Riyan House, Sojati Gate, Jodhpur.
Rochaldas Gidoomal & Co., Mehta Market, Jodhpur.
Shreeram Hajarimal Rangwala, Jodhpur.
Suraj Mal P. Sons, Minerva Cinema, Jodhpur (Rajasthan).

COTTON MILLS

Champalal Ramsarup, Beawar.
Edwards Mills Ltd., Beawar.
Harotl Cotton Press Ltd., Beawar.
Krishna Mills Ltd., Beawar.
Mahalaxmi Mills Co., Ltd., Beawar.
Maharaj Kishangarh Mills, Kishangarh (Rajasthan).
Maharaja United Mills Ltd., Pali (Marwar).
Mewar Textile Mills Ltd., Bhilwara.

CURIOS & ANTIQUITIES

R. B. Moondhra & Company, Moondhra Palace, Jodhpur.
Thahryamal Balchand, Kundan Niwas Building, Ajmer Road, Jaipur.

DIESEL ENGINES

Bhargova Industries Ltd., Bhargova House, Banj Imli, Ajmer.
Hari Narain Kacholia & Co., Mirza Ismail Road, Jaipur.
M. Kumbhat & Sons, H.O. Jodhpur.

ELECTRICAL GOODS & APPLIANCES

Bhargova Industries Ltd., Bhargova House, Banj Imli, Ajmer.
Bijli, Minerva Building, Station Road, Jodhpur.
General Marketing Co., Ajmer Road, Jaipur.
Girdhar Ganesh Trading Co., Bhomiyonji-Ki-Ghati, Jodhpur.
Hari Narain Kacholia & Co., Mirza Ismail Road, Jaipur.
India Radiogram Corporation, P.O. Box 63, Kutchery Road, Jodhpur.
Industrial Command of India Ltd., Kutchery Road, Jodhpur.
J. Santosh & Sons, Jodhpur.
M. Kumbhat & Sons, H. O. Jodhpur.
PREM'S UNIVERSAL STORES, Kutchery Road, Jodhpur (Rajasthan). Phone : 522. Sole Agents for Globe Fans, Main Stockists for I.E.W. Orient and Emco Fans, Bengal and Pradip Lamps, Paramite & Nicco Cables.

ENGINEERS & CONTRACTORS

HINDUSTAN ENGINEERING WORKS, Jalori Gate, Jodhpur, (Rajasthan). Engineers, Founders, Manufacturers and Contractors. Phone : 345.
J. SANTOSH & SONS, Jodhpur, Mechanical, Civil, Marine, Electrical, Radio, Cine and Air-Conditioning Engineers and Contractors, General Merchants and Suppliers of Engineering Products. Motion Picture Equipment and Photographic Goods.
The Rajputana Metal Works, 1/B Road, Sardarpura, Jodhpur.

FILM DISTRIBUTORS

Associated Film Distributors, Station Road, Jodhpur.
Bothra Film Exchange, Jodhpur.
Chitraprakash Film Exchange, Ajmer Road, Jaipur City. Phone : 370.
George Talkie Circuit, Jodhpur.
Jagdamba Film Distributors, Jodhpur.
Kamal Pictures, Jodhpur.
Purnima Film Exchange, Jodhpur.
Rajshree Pictures, Jaipur.
Ramesh Films, Olympic Cinema Building, P.O. Box No. 57, Jodhpur (Rajasthan).
Saraswati Film Exchange, Jodhpur.

GENERAL MERCHANTS & COMMISSION AGENTS

Arora Crockery House, Minerva Building, Railway Road, Jodhpur (Rajasthan).
Arora Stores, Sojati Gate, Jodhpur (Rajasthan).
Bankidas Mooltaj, Merta City (J. Rly.).
Bhoot Oil Mills, Industrial area, Jodhpur.
Bhawanlal Umed Raj Dhariwal, Ganchha Bazar, Jodhpur (Rajasthan).
D. R. Sharma & Sons, Sojati Gate, Jodhpur.
Fatehraj Manakchand Marmat, Katla Bazar, Jodhpur.
General Marketing Co., Ajmer Road, Jaipur.
H. Alloo Mian Kadar Bux & Bros., Katla Bazar, Jodhpur.
Indra & Company, Station Road, Jodhpur.
J. Santosh & Sons, Jodhpur.
Marudhar Stores, Railway Road ; Branch : Laxman Stores, Kutchery Road, Jodhpur.
Mohan Brothers, Merchants, Outside Jalori Gate, Jodhpur (Rajasthan).
O. P. Sanghi & Co., Railway Road, Jodhpur.
Paradise Trading Corporation, Station Road, Jodhpur.
Ramlaxman Stores, Kutchery Road, Jodhpur.
Ratan Trading Company, Katla Bazar, Jodhpur.
Shreeram Hajarimal Rangwala, Jodhpur.

GLASSWARE DEALERS & PICTURE FRAMERS

Arora Brothers, House of Crockery, Station Road, Jodhpur.
General Marketing Co., The, Jodhpur, Rajasthan.
Madan Gopal Zaveri & Co., Tripolia Bazar, Jaipur City.
Pusaram Bhikaram, Ghasmandi, Jodhpur.

GRAMOPHONE DEALERS

DURGASINGH & SON

ESTD. 1918

Sole Proprietors :

THE MARWAR RECORD CO.

Importers, Distributors,
Manufacturers & Engineers

P. O. Box 88, JODHPUR

Grams : "MUSIC" — Phones : Office 380 ; Res. 380A

HAIR OIL & SOAPS

BHARAT SEWA ASHRAM, Jodhpur, Manufacturers of High quality Hair Oil and Soaps. Grams : "JAYKAYCO". Phone : 190.
Ram Sewashram, Jalori Gate, Jodhpur (Rajasthan).

HANDICRAFTS

SURANA & CO., Manufacturers of Jodhpuri Churni Sarees, Minerva Building, Jodhpur.

HARDWARE DEALERS & IRONMONGERS

A. Lalchand, Inside Sojati Gate, Jodhpur.
General Marketing Co., Ajmer Road, Jaipur.
Hari Narain Kacholia & Co., Mirza Ismail Road, Jaipur.

HOSIERY MANUFACTURERS & DEALERS

Empire Store, Mirza Ismail Road, Jaipur.
Marudhar Stores, Railway Road ; Branch : Kutchery Road, Jodhpur

HOTELS AND RESTAURANTS

Anand Cinema Restaurant, Jodhpur.
Chitra Cinema Hotel, Mehta Market, Jodhpur.
Dak Bungalow, Station Road, Jodhpur.
Delhi Mishthan Bhandar, Chaura Rasta, Jaipur, Rajasthan.
Edward Memorial Hotel, Ajmer Road, Jaipur.
Grand Hotel, Railway Road, Jodhpur (Rajasthan).
Hind Hotel, Chaura Rasta, Jaipur.
Jagdish Hotel Restaurant, Station Road, Jodhpur.
Kailash Hotel, Johri Bazar, Jaipur.
Lake View Hotel, Udaipur.
Mohmmadi Hotel, Station Road, Jodhpur.
Olympic Cinema Restaurant, Jodhpur.
Polo Victory Hotel, Station Road, Jaipur.
Shanti Bhawan Lodge— '0' Miles from Railway Station, Jodhpur.

IMPORTERS AND EXPORTERS

Bhatia Bros., Chopasni Road, Jodhpur (Rajasthan).
Madan Gopal Zaveri & Co., Tripolia Bazar, Jaipur City.
O.P. Sanghi & Co., Jodhpur.
Sarana & Co., Minerva Building, Jodhpur.
Thahryamal Balchand, Kundan Niwas Building, Ajmer Road, Jaipur

INSURANCE AGENTS AND SPECIALISTS

Chandra Industrial and Commercial Corporation, Kutchery Road, Jodhpur.
M. Kumbhat & Sons, H. O. : Jodhpur. Branch : Jaipur.

IVORYWARES

Gobindram Ramchand, Ajmer Road, Jaipur (India).
Indian Industries Palace, Ajmer Road, Jaipur City.
P. M. Aliah Baksh & Son, Mirza Ismail Road, Jaipur (Rajasthan).
THAHRYAMAL BALCHAND (Estd. 1918), Ajmer Road, Jaipur (India). Manufacturers and Exporters : Ivory & Brass Statuettes ; Silk, Tie & Dye Scarfs ; Wooden Artwares ; Carpets ; Sandalwood Articles ; Precious Stones Ornaments ; Jewellaries ; Jaipur Shoes ; Embroidery Works and Jaipur Hand Painted Clothes, etc.

JEWELLERS

Gobindram Ramchand, Ajmer Road, Jaipur.
Madan Gopal Zaveri & Co., Tripolia Bazar, Jaipur City. Phone : 468.
Nathmal Tarachand Bothra, Rangri Ka Chowk, Bikaner (Rajasthan).
P. M. Allah Buksh & Son, Mirza Ismail Road, Jaipur (Rajasthan).
Thahryamal Balchand, Kundan Niwas Building, Ajmer Road, Jaipur.

MACHINERY MANUFACTURERS, DEALERS & PART SUPPLIERS

Hari Narain Kacholia & Co., Mirza Ismail Road, Jaipur (Rajasthan).
Northern India Machinery Corporation, Sir Mirza Ismail Road, Jaipur (Rajasthan).
HINDUSTAN ENGINEERING WORKS, Jaleri Gate, Jodhpur (Rajasthan), Oil Kolus, Flour Mills, Oil Engines & Spares, N.B.C. Ball bearings, Pulleys, Electric Motors, Mico Bosch Fuel Injection Equipment. etc. Phone : 345.

MANUFACTURERS' REPRESENTATIVES

Arora Crockery House, Minerva Building, Railway Road, Jodhpur (Rajasthan).
Chandra Industrial & Commercial Corporation, Kutchery Road, Jodhpur (Rajasthan).
General Marketing Co., Ajmer Road, Jaipur.
India Radiogram Corporation, P.O. Box 63, Kutchery Road, Jodhpur.
Jaipur Paper Mart, Tripolia Bazar, Jaipur City.
J. S. Dhaddha & Co., opp. Mahatma Gandhi Hospital, Jodhpur (Rajasthan).
M. Kumbhat & Sons, H. O. : Jodhpur.
Prem's Universal Stores, Kutchery Road, Jodhpur (Rajasthan). Phone : 522.
Vyas, P. B. & Co., Jalori Gate, Jodhpur.

MILL GIN STORES

A. Laichand, Inside Sojati Gate, Jodhpur.
Chandra Industrial and Commercial Corporation, Kutchery Road, Jodhpur.
Hari Narain Kacholia & Co., Mirza Ismail Road, Jaipur.

MINES

Bhopal Mining Works, Bhilwara (Rajasthan).
Rajhans Minerals, Udaipur.
Silica Miners, Jodhpur.
Ramlal Kachhwaha & Sons, Station Road, Jodhpur (Rajasthan).

MOTOR CAR DEALERS

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JODHPUR
Automobile and Spare Parts Dealers
Branches :
AJMER & KOTAH

NEWSPAPERS AND PERIODICALS

Balidan (Weekly), Jodhpur.
Jaibhoomi (Daily), Jaipur.
Jwala, The, (Hindi Weekly), Sojati Gate, Jodhpur.
Laikar Weekly (Hindi), Tripolia, Jodhpur (Rajasthan).
Lokjeevan (Weekly), Minerva Building, Jodhpur.
Lokraj (Weekly), Minerva Building, Jodhpur.
Lokvani, The Hindi Daily of Rajasthan, Jaipur City.
Navyug (Daily), Jaipur.
Praja-Sewak (Weekly), Inside Sojati Gate, Jodhpur (Rajasthan).
Rashtradoot, Jaipur.
Vivek (Weekly), Jalap Mohalla, Jodhpur.

PAPER MERCHANTS

Jaipur Paper Mart, Tripolia Bazar, Jaipur City (Rajasthan).
Kitabghar, Outside Sojati Gate, Jodhpur.
Kumbhat Binding Works, Jodhpur.
Rajputana Stationery Mart, Sojati Gate, Jodhpur.

PETROLEUM DEALERS AND AGENTS

Bankidas Moolraj & Co., Merta House, Jalori Gate, Jodhpur (Rajasthan).
B. B. Moondhra & Company, Station Road, Jodhpur.
Shankerlal & Sons, Kutchery Road, Jodhpur.

PHOTOGRAPHERS & PHOTOGRAPHIC MATERIAL DEALERS

Jaipur Art Studio, Jodhpur.
K. H. Thanvi & Co., Jalori Gate, Jodhpur (Rajasthan)
O. P. Sanghi & Co., Jodhpur.

PRESENTATION ARTICLES

Jodhpur Zinc Metal Works, Jodhpur.
R. C. Bhargava & Co., Sawai Mansingh Highway, Jaipur.

PRINTERS & PUBLISHERS

Fine Art Printing Press, The, Srinagar Road, Ajmer.
Praja-Sewak Press, Inside Sojati Gate, Jodhpur.
Rashtradoot Press, Haldiyon-Ka-Rasta, Jaipur.
Sumer Printing Press, Outside Sojati Gate, Jodhpur.

PROVISION MERCHANTS

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Empire Store, Mirza Ismail Road, Jaipur.

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Regal Sports, Railway Road, Jodhpur.

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Naraina, Station Road, Jodhpur.
Rajasthan Tailors, Station Road, Jodhpur.

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M. Kumbhat & Sons, H.O. : Jodhpur. Branch : Jaipur.
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Gopal Watch Co., Sojati Gate, Jodhpur.
H. O. Brothers, Watch Merchants, Tripolia Gate, Jaipur (Rajasthan).
Pusaram Bhikaram, Ghasmandi, Jodhpur.
R. C. Bhargava & Co., Sawai Mansingh Highway, Jaipur.
Shankerlal & Sons, Station Road, Jodhpur.
Surana Brothers, Sojati Gate, Jodhpur.
Surana & Company, Sojati Gate, Jodhpur.
Thakar Das Khatri & Sons, Tripolia Bazar, Jaipur (Rajasthan).

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Central Radio & Service Co., Radio House, Ajmer.
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Dharmdas Bros. (Emperor of Sarees), 612, Na'a Bazar, Ajmer.
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Fram Bar & Restaurant, Ajmer.
Framroz N. Contractor, Beawar Road, Ajmer. Phone : 337.
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K. D. Framjee Marfatia, Station Road, Ajmer.
Kelly & Co., Kelly Street, Ajmer.
K. J. Mehta & Bros., opp. Railway Station, Ajmer.
Kohinoor Watch Co., 6, Kutchery Road, Ajmer.
M. R. & Sons, Opposite Railway Station, Ajmer.
New Drapery House, Kaiser Ganj, Ajmer.
New General Stores, Beawar Road, Ajmer.
P. N. Kapoor & Company, Station Road, Post Box No. 50, Ajmer.
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Rajputana Electric Works, Kaisarganj, P.O. Box No. 107, Ajmer.
Rajasthan Civil & Electrical Works, Near Martindale Bridge, Ajmer.
R. D. Manjar & Co., Imperial Road, Ajmer.
Royal Bar & Restaurant, opp. Railway Station, Ajmer.
Sharda Brothers, Imperial Road, Ajmer.

TRIPURA

Capital : **Agartala.**

Area : 4,032 sq. Miles ; Population : 6,39,029.

The number of refugees was 361,719 as on 31st December 1956. The total estimated population as on 31st December 1956 was 9,05,000.

After the reorganization in November 1956, the State has been a Union Territory.

Tripura Territory is bounded on the north by the Sylhet District of East Pakistan and Cachar District of the Indian Union, on the west by the Sylhet, Tippera and Noakhali Districts of East Pakistan and on the east by the Lushai Hill Tract District of the Indian Union and the Chittagong Hill Tracts of East Pakistan. The major portion of the Territory is hilly and full of jungles.

The agricultural wealth of the Territory consists of paddy, jute, cotton, tea and fruit such as pineapple, jackfruit, etc., while forests yield timber, firewood, bamboo and charcoal. Paddy is the main source of revenue.

There is only one District—Tripura, one municipality and no Panchayats.

The Territory is divided into ten administrative Sub-Divisions—Sadar, Khowai, Kailashahar, Dharmanagar, Sonamura, Udaipur, Belonia, Sabroom, Kamalpur and Amarpur.

POPULATION

Sadar Sub-Division has a population of 353,000 (31-12-1956) and is divided into ten Tahsils Sadar, Puranagartala, Bamutia, Mohanpur, Simna Ishanchandranagar, Kamala-sagar, Takarjala, Bishalgar, Charilam.

Khowai Sub-Division has a population of 75,000 (31-12-1956) and is divided into four Tahsils Khowai, Kalyanpur, Asharambari and Teliamura.

Kailashahar Sub-Division has a population of 90,000 (31-12-1956) and is divided into two Tahsils Kailashahar and Fatikroy.

Dharmanagar Sub-Division has a population of 90,000 (31-12-1956) and is divided into five Tahsils Dharmanagar, Brajendranagar, Kurti, Kanchanpur and Longai.

Sonamura Sub-Division has a population of 61,000 (31-12-1956) and is divided into five Tahsils Sonamura, Kathalia, Pakshanagar, Dharpur and Matinagar.

Udaipur Sub-Division has a population of 67,000 (31-12-1956) and is divided into two Tahsils Radhakishorepore and Salgarah.

Belonia Sub-Division has a population of 60,000 (31-12-1956) and is divided into seven Tahsils Belonia, Rajnagar, Ramchandranagar, Puranrajbari, Sidhinagar, Rishyamukh and Muhuripur.

Sabroom Sub-Division has a population of 31,000 (31-12-1956) and is divided into five Tahsils Sabroom, Manu, Amilighat, Samarendranagar and Gorakapa.

Kamalpur Sub-Division has a population of 40,000 (31-12-1956) and is divided into two Tahsils—Kamalpur and Kulai.

Amarpur Sub-Division has a population of 29,000 (31-12-1956) and is divided into three Tahsils—Biryani, Omphi and Dumboornagar.

The Chief Commissioner who is the head of the Territory, is assisted by Secretaries, each in charge of several Departments.

There is also a District Magistrate and an additional District Magistrate, and for each of the Divisions an S.D.O. On the judicial side there is a Judicial Commissioner's Court which is the highest Court in the Territory. There is also a District and Sessions Court, one Court of Subordinate and Assistant Sessions Judge and eight Munsiff Courts.

No. of persons speaking each of the languages prevalent in the State

Bengali 375,635 ; Tribal 197,458 ; Hindi 37,079 ; Manipuri 19,066 ; Others 16,449.

Budget for 1958-59 : Revenue Rs. 39 lakhs ; Expenditure : Rs. 329·23 lakhs.

ECONOMY

The area in acres under the crop and the production in mds. are given below (1956-57) :

Rice 365,558 ; 4,139,461 ; Sugarcane 5,296 ; 103,578 ; Pulses 1,510 ; 7,391 ; Jute 22,022 ; 271,344 ; Cotton 15,855 ; 45,240 ; Tea (1956) 11,242 ; 4,992,113 (lbs.).

Area of Territory in acres : 2,634,240 ; Area cultivated 507,000 (1955-56) ; Area under wet cultivation 424,000 (1955-56).

Total cattle 302,865 ; Total buffaloes 40,477 ; Horses and ponies 746 ; Sheep 6,774 ; Goats 101,332 ; Other livestock 40,114.

The fishing population may be reckoned as 2,500 families.

Road mileage 724. Of this motorable 424, metalled 152, unmetalled 272.

There is no railway or water-way in the Territory. There are however, five aerodromes.

There are no irrigation works in the Territory.

Power position in 1956 : Installed capacity of plants 469 kW. No. of units generated 1,032,144 kWh. No. of units supplied to industry 120,374, for domestic purposes 572,211, for commercial 59,546, for public lamps 24,809.

The source of power is the Agartala Electric Supply in Agartala town. This is proposed to be nationalized and expanded. Expansion was expected to be completed at the end of 1957 when the capacity of the plant was expected to increase to 535 kW.

Average daily number of workers employed in registered factories 1,497 (1955).

Minimum wages are fixed in the following : tea plantations (Rs 31 15-0 a month), bidi making (Rs. 30 a month).

Total no of members of trade unions . 6,365

Labour Welfare Scheme : The Tripura Labour Welfare Scheme offers recreational, adult educational and vocational training facilities such as sewing, knitting, basket making etc. to the tea plantation labourers during the Second Five Year Plan. One Labour Welfare Centre was opened on 15-3-1957 at Manuvalley T.E. under Kala shar Sub-Division. It is located in between 3 gardens and will serve about 800 labourers.

Employment Exchange : One District Employment Exchange was opened on 23-2-1957 at Agartala. In addition to the primary duty of placements, other important functions such as collection of factual information relating to employment situation on a local basis and for particular industries and occupation will be also made.

There are no large-scale industries in the Territory. Cottage industries include handlooms, carpentry, black-smithy, bidi making, soap, basketry, pottery. The total value of the finished goods will be about Rs. 1·40 crores. Most of these are family undertakings. Out of the 5,800 persons engaged in cottage industries about 800 are paid workers.

There are three types of land tenure in the Territory : Kayemi Taluks, Takshishi Taluks, Khas Jami or Royati right.

The Acts governing the three systems are : Rajaswa Sambandhiya Niyamboli for the Kayemi, Contract and customary law for the Takshishi, and the Landlord and Tenant Act (Act I of 1296 T.E.) for the Khas Jami.

The Kayemi Taluks are held in fixed rent with full and permanent rights of ownership. If the rent is in arrear the taluk can be put up for sale.

The Takshishi are held on settlement, mostly for 20 years with succession right of renewal on enhanced revenue.

The more important provisions of the Landlord-Tenant Law are as follows :

Term of settlement is from 5 to 7 years. But if the tenant continues to pay rent, the settlement remains valid. Under the existing Tenancy Act, a tenant has no legal right to build a pucca house, excavate a tank, or grow or fell a prohibited tree in his holding. He is liable to be ejected if he fails to mutate his name within 6 months after his succession. Pucca structures can be constructed on lands settled in higher right (Kayemi or Takshishi right).

No laws have been passed for the expropriation of the non-proprietary rentier class—the so-called Zamindari or Jagirdari abolition Acts.

EDUCATION, HEALTH, CO-OPERATION

Total no. of elementary schools (basic and primary) for boys 987, for girls 7. Total enrolment in schools for boys 58,557 (including 15,977 girls) and in schools for girls 288 (including 41 boys). Total no. of teachers in elementary schools 2,369 (including 246 females.)

Total number of Secondary schools—(Higher Secondary, High, Sr. Basic, Middle and Junior High) 106 for boys and 11 for girls. Total enrolment in schools for boys 16,344 (including 1,867 girls) and in schools for girls 1,359. Total number of teachers in Secondary schools 857 (including 112 female teachers).

There are two colleges for general education (Govt. 1 and Private 1). Total enrolment 1,415 (including 116 girls). Total number of teachers 52 (including 9 Demonstrators, 8 for Govt. and 1 Private).

There is one private college for special education (music) for females with 12 teachers. Total number 131 (including 15 boys). Of the elementary schools total number of those owned by Govt. is 805 and Private 189. The respective figures for secondary schools with higher secondary is 48 and Private 69.

There are 313 Adult Education Centres (Govt. 312 and Private 1). Of those 271 are for males and 42 for females. Total number of persons specially educated 13,950 (of which females 1,889). Total number of teachers 639 of which females 66.

Total expenditure for Education (1955-56) : Rs. 70,42,56s.

Elementary education is free in the whole Territory but not compulsory. The number of children in the age-group 6-14 would be about 80,000.

There are 334 institutions devoted to social education ; the number of teachers available is 625. The number of persons socially educated in the year would be 7,815 men and 712 women. The total expenditure was (1955-56) Rs. 5,41,717. The number of adults to be socially educated is about 12,400.

Position 1956 : There are 6 allopathic hospitals (including one Police Hospital) and 91 dispensaries, (75 under the D.H.S. and 16 under the Director of Rehabilitation) (including one ayurvedic and 6 homeopathic). The total number of beds is 215. The total number of allopathic doctors is 105 including ayurvedic and homeopathic ; nurses 39 ; *dais* 17. There are no medical colleges in the Territory.

The total number of co-operative societies in the Territory is 281, number of members 14,606, the total working capital Rs. 18,99,840.

The no of different types, the membership and the working capital of co-operative societies are given below :

	Number	Members	Working Capital (Rs.)
State co-op. Bank	1	102 (societies) 8 (individuals)	8,39,633
Central Marketing	1	25	50,000
Central Weavers	1	28	1,887
State co-op. Union	1	41 (societies) 18 (individuals)	—
Agricultural Credit	142	5,500	3,94,635
Agricultural purchase & Sale	19	800	45,698
Agricultural Marketing	1	—	—
Fishermen	7	700	45,735
Farming	15	1,467	3,00,641
Non-Agri.—Credit	6	207	4,642
Non-Agri.—Non-Credit	87	5,710	2,16,969

The budget allotment for the Department 1957-58) : Rs. 1,45,507.



J.K. Organisation is not content to rest on its laurels in a spirit of complacency. It is striving with all its vast resources at its command to meet the possible requirements of the country through various sectors.

COTTON TEXTILES	Dhoties, Sarees, Shirting, Longcloth, Coating, Mulls, Mercerised Prints, Cotton Blankets in multi check designs and colours and woollen finish, Mercerised, Drills, Tapestry, Canvas, Yarn, etc.
WOOLLEN TEXTILES	Woollen Worsted, Cord Suitings, Tweed-Flannel, Serge, Knitting Wool, Rugs, Blankets, etc.
JUTE TEXTILES	Canvas, Hessian, Bags, Twine, Chair cloth.
HOSIERY	Underwears, Shirts, Knickers, Socks, etc.
ALUMINIUM	Alloys, Sheets, Circles, Coil of Strips, Shots, Expanded Metal, Notched Bars, etc.
STEEL	Bars, Rods, Steel Castings for Sugar Mills, Oil Mills and Railways.
ENGINEERING	Engineer's Files, Bailing Hoops for Jute Mills and Cotton Mills, etc.
CHEMICALS	Heavy Acids, Chemicals, Disinfectants, Insecticides, Ayurvedic and Unani Medicines, etc.
PAINTS	Paints for Marine & Industrial requirements, Paints for buildings and other uses—Enamels, Varnishes and Distempers.
SUGAR	Quality " Majholia " sugar.
STRAWBOARDS	Strawboards, Duplex Boards, Mill Boards and Corrugated Boards.
PLASTICS	Electrical Fittings and other household utility materials, etc.
OIL-SOAP-ICE	Industrial Oils, Mustard Oil, Soaps.

SERVICES

COMMERCE—TRADE—INVESTMENT—BANKING—INSURANCE—IMPORT—EXPORT

J. K. ORGANISATION

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UTTAR PRADESH

Area : 113,409 square miles.

Population : 63,215,742 (1951 census).

Capital : Lucknow.

Uttar Pradesh is a member of the Central Zone of which the other member is Madhya Pradesh. The headquarters of the zone is at Allahabad. The Vice-Chairman for the first year is the Chief Minister of U.P.

Total income of population of State in 1954–55 (in terms of 1948–49 prices) : Rs. 1,823·5 crores ; total rural income (1954–55) : Rs. 1,070·2 crores ; total urban income (1954–55) : Rs. 628·2 crores.

***Per capita* income for State (1954–55) : Rs. 276·7 ; *per capita* urban income (1954–55) : Rs. 698·0 ; *per capita* rural income (1954–55) : Rs. 210·1.**

Number of Districts : 51 ; Tahsils : 221 ; District Boards : 50* ; Municipalities : 126 ; Town Areas : 273 ; Notified Areas : 35 ; Number of elected seats to these Notified Areas : 58 (37 belong to the Scheduled Castes), Panchayats : 72,409 ; Villages : 111,722.

There are ten revenue divisions under ten full-fledged commissionerships namely Meerut (Hqrs. Meerut), Allahabad (Hqrs. Allahabad), Benares (Hqrs. Varanasi), Lucknow (Hqrs. Lucknow), Agra (Hqrs. Agra), Gorakhpur (Hqrs. Gorakhpur), Faizabad (Hqrs. Faizabad) and Rohilkhand (Hqrs. Bareilly). Jhansi (Hqrs. Jhansi) and the Kumaon (Hqrs. Nainital).

Names of the ten revenue divisions with the districts comprising each :

Meerut Division : **Dehra Dun, Saharanpur, Muzzafarnagar, Meerut, Bulandshahr.**

Agra Division : **Aligarh, Agra, Mainpuri, Etah, Mathura.**

Allahabad Division : **Farukhabad (Fategarh), Etawah, Kanpur, Fatehpur, Allahabad.**

Rohilkhand Division : **Bareilly, Bijnor, Budaun Moradabad, Rampur, Shahjahanpur, Pilibhit**

Jhansi Division : **Jhansi, Jalaun (Orai), Hamirpur, Banda.**

Banaras Division : **Varanasi, Mirzapur, Jaunpur, Ghazipur, Ballia.**

Gorakhpur Division : **Gorakhpur, Deoria, Basti, Azamgarh.**

Kumaun Division : **Naini Tal, Almora, Garhwal (Pauri), Tehri-Garhwal (Narendranagar).**

Lucknow Division : **Lucknow, Unnao, Rae Bareli, Sitapur, Hardoi, Kheri (Lakhimpur.**

Faizabad Division : **Faizabad, Gonda, Bahraich, Sultanpur, Pratapgarh, Barabanki.**

AREA, POPULATION

Names of the ten revenue divisions giving within brackets the area in square miles and population respectively :

Meerut Division (9,182 ; 6,718,310) ; Agra Division (8,653 ; 6,075,402) ; Rohilkhand Division (10,207 ; 7,217,666) ; Allahabad Division (10,207 ; 6,960,438) ; Jhansi Division (11,310 ; 2,888,522) ; Banaras Division (10,466 ; 6,849,031) ; Gorakhpur Division (9,558 ; 8,831,241) ; Kumaun Division (18,252 ; 2,159,982) ; Lucknow Division (12,031 ; 7,152,237) ; Faizabad Division (8,862, 7[illegible]..

Names of districts under each division showing within brackets the area in square miles and population respectively :

Meerut Division : Dehra Dun District (1,189 ; 362,005) ; Saharanpur District (2,147 ; 1,353,636) ; Muzaffarnagar District (1,634 ; 1,221,768) ; Meerut District (2,800 ; 2,221,217) ; Bulandshahr District (1,912 ; 1,499,884).

Agra Division : Aligarh District (1,950 ; 1,443,506) ; Mathura District (1,456 ; 912,264) ; Agra District (1,860 ; 1,501,391) ; Mainpuri District (1,674 ; 893,860) ; Etah District (1,713 ; 1,324,351).

Rohilkhand Division : Bareilly District (1,592 ; 1,209,233) ; Bijnor District (1,885 ; 964,196) ; Budaun District (2,014 ; 1,251,152) ; Moradabad District (2,316 ; 1,660,955) ; Shahjahanpur (1,760 ; 1,004,378) ; Pilibhit District (1,343 ; 504,428) ; Rampur District (899 ; 543,324).

Allahabad Division : Farrukhabad (1,660 ; 1,092,041) ; Etawah District (1,688 ; 970,695) ; Kanpur District (2,379 ; 1,939,867) ; Fatehpur District (1,641 ; 908,985) ; Allahabad District (2,839 ; 2,048,250).

Jhansi Division : Jhansi District (3,884 ; 877,607) ; Ja'aun District (1,761 ; 555,239) ; Hamirpur District (2,779 ; 665,429) ; Banda District (2,886 ; 790,247).

Banaras Division : Varanasi District (1,998 ; 1,978,634) ; Mirzapur District (4,369 ; 1,017,289) ; Jaunpur District (1,559 ; 1,517,173) ; Ghazipur District (1,299 ; 1,141,278) ; Ballia District (1,241 ; 1,194,657).

Gorakhpur Division : Gorakhpur District (2,437 , 2,238,588) , Deoria District (2,093 ; 2,102,627) ; Basti District (2,818 , 2,387,603) , Azamgarh District (2,210 ; 2,102 423).

Kumaun Division : Naini Tal District (2,721 ; 335,414) ; Almora District (5,389 ; 772,896) ; Garhwal District (5,612 ; 639,625) ; Tehri-Garhwal District (4,530 ; 412,047).

Lucknow Division : Lucknow District (986 ; 1,128,101) ; Unnao District (1,802 ; 1,067,055) ; Rae Barch District (1,755 ; 1,156,704) ; Sitapur District (2,207 , 1,380,472) ; Hardoi District (2,314 ; 1,361,562) ; Kheri District (2,967 ; 1,058,343).

Faizabad Division : Faizabad District (1,704 , 1,481,796) ; Gonda District (2,842 , 1,877,484) , Bahraich District (2,636 , 1,346 335) Sultanpur District (1,710 , 1,282,160) ; Pratapgarh District (1,447 , 1,110,734) ; Bara Banki District (1,734 ; 1,264,204).

TALUKAS

Names of Districts with the names of talukas their area in square miles and population respectively within brackets :

Dehra Dun District (Chakrata ; 447 ; 59,752 ; Dehra Dun ; 742 ; 302,253).

Saharanpur District (Deoband ; 385 , 266 960 ; Nakur ; 430 ; 227,913 ; Roorkee ; 706 , 410,787 ; Saharanpur ; 626 ; 447,976).

Muzaffarnagar District (Budhana ; 288 ; 264,962 ; Jansath ; 440 ; 280,264 ; Kairana ; 438 ; 313,748 ; Muzaffarnagar ; 468 ; 362,794).

Meerut District (Baghpat ; 400 ; 417,317 ; Ghaziabad ; 445 ; 425,187 ; Hapur ; 407 ; 370,854 ; Mawana ; 421 ; 278,163 ; Meerut ; 286 ; 485,235 ; Sardhana ; 341 ; 304,461).

Bulandshahr District (Anupshahr ; 456 ; 386,746 ; Bulandshahr ; 476 ; 455,701 ; Khurja ; 459 ; 340,199 ; Sikandrabad ; 521 ; 317,238).

Aligarh District (Atrauli ; 351 ; 260,697 ; Hathras ; 291 ; 276,813 ; Iglas ; 214 ; 143,086 ; Khair ; 402 ; 237,331 ; Koil (Aligarh) ; 355 ; 388,621) Sikandra Rao , 337 ; 227,958).

Mathura District (Chhata ; 407 ; 178,240 ; Mat ; 331 ; 200,876 ; Mathura ; 410 ; 315,047 ; Sadabad ; 308 ; 218,101).

Agra District (Agra ; 219 ; 511,609 ; Bah ; 338 ; 151,863 ; Etmadpur ; 278 ; 205,156 ; Fatehabad ; 241 ; 139,566 ; Firozabad ; 203 ; 199,211 ; Kheragarh ; 308 ; 144,677 ; Kiraoli ; 273 ; 140,309).

Mainpuri District (Karhal ; 218 ; 116,767 ; Jasrana (Mustafabad) ; 317 ; 171,813 ; Bhongaon ; 459 ; 283,778 ; Mainpuri ; 386 ; 212,611 ; Shikohabad ; 294 ; 208,921).

Etah District (Aliganj ; 517 ; 299,015 ; Etah ; 462 ; 309,881 ; Jalesar ; 227 ; 145,068 ; Kasganj ; 487 ; 370,387).

Bareilly District (Aonla ; 317 ; 239,591 ; Baheri ; 369 ; 203,990 ; Bareilly ; 441 ; 536,190 ; Faridpur ; 244 ; 149,538 ; Nawabganj ; 221 ; 139,924).

Bijnor District (Bijnor ; 482 ; 273,492 ; Dhampur ; 458 , 341,434 , Nagina ; 457 ; 167,468 ; Najibabad ; 438 ; 201,802).

Budaun District (Bisauli ; 360 ; 260,675 ; Budaun ; 454 ; 320,302 ; Dataganj ; 419 ; 241,350 ; Gunnaur ; 359 ; 190,122 ; Sahaswan ; 422 ; 238,703).

Moradabad District (Amroha ; 383 ; 293,198 ; Bilari ; 333 ; 294,951 , Hasanpur , 569 ; 238,678 ; Moradabad ; 316 ; 368,176 , Sambhal ; 475 ; 341,521 ; Thakurdwara ; 240 ; 124,131).

Shahjahanpur District (Shahjahanpur ; 395 ; 307,735 ; Pawayan ; 591 ; 227,729 ; Ja'alabad ; 361 ; 204,222 ; Tilhar ; 413 ; 264,692).

Pilibhit District (Bisalpur ; 365 ; 210,384 ; Pilibhit ; 466 ; 206,817 ; Puranpur , 512 ; 87,227).

Rampur District (Bilaspur ; 205 ; 38,230 ; Huzur , 180 ; 239,711 Milak ; 156 ; 93,251 ; Shahabad , 167 ; 91 803 ; Suar ; 130 ; 50,176 ; Tanda ; 61 ; 30,153).

Farrukhabad District (Chhibramau ; 418 ; 254,251 ; Farrukhabad 485 ; 379 806 , Kaimganj , 364 ; 214,160 , Kannauj ; 393 ; 244,424).

Etawah District (Auraiya ; 415 ; 241,693 ; Bharthana , 417 , 233 881 , Budhuna ; 429 ; 210,994 ; Etawah , 427 ; 278,728).

Kanpur District (Akbarpur , 368 , 188,897 ; Bhognipur , 380 , 187,396 ; Bilhaur , 387 ; 210 605 , Derapur 403 208 480 Ghatampur , 423 212,326 , Kanpur 418 ; 932,165).

Fatehpur District (Fatehpur ; 642 ; 358,151 ; Khaja ; 485 ; 274,627 , Khajuha , 514 ; 276,207).

Allahabad District (Chail ; 303 , 548,408 ; Handia ; 297 ; 243,177 , Karchhana ; 521 , 254,983 ; Manjhanpur , 274 ; 164 022 ; Meja ; 658 , 206 446 , Phulpur , 289 , 227,128 , Sirathu ; 233 ; 159,780 , Soraon ; 264 ; 244,306).

Jhansi District (Garautha , 594 ; 108,688 ; Jhansi ; 482 232 642 ; Lalitpur , 1,059 ; 187,061 ; Mahroni , 887 , 127,2[illegible] , Mau Ranipur ; 424 ; 119,260 ; Moth ; 438 ; 102,663).

Ja'aun District (Ja'aun ; 514 ; 213,388 ; Konch ; 409 , 130,604 , Kalpi ; 480 ; 119,202 ; Orai ; 358 ; 92,045).

Hamirpur District (Hamirpur ; 416 ; 109,316 ; Kulpahar ; 591 ; 132,982 ; Maholia ; 354 ; 90,034 ; Maudaha ; 604 ; 144,816 ; Rath ; 655 ; 154,820 ; Charkhari ; 159 ; 33,461).

Banda District (Banda ; 614 ; 189,285 ; Baberu ; 610 ; 185,668 ; Naraini (Girwan) ; 523 ; 155,762 ; Karwi ; 822 ; 182,093 ; Maw ; 317 ; 77,439).

Varanasi District (Varanasi ; 596 ; 1,043,466 ; Chandauli ; 510 ; 432,230 ; Bhadohi ; 418 ; 388,471 ; Chakia ; 474 ; 114,467).

Mirzapur District (Chunar ; 562 ; 254,021 ; Dudhi ; 988 ; 118,856 ; Mirzapur ; 1,180 ; 432,098 ; Robertsganj ; 1,633 ; 212,314).

Jaunpur District (Jaunpur ; 288 ; 343,378 ; Kerakat ; 246 ; 258,285 ; Machhlishahr ; 344 ; 279,986 ; Mariahu ; 320 ; 307,058 ; Shahganj ; 361 ; 328,466).

Ghazipur District (Ghazipur ; 558 ; 488,237 ; Mohammadabad ; 313 ; 285,846 ; Saidpur ; 428 ; 367,195).

Ballia District (Ballia ; 446 ; 470,419 ; Bansgaon ; 374 ; 353,187 ; Rasra ; 421 ; 371,051).

Gorakhpur District (Bansdih ; 531 ; 552, 188) ; Gorakhpur ; 655 ; 823,664 ; Maharajganj ; 682 ; 481,652 ; Pharenda ; 569 ; 381,084).

Deoria District (Deoria ; 493 ; 530,605 ; Hata ; 546 ; 484,686 ; Padrauna ; 559 ; 548,667 ; Salempur ; 495 ; 538,669).

* Government have announced that the District Boards would be dissolved when their term expires on June 30, 1958.

Basti District (Bansi: 614; 520,490; Basti; 553; 506,309; Domariaganj; 586; 437,483; Harraiya; 500; 394,376; Khalilabad; 565; 528,945).

Azamgarh District (Azamgarh; 313; 347,726; Mohammadabad; 358; 369,240; Sagri; 350; 311,549; Ghosi; 364; 358,923; Phulpur; 441; 400,170; Lalganj; 384; 314,815).

Naini Tal District (Haldwani; 1,279; 97,572; Kashipur; 189; 51,205; Kichha; 820; 91,978; Naini Tal; 433; 94,659).

Almora District (Almora; 4,136; 280,928; Champawat; 600; 64,737; Pithoragarh; 653; 204,973; Ranikhet; included in Almora Tehsil; 222,258).

Garhwal District (Chamoli; 3,595; 216,972; Lansdowne; 1,056; 264,066; Pauri; 961; 158,587).

Tehri-Garhwal (Deo Prayag; —; 129,148; Pratap Nagar; —; 90,568; Rawain; —; 106,058; Tehri; —; 86,273).

Lucknow District (Lucknow; 387; 745,758; Malihabad; 327; 214,687; Mohanlalganj; 275; 167,656).

Unnao District (Hansanganj; 440; 267,104; Purwa; 551; 325,162; Safipur; 409; 239,945; Unnao; 402; 234,844).

Rae Bareli District (Dalmau; 472; 328,804; Maharajganj; 464; 292,608; Rae Bareli; 375; 250,065; Salon; 444; 285,227).

Sitapur District (Biswan; 558; 323,359; Misrikh; 596; 326,149; Sidhauli; 542; 341,556; Sitapur; 511; 389,408).

Hardoi District (Bilgram; 588; 324,319; Hardoi; 632; 387,734; Sandila; 555; 334,654; Shahabad; 539; 314,855).

Kheri District (Lakhimpur; 1,053; 437,556; Muhamdi; 663; 304,325; Nighasan; 1,251; 316,462).

Faizabad District (Akbarpur; 539; 441,190; Bikapur; 460; 349,437; Faizabad; 355; 366,577; Tanda; 350; 324,592).

Gonda District (Gonda; 619; 494,632; Tarabganj; 663; 443,032; Utraula; 1,560; 940,420).

Bahraich District (Bahraich; 931; 523,101; Kaisarganj; 683; 420,910; Nanpara; 1,022; 402,324).

Sultanpur District (Amethi; 366; 241,541; Kadipur; 439; 315,658; Musafirkhana; 397; 305,189; Sultanpur; 508; 419,772).

Pratapgarh District (Kunda; 543; 385,522; Pratapgarh, 437; 386,305; Patti; 467; 338,907).

Bara Banki District (Fatehpur; 500; 332,955; Haidargarh; 290; 227,567; Nawabganj; 360; 305,778; Ramsanehighat; 584; 397,904).

AGRICULTURE

Main food crops: Wheat, barley, gram, rice, jowar, bajra and maize.

Main Cash Crops: Sugar-cane, linseed, rapeseed, mustard, groundnut, til and cotton.

Total foodgrain (cereals and pulses) production (1955–56): 11,867,323 tons.

Production of individual food crops in tons for 1955–56: Rice 2,547,086; Barley 1,601,596; Bajra 559,190; Kodon 125,618; Maize 615,650; Peas 518,861; Potatoes 675,791; Wheat 3,041,299; Jowar 374,429; Mandua 86,360; Sawan 40,140; Gram 1,442,662; Arhar 787,509; Kakun 1,769; Kutki 663; Masur 54,967; Urd 59,170; Moong 4,170; Moth 6,143; Sugarcane 2,939,953 (in terms of Gur).

Production of individual cash crops in tons for 1955–56: Linseed 127,411; Rapeseed and Mustard 425,898; Groundnut 182,871; Til 67,676; Cotton 23,667 bales; Jute 88,722 bales; Indigo 6 mds. 13 seers (1954–55); Tobacco 14,924; Castor 1,072; Oilseeds 7.56 lakh tons.

Position as in 1955–56:

Area of State in Acres: 74,385,174.

Area cultivated 41,670,451 acres. Area of uncultivated land: 32,714,723 acres. Area cultivated more than once: 10,254,185 acres.

Area under dry cultivation: 29,435,011 acres. Area under wet cultivation 12,235,440 acres.

Area under food crops: 48,453,070 acres. Area under cash crops: 3,471,566 acres.

Area under individual food crops (in acres) (1955–56): Rice 9,297,543; Wheat 9,964,779; Barley 4,866,319; Jowar 2,170,410; Bajra 2,738,179; Mandua 465,408; Kodon 932,626; Sawan 448,531; Maize 2,371,409; Gram 6,714,689; Peas 1,931,578; Arhar 1,457,084; Potatoes 239,810; Other fruits and vegetables 473,926; Other food crops 673,830; Kakum 21,094; Kutki 7,133; Masur 352,811; Urd 500,781; Moong 37,833; Moth 62,736.

Area under individual cash crops (in acres): Linseed 156,347; Rapeseed and Mustard 399,691; Groundnut 292,263; Til 222,668; Sugarcane 2,719,558; Cotton 140,645; Jute 33,685; Indigo (for dye) 10 (1954–55); Tobacco 48,945; Opium 11,585; Castor 4,948; Sanai 255,781.

Area possibly available for further cultivation through reclamation measures: 7,673,360 acres.

Three types of trees are planted in the State: (*a*) Fruit trees, (*b*) Fuel trees and (*c*) Timber trees.

Area of plantation in 1955–56 and new orchards: 18,361 acres.

Number in plantation: Fruit trees 1,444,466; Fuel and Timber trees 1,794,818.

Forest area of State: 10,554,760 acres (1955–56).

LIVESTOCK

The following figures are for June 30, 1954. Number of stud bulls: 6,155 (1955); Buffalo bulls: 1,178; No. of Rams: 873; No. of Bucks: 566; No. of Boars: 171.

Position 1956–57:

Number of stallion stands: 31; Donkey stands: 5.

No. of circle laboratories: 4; Central laboratories: one.

No. of veterinary hospitals: 281. Stockmen centres: 1,209.

No. of asstt. surgeons and stockmen: 253 and 1,095 (1954).

No. of State poultry farms: 11 inclusive of Kalsi Farm. No. of poultry extension centres to be established under the Second Five Year Plan during 1956–57: 8.

No. of established poultry units: 7.

Number of sheep and wool research stations: One at Rishikesh.

Cattle breeding: **Intensive cattle breeding work has been done throughout the State. Nuclear herds of breeding stock of each breed are being maintained at the Government cattle breeding Farms in each of the nine cattle breeding zones of the State. Besides, there are 68 artificial insemination centres functioning in the State.**

In 1956–57 two new artificial insemination centres with six key village blocks were opened and two villages each were added to six old artificial insemination centres. Two cattle breeding extension centres were also opened where 40 breeding bulls are maintained in selected pockets in each centre for intensive cattle development by natural service. Eight gaushalas were also subsidised. Mass prophylactic inoculation of cattle against rinderpest was carried out in five more districts. Five new veterinary hospitals have been started. Five centres for mass treatment of livestock against parasitic diseases were started during the year and 700 stockmen were provided with additional equipment and medicines.

Besides one new sheep farm and two stud ram centres in the hills, six new stud ram centres have been started in the plains so as to supplement the sheep and wool development programme. Five private farmers were given a subsidy of Rs. 5,000 each in order to take up poultry breeding on a large scale. One local body was given a grant of Rs. 10,000 to improve the slaughter house. A grant of Rs. 6,000 each was given to 10 co-operative societies of flayers for establishment of suitable centres for utilisation of carcasses.

Livestock Supervisors' Training: **A two years course of training for livestock supervisors was established at the Mechanised State Farm Chak Ganjaria, Lucknow for a period of six years commencing from 1955. The first batch of 100 students including 20 departmental stockmen has completed training course and two subsequent batches of 100 students each are under training, with effect from August 16, 1955. This batch will complete its course in August 1957. A second batch was admitted from November 1956.**

Stockmen Training: **In order to provide veterinary aid in the rural areas, training of candidates as stockmen has been introduced and every year 100 candidates are trained for appointment as stockmen. The duration of the course is one year. The candidate should have passed the eighth class examination for getting admission to this course. Nearly 200 candidates have so far been admitted to the course started from June 20, 1956, at Pashulok, Rishikesh, Dehra Dun District. Hostels have been constructed for the students.**

Figures for 1956:

Bovine (*a*) Cattle (*i*) Adults over 3 years 17,704,169, (*ii*) Young Stock (three years and under) 5,317,658; Total cattle 23,021,827; (*b*) Buffaloes (i) Adults over 3 years 6,213,837, (ii) Young Stock (3 years and under) 3,584,060, Total buffaloes 9,797,897; Total bovine 32,819,721; Sheep 1,006,314; Goats 6,272,627; Horses and Ponies 352,194; Mules 13,941, Donkeys 197,717; Camels 50,898; Pigs 1,143,522; Total livestock 42,756,937; Poultry: Fowls 1,039,036; Ducks 51,200; others 89,830.

Variety of fishes in tanks stocked by the Fisheries Department: Labeo Rohita (Rohu); Corrhina Mrigala (Nain); Catla (Bhakur), Labeo Calbasu (Karaunch); Mirror Carp (for Hill region).

Acreage of water under the control of the Department for Pisciculture: 24,202; total area stocked: 1,000,199 acres; number of fingerlings stocked: 4,383,857; quantity of fish produced in maunds: 5,206; no. of fingerlings distributed to the public: 727,764.

Five Fishermen Co-operative Societies were organised in the districts of Ballia, Bahraich, Allahabad, Kheri and Meerut and selected for granting financial assistance to the extension of Rs. 10,000 per party. As many as 35 nurseries were improved for rearing fry and fingerlings and the renovation of a trout hatchery at Talwary in Garhwal district was also taken up.

STATE HELP FOR AGRICULTURE

Quantity of improved seeds distributed in 1953–54: Kharif (141,270 maunds); Rabi (527,152 maunds).

Number of seed farms during 1953–54: 29.

Rise in production of different crops owing to Grow More Food campaign: 10 to 15 per cent on the average yield due to the use of improved seeds.

CIVIL SUPPLIES

There is no rationing of foodgrains, salt or sugar. Imported wheat is however being distributed through fair price shops in 45 towns and at subsidised rates in flood affected and chronically deficit hill areas of the State.

Following are the figures of issues for 1957: Through fair price shops in towns: 4,323,000 mds.; Flood affected areas: 1,948,400 mds.; Hill areas: 314,500 mds.; Total: 6,585,000 mds.

Supply of coal dust in U.P. in 1956:

Allotment—53,369 wagons; Actual supply—25,415 wagons.

Supply of cement in 1956: Allotment—418,080 tons; Actual supply—383,962 tons.

Articles in which the State is in surplus and the actual surplus: Gur and sugar which share over 50 per cent of the export trade. Pulses particularly arhar and peas. One to two tons are sent out to deficit States.

LAND TENURE

With the vesting of zamindaris, following new legislation, on July 1, 1952 in 48 out of the State's 51 districts, estates of nearly 20 lakh zamindars were taken over resulting in direct contact with 12,800,000 Kisans. The area of land taken over from intermediaries is about 6 crore acres.

Liquidated zamindars retain such of Sir, Khudkast and groves of which they have become Bhumidhars.

The new land tenures under the U.P. Zamindari Abolition and Land Reforms Act are: Bhumidhar, Sirdar and Asami.

The following laws govern the different tenures extant in the State and other matters connected with them:

1. The U.P. Zamindari Abolition and Land Reforms Act governs the new tenures; 2. The U.P. Tenancy Act, 1939 governs small pockets where the U.P. Zamindari Abolition and Land Reforms Act, 1950 does not apply; 3. The Jaunsar Bawar Zamindari Abolition and Land Reform Act, 1956 and U.P. Urban Area Zamindari Abolition and Land Reforms Act, 1956, govern the new tenures in Pargana Jaunsar Bawar of the Dehra Dun District and the urban areas in the State respectively; 4. The U.P. Land Revenue Act of 1901 as amended from time to time; 5. The U.P. Bhoodan Yagna Act, 1952; 6. The U.P. Land Reforms (Supplementary) Act, 1952; 7. The U.P. Commutation of Rent (Regulation of Proceedings) Act, 1952; 8. The U.P. Land Tenures (Regulation of Transfer) Act, 1952; 9. The Jaunsar Bawar Security of Tenure and Land Records Act, 1952; 10. The U.P. Zamindars' Debt Reduction Act; 11. The U.P. Agricultural Tenants' (Acquisitio of Privileges) Act, 1949.

The main features of the Zamindari Abolition, etc. Act are: Extinction of intermediaries' rights; Payment of equitable compensation; Payment of rehabilitation grant to ex-intermediaries who paid land revenue upto Rs. 10,000 per annum; Undisturbed possession of land by actual tillers of soil and conferment of greater rights upon them; Undisturbed possession by every person of his house, well or grove; No landlord-tenant system to be in force in future i.e. prohibition of sub-letting except in restricted cases; Prevention of uneconomic holdings; Village community to own all common lands and to have powers of land management; The entire body of tenure-holders to be jointly and severally responsible for the payment of land revenue; and facilities for co-operative farming.

Every ex-intermediary (ex-zamindar) is entitled to compensation at the rate of eight times his net assets. In addition, every ex-intermediary, whose land revenue did not exceed Rs. 10,000 would be given rehabilitation grant at the specified scale.

Uttar Pradesh denies landlords the right to evict tenants even for self-cultivation of the vacated holdings.

The end of zamindaris released 45,442,000 acres, that is, 96·8 per cent of the total land holdings, in this State. Two classes of cultivators, *bhumidhars* (owners of land) and *sirdars* (wielders of the plough), enjoying different rights, inherited these lands from the State, which had acquired them from the intermediaries.

Of the alienated lands, nearly nine million acres of waste land were turned over to the villages for collective management. Another 2,400,000 acres of waste land and private forests were made over to the Forest Department for development.

Pastures and pathways, cremation grounds and threshing floors, ponds and village bazars passed, in July 1952, into the possession of the village community. *Bhumidars* and *sirdars* continue to pay the same revenue or rent as before, but the *sirdar*, acquiring *bhumidari* rights on payment of ten times the rent or revenue, will have his revenue halved.

The final compensation rolls published in 1957-58 amount to Rs. 66·5 crores but only Rs. 18·19 crores have been paid.

In future, no more than 30 acres can be acquired. The corresponding limit in the trans-Yamuna and Mirzapur regions has been fixed at 60 acres.

According to official estimates, 50,000 families, or at least 4,000,000 persons, in this State are landless. The percentage of landless labourers to tenure holders works out at 16·1 against 51 in Bihar, 54·4 in Rajasthan, 71·4 in Madras and 73·2 in Kerala.

Likewise, the cultivated land available for an average family in Uttar Pradesh is the lowest in India and does not exceed 4·8 acres against 13·1 in north-west India, 11·7 in Central India, 6·3 in East India and 5·7 in south India.

There are only 9,976 holdings, each more than 50 acres and totalling 13,19,515 acres. Excluding 2,088 mechanised farms from the operation of ceilings under the Planning Commission's directive, only 523,156 acres will be available for distribution among the landless.

Consolidation of holdings: In 4,217 of the State's 111,772 villages, the consolidation scheme has been finalised. In 3,812 villages, farmers have received their consolidated holdings. These villages consisted of 3,935,710 tiny plots before the scheme was enforced. Now, a total of 365,857 tenure-holders in the same villages have 648,814 well-defined chaks.

Bhoodan: Land gifts amounted to 275,822 acres in 51 districts on June 30, 1957. Bhoodan Committees have, so far, distributed 92,766 acres. Donations continue. But the rate of collection is slow.

IRRIGATION

Area irrigated by State Irrigation works (1956-57): 6,531,906 acres.

Number of tube-wells energised and brought into operation till end of March 1957: 5,196. Total number of tube-wells constructed: 5,163 (1955-56). Area irrigated in 1955-56 by State tube-wells: 1,166,970 acres. Construction of 400 tube-wells was taken in hand during 1957.

Names of dams completed and opened for irrigation during the First Five Year Plan: Lalitpur, Saprar, Rangawan, Arjun, Ahrawra, Sirsi under 'Belan and Tons Canal', Kabrai Lake, Nagwa and Matatila Dam Stage I.

Among the major schemes completed during the first Plan period are also 803 and 1,062 miles extension of Sarda Canal, Pratapgarh Branch, Transkalyani Project, Shahganj Distributary and Banganga Canal. The Ganga, Eastern Yamuna and Agra canals have also been remodelled and their capacity increased.

Names of larger irrigation works with capacity and area irrigated during 1955-56 within brackets:

Upper Ganga Canal (10,000 cusecs, 1,511,067 acres); Lower Ganga Canal (5,170 cusecs, 1,080,496 acres); Eastern Yamuna Canal (2,266 cusecs, 454,170 acres); Agra Canal (1,800 cusecs, 319,500 acres); Sarda Canal (11,000 cusecs, 953,245 acres); Betwa Canal (2,354 cusecs, 210,608 acres); Dhasan Canal (740 cusecs, 77,582 acres); Ken Canal (1,066 cusecs, 139,387 acres); Ghagra Pumped Canal (196 cusecs, 24,474 acres); Ghagar Canal (118,520 acres); Ramganga Canal (200 cusecs, 22,211 acres); Bijnor Canal (187 cusecs, 17,506 acres); Rohilkhand Canal (661 cusecs, 45,001 acres).

Names of irrigation projects in execution with the area in acres which will be irrigated and total cost in lakhs of rupees within brackets:

803 miles extension of Sarda Canal (1,76,000; 50·00); 1,062 miles extension of Sarda Canal (1,76,000; 110·00); Pratapgarh Branch (Extension of Sarda Canal) (57,000; 71·00); Transkalyani Project (Extension of Sarda Canal) (74,000; 60·00); Sarda Canal Reservoir in Tarai Forest Stage I including Jaunpur Branch and Increasing capacity of Sarda Canal (1,72,000; 479·49); Increasing capacity of Ganga Canal (1,12,000; 16·00); Irrigation Schemes in Kumaon (21,500; 43·50); Banganga Canal (22,000; 36·32); Matatila Dam Stage I (2,64,500; 487·56); Arjun Dam (27,000; 115·00); Belan and Tons Canal (1,01,477; 193·46); Ahraura Dam (22,000; 59·02); Chandraprabha Dam (24,000; 87·71); Shaganj Distributary (20,000; 18.70); Tanda Pumped Canal (1,39,000; 129.00); Naurgah Dam (80,000; 132.97).

A number of minor irrigation schemes have been constructed during the first plan period as a result of which an additional area of 261,000 acres has been brought under irrigation. The total additional area brought under irrigation from the State Irrigation works completed during First Five Year Plan period is 2,841,000 acres and the total estimated rise in output is 6·25 lakh tons.

Drainage and floods: 238 drainage schemes were completed and 1,75,000 acres of land was protected. 3,229 villages were raised. Over 300 miles long bunds were constructed and about seven lakh acres of land was saved.

Forest: Total area: 14,930 sq. miles; Private forests: 3,800 sq. miles; Revenue (1954-55): Rs. 4·14 crores; Expenditure: Rs. 1·67 crores.

Community Projects: There are 26 community project blocks covering an area of 5,988 square miles, with a population of 2,009,024.

National Extension Service: There are 135 National Extension Service blocks covering about 29,100 villages with a population of about 1·63 crores.

POWER

Total installed capacity in state: 367,740 kW. (1958)

Total installed capacity of the power houses under Electricity Department till October 31, 1957: 144.065 kW.

Total effective capacity of power houses under Electricity Department till October 31, 1957: 101,145 kW.

Total production during the year 1955-56: 267,286,879 KW.H.

Estimated rise in the installed capacity after completion of the Second Five Year Plan schemes: 370,050 kW.

Units in kW sold under different categories during the year 1954-55 by Electricity Department.

Domestic 17,118,458; Industrial 49,004,520; Railways 6,855,513; Cantonment 7,722,107; Street Light 1,774,551; Pumping 6,713,215; Agricultural 8,577,052; State Tube-wells 70,009,745; Miscellaneous 13,058,900; Total 180,834,061 K.W.H.

The following are the names of power houses in operation in September 1957 showing their location and installed capacity in kW within brackets.

Paira Hydro (Aligarh; 600); Bhola H. (Meerut; 2,700); Nirgajni H. (Muzaffarnagar; 5,000); Chitaura H. (Muzaffarnagar; 3,000); Salawa H. (Muzaffarnagar; 3,000); Sumera H. (Aligarh; 1,200); Mohammedpur H. (Saharanpur; 9,300); Pathri H. (Saharanpur; 20,400); Tehri H. (Tehri; 20); Khatima H. (Nainital; 41,400);

Bageswar H. (Almora : 30 ; Chandausi Thermal) (Moradabad ; 9,000); Harduagani T. (Aligarh ; 15,000); Sohwal T. (Faizabad ; 4,500); Rampur T. (Rampur ; 3,000); Mau T. (Azamgarh ; 1,600); Gorakhpur T. (Gorakhpur ; 3,125); Moradabad Diesel (Moradabad ; 650); Aligarh Diesel (Aligarh ; 400); Tundla D. (Agra ; 200); Laksar D. (Saharanpur ; 50) ; Meerut D. (Meerut ; 250); Saharanpur D. (Saharanpur ; 250); Gorakhpur D. (Gorakhpur ; 3,090); Narendranagar D. (Tehri ; 50); Mau D. (Azamgarh ; 900); Deoria D. (Deoria ; 600); Sohwal D. (Faizabad ; 1,750); Nibkarori D. (Farrukhabad; 2,750); Gursahaiganj D. (Farrukhabad ; 1,500); Mainpuri D. (Mainpuri ; 750); Bhadhoi D. (Varanasi ; 3,250); Bahraich D. (Bahraich ; 750); Pipri D. (Mirzapur ; 4,000).

The following are names of power-houses which were expected to be completed during 1957–58, showing their location and installed capacity in kW. within brackets: Gorakhpur T. (Gorakhpur ; 15,000); Mau T. (Azamgarh ; 15,000); Sohwal T. (Faizabad ; 15,000); Mainpuri T. (Mainpuri ; 10,000).

All these are included in a fuller table given below. Total estimated production of electricity during 1956–57 : 2,980·5 lakh kW.

Projects Under Execution

Name of Power House	Installed Capacity	District	Cost in lakhs of rupees	When started	Completion
Rihand H	250,000	Mirzapur	4,526·11	1953–54	1960–61
Matatila H	15,000	Jhansi	374·25	1956–57	1960–61
*Yamuna H	17,000	Dehra Dun	1,959·25	1956–57	1960–61
Eastern Area Power Project ..			460·00	1951–52	1957–58
Gorakhpur T	15,000	Gorakhpur			
Sohwal T	15,000	Faizabad			
Mau T	15,000	Azamgarh			
Mainpuri T	10,000	Mainpuri	238·53	1952–53	1957–58
Harduaganj T	30,000	Aligarh	300·00	1956–57	1960–61
Rihand for construction T ..	6,000	Mirzapur	48·95	1956–57	1956–57
Bahraich D	2,000	Bahraich			1956–57

On the Rihand project Rs. 13 crores were spent till the end of 1957-58. Rs. 4·5 crores were spent in 1957-58. For 1958-59 Rs. 4·01 crores have been allotted.

* There are three Power Stations at Yamuna and the cost mentioned is for the whole scheme having an installed capacity of 51,000 kW. The scheme will be completed by 1965-66 and the 1st Power Station of 17,000 kW will be ready by 1960-61.

LARGE-SCALE INDUSTRIES, MANUFACTURES

Important large-scale industries in the State are Textile (Cotton, Woollen and Jute), Sugar, Power Alcohol, Glass, Leather and Tanning, Oils, Vanaspati, Resin and Turpentine, Lantern, Paper and Paper Board, Hosiery, Bobbins, Starch, Agricultural Implements, Catecha, Match, Metal Rolling, Engineering, Cigarettes, Precision instruments and Cement.

The State has promoted a number of such small scale industries as Paints, Varnishes, Chemicals, Bone-Meal, Button, Sand Paper, Tin Container Manufacturing, Plastic, Carbon paper making, Fruit Preservation, Bicycles and Perambulators, Pharmaceutical Products, Soaps, Sports goods, Locks, Glass Bangles, Brushware, Drawing and Survey instruments, Scissors and Razors.

The State is fairly rich in minerals. Limestone, iron and copper ores are found in the Himalayan districts.

Coalfields exist in the District of Mirzapur in Tehsil Sanghrauli. Gold is found in minute quantities by washing the sands in some of the rivers in the hills. Limestone is found in the Himalayas and in the districts of Banda and Mirzapur and stone is largely quarried in the districts of Allahabad, Hamirpur, Banda and Mirzapur. At Churk in Mirzapur District, Government have set up a cement factory with an installed capacity of manufacturing 700 tons of cement per day. This factory utilizes the limestone of Mirzapur. It produced about 1.96 lakh tons of cement during 1956–57. A stockist organisation has been set up in 24 districts in the eastern and central parts of the State for marketing the cement.

The Government Precision Instrument Factory at Lucknow is engaged in the manufacture of water meters and microscopes of the student and research types. It has a capacity of manufacturing 20,000 water meters and 200 microscopes in a year. Till March 1957 the factory produced 53,070 water meters and 360 microscopes and in terms of money saved foreign exchange worth nearly Rs. 32 lakhs.

Kanpur is the chief centre for cotton spinning and weaving mills. According to the latest figures available about 3,000 persons are employed in cotton ginning, cleaning and pressing factories and 72,000 in spinning and weaving mills.

Agra, the principal centre of shoemaking, is rightly called the Northampton of India and produces shoes worth over a crore of rupees a year. Kanpur is next to it in importance.

For further development of the leather tanning industry, 20 new tanning centres were opened in 1956–57. There are six training centres and a research and testing laboratory for conducting research and investigation to find out the optimum conditions and proper tanning properties of indigenous tanning material.

The glass industry is important at Bahjoi, Balawali, Sasni, Harangau, Shikohabad, Naini (Allahabad), Ghaziabad and Varanasi, Firozabad is the chief centre for manufacturing glass bangles in India.

There are over forty hollow-ware factories, and eighty-eight glass bangle factories in the State. Out of these hollow-ware factories ten are large-scale factories and the others are comparatively small. The total amount of goods produced per year in these hollow-ware factories is estimated at 25,000 tons valued at 4.5 crores of rupees. The bangle factories at Firozabad produce about 10,000 tons of bangles per year, valued at Rs. 6 crores.

There are five factories manufacturing vegetable ghee. Their total outturn during 1956–57 was about 38,000 tons. The oil crushing industry is well developed in the State since U.P. produces about 2½ crore maunds of oil-seeds. There are over 150 big oil mills registered under Factories Acts and over 250 small oil mills working with power. About half a dozen oil mills are equipped with refining plant.

There are about 25 big soap factories besides a large number of small manufacturers producing in all about 3 lakh maunds of toilet and washing soap annually.

Paints and varnishes industry is being developed with the coming into existence of over a dozen paints and varnishes factories with a production capacity of 5,500 tons of paints and 600,000 gallons of enamel and varnish annually.

Boiled oil is already being manufactured by some firms producing about 450,000 gallons annually.

Allied industries like textile auxiliaries and toilets are being manufactured at some places.

Tin canisters are made at Agra, Hathras, Rewah, Mainpuri and Ghaziabad.

There are Fruit Preservation and Canning Institutes at Lucknow and Ramgarh, under the Director of Fruit Utilisation with headquarter at Ranikhet. A fruit processing factory has also been established by the State at Ramgarh.

The sports goods industry in the State is mainly concentrated in Meerut. A centre for the development of this industry is also being set up at Bareilly. About 3,000 persons are employed in this industry. In order to improve the quality of its products, the industry has been brought within the fold of the Quality Marking Scheme.

(*For sugar industry see article "Sugar Industry"*.)

COTTAGE INDUSTRIES

Main cottage industries in the State : Textile, leather, brass and copper (utensils), locks, cutlery and building fittings, iron and steel, glass, ceramics and pottery, ghee, oil, soap and gur, wood working, cane and reed furniture and basketry, fibre, essential oils and perfumery, and miscellaneous.

In cottage industries Agra Footwear, Varanasi and Moradabad artistic Brasswares, Varanasi Silk and Brocade, Saharanpur Wood Carving, Farrukhabad Prints, Lucknow Bidar and Chikan works and Handloom Fabrics, Carpet and Shellac industries of Mirzapur, are noteworthy.

The Directorate of Industries, U.P. has launched a number of schemes to train educated young men in arts and crafts. A tailoring centre has been established at Lucknow. Other training schemes are being implemented at the Occupational Institute, Lucknow, Government Textile Institute and Government Leather Work Institute, Kanpur. Training in weaving and dyeing is also imparted at the Banaras Central Weaving and Research Institute, Varanasi.

With a view to giving a fillip to the famous Moradabad Brassware Industry, a Training-cum-Production centre has been set up at Moradabad to impart training in different manufacturing processes of art brassware, domestic brassware, electroplating and introduction of new designs for artistic wares.

Under the Handloom Development Scheme, 125 sales depots and 85 dye houses had been established till March 1957. A dyeing and finishing factory has also been established at Mau, District Azamgarh.

During 1956–57, the number of production societies rose to 389. These co-operative societies produced 37,292,525 yds. of handloom cloth worth Rs. 4,62,64,606.

In accordance with the recommendations of the Small Scale and Village Industries Board, a training-cum-production centre has been set up at Meerut to give technical advice to the razor and scissors industries.

With the assistance of the Central Government, a designs section has also been opened at the Government School of Arts and Crafts, Lucknow. It creates new designs for the various cottage industries particularly the textile, brassware and pottery making industries.

TRANSPORT

Total mileage of roads (March 31, 1956): 46,153 miles.

Mileage of metalled roads: 11,672 miles, unmetalled roads: 34,481 miles.

Number of passenger service buses: 2,791 (excluding roadways vehicles). Number of goods carrying lorries, trucks: 6,720. Number of taxis: 450.

The State owns a transport service under the name of U. P. Government Roadways, managed as a Government Department with the Transport Commissioner as the head.

The State is divided into seven regions namely Agra, Allahabad, Bareilly (with which has been amalgamated the Kumaun region), Gorakhpur, Kanpur, Lucknow and Meerut (with which has been amalgamated the Garhwal region). Each region is in the charge of a General Manager.

The U.P. Road Transport Service (Development) Act, 1955, provides for the grant of compensation to the displaced operators who were not provided alternative routes.

The headquarters of the Transport Commissioner is Lucknow.

Capital invested: Rs. 556 lakhs (31st March 1957).

Number of routes operated by the Roadways services till the end of January 1957: 408. Mileage of routes: 16,442. Road mileage covered: 6,626.7.

By the end of the Second Five Year Plan it is expected to cover 6,964 miles of roads in the State.

Total mileage covered (1956–57): 42.479,691 miles.

Number of vehicles owned by authority on September 30, 1957: Passenger: 1,987; Goods trucks: 136; Taxis: 54.

Number of nationalised city bus services: 23.

Cities where Roadways operate city bus services: Allahabad, Bareilly, Lucknow, Varanasi, Gorakhpur and Agra.

Names of places where suburban bus services operate: Mathura, Vrindaban, Fatehgarh, Farrukhabad, Dehra Dun, Premnagar, Clement Town.

Names of routes operated by the Government Roadways: Etah–Agra–Tundla, Naugarh–Lumbni, Naugarh–Sohratgarh, Rae Bareli–Sulon–Pratapgarh–Kalakanker, Unnao–Laiganj, Kishni–Beawar–Mainpuri, Chibramau–Beawar–Mainpuri, Bulandshahr–Delhi and Saharanpur–Hardwar.

Roadways have 49 depot workshops and regional workshops undertaking maintenance and repairs of Roadways fleet. There is a Central Workshop undertaking heavy repairs, reconditioning of engines, chassis, manufacture of bus bodies and batteries, etc. in addition to training of technical personnel.

Special tourist buses have been provided to carry tourists to places of scenic beauty.

Number of passengers carried by Authority during 1956–57: 69,262,235.

Total revenue (April 1, 1956 to January 31, 1957): Rs. 3,42,06,208.

Profit (April 1, 1956 to January 31, 1957): About Rs. 73 lakhs.

No. of persons employed (September 30, 1057): 10,267.

Rate of bus fare for lower class: 7·5 pies per mile.

Goods service has not been nationalised.

CO-OPERATION

Figures as on June 30, 1957.

Total number of co-operative societies: 55,683.

Membership of co-operative societies: 38·14 lakhs.

Total working capital: Rs. 38·40 crores.

Total owned capital: Rs 14·80 crores.

Primary societies including large-sized Credit Societies: Total number of societies 42,646, Individuals 1,913,085 Advances during the year 1956–57 Rs. 655·79 lakhs, Share Capital Rs. 321·87 lakhs, Working Capital Rs. 1,007·72 lakhs, Value of goods sold Rs. 20·81 lakhs.

District Co-operative Banks and Banking Unions: Total number of Banks 61; Total number of Societies 34,194; Share Capital Rs. 118·66 lakhs; Working Capital Rs. 628·68 lakhs; Reserve and other funds Rs. 45·88 lakhs.

Uttar Pradesh Co-operative Bank: Working Capital Rs. 5·17 crores, Paid-up Share Capital Rs. 79·36 lakhs, Deposits Rs 3·99 crores, Reserve fund, other funds and provisions Rs. 25·93 lakhs.

Block Development and Marketing Unions: Total number of Unions 1,953, Share Capital Rs. 70·16 lakhs, Working Capital Rs. 4·77 lakhs, Value of goods sold Rs. 2·32 crores.

District Co-operative Federations: Total number of Federations 50, Share Capital Rs. 21·24 lakhs, Working Capital Rs. 172·22 lakhs.

Pradeshik Co-operative Federation: Paid-up Share Capital Rs 21·90 lakhs, Working Capital Rs. 336·86 lakhs, Reserve Fund and other funds Rs. 73·62 lakhs, Business handled Rs. 533·48 lakhs.

Co-operative Seed Stores: Total number of seed stores 1,210; Total Kharif and Rabi Seeds distributed 20·00 lakh mdsl.; Total demand of Kharif and Rabi Seeds 25·90 lakh mds.; Distributed Oilcakes and green manures 11·11 lakh mds.; Distributed artificial fertilizers 46,000 tons.

Co-operative Farming: Total number of Co-operative Farming Societies 227, Total membership 5,780, Share Capital Rs. 13·53 lakhs, Working Capital Rs. 39·70 lakhs, Reserve and other funds Rs. 1·28 lakhs.

Milk Unions: Total number of Milk Societies 591, Total number of Milk Unions 7, Quantity of milk supplied 2·17 lakh mds.

1956: Brick Kilns: Number of Co-operative Brick Kilns 810, number of bricks manufactured 8,783 lakhs, number of persons given work, directly 60,000, indirectly 170,000.

Industrial Co-operative Societies (Figures as in June 1955):— U. P. Industrial Co-operative Association: Number of members 276, Share Capital Rs. 1·85 lakhs, Working Capital Rs. 32·19 lakhs, Loan advanced Rs. 7·39 lakhs.

1956: Handloom Co-operatives: Number of Societies 901, number of members 99,233, Goods sold Rs. 12·28 lakhs. Non-Textile Co-operative societies 240.

HOUSING

During the First Plan period, a total expenditure of Rs. 7·62 crores was incurred on housing. The scheme was split up into three parts (i) subsidised Industrial Housing Scheme with an outlay of Rs. 4·39 crores, (ii) Low Income Group Housing Scheme with an outlay of Rs. 3 crores and (iii) Housing for Sugar Factory Labour with an outlay of Rs. 0·23 crores. It is proposed to spend Rs. 1,045 lakhs on the overall programme of housing during the Second Five-Year Plan in U.P.

Work on the Central Scheme of Subsidised Industrial Housing was carried out in four phases with the target construction of 21,600 houses. Of this target, 13,782 houses were completed under three phases by the end of the First Five-Year Plan. The remaining work under phase four is being continued. Nearly 4,632 quarters were completed by November 1957 out of the proposed construction-target of 6,764 quarters. The remaining quarters under this phase were expected to be completed by the end of 1957–58.

During the Second Five-Year Plan it is proposed to construct about 17,750 quarters (including incomplete works of the First Five-Year Plan) in 18 industrial towns of the State under the Subsidised Industrial Housing Scheme. The execution of the project will cost Rs. 561·45 lakhs.

Under the Low Income Group Housing Scheme, a loan of Rs. 300 lakhs was sanctioned by the Central Government to U.P. during the First Plan period. Actual work on the scheme was, however, started towards the middle of 1955 after the State Government had received Rs. 00 lakhs from the Centre.

Under this scheme, 5,675 houses are proposed to be constructed during the Second Plan period and a sum of Rs. 483·55 lakhs has been earmarked for the purpose.

Slum-clearance in the KAVAL towns of the State is another important scheme included in the housing programme. The Central Government have allocated a sum of Rs 196 lakhs as loan and Rs. 40 lakhs as subsidy. The remaining Rs. 49 lakhs will be contributed by the State Government from the State's resources. The scheme will be implemented by the local bodies of the KAVAL towns. It was proposed to spend Rs. 15·50 lakhs during 1957–58, mainly on the acquisition of land. Appreciable progress has already been made at Kanpur in respect of rehabilitation of slum-dwellers there.

Other housing schemes in the State include Plantation Labour Housing Scheme, Rural Housing Scheme, Sugar Factory Labour Housing Scheme and the scheme of housing municipal sweepers in 37 towns. Work in regard to construction of quarters for sweepers was nearing completion.

MEDICAL AND PUBLIC HEALTH

Vital Statistics (1956):

Death Rate (per thousand) 8·57; Birth Rate (per thousand) 15·42.

Total number of deaths from: Cholera 3,909; Plague 94; Small-Pox 5,742; Malaria 76,178.

Number of State Hospitals and Dispensaries: Allopathic 543; Indigenous 577.

Maternity & Child Welfare Centres 586.

Number of patients treated in State Hospitals and Dispensaries: Indoor 452,691; Outdoor 15,730,142.

Number of beds in State Hospitals: 16,497.

Number of operations performed in State-owned hospitals: 562,456.

Number of Doctors in Government Service: 1,355.

Number of Doctors registered in U.P.: 6,734.

Number of Nurses: 1,624.

Number of Registered Vaids and Hakims: 31,477.

Number of Vaids and Hakims in Government service: 577.

Number of State allopathic dispensaries in the countryside: 446.

Number of Ayurvedic and Unani dispensaries: 577.

State Expenditure on Medical Department: Rs. 32,242,882 (1956–57).

State Expenditure on Public Health (1956-57): Rs. 19,510,700.

With the assistance of the W.H.O. and UNICEF, 200 child welfare centres have been opened since 1947.

Number of dispensaries run by District Boards: 311.

Number of anti-malaria units: 20; Anti-kalazar units: 4.

Number of Districts in which antimalarial units are functioning: 35.

Number of Districts in which anti-kalazar units are functioning: 3.

Number of T.B. Sanatoria: 8; T.B. Clinics: 23. Total number of beds in the T.B. Sanatoria and clinics: 1,105.

Number of leprosy asylums: 17.

Number of beds: 1,520.

A venereal disease hospital functions at Chakrata.

Number of women's hospitals: 145.

Number of Filaria Control Units: 6.

Number of Filaria Survey Units: 3.

Number of districts in which Filaria Survey work is being done: 12.

Under the Employees' State Health Insurance scheme, 13 fixed and two mobile dispensaries were opened at Kanpur for providing medical facilities to industrial workmen drawing an income upto Rs. 400 per month. The scheme has been extended to Lucknow, Agra, Saharanpur, Allahabad, Varanasi and Rampur also where dispensaries have specially been opened for industrial workmen.

LABOUR

Total number of registered factories in the State 1,496; Daily average number of the workers 209,674.

Total number of women workers 2,510, 1·2% of the total strength.

Percentage of child labour ·021; Actual number 44.

Wages of male agricultural labourer above 18, Re. 1 per day or Rs. 26 per month.

Daily wages for those below 18, 10 annas a day or Rs. 16 a month, with the privileges of weekly leave and rest with full pay.

Industries in which minimum wage is fixed: Rice Flour, or Dal Mills, Tobacco (including Bidi making) Manufactory, Rubber or Tea Plantation, Oil, Road Construction or Building operations, Stone Breaking or Stone Crushing, Lac Manufactory, Tanneries and Leather Goods Manufactory, Public Motor Transport.

Total number of man days lost 238,515; Lockouts and Strikes: 94.

State Govt. Acts for the welfare of the Labourers:

(1) U. P. Shops and Commercial Establishment Act (1947), (2) U. P. Industrial Disputes Act, (3) Maternity Welfare Act, (4) Sugar and Alcohol Industry Labour Welfare and Development Fund Act, (5) Industrial Housing Act (1947).

Trade Unions 746; Total membership 12,13,227.

Labour Welfare Centres 45; Total annual expenditure on them Rs. 10,56,800.

Under subsidised Industrial Housing Scheme Rs. 861 lakhs have been sanctioned to build 21,600 houses and under the Sugar Factory Labour Housing Scheme, 1,666 complete and 144 incomplete tenements have been constructed in 54 Sugar Mills at a cost of Rs. 2,64,000.

The State Conciliation Board decided 4,056 cases of which the parties came to a settlement in 1,168 cases and the number of cases decided by Adjudicator and State Industrial Tribunal were 556 and 104 respectively.

Provident Fund Scheme covers 44,660 employees, in 61 factories.

During 1957 the activities of the Labour Department were extended to non-labour sphere by the introduction of Old-Age Pension Scheme and taking over of National Employment Service.

Initially with a fund of Rs. 25 lakhs, the Old-Age Pension Scheme has been enforced from December 1, 1957 and the first instalment of the pension was paid to old destitutes over the age of 70 in the State on Republic Day (26th Jan.) 1958. It is estimated that the number of people to whom old-age pension is paid is roughly between 7,000 and 8,000.

Three industrial tribunals, four labour courts, one conciliation board for State-owned undertakings and three tri-partite committees one each for sugar, textiles and electricity industries were created in 1957. The workers drawn from various trade unions and industries were imparted training in trade union methods and administration.

The three Industrial Tribunals and four Labour Courts together decided 164 cases till November 1957. Compromise was effected between parties in a majority of the cases.

National Employment Service, now re-named as Employment and Training Directorate, launched a number of schemes, which included the expansion of old ones and the introduction of two new schemes. The number of Employment Exchanges during the period rose from 21 to 31 and training institutes from 8 to 13 with provision for 3,852 trainees.

Of the two new projects, the Employment Market Information Scheme has been started at 21 Exchange Offices and the Vocational Guidance Scheme at the Lucknow office.

Amenities are provided to labourers through 49 labour welfare centres.

Social Welfare: The State Social Welfare Department was established in January 1955. The Department runs the women welfare scheme in 20 districts. It has also started a couple of centres for the village youth and is providing financial help to widows' homes, orphanages, schools for the deaf, dumb and blind and other voluntary social welfare organisations.

EDUCATION (1956-57)

Total number of Basic Primary Schools 33,315; total enrolment 29,20,968; total number of teachers 80,301.

Total number of Junior High Schools 3,767; total enrolment 4,26,070; total number of teachers 20,473.

Total number of Higher Secondary Schools 1,532; total enrolment 6,74,862; total number of teachers 29,207.

Total number of Degree Colleges 70; total enrolment 52,051; total number of teachers 2,423.

Total number of Universities 6; total enrolment 29,566; total number of teachers 1,523.

Total number of Sanskrit Pathshalas 1,084; total enrolment 39,978; total number of teachers 4,520.

Primary education upto class III was made free from 1956-57.

Compulsory education for boys introduced in 98 municipalities; for girls in the whole area of eight municipalities and in parts of two municipalities. At the end of the current Plan period compulsory education for boys would have been introduced in 119 out of 120 municipalities; for girls it would have been introduced in four municipalities.

Expenditure on education from Government funds in 1956-57 was about Rs. 12·30 crores.

(For more statistical data see tables for 1955-56 under the main article on Education).

JUDICIARY

A scheme of separation of judiciary from executive was introduced in 1949 in eight selected districts. It was extended to other districts. The scheme has now been working in 18 districts—Muzaffarnagar, Mathura, Mainpuri, Bareilly, Bijnor, Budaun, Bulandshahr, Moradabad, Jhansi, Lucknow, Shahjahanpur, Farrukhabad, Fatehpur, Unnao, Rai Bareli, Sitapur, Gonda and Bahraich.

BUDGET (1958-59)

Revenue: Rs. 108,22,91,000.
Expenditure: Rs. 112,76,52,000.
Deficit: Rs. 4,53,61,000.

U. P. FINANCIAL CORPORATION, KANPUR

The Corporation was inaugurated on Jan. 31, 1956. It has an authorised capital of Rs. 8 crores, which is divided into 8 lakh fully paid-up shares of Rs. 100 each. The paid-up capital of the Corporation as on date is Rs. 1 crore divided into 1 lakh shares of Rs. 100 each fully paid-up. These shares have been distributed in this way: 55,520 State Government; 15,000 Reserve Bank; 16,010 scheduled banks; 9,805 insurance companies; 1,181 co-operative banks; 2,484 others.

The object is to provide finance to small and medium scale industries.

During the period November 1, 1954 to March 31, 1958, 256 loan applications were received out of which 69 applications aggregating Rs. 1,13,02,000 have been sanctioned. The effective amount sanctioned as on 31st March 1958, is Rs. 83,39,000 and the total disbursement amounted to Rs. 54,97,000.

Profit for 1957-58: Rs. 3,80,352·16.

UNIVERSITIES

Agra University

Chancellor: Governor, Uttar Pradesh (*Ex-officio*).
Vice-Chancellor: Lt.-Col. K. P. Bhatnagar, M.A., LL.B.
Registrar: Dr. L. P. Mathur, D.Sc.
Affiliated Colleges 57; Students 33,841 (approx.)

LIST OF COLLEGES

Agra College, Agra.
Agricultural College, Kanpur.
A. K. College, Shikohabad.
A. S. Jat College, Lakhaoti.
Babu Shivnath Agarwal Degree College, Mathura
Balwant Rajput College, Agra.
Barhesai College, Aligarh.
Bareilly College, Bareilly.
Bundelkhand Degree College, Jhansi.
Christ Church College, Kanpur.
D. A. V. College, Bulandshahr.
D. A. V. College, Dehra Dun.
D. A. V. College, Kanpur.
D. A. V. College, Muzaffarnagar.
D. S. B. Government's Degree College, Nainital
Dayanand Vedic College, Orai.
Devi Lall Shah Gangola Degree College, Almora.
Dharmsamaj College, Aligarh.
Digamber Jain College, Baraut.
Engineering College, Dayalbagh, Agra.
Faizabad Degree College, Faizabad.
G. F. College, Shahjahanpur.
Gokal Das Hindu Girls' College, Moradabad.
Govt. Raza College, Rampur.
Hindu Degree College, Moradabad.
J. V. Jain Degree College, Saharanpur.
Jat Vedic Agricultural College, Baraut.
Kanhilal Basantlal Mahavidyalaya, Mirzapur.
K. G. K. College, Moradabad.
K. V. Degree College, Machhra (Meerut)
Kishori Raman College, Mathura.
Kishori Raman Girls' College, Mathura.
K. N. Govt. College, Gyanpur (Varanasi).
Lala Ram Lal Agarwal Degree College, Sarsa (Allahabad).
Maharaj Singh Degree College, Saharanpur.

Meerut College, Meerut.
M. M. H. V. College, Ghaziabad.
Multanimal Modi Degree College, Modinagar (Meerut).
N. R. E. C. College, Khurja.
Nanak Chand Anglo-Sanskrit College, Meerut.
Narain College, Shikahabad.
Radhaswami Educational Institute, Dayalbagh, Agra.
Ragunath Girls' College, Meerut.
R. S. K. College, Shimbhaoli (Meerut).
S. D. College, Muzaffarnagar.
Shri Saraswati Vidyalaya Degree College, Hapur.
S. M. College, Chandausi.
S. N. Medical College, Agra.
S. N. Sen Balika Vidyalaya Degree College, Kanpur.
St. John's College, Agra.
Subhash National College, Unnao.
Tika Ram Kanya Mahavidyalaya, Aligarh.
U. P. College of Vet. Science and Animal Husbandry, Mathura.
Vaish Degree College, Shamli (Muzaffarnagar).
V. S. S. D. College, Kanpur.
Women's Training College, Dayalbagh, Agra.
Y. D. College, Lakhimpur-Kheri.

BUDGET ESTIMATES FOR 1958-59

Total income : Rs. 28,52,183.
Total expenditure : Rs. 22,48,620.

Aligarh Muslim University
Aligarh

Chancellor : His Holiness Dr. Sardar Syedna Tahir Saifuddin.
Pro-Chancellor : Nawab Saidul Mulk Dr. Hafiz Mohd. Ahmad Said Khan of Chhatari.
Vice-Chancellor : Col. B. H. Zaidi.
Pro-Vice-Chancellor : Syed Nurullah.
Registrar : Syed Mahmud Hosain.
Residential. Students 5,000 (approx.).

CONSTITUENT COLLEGES

Women's Muslim College, Aligarh.
College of Engineering and Technology, Aligarh.
Tibbiya College, Aligarh.

BUDGET ESTIMATES FOR 1957-58

	Rs.
Anticipated Income	47,57,763
Anticipated Expenditure	50,79,651
Ceiling fixed by the Finance Committee against the total approved expenditure	49 lakhs
(a) Central Govt. grants :	Rs
Block grant, *Ad hoc* grant, *Ad hoc* grant for Engineering College, (grant for the Institute of Islamic Studies)	31,86,000
(b) U. P. Govt. grants ..	1,93,018
(c) Former Ruling States grants	7,200
Total ..	33,86,218

Allahabad University

Chancellor : Governor of U.P.
Vice-Chancellor : Dr. Shri Ranjan, D.Sc., F.N.I.
Registrar : K. L. Govil, M.A.
Unitary, teaching, residential; Colleges 4; Students 7,809.

LIST OF COLLEGES

Allahabad Agricultural Institute, Naini, Allahabad.
Chaudhari Mahadeo Prashad Degree College, Allahabad.
Ewing Christian College, Allahabad.
Agarwal Vidyalaya Degree College, Allahabad.

BUDGET ESTIMATES, 1956-57

Total income : Rs. 33,96,608.
Total Expenditure : Rs. 34,12,308.

	Rs.
State Govt. Grant : Recurring ..	19,08,259
Non-recurring ..	2,09,784
Total ..	21,18,043

Banaras Hindu University
Banaras 5.

Chancellor : Lieut.-General His Highness Maharaja Sir George Jiwaji Rao Scindia Bahadur, G.C.S.I., G.C.I.E.
Pro-Chancellor : His Highness Maharajadhiraj Sir Kameshwar Singh Bahadur, K.C.S.I., D. Litt., of Darbhanga.
Vice-Chancellor: Dr. Venishankar Jha, Ph.D. (Lond.).
Pro-Vice-Chancellor : M. C. Bijawat, B.Sc., B.E.
Registrar : Major S. L. Dar, M.A., LL.B.
Residential; Constituent Colleges 14; Affiliated Colleges 6; Students 8,241 (1956-57).

LIST OF COLLEGES

Central Hindu College.
Central Hindu College (Kamachha Section), Varanasi.
College of Agriculture.
College of Indology.
College of Mining and Metallurgy.
College of Music and Fine Arts.
College of Science.
College of Technology.
Engineering College.
Law College.
Sanskrit Mahavidyalaya.
Teachers' Training College.
Women's College.
Besant College, Rajghat, Varanasi.
D. A. V. (Degree) College, Varanasi.
Harish Chandra College, Varanasi.
Udai Partap College, Varanasi
Vasanta College for Women, Rajghat, Varanasi.
Vasanta Kanya Mahavidyalaya, Kamachha, Varanasi.

BUDGET ESTIMATES FOR 1957-58

Income : Rs. 89,70,685.
Expenditure : Rs. 86,64,260.

Lucknow University

Residential and Teaching University.
Chancellor, Governor of Uttar Pradesh.
Vice-Chancellor, Prof. K. A. Subramanya Iyer, M.A. (Lond.).
Registrar, K. D. Tewari, M.A., LL.B.
Number of students : 10,346 including 1,677 women students and 260 research scholars for 1957.

LIST OF COLLEGES

Isabella Thoburn College, Lucknow.
Kanya Kubja College, Lucknow.
Karamat Husain Muslim Girls' College, Lucknow.
Lucknow Christian College, Lucknow.
Mahila Vidyalaya College, Lucknow.
Shia College, Lucknow.
Kanya Kubja Vocational College, Lucknow.
D.A.V. College, Lucknow.
Vidyan Hindu College, Lucknow.
Jubilee Girls' College.

BUDGET (1955-56)

	Rs.
Revenue	38,15,335
Expenditure	39,45,032
Central Govt. grant	5,20,785
U.P. Govt. grant	14,46,753

Roorkee University

Chancellor : Governor of Uttar Pradesh.
Vice-Chancellor : Dr. A. N. Khosla, I.S.E. (Retd.).
Registrar : S. S. Sharma, M.A.
Unitary, Teaching and Residential; Students : 727.

BUDGET FOR 1956-57

Income :

	Rs.
Revenue	3,59,747
Grant-in-Aid from State Government	34,00,520
Loan from Central Government for construction of O. S. Hostel Field Hostel Residences ..	4,13,000
Grant in aid from Central Govt. and University Grants Commission	5,20,451
C. S. I. R.	75,041
Other sources	10,067
Expenditure	43,84,006

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WEST BENGAL

Area: 33,945 sq. miles; Population: 26,301,992.

Capital: Calcutta.

There are two Divisions in the State, the Burdwan Division and the Presidency Division.

The Districts in the Burdwan Division with their headquarters in brackets are as follows:

Bankura (Bankura), Birbhum (Suri), Burdwan (Burdwan), Hooghly (Chinsura), Howrah (Howrah), Midnapore (Midnapore), Purulia (Purulia).

The Districts in the Presidency Division with their headquarters in brackets are as follows:

Calcutta, Cooch-Behar (Cooch-Behar), Darjeeling (Darjeeling), Dinajpur† (Balurghat), Jalpaiguri (Jalpaiguri), Malda (English Bazar), Murshidabad (Berhampur), Nadia (Krishnagar), 24-Parganas (Alipur).

The boundaries of the present State as between East and West were fixed by the Radcliffe award.

Areas of Bihar merged with West Bengal: As a result of the reorganisation of the States, part of Purnea district in Kishanganj and Katihar Sub-divisions and part of Manbhum District in Sadar Sub-division of Purulia, both of Bihar, were transferred to West Bengal with effect from November 1, 1956. The total area so transferred is 3,166 sq. miles with a population of 1,446,385.

The transferred area from Purnea District has been amalgamated with the adjoining district of West Dinajpur, with Balurghat as its headquarters. The area carved out of the old Revenue Thanas of Islampur and Kishanganj of Kishanganj Sub-division and Gopalpukur of Katihar Sub-division have been reconstituted into four Police Stations, viz., Karandighi, Gopalpukur, Chopra and Islampur with their headquarters at Karandighi, Gopalpukur, Chopra and Islampur, respectively, all under the existing Raiganj sub-division of West Dinajpur District.

The total area transferred from Purnea District comes to 759 sq. miles, comprising 913 villages with a population of 2,77,288 (1951 census).

The transferred area from Manbhum District, comprising the Sadar Sub-division of Purulia with the exception of the Revenue Thanas Chas and Chandil, and the Police Station Pa amda of the Revenue Thana Barabhbum, has been constituted to form a new district in West Bengal under the name of Purulia, with its headquarters at Purulia, in charge of a Dy. Commissioner, under the Commissioner of Burdwan Division.

As no delimitation of the internal jurisdiction boundary was called for, the old thana and Police Station boundaries have been retained.

The total area transferred to West Bengal to form the new District of Purulia is 2,407 sq. miles, comprising 2,725 villages with a population of 11,69,097 (1951 census).

AREA OF DISTRICTS

Bankura 2,647 sq. miles; Birbhum 1,743 sq. miles; Burdwan 2,706; Cooch-Behar 1,324; Darjeeling 1,200; Hooghly 1,208; Howrah 566; Jalpaiguri 2278·2; Malda 1,892; Midnapore 5,258·1; Murshidabad 2,072·1; Nadia 1,509; 24 Parganas 5,339·9; West Dinajpur 1,864·8; Purulia 2,407.

POPULATIONS OF DISTRICTS

Burdwan 2,191,667; Birbhum 1,066,886; Bankura 1,319,250; Midnapore 3,256,022; Howrah 1,611,278; Hooghly 1,554,320 (excluding Chandernagore); 24-Parganas 4,809,309; Calcutta 2,548,677; Nadia 1,144,924; Murshidabad 1,715,750; West Dinajpur 720,873; Malda 667,860; Jalpaiguri 914,849; Darjeeling 445,260; Cooch-Behar 671,158; Purulia 1,169,097.

Names of Districts giving within brackets the names of talukas, their area in square miles and population respectively:

Burdwan District (Sadar; 1,286·9; 802,057; Asansol; 624·1; 769,265; Kalna; 385·1; 305,751; Katwa; 409·5; 314,594).

Birbhum District (Sadar; 1,136·9; 638,159; Rampurhat; 606; 428,730).

Bankura District (Sadar; 1,933·4; 965,363; Vishnupur; 713·5; 353,896).

Midnapur District (Sadar; 2,038; 1,057,658; Contai; 911·6; 739,841; Tamluk; 749·1; 788,438; Ghatal; 368·5; 311,382; Jhargram; 1,185·9; 461,703).

Hooghly District (Sadar; 446·1; 454,573; Serampur; 349·8; 729,331; Arambag; 412·5; 370,416; Chandernagore; 4; 49,909).

Howrah District (Sadar; 174·1; 928,456; Uluberia; 386; 682,917).

24 Parganas District (Sadar; 1,106·7; 1,513,948; Basirhat 817·9; 713,619; Barasat 384; 393,980; Bangaon 319·8; 208,742; Barrackpur; 119·1; 877,900; Diamond Harbour; 1,262·4; 901,120).

Nadia District (Sadar 968·8; 702,871; Ranaghat 540·2; 442,053).

Murshidabad District (Sadar; 658·8; 544,228; Lalbagh; 521·9; 393,871; Jangipur; 437·1; 431,979; Kandi; 454·3; 345,681).

Malda District (Sadar; 1,392; 937,580).

West Dinajpur District (Balurghat sub-division 585·6; 328,114; Raiganj 799·9; 392,459).

Jalpaiguri District (Sadar; 1,295·9; 546,142; Alipur Duars; 1,078·5; 368,396).

Darjeeling District (Sadar; 361·2; 169,631; Kurseong 164·2; 65,713; Siliguri 266·4; 116,475; Kalimpong 407·9; 93,441).

Cooch Behar District (Tufanganj; 224; 97,713; Dinhata; 271·9; 161,054; Sadar; 284·8; 171,865; Mathabhanga 343; 148,691; Mekliganj; 198·9; 91,835).

Purulia District (*a*).

(*a*) Figures for units below the district level are not available.

AGRICULTURE

Acreage and production of principal crops in 1954-55 are as follows:

	Area (acres)	Production (tons)
Aman rice	85,44,200	33,41,600
Aus rice	12,46,800	3,99,160
Boro rice	4,44,000	13,490
Total rice	1,02,35,000	37,58,160
Wheat	1,41,000	44,900
Sugarcane	56,800	1,19,310
Jute	5,50,600	14,96,400

About 5·28 lakh tons of manures and fertilisers were produced and distributed. Six improved seed multiplication farms had been established and 3,112 tons of improved seeds had been distributed. 2,401 demonstration centres had been established in rural areas. Land covering 20,490 acres had been reclaimed through tractors.

A State-wide campaign for the Japanese method of cultivation was undertaken during the First Five-Year Plan period and 3·6 lakh acres of land were put under this method of cultivation increasing considerably the average yield of paddy per acre. In the field of animal husbandry, breeding bulls were supplied to villages for upgrading livestock. Nine artificial insemination centres have been opened.

400 maunds of pasteurised milk is sold daily from the Haringhata Dairy. The Greater Calcutta Dairy Scheme aims at the removal of unhealthy khatals from the City of Calcutta to Haringhata, the establishment of a 3,000 acre fodder farm at Kalyani and the construction of a Central Dairy Factory in Calcutta for the bottling and distribution of four lakh pounds of milk daily.

The winter rice crop in 1957 was estimated at 3·52 million tons against 3·94 million tons in 1956. State's annual requirement is 4·1 million tons.

Zamindaris and intermediary interests in West Bengal were abolished on April 15, 1956 corresponding to the 1st of Baisakh in the Bengalee Year.

All rent-receiving interests in agricultural lands vest in the State and the numerous tenants and sub-tenants, as the case may be now hold land directly under the State Government. All forests too are now managed directly by the Government.

Under the Act, each intermediary is permitted to retain in his possession non-agricultural land up to 15 acres, homestead land which together with such non-agricultural land does not exceed 20 acres, agricultural land up to 25 acres, and tanks, fisheries and orchards. Calcutta is a notable exception in the Act.

There are roughly 1·28 million acres of cultivated land in the State, of which, according to preliminary but by no means accurate statistics, only 400,000 acres will be found surplus for redistribution among the tillers of the soil

The Bihar Land Reforms Act is still in force in the territories transferred to West Bengal after the reorganisation of States, though steps for setting up machinery for the management of vested estates according to the West Bengal pattern are under way.

Compensation is payable on a slab system at rates varying between 20 times for the first and lowest slab of Rs. 500 of net income and twice for the highest slab of over Rs. 1 lakh.

Where, however, the interest of an intermediary is held under a *bona fide* trustee or other legal obligation for an exclusively charitable or religious purpose, the compensation payable is being assessed as a perpetual annuity equal to the annual net income of the interest.

Up to April 15, 1957, the Government had sanctioned interim payments totalling Rs. 52,21,000 to some 24,000 intermediaries.

Payment is being made partly in cash and partly in non-negotiable annuity bonds at 3 per cent per annum and payable in 20 equal annual instalments.

Sonarpur-Arapanch Scheme: The Sonarpur-Arapanch-Matla Drainage Scheme of reclaiming vast water-logged tracts 105 sq. miles in area, with powerful pumping plants, is the first of its kind in India and the biggest in Asia. The first part of the scheme which was started in 1951 and cost nearly Rs. 44 lakh is now complete. The second part of the scheme is in progress. Under the first part of the Scheme, a submerged area of 28,960 acres has been reclaimed for cultivation. The total yield of paddy from these large tracts of land was 21,000 maunds.

Bagjola Drainage Scheme: Rs. 99-lakh Bagjola Drainage Scheme is intended to improve the drainage of 116 square miles of area. The scheme when completed will reclaim 25,000 acres of water-logged lands and render them fit for cultivation, which will result in annual additional yield of 12,091 tons of paddy and 1,719 tons of rabi crops.

† Also called West Dinajpur.

IRRIGATION

During the First Five-Year Plan period, the multi-purpose schemes namely the Mayurakshi Reservoir Project, two medium irrigation and two medium drainage schemes and 115 units of minor schemes had been completed. The Mayurakshi Reservoir Project involves the harnessing of the Mayurakshi River. The project will benefit 6,00,000 acres of land. During the First Plan, another 117 small irrigation schemes were completed to irrigate another 11 lakh acres of land. In all 12 lakh acres of land have been benefited since independence by about 200 irrigation schemes big and small.

About 2,49,104 acres of land were irrigated from the Mayurakshi project during the kharif season of 1956. The hydro-electric portion of this project came into operation in December 1956. The installed capacity of this power station is 4,000 k.w.

	Total cost (Rs. lakhs)	Area in acres benefited
Mayurakshi Reservoir	15,85·00	600,000
Harabatuganj Drainage	10·34	16,000
Beral Canal	19·66	5,000
Jibanti-Banki	2·56	6,400
Jampoi	0·51	800
Nosdighi Gangakhali	24·07	29,400
Jhargram	9·25	5,000
Suvankar Daura	13·03	6,000
Trans-Damodar	3·72	32,900
Saraswati	3·37	7,100
20 Minor Schemes	28·35	59,700
52 Procurement Bonus Schemes		84,900
23 Emergency Schemes	11·28	57,900
5 New Minor Schemes	2·42	13,700
Excavation of Nonaganj river	4·97	4,900
Sonarpur-Arapaneh-Matla	105·00	46,400
Bagjola-Ghuni-Jatragachi	99·00	25,600
Improvement of Kamakhya Khal	2·39	3,800

DAMODAR VALLEY CORPORATION

The Damodar Valley Corporation Act was passed in March 1948, and the Corporation itself came into existence on July 7.

The Damodar Project is a multi-purpose one, for purposes of flood control, irrigation, power and navigation.

(*For details see under "Irrigation"*)

SOME MAJOR DEVELOPMENT SCHEMES

Durgapur Coke-oven and Gas Grid : A coke-oven plant capable of handling daily 1,300 tons of coal and coke breeze (1,225 tons of coal and 65 tons of coke breeze) at Durgapur in the district of Burdwan and auxiliary plants for the recovery of by-products from coke-oven gas (ammonia, sulphuric acid, coal-tar, crude benzoe and its rectified products), and a coal-tar distillation plant, with a daily input of 50 tons of coal-tar. The fixed capital investment is estimated at Rs. 5·25 crores. The requirements of working capital have been estimated at Rs. 35 lakhs.

The Ganga Barrage Scheme : The scheme will ensure permanent head-water supplies required for the conservation of the river Hooghly in an efficient condition. In 1948, the West Bengal Government requested the Central Government to investigate the possibility of a barrage across the Ganga. Investigations have already been completed with the finding that a barrage across the Ganga is a technically feasible project. The project is under further scrutiny. The project when finalised will provide direct road and rail communication between the north and south Bengal. It will improve the Calcutta Port by pushing back silt and improving the channel. It will improve the health and economic conditions of the area. The cost of this scheme is expected to be about Rs. 44 crores.

Reclamation of Salt Lakes : The scheme for the reclamation of the swampy northern and southern salt lakes covering about 33 square miles on the eastern fringes of Calcutta aims at liquidating the sponge of malaria and at reclaiming the water-logged areas, partly for the extension of the City and partly for agricultural purposes. On the basis of the experts' reports, plans in respect of the project, with estimates of cost had been prepared and submitted to the Planning Commission for inclusion in the Second Five-Year Plan.

Gas from Calcutta Sewage : About 1·5 million c.ft. of gas per day will be generated from the sewage of Calcutta. Moreover 250 tons of manure will be available for sale every day. The scheme estimated to cost Rs. 2 crores had been submitted to the Planning Commission for inclusion in the Second Five-Year Plan.

Kalyani : The Kalyani Township scheme was inaugurated in 1950, with a view to relieving acute pressure of population in Calcutta and to help dispersal of industries from the congested city. The total area of the township is 10,000 acres. It has been divided into six blocks, *viz.*, residential blocks, commercial blocks, industrial blocks, etc. Residential buildings have been constructed and are available for purchase or hire by intending settlers. Several parks have been laid out. A Radio and Battery Manufacturing Factory has also been opened by the Government. Thirty miles of water-supply mains have been laid. A total length of 42 miles of underground mains and subsidiary sewers has been completed. About 50 miles of metalled roadways in the residential block have also been completed.

FORESTS

Total forest area : 5,167 sq. miles (pre-reorganization).

Under the First Five-Year Plan, two specific schemes *viz.* afforestation of Government waste lands by State agencies and conservation of private forests and afforestation of private waste lands were executed with a view to bringing private forests under better management. About 12,438 acres of Government waste lands were afforested to create state forests to check soil erosion and increase the supply of forest wealth and about 7,333 acres of private waste lands were planted and improved through better management and proper control.

INDUSTRY

Principal industries of the State : Jute, tea, coal, cotton, textiles, paper, rubber, engineering, etc.

No. of registered factories : 2,500 (more than 6 lakh workers).

No. of jute mills : 101 in 1955 (employing a little less than 250,000 workers (1955).

No. of cotton mills : 40 (46,115 workers ; total no. of spindles 580,468 ; no. of looms 10,862) (31st August 1957).

No. of tea gardens : 288 (246,000 workers).

No. of coal mines : 222 (about 99,000 workers daily on an average).

No. of paper mills : 5 (about 9,648 workers).

Jute, cotton and most of the other industries are located in the Greater Calcutta industrial area ; there is a growing tendency on the part of the engineering, textile and other industries to move towards the Asansol belt in Burdwan District, where most of the coal mines and the major iron and steel works are located. The tea gardens are located in the Doors and Terai regions of Northern Bengal.

Main small scale industries : Handloom weaving, sericulture and silk, brass and bell metal, hand-made paper, palm gur and mat industries.

No. of looms engaged in handloom weaving : 1,50,000.

Principal centres of handloom weaving : Santipur (Nadia), Santiniketan (Birbhum), Rajbalhat, Dhaniakhali (Hooghly).

Principal silk industry Districts : Malda, Murshidabad and Birbhum.

Facilities for training in various cottage and small-scale industries have been provided for through the major technical institutions namely the Bengal Textile Institute, Serampore, the Berhampur Textile Institute, Berhampur, the Bengal Tanning Institute, Calcutta and the Bengal Ceramic Institute, Calcutta.

Research for the benefit of the cottage industries is carried on in the Industrial Research Laboratory, Calcutta. Marketing and publicity of the products of the cottage industries are canalised through the Government Sales Emporium, Calcutta, Industrial Museum, Calcutta, Moving Exhibition and Exhibition parties.

At Jalpaiguri there is a demonstration centre in sericulture. In Calcutta there is a silk conditioning house. Training in sericulture is given at the Government Institute at Berhampur.

The number of industrial co-operatives is over 900.

In the sphere of large-scale industries, the work on the proposed Iron and Steel industry at Durgapur is progressing. Considerable work has also been done in connection with the setting up of Durgapur Coke-Oven Plant. Various schemes connected with village industries such as handloom, coir products, bell-metal etc. have been taken up. Under the Howrah Engineering Scheme, 762 small engineering firms in Howrah, near Calcutta, are being brought together to rationalise and accelerate their production. In the rural areas, villagers are being trained and paid in the works-cum-training centres.

WEST BENGAL FINANCIAL CORPORATION

P-11, Mission Row Extension, (5th Floor), Calcutta-1.

The Corporation was established as from the 1st March 1954. The object of the Corporation is to provide financial assistance, chiefly by way of long and medium term loans, to industrial concerns in the State.

Authorised Capital Rs. 2 crores divided into 2,00,000 fully paid-up shares of Rs. 100 each, of which 1,00,000 fully paid-up shares of the total value of Rs. 1 crore were issued in the first instance and are held by the following classes of shareholders :

		shares	Rs.
a)	State Govt.	31,770	31,77,000
b)	Reserve Bank ..	20,000	20,00,000
c)	Scheduled banks, insurance companies, investment trusts, co-operative banks or other financial institutions ..	45,000	45,00,000
d)	Other parties ..	3,230	3,23,000
		1,00,000	1,00,00,000

Gross income (1957-58) : Rs. 5,28,937·49.

Expenditure : Rs. 3,46,705·08.

Net Profit : Rs. 1,82,232·41.

BOARD OF DIRECTORS

Chairman, B. M. Birla.

Managing Director, H. P. Banerjee.

Directors, G. Basu ; C. D. Khanna ; B. P. Singh Roy ; K. K. Roy ; D. N. Mitra ; N. N. Majumdar ; D. N. Bhattacharjee ; S. R. Mitra.

Secretary, B. K. Roy.

CO-OPERATION

From 1948 to 1956 the number of co-operative societies increased from 12,946 to 17,322. The membership increased from 635,000 to 1,191,634.

Number, membership and working capital respectively of other types of co-operative societies : Urban co-operatives (498 ; 365,075 ; Rs. 976·71 lakhs) ; Consumers' Co-operatives (405 , 49,460 ; Rs. 12·02 lakhs) ; Fishermen Co-operatives (348 ; 19,598 ; Rs. 5·42 lakhs) ; Housing and Colony Co-operatives (156 ; 17,288 ; Rs. 58·82 lakhs) ; Milk Co-operatives (169 ; 12,408 ; Rs. 2·83 lakhs).

Rural credit for agricultural production to the extent of Rs. 1·43 crores was distributed in 1956. The number of co-operatives participating in the work was 11,023 in 1955 against 9,590 in 1948.

There are 1,399 multi-purpose societies, 75 marketing societies and 72 farming co-operatives.

Weavers' Co-operatives form the bulk of industrial co-operatives in the State. There are at present 904 such societies with 65,381 members and a total working capital of Rs. 13·75 lakhs.

There are 469 Urban Co-operative Banking Societies with a membership of 318,998 and a working capital of Rs. 9·32 crores. There are nine Insurance Co-operatives and 412 Consumers' Co-operatives.

ROADS

Total (1956) : 3,178 miles (surfaced 1,235 miles).

There are six national highways in West Bengal : Calcutta-Delhi (152 miles), Calcutta-Bombay/Madras (90 miles—common alignment in West Bengal), Bihar-Assam (181 miles), Siliguri-Gangtok (35 miles), Calcutta-Siliguri (338·5 miles) and Calcutta-Bongaon (43 miles).

During the First Five-Year Plan, the objective was to create a net work of roads connecting each village to the major towns. Nearly 2,000 miles of roads were newly constructed or improved during the First Plan period In addition 23,000 miles of previously existing roads continued to be directly maintained by the Government. Besides, 295 miles of new roads were constructed in the national highway section.

8,215 rft. of major bridges were laid during the period. The Second Five Year Plan envisages construction of 3,600 miles of roads besides 188 miles of municipal roads.

With a view to the gradual nationalisation of road transport services, a number of bus routes in the City of Calcutta have already been taken over by the Government and other routes would be taken over under a phased programme.

The State Transport owns (1957) a fleet of 400 vehicles in Calcutta and Cooch Behar. By the end of 1960, the State Transport will have a fleet of 700 buses.

The State Transport provides employment for 6,500 persons of whom about 60 per cent are displaced persons.

About 15 lakh passengers are carried every day.

COMMUNITY DEVELOPMENT PROJECTS

The Community Development Projects now cover 15,000 villages. The object of the programme is the development of rural township with a group of 100 villages in a block taken up for intensive development programme.

EDUCATION

Number of primary schools in 1956-57 : over 23,000.

Number of students 22 lakhs.

Number of secondary schools in West Bengal in 1956 : 3,170 ; students : 694,000.

Colleges : 138 ; students : 105,042.

The secondary schools will, henceforth, have a 11-year course as against the ten-year course prevailing befofe With the introduction of the 11-year course, preliminary knowledge of some of the subjects previously taught in the intermediate course will be imparted. The students passing out the 11-year school course will be admitted to 3-year degree course direct, the intermediate course being abolished. Some of the secondary schools are being converted into multi-purpose schools which will also train students in various arts and crafts of their choice, thus helping them to choose their professional career according to their aptitude.

(For more statistical information see tables in the article on education).

HEALTH

Birth rate : 22·9 (1958) ; Death rate : 8·2 (1956) ; Infant mortality : 93·7 (1958) ; Maternal mortality : 5·6 (1958).

No. of hospitals : 300 ; no. of dispensaries and clinics : 956 ; Rural Health Centres : 282 (1956) ; no. of beds : 3,300 (1956) ; Total no. of beds in hospitals : 18,645 (end of 1956) ; no. of T.B. hospitals and Sanatoria : 9 ; Mobile Units for domiciliary treatment of T.B. cases : 4 ; no. of T.B. beds : 2,330 ; Rural Health Centre beds : 2,372 ; Maternity and child welfare centres : 96 ; Maternity homes and hospitals : 12 ; Maternity beds : 3,212 ; Medical colleges : 4 ; no. of students in colleges : 691 ; Nursing training centres : 13 ; no. of seats : 287 ; pharmacy training centre : 1 ; no. of students at the centre : 50 ; Mobile medical units : 200 ; no. of beds for treatment of leprosy : 1,255 ; for venereal diseases : 110 ; for treatment of mental diseases : 1,012 (including 757 beds maintained by West Bengal Govt. in two Mental Hospitals at Ranchi and 96 beds of Bangiya Unmad Ashram, Dum Dum).

Between 1950 and 1955, 5,604,949 persons were treated with tuberculin and 2,278,665 persons were vaccinated with B.C.G.

Midwifery Training Centres : 6 ; No. of seats 231 ; Assistant Nurses-cum-Midwifery Training Centre (6 months' course) : 1 ; no. of seats : 100 · Dresser's Training Centre : 1 ; no. of students 50.

Per capita expenditure (1956-57) : Rs. 3-2-5.

REFUGEES AND REHABILITATION

Corrected upto October 31, 1957 unless otherwise stated.

Total number of displaced persons in the State about 32 lakhs.

About 22 lakh refugees received Government assistance by way of house-building loans, small trade loans etc. and nearly half of them have been fully rehabilitated. Of these 06,35· have found employment through Government assistance. For the education of the displaced persons Government spent nearly. Rs. 7 crores. Paucity of land for the rehabilitation of refugees in West Bengal has forced the State Government to settle refugees outside the State. Among these schemes for rehabilitation outside the State are a scheme to rehabilitate 27,000 displaced persons at Bettiah in Bihar and the Dandakaranya Scheme under which 80,000 square miles are proposed to be reclaimed for the rehabilitation of refugees.

At a conference of Rehabilitation Ministers of States at Darjeeling in 1957, it was decided that steps would be taken to liquidate refugee camps at an early date so that the refugees might not depend entirely on Government assistance To find employment and occupation for the refugees it was also decided to set up cottage and small-scale industries.

HOUSING

Big building programmes both by the state and private agencies have been taken up in the city of Calcutta and rural areas. 128 multi-storeyed tenements and 301 single-storeyed tenements have almost been completed for housing industrial labour. The Calcutta Improvement Trust has constructed more than 500 tenements for industrial workers under the subsidised scheme. 500 houses have been built under the Kalyani housing scheme. Built houses or lands are available on outright purchase or purchase by instalments. In the flood-affected rural areas, a model village scheme is being executed. Financial assistance and building materials are provided by the Government to the people whose houses had been damaged by flood.

BUDGET 1958-59

Revenue : Rs. 68·86 crores.
Expenditure : Rs. 72·69 crores.
Deficit : Rs. 3·83 crores.

CORPORATION OF CALCUTTA

5, Surendra Nath Banerjee Road, Calcutta 13
Telephone : 243471 (20 lines).

Mayor, Dr. Triguna Sen.
Dy. Mayor, Keshab Chandra Basu.
Commissioner, B. K. Sen.
Dy. Commissioners, A. K. Basak ; Loknath Bal
Secretary, B. J. Ghosh.
Chief Engineer, A. K. Sen.
Dy. Chief Engineer, S. Mitter (Actg.).
Executive Engineer, Water Works, S. C. Mukherjee.
Executive Engineer, Drainage, K. L. Dey.
City Architect, P. B. Guha.
Health Officer, Dr. Anil Mukerji.
Finance Officer and Chief Accountant, Paritosh Mitra.
Chief Law Officer, B. Basu (Actg.).
Civil Engineer, N. L. Bhattacharjee.

Councillors

Sushil Kumar Paul (1) ; Ganapati Sur (2) ; Sudha Sankar Singh (3) ; Nandalal Banerjee (4) ; Dulal Chandra Mukherjee (5) ; Satyanarain Bhattacharjee (6) ; Ranajit Coomar Mitter (7) ; Kumar Dutt (8) ; Purnendu Sen Gupta. (9) ; Mihirlal Gangull (10) ; Dr. Kripabindu

Chakrabarty (11); Sudhir Chandra Mukherjee (12); Pannalal Das (13); Dr. Kanailal Das (14); Naren Sen (15); Kali Charan Paul (16); Tulsi Ch. Pal (17); Kamal Krishna Paul (18); Krishna Chandra Bysack (19); Gobindo Chandra Dey (20); Badridas Burman (21); Krishna Chandra Kundu (22); Rouf Ansari (23); Dr. Sudhangsu Kumar Sett (24); Harinarayan Sadani (25); Bivash Chandra Gana Chowdhury (26); Kishori Lal Dhandhania (27); Keshab Chandra Basu (*Dy. Mayor*) (28); Samar Kumar Rudra (29); Barendra Krishna Daw (30); Dr. K. P Ghosh (31); Nandadulal Srimany (32); Chandra Sekhar Bhowmick (33); Shiv Kumar Khanna (34); Dr. Sukhabehari Mukherji (35); Panchanan Sarcar (36); Durlav Chandra Majumdar (37); Rajendra Nath Mazumdar (38); Mohanlal Ghose (39); Dr. Esmail Ebrahim (40); Debendra Lal Dutt (41); Tara Prosad Mitra (42); Dr. H. K. Das (43); Sudhangsu Shekhar Mitra (44); Dhireadra Nath Dhar (45); Mukur Chandra Sarvadhikari (46); Dr. L. M. Bhattacherji (47); Bankim Chandra Sarkar (48); Amulya Charan Sirkar (49); Benoy Lal Ghose (50); Karam Hosain (51); Jogindra Lal Saha, M.L.C. (52); Abu Hafeez Md. Ismail (53); Dhirendra Nath Bose (54); Biman Behari Mitra (55); Ratan Manick Chatterjee (56); Md. Zakir (57); Sushil Kr. Roy (58); Bejoy Kr. Banerjee (59); Nil Ratan Sinha (60); Anil Maitra (61); Shyamal Kumar Dutta (62); Sachindra Kumar Sen (63); Dr. Birendra Ch. Basu (64); Dr. Parimal Kumar Sen Gupta (65); Chittaranjan Chatterjee (66); Kumar Benoyendra Deb Rai (67); Dr. P. K. Roy Chowdhury (68); Subrata Kr. Sen Sarma (69); Dhirendra Nath Ghosh (70); Dr. Kanai Lal Sarkar (71); Mani Sanyal (72); Gahar Alam Shami (73); Brojendra Nath Banerjee (74); Usha Nath Sen (75); Raj Satyendra Mitra (76); Nripendra Nath Banerjee (77); Deva Prosad Chatterjee (78); Prasanta Kumar Sur (79); Dr. Arabinda Prosad Dasgupta (80); S. K. Gupta I.C.S., Chairman, Calcutta Improvement Trust (*ex-officio*).

Aldermen

Dr. Trigu[illegible] Sen (*Mayor*); Ajit Kumar Dutta; Pratima [illegible]ose; Gurugobinda Bosu; Dr. Amiya Kumar Bose.

EDUCATIONAL INSTITUTIONS

University of Calcutta

Chancellor, Smt. Padmaja Naidu (Governor of West Bengal).

Vice-Chancellor, Prof. N. K. Sidhanta, M.A. (Cantab.).

Treasurer, Satish Chandra Ghosh, M.A.

Registrar, Dr. Duhkhaharan Chakrabarti, D.Sc., F.N.I.

DEANS OF FACULTIES.

Arts, Professor Jitendraprasad Niyogi, M.A., Ph.D. (Lond.).

Science, Professor Nikhilranjan Sen, M.A., Ph.D., D.Sc.

Law, Raina Prasad Mookerjee, M.A., LL.B.

Medicine, Dr. Subodh Mitra, M.B., M.D. (Berlin), F.R.C.S. (Edin.), F.R.C.O.G. (Lond.).

Engineering, A. C. Roy, B.Sc. (Glas.), A.M.I.E.

Technology, Prof. Bireschandra Guha, M.Sc., Ph.D., D.Sc. (Lond.), F.N.I.

Agriculture, Professor Pabitrakumar Sen, M.Sc., Ph.D. (Lond.), D.I.C.

Commerce, Dr. Sarojkumar Basu, M.A., Ph.D.

Education, Professor Sivaprasad Chatterjee, M.Sc., T.D. (Lond.), Ph.D. (Lond.), D.Litt. (Paris), F.G.S.

Fine Arts and Music, Professor Niharranjan Ray, M.A., D.Litt. & Phil. (Leyden), F.L.A.

Veterinary Science, Capt. P. B. Mookerjee, M.B., F.R.C.S. (Edin.), D.M.R.E.

Journalism, Dr. Anilchandra Banerjee, M.A., Ph.D.

PROFESSORS.

Sanskrit, Dr. A. Bhattacharyya Sastri, M.A., Ph.D. (Asutosh Professor).

Islamic Studies, Dr. M. Z. Siddiqui, M.A., LL.B., Ph.D. (Cantab.) (Asutosh Professor).

History, Dr. N. K. Sinha, M.A., Ph.D. (Asutosh Professor).

Ancient Indian History and Culture, Prof. J. N. Banerjee, M.A., Ph.D. (Carmichael Professor).

Islamic History, Dr. M. L. Raychaudhuri, M.A., D.Litt., Sastri.

Philosophy, Prof. S. C. Chatterjee, M.A., Ph.D. (Acharyya Brojendranath Seal Professor).

English, Miss A. G. Stock, B.A. (Oxon.), Dip. in Education (Oxon.), (Sir Gooroodas Banerjee Professor).

Economics, Dr. J. P. Niyogi, M.A., Ph.D. (Lond.).

Fine Arts, Dr. N. R. Ray, M.A., D.Litt., Phil. (Leyden), Dip. Lib. (Lond.), F.L.A. (Rani Bageswari Professor of Indian Fine Arts).

Physics, Dr. B. D. Nagchaudhuri, M.Sc., Ph.D. (Palit Professor); Dr. Sisir Kumar Mitra, D.Sc., F.N.I. (Emeritus Professor); Dr. J. N. Bhar, D.Sc. (Ghosh Professor).

Applied Physics, Dr. A. K. Sengupta, D.Sc. (Ghose Professor).

Chemistry, Prof. B. N. Ghosh, D.Sc. (Palit Professor); Dr. P. B. Sarkar, M.Sc., D.Sc., F.N.I. (Ghose Professor); Dr. J. C. Bardhan, D.Sc. (Cal. & Lond.) (Khaira Professor).

Applied Chemistry, Dr. B. C. Guha, D.Sc. (Lond.), Ph.D.

Agricultural Chemistry, (Vacant) (Sir P. C. Ray Professor).

Psychology, Dr. S. C. Mitra, M.A., D.Phil. (Leipzig).

Mathematics, Dr. R. N. Sen, M.A., Ph.D. (Hardinge Professor); B. M. Sen, M.A. (Cantab.), M.Sc. (Emeritus Professor).

Applied Mathematics, Dr. Nikhilranjan Sen, M.A., Ph.D., D.Sc. (Ghose Professor).

Zoology, Dr. J. L. Bhaduri, D.Sc. (Lond.), D.I.C. (Sir Nilratan Sircar Professor).

Botany (Vacant).

Indian Linguistics and Phonetics, Dr. Sukumar Sen, M.A., Ph.D.; Dr. Suniti Kumar Chatterjee, M.A., D.Litt. (Emeritus Professor).

Agriculture, Dr. P. K. Sen, M.Sc., Ph.D. (Lond.), D.I.C. (Khaira Professor).

Anthropology, Kshitisprasad Chattopadhyay, M.Sc. (Cantab.).

Modern Indian Languages, Dr. Sasi Bhushan Das Gupta, M.A., Ph.D. (Ramtanu Lahiri Professor).

Pali, Dr. N. Dutt, M.A., LL.B., Ph.D., D.Litt.

Physiology, Dr. B. B. Sarkar, D.Sc., F.R.S.E.

Political Science, D. N. Banerjee, M.A. (Surendranath Banerjee Professor).

Geography, Dr. S. P. Chatterjee, M.Sc., Ph.D. (Lond.), T.D. (Lond.), D. Litt., F.G.S.

Geology, Prof. N. N. Chatterjee, M.Sc.

Industrial Finance, Dr. S. K. Basu, M.A., Ph.D.

No. of affiliated Colleges—120.

No. of constituent colleges : 7.

Total no. of students : 85,024 boys and 16,112 girls (1955-56).

BUDGET (1955-56)

Receipts	Rs.	90,39,470
Expenditure	Rs.	88,97,275
Bengal Govt. grant	Rs.	22,77,611
India Govt. grant	Rs.	2,63,566

CALCUTTA COLLEGES

ALL-INDIA INSTITUTE OF HYGIENE & PUBLIC HEALTH, 110, Chittaranjan Avenue, Calcutta-12.

ASUTOSH COLLEGE, 92, Syamaprasad Mookerjee Rd., Kalighat, Calcutta-26.

BANGABASI COLLEGE, 19, Scotts Lane, Calcutta-9.

BENGAL MUSIC COLLEGE, 4, Hindusthan Road, Calcutta-29.

BENGAL VETERINARY COLLEGE, Belgachia, Calcutta-4.

BENGAL TANNING INSTITUTE, Canal South Road, Pagla Danga, Calcutta-15.

*BETHUNE COLLEGE, 181, Cornwallis Street, Calcutta-6.

CALCUTTA DENTAL COLLEGE, 114, Lower Circular Road, Calcutta-14.

CALCUTTA NATIONAL MEDICAL INSTITUTE, 32, Gorachand Road, Calcutta-17.

CENTRAL CALCUTTA COLLEGE, 8, Wellesley Street, Calcutta-13.

CHARUCHANDRA COLLEGE, 22, Lake Road, Calcutta-29.

CHITTARANJAN SEVA SADAN, Shyamaprasad Mookerjee Road, Calcutta-26.

CITY COLLEGE, 102/1, Amherst Street, Calcutta-9.

CITY COLLEGE (COM. DEPT.), 13, Mirzapur Street, Calcutta-12.

DAVID HARE TRAINING COLLEGE, 25/3, Ballygunge Circular Rd., Calcutta-19.

*DESHBANDHU COLLEGE FOR GIRLS, 58A, Sadananda Road, Calcutta.

GOENKA COLLEGE OF COMMERCE & BUSINESS ADMINISTRATION, 210, Bowbazar Street, Calcutta-12.

*GOKHALE MEMORIAL GIRLS' COLLEGE, 1 1, Harish Mukherjee Road, Calcutta-20.

INSTITUTE OF CHILD HEALTH, 95, Dilkhusa Street, Calcutta-17.

*INSTITUTE OF EDUCATION FOR WOMEN, Hastings House, Calcutta-27.

KSHUDIRAM BOSE CENTRAL COLLEGE, 71/2A, Cornwallis Street, Calcutta-6.

LA MARTINEIRE, 11, London Street, Calcutta-16.

*LADY BRABOURNE COLLEGE, P. 1/2, Suhrawardy Avenue, Calcutta-17.

*LORETO HOUSE, 7, Middleton Row, Calcutta-16.

MAHARAJA MANINDRACHANDRA COLLEGE, 20, Ramkanta Bose Street, Calcutta-3.

MEDICAL COLLEGE, 88, College Street, Calcutta-12.

*MURALIDHAR GIRLS' INSTITUTE, 4, Hindusthan Road, Calcutta-29.

NARKELDANGA GURUDAS COLLEGE, Narkeldanga Syamaprasad Institute, Calcutta.

NILRATAN SARKAR MEDICAL COLLEGE, 138, Lower Circular Road, Calcutta-14.

PRESIDENCY COLLEGE, 86/1, College Street, Calcutta-7.

R. G. KAR MEDICAL COLLEGE, 1, Belgachia Road, Calcutta-4.

SANSKRIT COLLEGE, Bankimchandra Chatterjee Street, Calcutta-12.

THE SCHOOL OF TROPICAL MEDICINE, Chittaranjan Avenue, Calcutta-12.

SCHOOL OF ANAESTHESIOLOGY, 244, Lower Circular Road, Calcutta.

SCOTTISH CHURCH COLLEGE, 4, Azad Hind Bagh, Calcutta-6.

SETH ANANDARAM JAIPURIA COLLEGE, 10, Raja Nabakissen St., Calcutta-5.

*SETH SOORAJMALL JALAN GIRLS' COLLEGE, 186, Chittaranjan Avenue, Calcutta.

*SOUTH CALCUTTA GIRLS' COLLEGE, 72, Lansdowne Road, Calcutta-25.

*SRI SIKSHAYATAN (College Dept.), 11, Lord Sinha Road, Calcutta-16.

ST. JOSEPH'S COLLEGE, 69, Bowbazar Street, Calcutta-12.

ST. XAVIER'S COLLEGE, 30, Park Street, Calcutta-16.

ST. PAUL'S C. M. COLLEGE, 33/1, Amherst Street, Calcutta-9.

SURENDRANATH COLLEGE, 24, Harrison Road, Calcutta-9.

SURENDRANATH LAW COLLEGE, 24, Harrison Road, Calcutta-9.

UNIVERSITY COLLEGES OF ARTS & COMMERCE, Calcutta University.

UNIVERSITY COLLEGES OF SCIENCE & TECHNOLOGY, 92, Upper Circular Road, Calcutta-9.
UNIVERSITY LAW COLLEGE, Calcutta University, Calcutta.
*VICTORIA INSTITUTION FOR GIRLS, 78-B, Upper Circular Road, Calcutta-9.
VIDYASAGAR COLLEGE, 39, Shankar Gosh Lane, Calcutta-6.
VIJAYGARH JYOTISRAY COLLEGE, Jadavpur P.O., Calcutta-32.
WEST BENGAL STATE COLLEGE OF AGRICULTURE, Rani Kuthi, Calcutta-40.
*WOMEN'S COLLEGE, 204, Cornwallis Street, Calcutta-6.
*WOMEN'S CHRISTIAN COLLEGE, 6, Greek Church Row, Kalighat P.O., Calcutta-26.

MUFASSIL COLLEGES

ANANDACHANDRA COLLEGE, Jalpaiguri, Jalpaiguri.
ASANSOL COLLEGE, Asansol, Burdwan.
BALURGHAT COLLEGE, Balurghat, West Dinajpur.
BANKIMCHANDRA SARDAR MAHAVIDYALAYA, Tangrakhali, 24-Parganas.
BANKURA CHRISTIAN COLLEGE, Bankura.
BANKURA SAMMILANI COLLEGE, Bankura.
BANKURA SAMMILANI MEDICAL COLLEGE, Bankura.
BARRACKPORE RASTRAGURU SURENDRANATH COLLEGE, Barrackpore, 24-Parganas.
BARASAT GOVT. COLLEGE, Barasat, 24-Parganas.
BASIRHAT COLLEGE, Basirhat, 24-Parganas.
BENGAL ENGINEERING COLLEGE, Botanic Gardens, Howrah.
*BERHAMPORE GIRLS' COLLEGE, Berhampore, Murshidabad.
BAGOOLA SRIKRISHNA COLLEGE, Bagoola, Nadia.
BOLPUR COLLEGE, Bolpur, Birbhum.
BRAHMMANANDA KESABCHANDRA COLLEGE, Kamarhati, 24-Parganas.
BURDWAN RAJ COLLEGE, Burdwan, Burdwan.
CHANDERNAGAR COLLEGE, Chandernagar, Hooghly.
DARJEELING GOVT. COLLEGE, Darjeeling.
DARJEELING ST. JOSEPH'S COLLEGE, North Point, Darjeeling.
DARJEELING ST. PAUL'S COLLEGE, Jalapahar, Darjeeling.
DINABANDHU ANDREWS COLLEGE, Garia, 24-Parganas.
DINABANDHU INSTITUTION (COLLEGE), 412/1, G. T. Road, Sibpur, Howrah.
DINABANDHU MAHAVIDYALAYA, Bongaon, 24-Parganas.
DINHATA COLLEGE, Cooch Behar.
DUM DUM MOTIJHEEL COLLEGE, Dum Dum, Calcutta-28.
FAKIRCHAND COLLEGE, Diamond Harbour, 24-Parganas.
GARBETA COLLEGE, Garbeta, Midnapore.
GOBARDANGA HINDU COLLEGE, Gobardanga, 24-Parganas.
HOOGHLY MOHSIN COLLEGE, Chinsurah, Hooghly.
HUGHLI TRAINING COLLEGE, Hughli.
*HOOGHLY WOMEN'S COLLEGE, Chinsurah, Hooghly.
*HOWRAH GIRLS' COLLEGE, 5/3, Mahatma Gandhi Road, Howrah.
JANGIPUR COLLEGE, Jangipur, Murshidabad.
JHARGRAM RAJ COLLEGE, Jhargram, Midnapore.
KALNA COLLEGE, Kalna, Burdwan.
KATWA COLLEGE, Katwa, Burdwan.
KHARAGPUR COLLEGE, Kharagpur, Midnapore.
KRISHNACHANDRA COLLEGE, Hetampur, Birbhum.
KANDI COLLEGE, Kandi, Murshidabad.
KRISHNAGAR COLLEGE, Krishnagar, Nadia.
KRISHNATH COLLEGE, Berhampore, Murshidabad.
MAHARAJA BIR BIKRAM COLLEGE, Agartala, Tripura State.
*MAHARAJA UDAYCHAND COLLEGE FOR WOMEN, Burdwan.
MAHISHADAL RAJ COLLEGE, Mahishadal, Midnapore.
MALDA COLLEGE, Malda.
*MANIMALA GIRLS' COLLEGE, Asansol, Burdwan.
MIDNAPORE COLLEGE, Midnapore.
NARSINGH DUTT COLLEGE, 129, Bellilios Road, Howrah.
NETAJI MAHAVIDYALAYA, Arambagh, Hooghly.
*PRASANNADEV BALIKA MAHAVIDYALAYA, Jalpaiguri.
PRABHATKUMAR COLLEGE, Contai, Midnapore.
RAMANANDA COLLEGE, Bishnupur, Bankura.
RAMKRISHNA MAHAVIDYALAYA, Kailasahar, Tripura State.
RAMKRISHNA MISSION VIDYAMANDIR, Belur, Howrah.
RAMPURHAT COLLEGE, Rampurhat, Birbhum.
RAMSADAY COLLEGE, Amta, Howrah.
RANAGHAT COLLEGE, Ranaghat, Nadia.
RAIGANJ COLLEGE, Raiganj, West Dinajpur.
RISHI BANKIMCHANDRA COLLEGE, Naihati P.O., 24-Parganas.
SANTIPUR COLLEGE, P.O. Santipur, Nadia.
SCOTTISH UNIVERSITIES MISSION COLLEGE, Kalimpong, Darjeeling.
SERAMPORE COLLEGE, Serampore, Hooghly.
SHYAMSUNDAR COLLEGE, Shyamsundar, Burdwan.
SILIGURI COLLEGE, Siliguri, Darjeeling.
SONADA SALESIAN COLLEGE, Darjeeling.
SRI CHAITANYA COLLEGE, Habra, 24-Parganas.
SRIPAT SINGH COLLEGE, Jiaganj, Murshidabad.
*SOROJINI NAIDU COLLEGE FOR WOMEN Dum Dum, 24-Parganas.
TAKI GOVT. COLLEGE, Taki, 24-Parganas.
TAMRALIPTA MAHAVIDYALAYA, Tamluk, Midnapore.
ULUBERIA COLLEGE, P. O. Uluberia, Howrah.
UNION CHRISTIAN TRAINING COLLEGE, Berhampore, Murshidabad.
UTTARPARA RAJA PEARYMOHAN COLLEGE, Uttarpara, Hooghly.
VICTORIA COLLEGE, Cooch-Behar.
VIDYASAGAR COLLEGE, Nabadwip, Nadia.
VIDYASAGAR COLLEGE, Suri, Birbhum.
VIJAYANARAIN MAHAVIDYALAYA, Itachuna, Hooghly.
VIVEKANANDA COLLEGE, Barisha.

Colleges marked with "Asterisk" are women's colleges.

SPECIAL INSTITUTIONS

Government.

GOVERNMENT COMMERCIAL INSTITUTE, 15, Netaji Subhas Road, Calcutta.
GOVERNMENT SCHOOL OF ART, 28, Chowringhee Road, Calcutta.
BAIGACHI GOVERNMENT BASIC TRAINING SCHOOL, No. 1, Post Office Tababeria, 24 Parganas.
BAIGACHI GOVERNMENT BASIC TRAINING SCHOOL, No. 2, Post Office Tababeria, 24 Parganas.

TECHNICAL AND INDUSTRIAL INSTITUTIONS

MAHARAJA COSSIMBAZAR POLYTECHNIC INSTITUTE, 3, Nanda Lal Bose Lane, Calcutta.
CALCUTTA DEAF AND DUMB SCHOOL, 269, Upper Circular Road, Calcutta.
BHARATI VIDYALAYA, 35/2, Beadon Street, Calcutta.
MUSLIM ORPHANAGE INDUSTRIAL SCHOOL, 3, Syed Saleh Lane, Calcutta.
KARAYA INDUSTRIAL SCHOOL, 8, Nasiruddin Road, Calcutta.
CALCUTTA ORPHANAGE TECHNICAL SCHOOL, 1/1, Balaram Ghose Street.
THE REFUGEE, 125, Bowbazar Street, Calcutta.
ALL-INDIA LIGHT-HOUSE FOR THE BLIND, 27, Rasa Road.
L. M. S. BOYS' INDUSTRIAL SCHOOL, Kamarpukur, Tollygunge.
ST. GABRIEL'S INDUSTRIAL SCHOOL, Canning, 24 Parganas.
CALCUTTA BLIND SCHOOL, Behala, 24 Parganas.
SRIRAM INDUSTRIAL SCHOOL, Sultanpur, Birbhum.
DEAF AND DUMB SCHOOL, Suri, Birbhum.
BENGAL AFTER-CARE ASSOCIATION, Bally, Howrah.
B. P. TECHNICAL SCHOOL, Krishnanagar.
DEAF AND DUMB SCHOOL, Murshidabad.
MOBERLY TECHNICAL SCHOOL, Hooghly.
MALIARA INDUSTRIAL SCHOOL, Bankura.
COLLEGE OF AERONAUTICAL SERVICES, P-37, Mission Row Extension, Calcutta 13.
BANIPITH GIRLS' INDUSTRIAL SCHOOL, 57/2, *Raja Dinendra Street, Calcutta.*
BANI MANDIR GIRLS' INDUSTRIAL SCHOOL, 2, *Williams Lane, Calcutta.*
BALLYGUNGE SILPA VIDYALAYA, 14, *Ballygunge Place, Calcutta.*
DESHABANDHU SILPA SIKSHALAYA, 124/1, *Russa Road, Calcutta.*
SHAMSIA GIRLS' INDUSTRIAL SCHOOL, 6, *Palm Avenue, Ballygunge, Calcutta.*
MUSLIM GIRLS' FREE INDUSTRIAL SCHOOL, 52/1D, *Bright Street, Calcutta*
LORETO CONVENT INDUSTRIAL SCHOOL, Mornpei, Mourahat, 24 Parganas.
VAGINI NIVEDITA GIRLS' INDUSTRIAL SCHOOL, Uttarpara, Hooghly.
MISSION GIRLS' INDUSTRIAL SCHOOL, Baskura.
KRISHNANAGAR MAHILA SAMITY, Krishnanagar.
R. C. GIRLS' INDUSTRIAL SCHOOL, Nabadwip.

Girls' institutions are in italics.

GOVERNMENT-SPONSORED TECHNICAL SCHOOLS

KALIKATA SHILPA VIDYAPITH, 13, Jamir Lane, Ballygunge, Calcutta 19.
VISHNUPUR K. G. ENGINEERING INSTITUTE, Post Office Vishnupur, Bankura
THE MAHARAJADHIRAJ SIR BEJOY CHAND INSTITUTE OF ENGINEERING AND TECHNOLOGY, Burdwan.

JADAVPUR UNIVERSITY

(P.O. Jadavpur University, Calcutta 32)

Teaching :

Courses provided at present and Degrees :—

Engineering Courses :

Degree Courses in Mechanical Engineering—B.M.E.; Electrical Engineering—B.E.E.; Chemical Engineering—B.Ch.E.; Civil Engineering (B.C.E.) and Tele-Communication Engineering (B. Tel. E.).

Post-Graduate Courses : Mechanical Engineering (M.M.E.); Electrical Engineering (M.E.E.); Chemical Engineering (M.Ch.E.) and Applied and Engineering Geology (M.Sc.).

Arts & Science Courses :

Preparatory Course to 3 years' Honours Course in Arts & Science; 3 years' Honours Course in Arts in English, Bengali, History, Economics, International Affairs, Philosophy, Sanskrit and Comparative Literature.

3 years' Honours Courses in Science in Chemistry, Mathematics, Physics, Geological Sciences.

Post-graduate courses in Arts, English, History, Economics, Bengali, Philosophy, Sanskrit, International Affairs, Comparative Literature.

Post-graduate Course in Science, Mathematics and Geological Science.

Constituent Colleges :—

College of Engineering & Technology, Bengal: College of Arts and Science.

Number of Students :—1,732.

President, Dr. B. C. Roy, M.D., M.R.C.P., F.R.C.S. (Eng.); *Rector*, Dr. T. Sen, Dr. Ing. (Munich), M.I.E. (Ind.); *Registrar*, P. C. N. Mallik, M.A. (Cantab.); *Treasurer*, S. S. Bagchi, B.E.E., M.I.E. (Ind.).

BUDGET 1957-58

Income : Rs. 12,65,150.
Expenditure : Rs. 12,60,720.
Additional expenditure conditional on grants Rs. 2,55,000.

VISVA-BHARATI UNIVERSITY

Santiniketan, West Bengal.

Founded by Rabindranath Tagore in 1921; incorporated as a Central University, 1951.

AIMS AND OBJECTS: To study the mind of Man in its realization of different aspects of truth from diverse points of view; to bring into more intimate relation with one another through patient study and research, the different culture of the East on the basis of their underlying unity; to approach the West from the stand-point of such a unity of the life and thought of Asia; to seek to realise in a common fellowship of study the meeting of the East and the West, and to strengthen the fundamental condition of World peace.

With such ideals in view to provide at Santiniketan a centre of culture where research into and study of the religion, literature, history, science and art of Hindu, Buddhist, Jain, Islamic, Sikh, Christian and other civilizations may be pursued along with the culture of the West, with that simplicity in externals which is necessary for true spiritual realisation, in amity, good fellowship and co-operation between the thinkers and scholars of both Eastern and Western countries, free from all antagonisms of race, nationality, creed or caste.

Visva-Bharati is a residential University with students and teachers drawn from all over India and there is always a fair mingling of teachers, students and visitors from abroad. Students live a community life, dining in the same halls (with separate arrangements for vegetarians and non-vegetarians), playing in the same spacious play-grounds close to the hostels, organising common socials, picnics, excursions, literary and musical entertainments.

Visva-Bharati maintains the following Institutions:

Patha-Bhavana (School), Siksha-Bhavana (Higher Secondary), Vidya-Bhavana (College of Under-Graduate and Post-Graduate Studies and Research), Vinaya-Bhavana (Teachers' Training College), Kala-Bhavana (College of Fine Arts and Crafts), Sangit-Bhavana (College of Music and Dance). The University maintains also the following Research Departments: (1) Cheena-Bhavana, (2) Indo-Tibetan Institute, (3) Hindi-Bhavana, which organise teaching and Research in Chinese, Tibetan and Hindi respectively.

The Visva-Bharati central library contains about 145,000 volumes. There are sectional and seminar libraries attached to various departments. The University has its own hospital with a Chief medical officer and his assistants. The Guest House, which makes catering arrangements of its own, is open to visitors and guardians.

Besides the academic institutions, the University conducts two Departments: one for Rural Reconstruction and the other for Publication of Books. The Palli-Samgathana Vibhaga (Department of Rural Reconstruction) at Sriniketan is concerned mainly with a comprehensive study of the problems of rural life in its social, cultural, economic and other aspects and extension work in the villages. The department maintains a multi-purpose school with technical stream for rural children.

A two-year Certificate Course in Indian and Foreign languages viz. Sanskrit, Bengali, Hindi, Oriya, Chinese, Japanese, Tibetan, French and German is available to Post-Graduate and Under-Graduate students. Those who have successfully completed the Certificate Course may continue another year's further study for the Diploma in the same languages.

Silpa-Sadana (Cottage Industry Training Centre) provides 2-year Certificate course followed by a further 1-year Diploma course in Weaving and Woodwork.

The Social Education Organizers Training Centre, started under the Community Project Scheme, provides for training of organizers deputed by the different States of the Indian Union.

A scheme of Agro-Economic Research is being conducted at the University under the auspices of the Ministry of Food and Agriculture, Government of India. The scheme has under its purview a considerable area consisting of West Bengal, Bihar, Orissa and Assam.

Under the auspices of the Ministry of Education a Scheme of Educational Extension Services for the improvement of teaching in the Secondary Schools has been introduced at Vinaya-Bhavana. The object of the scheme is to bring new ideas and ideals to bear upon the Secondary Schools.

The Institute of Rural Higher Education, started at Sriniketan in December, 1956, sponsored by the Council of Rural Higher Education (Government of India) offers the following courses: (1) 3-Yr. Diploma course in Rural Services; (2) 2-Yr. Certificate course in Agricultural Science; (3) 1-Yr. Preparatory course.

Budget for 1956-57:

Govt. Grants	.. .. ..	Rs. 8,29,792
Other Sources	.. .. ..	Rs. 14,97,414
Total	.. ..	Rs. 23,27,206
Expenditure	.. .. ..	Rs. 29,75,275

Chancellor: Jawaharlal Nehru, M.A. (Cantab.).
Vice-Chancellor: Prof. Satyendranath Bose.

Hon. Treasurer: K. C. Chaudhury.

Registrar: S. C. Chakravarty, M.Sc., LL.B.

Principals:

Vidya Bhavana, Dr. S. Bhattacharya, M.A., Ph.D. (Lond.), D. Litt. (Lilee).

Siksha-Bhavana, S. C. Roy, M.A.

Sangit-Bhavana, Sailajaranjan Majumdar, M.Sc., LL.B.

Kala-Bhavana, D. K. Dev Barman.

Patha-Bhavana, S. C. Roy, M.A.

Vinaya-Bhavana, A. N. Basu, M.A. (Lond.).

Cheena-Bhavana, Tan Yun-Shan.

Hindi-Bhavana, Dr. R. S. Tomar, M.A., D.Phil. (Alld.).

Director, Rural Reconstruction Institute, Dhiranandra Roy.

Director, Publications Department, Pulinbehari Sen.

Director, Agro-Economic Research Section, Dr. Jyoti Prasad Bhattacharjee.

Librarian, Central Library, Bimal Kumar Datta, M.A., Dip. Lit.

Proctor, S. S. Dasgupta, M.A.

SOCIETIES, ASSOCIATIONS AND OTHER INSTITUTIONS

ACHINTA MOHAN HOMOEOPATHIC HOSPITAL

21, Justice Dwarkanath Road, Calcutta 20.

President: Smt. Promila Devi; *Secretary:* Kalidash Mukherjee; *Superintendent:* Dr. H. L. Sengupta, H.M.B.

ALL BENGAL PERIODICALS ASSOCIATION

203/2B, Cornwallis Street, Calcutta 6.

President: P. Mookherjee; *General Secretary:* Suren Niyogi; *Treasurer:* R. Sen.

THE ALL BENGAL PHYSICAL CULTURE ASSOCIATION

5, Krishna Bihari Sen Street, Calcutta 7.

President: Bhupati Majumdar; Minister, Government of Bengal; *Hon. Secretary:* Dr. H. C. Ray, M.A., P.R.S., Ph.D., D.Lit. (Lond.), F.A.S.; *Hony. Joint Secretary:* Sachindra Mohan Ghosh, Advocate.

ALL-BENGAL TEACHERS' ASSOCIATION

15, Bankim Chatterjee Street, Calcutta 12.

Office-Bearers: Bejoy Behari Bose (*President*); Satyapriya Roy (*General-Secretary*).

ALL BENGAL WOMEN'S UNION

80, Elliot Road, Calcutta 16.

Chairman: Smt. S. C. Mukherjee; *Hon. Gen. Secy.:* Smt. N. Hajra; *Chairman, Welfare Home:* Smt. Romola Sinha.

ALL-INDIA ASTROLOGICAL AND ASTRONOMICAL SOCIETY

(Regd., Estd. 1907).

"Jyotish-Samrat Bhaban", 50/2, Dharamtala Street, Calcutta.

President: Jyotish-Samrat Pt. Ramesh Ch. Bhattacharya, Jyotisharnab, Samudrikratna, Raj-Jyotishi, M.R.A.S. (Lond.) of international fame; *Secretary:* Dr. Prof. Pt. K. Roy, Jyotishacharyya, M.A., Ph.D., M.A.A.S.; *Manager:* P. K. Bhattacharyya, B.Com.; *Administrative Officer:* D. N. Ganguly, B.A.

ALL-INDIA INSTITUTE OF SOCIAL WELFARE AND BUSINESS MANAGEMENT

College Square West, Calcutta 7.

President: Dr. Bidhanchandra Roy; *Vice-President:* Prof. N. K. Sidhanta; *Director:* D. K. Sanyal.

ALL-INDIA JUTE MILL BOBBIN MANUFACTURERS ASSOCIATION

P-11, Mission Row Extension, Calcutta 1.

President.—S. N. Khaitan.

ALL-INDIA MANIMELA MAHAKENDRA

16, Col. Biswas Road, Calcutta 19.

Child Welfare.

Founder-President: Bimal Ghosh; *Secretary-General:* Asin Bardhan; *President-General:* P. C. Sen.

ALL-INDIA MARWARI FEDERATION

152-B, Harrison Road, Calcutta 7.

Office-Bearers, Govinddas, M.P. (*President*); Iswar Das Jalan and Govardhandas Binani (*Vice-Presidents*); Nand Kishore Jalan (*General Secretary*).

ALL INDIA RAZOR BLADE MANUFACTURERS' ASSOCIATION

18, Netaji Subhas Road, Calcutta.

President: Harbans Lal Malhotra; *Vice-Chairman:* S. M. Dahanukar.

ALL-INDIA S. P. C. A.

276, Bowbazar Street, Calcutta.

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Office-Bearers : P. B. Chakravarti, Chief Justice, Calcutta High Court (*President*) ; Prof. P. Ray, M.A., D.S.I. (*Director*) ; S. N. Sen, M.Sc. (*Registrar*).

INDIAN CHEMICAL MANUFACTURERS' ASSOCIATION

'India Exchange,' Calcutta 1.

President : Lala Charat Ram ; *Vice-Presidents :* C. D. Thakkar and J. H. Doshi.

INDIAN CHEMICAL MERCHANTS' ASSOCIATION

India Exchange, India Exchange Place, Calcutta 1.

President : D. P. Kajaria ; *Vice-President :* M. K. Roy ; *Secretary :* L. S. Bisht.

THE INDIAN CONFECTIONERY MANUFACTURERS ASSOCIATION

India Exchange, India Exchange Place, Calcutta.

President : Khanchand J. Pamnani ; *Vice-President :* Suresh Mitra ; *Secretary :* J. S. Mehta.

INDIAN HEMP ASSOCIATION

India Exchange, India Exchange Place, Calcutta 1.

President : B. L. Jalan ; *Secretary :* L. S. Bisht.

INDIAN INSTITUTE OF METALS

31, Chowringhee Road, Calcutta 16.

INDIAN INSTITUTE OF PERSONNEL MANAGEMENT

Artistry House, 15, Park Street, Calcutta 16.

President : Dr. J. K. Bose ; *Hon. Secretary,* S. Nageswaran.

INDIAN INSURANCE INSTITUTE

P-11, Mission Row Extension, Calcutta 1.

President : Sukumar Chatterjee ; *Vice-President :* N. C. Ghosh ; *General Secretary :* B. B. Mukherjee.

INDIAN JUTE MILLS ASSOCIATION

Royal Exchange, Post Box No. 280, Calcutta

Started in 1886.

The need for a Research Department to deal with all the technical problems arising out of quality production and the demand for speciality fabrics resulted in the Association opening a laboratory which now has developed into an institute of notable dimensions with a qualified staff of scientists, and is known as the Indian Jute Mills Association Research Institute, with offices at No. 17, Taratola Road, Calcutta 27.

Chairman, J. I. Jamieson ; *Dy. Chairman,* K. E. Tosh ; *Vice-Chairman,* D. P. Goenka.

INDIAN LAMP FACTORIES ASSOCIATION

P-11, Mission Row Extension, Calcutta 1

President : Prof. S. K. Roy ; *Hony. Treasurer :* S. Sanyal.

THE INDIAN MINING FEDERATION

135, Canning Street, Calcutta 1.

Chairman : Lala Inder Mohon Thapar ; *Vice-Chairman :* Mulchand C. Parekh ; *Secretary* M. Das, M.A., B.L.

INDIAN MUSEUM

27, Chowringhee Road, Calcutta 13.

Office-Bearers : K. P. Khaitan, M.A., LL.B., Barrister-at-Law (*Chairman, Board of Trustees*), Lady Ram Mookerjee (*Vice-Chairman, Board of Trustees*) ; V. P. Sondhi (*Chairman, Committee of Management*) ; Kumar Brindaban Chandra Sinha, M.A., LL.B. (*Hony. Secretary to the Trustees*) Dr. J. N. Ghoshal, M.A., Ph.D., F.A.S. (*Hony Treasurer to the Trustees*).

INDIAN NON-FERROUS METAL MANUFACTURERS' ASSOCIATION

India Exchange, Calcutta.

INDIAN PAINT MANUFACTURERS' ASSOCIATION

India Exchange, India Exchange Place, Calcutta 1.

President : C. L. Jhunjhunwala ; *Vice President :* M. L. Basak ; *Secretary :* L. S. Bisht.

INDIAN PAPER MAKERS' ASSOCIATION

6, Netaji Subhas Road, Royal Exchange, Calcutta 1.

Chairman : J. F. Brierley ; *Vice-Chairman :* I. A. Macpherson ; *Secretary :* W. D. Bryden.

INDIAN PAPER MILLS ASSOCIATION

India Exchange, India Exchange Place, Calcutta 1.

President : A. K. Jain ; *Vice-President :* H. P. Singhi ; *Secretary :* L. S. Bisht.

INDIAN PENCIL MANUFACTURERS' ASSOCIATION

P-11, Mission Row Extension, Calcutta.

INDIAN PRODUCE ASSOCIATION

402, Upper Chitpur Road (Phool Katra), Calcutta 7.

President : Vishan Swarup Aggarwal ; *Vice-President :* Ayodhya Prasad Kalanoria ; *General Secretary :* Srikrishna Agarwala.

INDIAN RED CROSS SOCIETY
West Bengal State Branch

5 & 6, Government Place North, Calcutta.

Chairman : P. C. Sen, Minister for Food, Govt. of West Bengal; *Hon. Treasurer :* J. C. De, Secretary & Treasurer, State Bank of India, Calcutta ; *General Secretary :* S. R. Sen Gupta.

INDIAN ROPE MANUFACTURERS ASSOCIATION

India Exchange, India Exchange Place, Calcutta 1.

President : K. L. Jalan ; *Vice-President :* H. D. Wahi ; *Secretary :* L. S. Bisht.

INDIAN SCIENCE CONGRESS ASSOCIATION

64, Dilkhusa Street, Calcutta-17.

President : Dr. A. L. Mudaliar, M.D., LL.D., D.Sc., D.C.L. ; *General Secretaries : Headquarters :* Dr. A. K. Dey, Ph.D., D.I.C. (Lond.) ; *Outstation :* Dr. B. N. Prasad, D.Sc. (Paris), Ph.D. (Liverpool), M.Sc., F.N.I. (Allahabad) ; *Treasurer :* Prof. B. C. Guha, Ph.D., D.Sc. (Lond.), F.N.I.

INDIAN SOAP AND TOILETRIES MAKERS' ASSOCIATION

P-11, Mission Row Extension, Calcutta 1.

Objects : To safeguard, protect and promote the interests of the Indian Soap and Cosmetics manufacturers. The Association has zonal committees in four zones, *viz.*, East, West, North and South with their respective headquarters at Calcutta, Bombay, Modinagar and Calicut. The Association has a journal of its own under the style "Indian Soap Journal" in which articles of research on Soaps and oils are being published.

President : B. Maitra ; *Members :* Rai Bahadur G. V. Swaika ; S. P. Sen ; G. S. Nevatia ; S. A. Narielwala ; Rai Bahadur G. M. Modi ; S. P. Godrej; Dr. H. G. Ramakrishna Reddy ; Liladhar Mehta ; *Hon. Treasurer :* G. N. Khaitan ; *Secretary :* S. R. Biswas, M.A.

THE INDIAN SOCIETY OF THEORETICAL AND APPLIED MECHANICS

Indian Institute of Technology, Kharagpur.

President : Dr. S. R. Sen Gupta, *Director*, I.I.T., Kharagpur ; *Secretary-Treasurer :* Dr. B. R Seth, I.I.T., Kharagpur ; *Senior Vice-President :* V. Cadambe, *Director of Research and Development (General), Ministry of Defence, Govt. of India.*

INDIAN STATISTICAL INSTITUTE

203, Barrackpore Trunk Road, Calcutta 35.

Secretary, Prof. P. C. Mahalanobis, F.R.S.

INDIAN STRAWBOARD MANUFACTURERS' ASSOCIATION

State Bank Building (Burrabazar Branch), Calcutta 7.

President : Lala Banarsidasji ; *Vice-President :* Pratap Sinh Navlakha ; *Secretary :* B. N. Sengupta.

INDIAN SUGAR MILLS ASSOCIATION

India Exchange, Calcutta 1.

President : L. B. S. Sawhney ; *Senior Vice-President :* P. Haddeld ; *Junior Vice-President :* Sahu Jagdish Prasad.

INDIAN TEA ASSOCIATION

Royal Exchange, 6, Netaji Subhas Road, Calcutta 1.

Chairman : C. D. Wilson ; *Vice-Chairman :* L. T. Carmichael ; *Deputy Chairman :* J. L. Llewellyn.

INDIAN TEA PLANTERS' ASSOCIATION

Post Box No. 74, Jalpaiguri.

Senior Chairman : K. K. Bahut ; *Senior Vice-Chairman :* B. C. Ghose ; *Vice-Chairmen :* T. N. Ghatak, I. Hossain ; *Hon. Treasurer :* N. N. Bagchi ; *Hony. Secretary :* P. B. Guha.

INSTITUTION OF ENGINEERS (INDIA)

8, Gokhale Road, Calcutta 20.

The council of this Institution also acts as the Indian National Committee for the World Power Conference and for the World Petroleum Congress.

President : D. P. R. Cassad, B.Sc. (Eng.), M.Sc. (Eng.), M.I.E., M.Asce., M.R. San. I., M.M.G.I. ; *Secretary to the Indian National Committee* (World Power Conference), B. Seshdri, B.Sc., C.I.I.Sc., A.I.I.Sc., D.I.C., M.Sc. (Eng.), M.I.E.

THE INSURANCE ASSOCIATION OF INDIA, CALCUTTA REGIONAL COUNCIL

India Exchange, 6th Floor, Calcutta 1.

Chairman : B. N. Chakravarty ; *Dy. Chairman:* I. E. Gillanders ; *Secretary :* S. Das Gupta.

IRAN SOCIETY

159-B, Dharamtala Street, Calcutta 13.

Office-Bearers : President : S. N. Modak, M.A., B.A (Cantab.), Barrister-at-Law, I.C.S. (Retd.) ; *Vice-Presidents :* Rev. Fr. V. Courtois, S.J. ; Dr. Hassan Pirnahad, Consul General for Iran in Calcutta ; *General Secretary :* Dr. M. Ishaque, B.Sc., M.A. (Cal.), Ph.D. (Lond.) ; *Hon. Treasurer :* Fazlur Rahman, B.A. (Hons.).

JUTE AGRICULTURAL RESEARCH INSTITUTE

Indian Central Jute Committee, Barrackpore.

Researches on breeding and genetical, cytogenetical, anatomical, physiological, agronomical soil, biochemical and microbiological, mycological and pathological, entomological and other aspects of jute and all other long fibre plants are carried out.

Director : Dr. B. C. Kundu, M.A., Ph.D. (Leeds), F.L.S., F.N.I.

THE JUTE BALERS' ASSOCIATION

12, India Exchange Place, Calcutta 1.

President : C. M. Chopra ; *Vice-President :* S. L. Sethia ; *Secretary :* R. N. Mohnot, M.Com., LL.B.

JUTE FABRIC BROKERS ASSOCIATION

Royal Exchange, Calcutta 1.

Chairman : Astan Manasseh ; *Secretary :* W. D. Bryden.

KESHUB ACADEMY MULTIPURPOSE SCHOOL

148, Ramdulal Sarkar Street, Calcutta 6.

Office-Bearers : Prof. A. C. Banerjee, M.A. (Cantab.), (*President*) ; Dr. A. N. Bose, (*Hony. Secretary*) ; N. C. Sinha, M.A., Dip. Ed. (Edin.), (*Headmaster*).

LANTERN MANUFACTURERS' ASSOCIATION

India Exchange (7th Floor), Calcutta.

LIGHTHOUSE FOR THE BLIND

174, Syamaprosad Mookerjee Road, Calcutta 26.

President : Sir B. P. Singh Roy, Kt., K.C.I.E. ; *Hony. Secretaries :* Mrs. Bani Das, M. S. Sengar.

MAHA BODHI SOCIETY OF INDIA

4-A, Bankim Chatterji Street, Calcutta 12.

Centres : Sarnath, Gaya, New Delhi, Buddhagaya, Bombay, Madras, Lucknow, Ajmer, Kalimpong, Nautanwa and Sanchi.

Office-Bearers : Lt.-Col. P. Thondup Namgyal Maharaj Kumar of Sikkim (*President*) ; D. Valisinha (*General Secretary*) ; J. M. Majumdar (*Treasurer*).

MAHILA SEVA SAMITY

5, Wellesley Place, Calcutta 1.

President : Dr. Mrs. Maitreye Bose ; *Hony. Gen. Secretary :* Mrs. Labanyaprova Dutt ; *Hony. Treasurer :* Mrs. Asoka Gupta.

MANIMELA MAHAKENDRA

(National Headquarters of All-India Manimela Child-welfare Agency)

16, Col. Biswas Road, Calcutta 19.

Founder-President: Bimal Ghosh (Moumachhi) ; *General President :* Prafulla Ch. Sen ; *Secretary-General :* Asim Bardhan, M.Ed.

MARWARI ASSOCIATION

160A, Chittaranjan Avenue, Calcutta.

Its chief objects are :—To promote and advance the moral, intellectual, commercial, economic, political and social interests of the Marwari community and to protect its rights and status.

President : Rai Bahadur Ram Prasad Ji Rajgarhia ; *Vice-Presidents :* Harikrishna Jhajharia and Sheobhagwan Goenka ; *Hony. Secretary :* Brahmadutta Jhunjhunwalia ; *Asstt. Hon. Secretary :* Srilal Kyal ; *Auditor :* Messrs. Singhi & Co.

MARWARI RELIEF SOCIETY

391, Upper Chitpur Road, Calcutta 7.

Office-Bearers : Radhakrishna Kanoria (*President*) : Ramkumar Bhuwalka ; Kashi Prasad Modi (*Vice-Presidents*) ; Badri Prasad Poddar (*Hon. General Secretary*).

MARWARI SABHA PUSTAKALYA

161, Chittaranjan Avenue, Calcutta 7.

MASTER STEVEDORES' ASSOCIATION

Royal Exchange, Calcutta 1.

President : K. C. Mookerjee ; *Vice-President :* A. N. Chowdhury ; Secretary : W. D. Bryden.

MATRI JATI SEBAK SAMITY

83,C, Durga Charan Mitra Street, Calcutta 6.

President : N. C. Mitra, Solicitor ; *Secretary :* Dr. Aditya Nath Basumallick, M.B.

MILAN MANDIR AND RAKSHIDAL

211, Rash Behari Avenue, Calcutta 19.

President : Swami Satchidanandaji ; *General Secretary :* Swami Vedanandaji ; *Joint-Secretary :* Swami Joganandaji.

MINING, GEOLOGICAL AND METALLURGICAL INSTITUTE OF INDIA

27, Chowringhee Road, Calcutta 13.

Office-Bearers : Dr. J. W. Whitaker (*President*) ; Dr. R. K. Dutt Roy (*Hon. Secretary*) ; D. R. S. Mehta (*Hony. Treasurer*).

THE MUSLIM INSTITUTE

21-A, Haji Mohammad Mohsin Square, Calcutta 16.

President : Khan Bahadur G. A. Dossani, *Vice-Presidents :* Janab Moulana Said Ahmed Akbarabadi, M.A., Prof. S. K. Basu, M.A., Janab Karam Hussain, Dr. Esmail Ebrahim, M.B., B.S., Janab G. M. Taher ; *Hony. General Secretary :* Janab A. Kabir ; *Hony. Treasurer :* Janab Moulana Said Ahmed Akbarabadi, M.A.

NARKELDANGA SIR GOOROODAS INSTITUTE

13, Jay Narayan T.P. Lane, 27, Sir Gooroodas Road and 28, Sir Gooroodas Road—Office : 27, Sir Gooroodas Road, Narkeldanga, Calcutta 11.

Principal : P. K. Bose, M.A. (Oxon.), LL.B. *President :* Samir Kumar Biswas.

NATIONAL SWIMMING ASSOCIATION

(Member—Swimming Federation of India)

Pavilion, Azad Hind Bagh, Calcutta 6.

Office-Bearers : President : U. K. Ghoshal, I.C.S., Chairman, Tea Board ; *Hony. General Secretary :* Samar Ghosal ; *Hony. Treasurer :* Ganandra Nath Biswas.

NAZRUL PATHAGAR
47/1, Mirzapur Street, Calcutta 9.

NORTH BENGAL MOTOR TRANSPORT ASSOCIATION
Arya Bank Building, Jalpaiguri.

President : Dr. Charu Chandra Sanyal, M.I.C.; *General Secretary :* Amiya Sen, Planter ; *Office Secretary :* Sudhir Ch. Mukerjee.

PAINT FEDERATION
Royal Exchange, Calcutta.

Chairman : R. S. T. Cooke ; *Vice-Chairman (Calcutta),* G. V. Dorsey ; *Vice-Chairman (Bombay),* S. L. G. Wright.

PASTEUR INSTITUTE, SCHOOL OF TROPICAL MEDICINE
Chittaranjan Avenue, Calcutta 12.

Superintendent : Dr. J. Banerjee.

THE PLYWOOD MANUFACTURERS ASSOCIATION OF INDIA
P-11, Mission Row Extension, Calcutta 1.

President : N. P. Roy ; *Vice-Presidents :* M. Majumder, A. K. Himmatsingka.

PRACYAVANI
3, Federation Street, Calcutta 9.

Main Object :—Propagation of Sanskrit Learning throughout the world.

President : Dr. N. R. Sen Gupta, M.D. ; *Treasurer :* Dr. B. B. Dutt ; *Secretary :* Dr. J. B. Chaudhuri.

RAMAKRISHNA MATH AND MISSION
(P. O. Belur Math, Dt. Howrah).

The Ramakrishna Math and Mission is an Organisation for missionary, philanthropic and educational service.

The Ramakrishna Math and Mission is registered under Act XXI of 1860 and has 72 centres spread over India, Pakistan, Burma, Ceylon, Singapore, Fiji, Mauritius and France.

It has under it 9 indoor hospitals, 48 outdoor dispensaries, 2 colleges for general studies and 2 for Teachers' Training, 3 Engineering Schools, a budding Agricultural School, 42 Students' Homes, 32 secondary schools, 120 lower grade schools, 1 institution for training auxiliary nurses and midwives, and 57 libraries, making a total of 317 institutions, in addition to cultural and religious lectures and classes, mass education work, social service, monetary help and relief works.

The Ramakrishna Math has 66 centres spread over India, Pakistan, Europe and U.S.A. It conducts 3 hospitals, 12 outdoor dispensaries, 1 veterinary hospital, 3 secondary schools, 11 Students' Homes, 7 lower grade schools, 29 libraries, and 10 principal publication centres, besides a Convent.

President : Swami Sankaranauda.

General Secretary : Swami Madhavananda.

RAMAKRISHNA VEDANTA MATH
19-B, Raja Rajkrishna Street, Calcutta 6.

President : Swami Sadatmananda ; *Secretary :* Swami Prajnanananda ; *Manager :* Swami Adyananda.

THE REFUGE
125-A, Bowbazar Street, Calcutta 12.

Office-Bearers : Mr. Justice B. K. Guha, I.C.S. (*President*) ; Mr. Justice Sankar Prasad Mitra, (*Working President*) ; T. C. Roy (*Hony. Secretary*); A. K. Chakravarti, M.A., B.L. (*Supdt.*).

THE ROYAL AGRICULTURAL AND HORTICULTURAL SOCIETY OF INDIA
1, Alipore Road, Calcutta 27.

Patron :—The President of the Republic of India.

Vice-Patron :—The Governor of West Bengal.

President : Sir U. C. Mahtab, K.C.I.E., Maharajadhiraj Bahadur of Burdwan. *Officer-in-Charge :* V. N. Tankha, M.A., M.Sc.

SADHARAN BRAHMA SAMAJ
211, Cornwallis Street, Calcutta 6.

Office-Bearers : Dr. D. M. Bose, M.A., Ph.D. (Berlin) (*President*) ; Jyotirindranath Das, B.Sc. (*Secretary*) ; Manindra Kumar Datta (*Treasurer*).

SAFETY FIRST ASSOCIATION OF INDIA
(Bengal Provincial Branch)
13, Ballygunge Circular Road, Calcutta 19.

Patron, Smt. Padmaja Naidu, Governor of West Bengal ; *President,* D. N. Sen ; *Vice-Presidents,* N. C. Laharry, Major S. C. Dutta, Dr. A. C. Ukil ; *Hony. Treasurer,* G. Basu ; *Hony. Secretary,* K. K. Das.

THE SALVATION ARMY MEN'S INDUSTRIAL HOME
172, Lower Circular Road, Calcutta 14.

Nature of Body : Social, Waste Paper and Salvaged Industries ; Dispensary and Flood Relief Centre.

Captain R. Bath (*Officer-in-Charge*).

SAMAJPATI SMRITI SAMITY
(Library and Free Reading Room)
47-E, Shampukur Street, Calcutta 4.

Office-Bearers : President, Kironchandra Dutta, M.R.A.S. ; *Secretary,* Charu Chandra Majumdar, B.A. ; *Librarian,* Debipada Nandan.

THE SANTI INSTITUTE
(Estd. 1918)
Sporting and Cultural.
26,1/A, Sasi Bhuson Dey St., Calcutta 12.

President : Rai Sasi Bhuson Dey Bahadur ; *Secretary :* Bipradas Dutt ; *Librarian :* Guruprosad Dutt, M.A.

SATCHIDANANDA GRANTHAGAR
65/2B, Beadon Street, Calcutta 6.

President : Dr. K. K. Sengupta, M.A., B.Sc., M.B., D.T.M. ; *Secretary :* Chandra Sekhar Gupta.

SATYENDRA PATHAGAR
Arya Samity Road, Behala, Calcutta 34.

Office-Bearers . President : D. N. Dhar, F.R.G.S., M.R.A.S. (Lond.) ; *Librarian :* Lalit Mohan Dutta.

SCHOOL OF TROPICAL MEDICINE
Central Avenue, Calcutta 12.

Director : Dr. B. N. Chaudhuri, M.B., F.R.C.P.E., T.D.D. (Wales), F.N.I. ; *Deputy Director :* Dr. N. V. Bhaduri, M.Sc., M.B. ; *Secretary :* P. Banerjee.

SHISHU SAHITYA PARISHAD
16, Townshend Road, Calcutta 25.

President : Jogendra Nath Gupta ; *Vice-President :* Narendra Dev ; *Secretary :* Dhirendra Lal Dhar.

SHREE JAIN SABHA
7, Shambhu Mullick Lane, Calcutta 7.

President: Sahu Shanti Pd. Jain ; *Secretary :* Shreechand Mehta ; *Asst. Secy. :* Labhchand Baisurana.

SHREE SHREE BALANANDA BRAHMACHARI SEBAYATAN
105/2, Raja Dinendra Street, Calcutta 6.

A T.B. Hospital for early T.B. cases with 52 free beds.

President : Dr. K. K. Sengupta, M.A., B.Sc., M.B., D.T.M. ; *Secretary :* Chandra Sekhar Gupta.

SHREE SHREE MOHANANANDA SEBAYATAN BRAHMACHARI
22-A, Shibkristo Daw Lane, Calcutta 11.

A Maternity Hospital and Child Welfare centre.

President : Dr. K. K. Sengupta, M.A., B.Sc., M.B., D.T.M. ; *Secretary :* Chandra Sekhar Gupta.

SISIR KUMAR INSTITUTE
71/1, Baghbazar, Street, Calcutta 3.

President : Tushar Kanti Ghosh ; *General Secretary :* Sudhir Kumar Bose ; *Deputy General Secretary :* Provat Kumar Bose.

SOCIETY FOR THE PROTECTION OF CHILDREN IN INDIA
2B, Camac Street, Calcutta.

The S.P.C.I. seeks to rescue and protect children in India who are exposed to any kind of danger, *e.g.*, cruelty, moral danger, exploitation, vagrancy, delinquency and the like, irrespective of caste or creed or nationality.

President : Mr. Justice Jyoti P. Mitter ; *Vice-Presidents :* The Maharajadhiraja Bahadur of Burdwan ; The Most Rev. Dr. J. Fernandes, Archbishop of Delhi and Simla ; Dr. K. C. Chaudhuri ; Rev. Canon J. R. Robson, O.B.E. ; *Hon. Treasurer :* P. F. M. Alesworth ; *General Secretary :* Smt. Indira Dutta Ray.

SONADA MERCHANTS' ASSOCIATION
P.O. Sonada, (Dt. Darjeeling)

SREE BHAIRABI JOGESWARI MATT
2, Gour Laha Street, Calcutta 6.

Office-Bearers : Founders, Kulayogini Chinmoye Giri, Kulacharyya Kali Krishnananda Giri ; *General Secretary,* Viranauda Giri, M.A. ; *Home Secy.,* Shivananda Giri, M.A. ; *Medical Secy.,* Dr. B. C. Bhattacherji, M.B. ; *Artist,* Subodh Roy.

SRI RAMAKRISHNA SARADA MATH
1, Chitpore Bridge Approach, Calcutta 3.

Office-Bearers : President, Swami Tripuranandajee ; *Members :* Swami Bhumanandajee and others.

THE ST. JOHN AMBULANCE BRIGADE
No. 2 (West Bengal) Dist.
5, Govt. Place North, Calcutta 1.

Commissioner : Lt.-General D.N. Chockrabarty ; *Staff Officer :* Major D. P. Mitra ; *District Officer* R. N. Ghosh.

STATIONERY & OFFICE EQUIPMENT ASSOCIATION OF INDIA
P-11, Mission Row Extension, Calcutta 1.

President : K. D. Manaktala ; *Vice-President :* G. D. Chatterji ; *Hony. General Secretary :* V. K. Batra ; *Hony. Treasurer :* D. Phelan.

STEEL RE-ROLLING MILLS ASSOCIATION OF INDIA
20, Strand Road, Calcutta-1.

Chairman : B. P. Khaitan ; *Vice-Chairman :* Sardar D. Inder Singh ; *Treasurer :* Gayadin Ram ; *Secretary :* A. C. Das Gupta.

TEA ASSOCIATION OF INDIA
India Exchange, India Exchange Place, Calcutta 1.

President : D. C. Ghose ; *Vice-President :* T. Kanoria ; *Secretary :* L. S. Bisht.

TERRITORIAL ARMY INSTITUTE
Territorial Pavilion, Outram Road, Calcutta-16.

To foster *esprit-de-Corps* among members of the Territorial Army ; to promote social and cultural activities among them ; organise games and competitions ; to serve as a centre of information and of Territorial Army activities.

TUBERCULOSIS RELIEF MISSION
24/1A, Mahatma Gandhi Road, Calcutta 9.

President : Dr. Nalini Ranjan Sen Gupta, M.D. ; *Trustee :* Dr. Kalidas Nag, M.A., D. Litt. (*Advisory Board*) ; Dr. D. P. Basu, M.B., M.R.C.P., Ph.D. (Edin.).

TROPICAL DIET RESEARCH SOCIETY
1/6, Fakir Chakraborty Lane, Calcutta 6 ; Beadon Street P.O., Calcutta.

Office-Bearers : Director, Dr. G. B. Das, D.Sc., M.D. ; *Secretary,* I. B. Mullick, D.Sc. ; *Asstt. Secretary,* S. N. Das, D.Sc.

UNITED KINGDOM CITIZEN'S ASSOCIATION
51, Chowringhee Road, Calcutta 16.

The objects of the Association are cultural, charitable, social, educational and benevolent, and generally to look after the interests of its members and others.

President : Sir Owain Jenkins, Kt.

Vice-Presidents : D. C. B. Pilkington, O.B.E. (*Calcutta*) ; S. Murray Scott (*Bombay*).

Honorary General Treasurer : D. Fordwood.

UTKAL MINING AND INDUSTRIAL ASSOCIATION

"Gandhi House", 16, Ganesh Ch. Avenue, Calcutta 13.

President : S. C. Bose ; *Vice-President :* Misrilal Jain ; *Hony. Genl. Secretaries :* B. P. Mohanty, R. K. Mitter ; *Hony. Treasurer :* S. R. Bhowmick.

VIVEKANANDA MISSION

1, Chitpur Bridge Approach, Calcutta 3.

President : Kaviraj Bimalananda Tarkatirtha; *Secretary :* Swami Tripurananda ; *Treasurer :* Phani Bhusan Ghose.

VIVEKANANDA SOCIETY

21, Brindaban Bose Lane, Calcutta 6.

Office-Bearers : Swami Atmabodhananda Maharaj (*President*) ; S. K. Basu, P. Banerjee (*Jt. Hony. Secretaries*).

WEST BENGAL ADULT EDUCATION ASSOCIATION

Students Hall, College Square, Calcutta 12.

President : Dr. Kalidas Nag, D. Litt. (Paris) ; *Vice-President :* L. M. Mukherjee, M Sc. ; *General Secretary :* Rev. B. C. Mukerji, M A.

WEST BENGAL BASKETBALL ASSOCIATION

94, Chittaranjan Avenue, Calcutta 12.

Patron-in-Chief, Smt. Padmaja Naidu, Governor of West Bengal.

Office-Bearers : President, P. K. Sen, I.F., J.P. ; *Hony. Jt. Secretaries,* J. C. Dutt, P. C. Banerjee ; *Hony. Treasurer,* K. K. Rohatgi.

WEST BENGAL CLEARING AGENTS' ASSOCIATION

195, Mahatma Gandhi Road, Calcutta 7.

President : Mathuradasji ; *Vice-President :* Roopnarain Singh ; *Hon Secy.* D Tripathi.

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BUSINESS WORLD.—Incorporating Insurance World. Estd. 1931. A popular Business Monthly, 87, Stephen House, Calcutta 1. Phone: 23-4068. Annual Subscription: Inland—Rs. 6; Foreign—Rs. 7·50; Single Copy—Fifty Naye Paise, Special Number Re. 1. Editor: S. C. Roy, M.A., LL.B., J.P. Manager: D. K. Sen.

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Jalan Industries Ltd., Jalan House, 62, Ballygunge Circular Road, Calcutta 19.

James Alexander & Co., Ltd., 8, Dalhousie Square East, Calcutta 1.

James Dew & Co., 43-A, Raja Dinendra Street, Calcutta 1.

Jayer & Co., 12, Netaji Subhas Road, Calcutta 1.

Jay Shree Tea Gardens Ltd., 8, Royal Exchange Place, Calcutta 1.

Jay-Sree Supply Agency, 14-2, Old China Bazar Street, Calcutta 1.

J. B. Dastoor & Coy., 28, Grant Street, Calcutta 13.

JEENA & CO., 25, Netaji Subhas Road, Calcutta 1. Passenger Booking Agents to all Steamship, Air and Railway Lines, Tour and Travel Specialists. Shipping, Clearing and Insurance Agents, Correspondents everywhere. Telegrams: "Traveljena." Phones: 22-7738-39.

Jeetmall Jaichand Lall, 108, Old China Bazar Street, Calcutta 1.

Jenson & Nicholson (India) Ltd., Paint, Colour, Varnish and Enamel Manufacturers, 2, Fairlie Place, Calcutta 1.

Jessop & Co., Ltd., 63, Netaji Subhas Road, Calcutta 1.

Jewell Filter Co., Ltd., Water Purification Engineers, 4, Lyons Range, Calcutta 1.

Jivan, B., & Co., 97, Grey Street, Calcutta 5.

J. & J. DeChane Agency, 74A, S. N. Banerjee Road, Off (Moulali) Lower Circular Road, Calcutta 14.

Jokhiram Baijnath, Jain House, 8-1, Esplanade East, Calcutta 1.

Johnson, S. U., & Co., 1-2, Jadu Nath Mitra Lane, Calcutta 4.

Kamala Enterprises Ltd., Importers & Exporters, 113-B, Manoharda Katra, Calcutta 7.

Kamala Laundry, Art Dyers and High Class Cleaners, 2, Raja Kalikrishna Lane, Calcutta 5.

Kamalalaya Ltd., Tailors and Cloth Merchants, College Street, Market, Calcutta 12.

Kapoor Company (Agencies) India, 5 & 6, Hare Street, Calcutta 1.

Karfa & Co., 115, Netaji Subhas Road, Calcutta 7.

Karim Buksh, H., & Son, Gentlemen's Tailors and Outfitters, 18C, Park Street, Calcutta 16.

Karmoker & Co., 39A, Gokul Mittra Lane, Calcutta 3.

Karnani Metal Fabricators & Electro Depositors, 3-1, Mohon Bagan Lane, Calcutta 4.

Kartic Chandra Das Ltd., "Kartik Kutir", P66-4, Strand Bank Road, Kulpighat, Calcutta 6.

Kartic Chandra Das, Sugar Merchants, P66-4, Strand Bank Road, P.O. Beadon Street, Calcutta 6.

Kasco Metal Products, 6, Mangoe Lane, Calcutta 1.

Kasi Nath Daw & Co., 57, Netaji Subhas Road, Calcutta 7.

Kedar Nath Mullick & Sons, 147, Old China Bazar Street, Calcutta 1.

Kedarnath Poddar & Co., Stock and Share Brokers and Bankers, 7, Lyons Range, Calcutta 1.

Kellner, G. F., & Co., Ltd., 19A, Alipore Road, Delhi; and 32, Chowringhee, Calcutta 16.

Kemp & Co., Ltd., Manufacturing and Retail Chemists, 21, Old Court House Street, Calcutta 1.

Ker, C., & Co., Ltd., Importers and Dealers, 11-A, Raja Woodmunt Street, Calcutta 1.

Kesaria & Co., Exporters and Importers, 19, Amratolla Street, Calcutta 1.

Keshab Chandra Banerjee & Sons, 130, Bellilios Road, Howrah.

Khadi Pratisthan, 15, College Square, Calcutta 12

Ladakchand O. Vora, Cotton and Cotton Waste Exporters, 68-D, Netaji Subhas Road, Calcutta 1.

Laha Brothers & Co., 136, Russa Road, Calcutta 26.

Laha, R. B., & Sons, 23, Bechu Chatterjee Street, Calcutta 9.

Lahiri & Co., Homoeopathic Chemists and Druggists, 35, College Street, Calcutta 12.

Lakhiprasad Loknath & Co., 35, Chittaranjan Avenue, Calcutta 12.

Lakshmi Bottle Stores, 17, Ezra Street, Calcutta 1.

Lakshmi Home Industry, Manufacturers of Miniature Toys, 22, Bolai Singhi Lane, Calcutta.

Laterite Syndicate Ltd., High Alumina Cement Patentees in India and Abroad, 36, Chowringhee, Calcutta 16.

Lawrence & Mayo (India) Ltd., B-5, Clive Buildings, Calcutta 1.

Lee, C. H., Rooms 38-39, 67-B, Netaji Subhas Road, Calcutta 1.

Lens & Scientific Instrument Co., Ltd., 5-2, Old Court House Street, Calcutta 1.

Leonard Biermans, S. A., 13-1-A, Government Place East, Calcutta 1.

Leslie, W. (Motors), 24, Chittaranjan Avenue, Calcutta 12.

Levetus Limited, Pollock House, 18-B, Brabourne Road, Calcutta 1.

Lewis & Tylor Ltd., Belting and Hose Manufacturers, 6, Church Lane, Calcutta 1.

Lipika Ink Co. Manufacturers of all sorts of Inks, Chemists, Alambazar, Calcutta 35.

Lotus Oil Co., Manufacturers of Linseed Oil, Mowah Oil, Groundnut Oil, Cocoanut Oil, 44, Beadeon Row, Calcutta 6.

Loyal Art Press, Art and Commercial Printers, 20, Strand Road, Calcutta 1.

Macfarlane & Co., Ltd., 25, Netaji Subhas Road, Calcutta 1.

Mackenzie, Lyall & Co., 5, Mission Row, Calcutta 1.

Mackie Bros., Process Block Specialists, Engravers, Printers and Designers, 53, Bowbazar Street, Calcutta 12.

Macneill & Barry Ltd., Merchants and Agents, 2, Fairlie Place, Calcutta 1.

Macropolo, D., & Co., Ltd., 11, Old Court House, Street, Calcutta 1.

Madan & Co., 116, Bowbazar Street, Calcutta 12.

Madan Gopal Mullick, 19, Brabourne Road, Calcutta 1.

Madhavlal & Co., 11, Ezra Street, Calcutta 1.

Madhoprasad Mahabirprasad, 22, Canning Street, Calcutta 1.

Madona Paint, Colour & Varnish Works Ltd., 1/5, Prankrishna Mukherjee Road, Calcutta 2.

Mair, A. M., & Co., Ltd., Allahabad Bank Buildings, 6, Royal Exchange Place, Calcutta 1.

Majhipara Agricultural Farm, 3, Huzuri Mull Lane, Calcutta 14.

Majumdar, M. B. Ltd., 3, Chittaranjan Avenue, Calcutta 13.

Manick Lall Mullick, 3-1, New Bowbazar Lane, Calcutta 12.

Mansfield & Sons, Saw-mill Owners and Engineers, 16, Radhanath Chowdhury Road, Calcutta 15.

Mansfield Oil-Gas Co., Ltd., P-35, Ganesh Chandra Avenue, Calcutta 13.

Marine & General Suppliers' Corporation, 6-1B, Jugal Kishore Das Lane, Calcutta 6.

Maritime Supplying Agency, Engineers and Contractors, 3, Commercial Buildings, Netaji Subhas Road, Calcutta 1.

Mati Lall Atta, Seller of All Sorts of Cast Iron Goods and Hardwares, 56, Netaji Subhas Road, Calcutta 7.

Millstores Ltd., 67-B, Netaji Subhas Road, Post Box No. 2613, Calcutta.

Modern General Agencies Ltd., 4, Stephen House, 4, Dalhousie Square (East), P.O. Box 2640, Calcutta 1.

Nagendra Nath Basu Ltd., A-5, Jagannath Ghat, Calcutta 7.

Nagina Musical Products Co., Musical Dealers, 18, Mirzapur Street, Calcutta 12.

Naik & Co., 68-A, Netaji Subhas Road, Calcutta 7.

Naltram Sagarmall, Timber Importers, Stone Quarry Owners and General Merchants, 59-60, Strand Road, Calcutta 6.

Nandan Bros., 2, Chakraberia Road (South), Bhowanipur, Calcutta 25.

Nandooram Khedanlal, 30, Upper Chitpore Road, Calcutta 7.

Naran Chunder Dey, Clive Buildings (China Bazar Side), Calcutta 1. Phone No. BK. 2950.

Narandas Gopaldas, Chemical and Metal Broker, 2, Dalhousie Square East, Calcutta 1.

Natabar Paul & Co., Ltd., 19, Maharshi Debendra Road, Calcutta 7.

Natharun & Co., 36, Strand Road, Calcutta 1.

National Agencies, 120, Upper Circular Road, Calcutta 9.

NATIONAL CASH REGISTER CO., THE, 4D, Dalhousie Square East, Stephen House, Calcutta. Telephone: 23-4349. National Cash Registers, Adding and Accounting Machines. Agents for India: Addressograph and Multigraph Addressing and Duplicating Machines. Frieden Calculators. Sales Office: 5, Park Street, Calcutta 16. Telephone: 23-3154.

National Collapsible Gate Co., Manufacturers of Collapsible Gates, Grills, etc., 35, Akhil Mistry Lane, Calcutta 9.

NATIONAL FIRE & GENERAL INSURANCE CO., LTD., 7, Council House Street, Calcutta 1. Fire, Marine, Motor & Miscellaneous Insurance. Bombay Office: 204, Dr. Dadabhoy Naoroji Road. Gram: "NATINSFIRE, CAL."

National Insulated Cable Co. of India Ltd., Stephen House, 4, Dalhousie Square East, Calcutta 1.

NATIONAL IRON & STEEL CO. LTD., Stephen House, 4, Dalhousie Square, Calcutta 1; Re-Rollers, Founders, Mechanical and Metallurgical Engineers.

National Syndicate, Manufacturers and Importers, 2, Royal Exchange Place, Calcutta 1.

Nationale Handlebank, N.V., 1, Royal Exchange Place (East), Calcutta.

Natwarlal N. Daftary, Dealers in Screws, 46, Ezra Street, Calcutta 1.

New Theatres Ltd., 172, Dharamtala Street, Calcutta 13.

N. G. B. Concern Ltd., 9, Nayan Chand Dutt Street, Calcutta 6.

Ocean Accident & Guarantee Corporation Ltd., 32, Dalhousie Square, Calcutta 1.

Odhavji Devidas & Co., 9, Armenian Street, Calcutta 1.

Olpherts Ltd., 1-2, Moti Silk Street, Calcutta 13.

Olympia Sporting House, 1, Wellington Street, Bowbazar, Calcutta 12.

Omega Date-Stamp Mfg., Co., 13-D, Ghose Lane, P.O. Beadon Street, Calcutta 6.

Onkarmull Kanaillall & Co., Merchant and Banker, 18, Netaji Subhas Road, Calcutta 1.

Optics Manufacturing House, American Qualified Consulting and Dispensing Opticians, 309, Bow Bazar Street, Calcutta 12.

ORIENT EXPRESS CO. PRIVATE LTD., THE, Norton Buildings, 1 & 2 Old Court House Corner, Calcutta 1. Phones: 22-1911 & 22-1358. Grams: "OREXPRESCO." World Wide Travel Service. Authorised Agents for Airlines, Steamship Companies, Railways and Hotels. Offices in New Delhi, Calcutta and Bombay. Correspondents in 350 cities throughout the world. Managing Director: S. S. Poddar.

Orient Safe & Cabinet Manufacturing Co., Ltd., 133, Canning Street, Calcutta 1.

Orient Supply Syndicate, 2, Raja Woodmunt Street, Calcutta 1.

Panchkari Tat & Sons Ltd., 6, Meerbahar Ghat Street, Calcutta 7.

Panna Lall Seal & Co., 56-1A, Radha Bazar Street, Calcutta 1.

Pan-Orient Co., Ltd., Import and Export Merchants, 8, Waterloo Street, Calcutta 1.

Paper & Stationery Co., Paper Merchants and Importers, P-22, Radhabazar Street, Calcutta 1.

Paris Collapsible Gate Co., 2 & 3, Rifle Road (Park Circus), Calcutta 17.

Pioneer Industries, 1, Mangoe Lane, Calcutta 1.

Quaderia Pharmacy, Chemists and Druggists, 20-1A, Jannagar Road, Calcutta 14.

Queensland Insurance Co., Ltd., 16, Netaji Subhas Road (Ground Floor), Calcutta 1.

Queen Stationery Stores, 63-E, Radhabazar Street, Calcutta 1.

Quick Photo Service Co., Ltd., 157-B, Dharamtala Street, Calcutta 13.

Radio Supply Stores Ltd., 3, Dalhousie Square, Calcutta 1.

Radon House, 89, Kalighat Road, Calcutta 26.

Rae & Co., Die Stampers, Card Printers and Engravers, 5-A, Madge Lane, Calcutta 16.

Rahman, S. A., & Sons, 11, Coloutola Street, Calcutta 1.

Railway Appliances & Engineering Co., 71-A, Netaji Subhas Road, Calcutta 7.

Ramchandra Bajrangiall, 173, Harrison Road, Calcutta 7.

Reference Library, 39/4,C, Beniatola Street, Calcutta 5. Importers, Booksellers and order Suppliers.

REFRIGE PRIVATE LIMITED, 58C, Chowringhee Road, Calcutta 16. Refrigerating & Air-conditioning Engineers. Distributors for Hallmark Machinery Manufactured by J. & E. Hall Ltd. of Dartford, England.

Sadasukh Kabra & Co., 2, Royal Exchange Place, Calcutta 1.

Saha, R. N. & Co., 26, Gouribari Lane, Calcutta 4.

Satal Engineering Works, 16, British Indian Street, Calcutta 1.

Saxby & Farmer (India) Ltd., 17, Convent Road, Entally, Calcutta 14.

S. B. Trading Co., 2, Manook's Lane, Calcutta 1.

Spence Limited, P-38, Mission Row Extension, Calcutta 13.

Standard General Assurance Co. Ltd., The, 9, Brabourne Road, Calcutta.

Standard Metal Co., Perforated Metals & Woven Wire, 101, Netaji Subhas Road, Calcutta 1.

Taparia & Co., Dealers in Ball and Roller Bearings, 137, Canning Street, Calcutta 1.

Tarachand Gupta & Co., 131, Cotton Street, Calcutta 7.

Tarachand Pursram, 7-1C, Lindsay Street, (4th Floor), Calcutta 16.

Tata Iron & Steel Co., Ltd., Manufacturers of Iron and Steel, 23-B, Netaji Subhas Road, Calcutta 1.

Tecalemit (India) Ltd., 31, Chittaranjan Avenue, Calcutta.

Uberoi Limited, Manufacturers of Athletic Goods, 22-1, Chowringhee Road, Calcutta 13.

U. N. Co., Ophthalmic Opticians, 80, Harrison Road, Calcutta 9.

Union Insurance Society of Canton Ltd.—Branch Office: B2, Clive Buildings, 8, Netaji Subhas Road, Calcutta.

Union Metal Industries Ltd., Brass Electric Lampholders, Connectors, Aerial Fuses, 2, Clive Ghat Street, Calcutta 1.

Union Oil Distributing Co. (India), Room No. 15, 22, Canning Street, Calcutta 1.

Union Plywood Ltd., 1, Commercial Buildings, Calcutta 1.

Universal Radio Co., 3/2, Madan Street, Calcutta-13.

Varat Plywood, Plywood Sheet Manufacturers, 67-B, Netaji Subhas Road, Calcutta 1.

Variety Trading Co., Hardwares, Metal Merchants, 221-2, Strand Bank Road, Calcutta 1.

Varma, M. L. & Co., 4-1, Revd. Kali Banerji Row, Calcutta 6.

Vax Institute Laboratory Ltd., 13, Daspara Road, P.O. Ultadanga, Calcutta 4.

Wakefield, C. C. & Co., Ltd., 7, Royal Exchange Place, Calcutta 1.

Wan Hsing Trading Co., Windsor House, Room No. 19, P-14, Mission Row Extension, Calcutta-1.

Waverley Pharmacy, 128, Dharamtala Street, Calcutta 13.

Wearwell & Co., Leading House for High Class Footwear, 1, New Market, Calcutta 13.

William Jacks & Co., Ltd., Engineers and General Merchants, 16, Netaji Subhas Road, Calcutta 1.

Xanthic Industries, Paints and Varnish Manufacturers, 14, Subhas Nagore Road, Calcutta 28.

Yaqooball Moosajee & Co., Importers and Exporters, 67-A, Netaji Subhas Road, Calcutta 1.

Yogendra Brothers, 24, Netaji Subhas Road, Calcutta 1.

Young & Co., 44, Chittaranjan Avenue, South, Calcutta 12.

Young Graduate & Co., 126-C, Dharamtala Street, Calcutta 13.

Young India Typewriter Co., 253, Upper Chitpur Road, Calcutta 3.

Zenith Assurance Co., Ltd., Norton Buildings, 2, Old Court House Corner, Calcutta 1.

Zenith Ink & Gum Products Co., 29, Madan Mitter Lane, Calcutta 6.

Zenith Radio & Electric Stores, Electrical Importers and Dealers, 25, Ezra Street, Calcutta 1.

Zenith Wire-Netting Works, 113, Netaji Subhas Road, Calcutta 7.

Ziffo & Co., Freight Brokers, 5, Garstin Place, Hare Street, Calcutta 1.

CLASSIFIED LIST OF TRADES AND PROFESSIONS

AGRICULTURAL MACHINERY & IMPLEMENTS

Associated Aesby Industries Ltd.—22, Strand Road, Calcutta 1.
Bengal Iron & Steel Works.—3, Canning Street, Calcutta 1.
Great Eastern Cutlery Works.—2A-2B, Chetal Road, Tollygunge, Calcutta 33.
Guchait, S. P. & Sons Ltd.—2, Madhusudan Paul Chowdhury Lane, Howrah.
Howrah Foundry Works Ltd.—53-3, Ashu Bose Lane, Off Belilios Road, Howrah.
Jayems Engineering Co.—22, Brabourne Road, Calcutta. Phone: Bank 6711.
Leslie, W. & Co.—B-3, Clive Buildings, Calcutta 1.
MARSHALL SONS & CO. (INDIA) LTD.—33/1, Netaji Subhas Road (P.O. Box No. 22), Calcutta. Phone: 22-4844 (3 lines). Grams: "ENGINE."
Spence Ltd.—P-38, Mission Row Extension, Calcutta 13.

AGRICULTURAL REQUISITES

Jayems Engineering Co.—22, Brabourne Road, Calcutta. Phone: Bank 6711.
Tecalemit (India) Ltd.—31, Chittaranjan Avenue, Calcutta. Phone: City 5050. Grams: "TECALEMIT."

AIR COMPRESSORS

Delhi Garage Ltd.—Gandhi House, P-34, Mission Row Extension, Calcutta.
Jayems Engineering Co.—22, Brabourne Road, Calcutta. Phone: Bank 6711.
Spence Ltd.—P-38, Mission Row Extension, Calcutta 13.
Tecalemit (India) Ltd.—31, Chittaranjan Avenue, Calcutta. Phone: City 5050. Grams: "TECALEMIT."

ALUMINIUM MANUFACTURERS

A. G. Bros. & Co.—2, Neogipara Road, Calcutta 36.
Aluminium Corporation of India Ltd.—7, Council House Street, Calcutta 1.
Aluminium Manufacturing Co., Ltd.—56, Free School Street, Calcutta 16.
Ashoka Aluminium Products.—72-73, Old China Bazar Street, Calcutta 1.
Indian Aluminium Co., Ltd.—31, Chowringhee Road, Calcutta 16.
JEEWANLAL (1929) LTD.—31, Netaji Subhas Road, Calcutta 1. Manufacturers of Crown Brand Aluminium utensils; exporters to Persian Gulf, Red Sea and East African Ports.

AROMATIC CHEMICALS & ESSENTIAL OIL MANUFACTURERS

Banga Laxmi Chemical Works.—11, Clive Row, Calcutta 1.
Calcutta Chemical Co., Ltd.—35, Panditia Road, R. B. Avenue, Calcutta 29.
Eastern Drug Co., Ltd.—4, Moyapore Road, Calcutta 27.
Ghose Bros. (Perfumers).—50, Ezra Street, Calcutta 1.
Hindustan Gas Co., Ltd.—8, Royal Exchange Place, Calcutta 1.
Premier Stores Supplying Co., Ltd.—8, Royal Exchange Place, Calcutta 1.
Pt. Debi Pershand Prayag Dutt Ltd.—89, Lower Chitpur Road, Calcutta 7.

AUTOMOBILE PARTS AND ACCESSORIES

Jayems Engineering Co.—22, Brabourne Road, Calcutta. Phone: Bank 6711.
Spence Ltd.—P-38, Mission Row Extension, Calcutta 13.
Tecalemit (India) Ltd.—31, Chittaranjan Avenue, Calcutta. Phone: City 5050. Grams: "TECALEMIT."

BATTERY MANUFACTURERS

Associated Motor & Electrical Works.—87-1, Dr. Abani Dutt Road, Howrah.
Bharat Battery Manufacturing Co., Ltd.—P-1-A, Rashbehari Avenue, Calcutta 19.
Caesar Engineering & Accumulator Co.—6, Brambon Pura Lane, Calcutta 6.
Chloride & Exide Batteries (Eastern) Ltd.—4, Lyons Range, Calcutta 1.
Eastern Accumulator Co.—3-1, Mangoe Lane, Calcutta 1.
Eastern Electro-Chemical Co.—112, Narkeldanga Main Road, Calcutta 1.
Electrical Storage Co., Ltd.—112, Narkeldanga Main Road, Calcutta 11.
Free India Dry Accumulators Ltd.—2, Doyehatta Street, Calcutta 7.
Hard Storage Battery Co.—13-28, Russa Road, Calcutta 26.
Hindusthan Battery Manufacturing Co.—167, Old China Bazar Street, Bhola Nath Building, 2nd floor, Calcutta 1.
Spence Ltd.—P-38, Mission Row Extension, Calcutta 13.

BELTING (TEXTILE) MFRS. AND SUPPLIERS

Bengal Belting Works Ltd.—2, Dalhousie Square, East, Calcutta 1.
Brand, S. B., & Co.—80, Pathuriaghat Street, Calcutta 6.
Chowdhury Belting Works.—2, College Square, Calcutta 12.
Lewis & Tylor (India) Ltd.—6, Church Lane, Calcutta.
Zenith Stores & Agency Co.—19, Strand Road, Calcutta 1.

BISCUIT AND CONFECTIONERY MANUFACTURERS

Arizona.—2, Lindsay Street, Calcutta 16.
Aryan Bakery.—53, Kali Temple Road, Calcutta 26.
Bengal Confectionery Works.—99-3, Canning Street, Calcutta 1.
Britannia Biscuit Co., Ltd.—5-1, Mangoe Lane, Calcutta 1.
Calcutta Crown Biscuit Co.—99-3, Canning Street, Calcutta 1.
East Indian Bakery.—106, Lansdowne Road, Calcutta 29.
Empire Confectionery Co.—157-A, Dharamtala Street, Calcutta 13.
Ferrazzini's Ltd.—Humayan Court, 21, Lindsay Street, Calcutta 16.
Flurry's Swiss Confectionery Ltd.—13-A, Park Street, Calcutta 16.
G. S. Emporium Ltd.—47-A, Chittaranjan Avenue, Calcutta 12.

BOBBIN AND SPOOL MANUFACTURERS

Associated Timber Products Ltd.—Stephen House, Dalhousie Square, Calcutta 1.
Bengal Bobbin & Plywood Co., Ltd.—44-46, Canning Street, Calcutta 1.
Dey Wood Iron & Steel Works.—36, Strand Road, Calcutta 1.
General Stores Supplying Co.—137, Canning Street, Calcutta 1.
General Supply Syndicate.—12, Raja Woodmunt Street, Calcutta 1.
Greenway & Co.—3, Mangoe Lane, Calcutta 1.
National Industrial Works.—135, Canning Street, Calcutta 1.
S. K. Woodproducts Co.—86-2, Bahir Surah Road, Calcutta 10.
Standard Wood Works.—200, Maniktalla Main Road, Calcutta 11.
Wood Crafts Products.—8, Royal Exchange Place, Calcutta 1.

BOILERS

MARSHALL, SONS & CO. (INDIA) LTD.—33/1, Netaji Subhas Road (P. O. Box No. 22), Calcutta. Phone: 22-4844 (3 lines). Grams: "ENGINE."

BOLT, NUT & RIVET MANUFACTURERS

Adarsen & Co.—36, Strand Road, Calcutta 1.
Alliance Engineering Works.—Santragachi, Howrah.
Ashly & Co.—28, Strand Road, Calcutta 1.

BOOKSELLERS, PRINTERS AND PUBLISHERS

C. RINGER & CO.—Homoeopathic Chemists, Booksellers and Publishers, 23, Lall Bazar Street, Calcutta 1. Phone: 22-4147. Grams: "RINGERCOY." Business running 78 years.
Jaico Publishing House.—35, Chittaranjan Avenue, Calcutta. Grams: "POCKETBOOK."
Reference Library.—39/4C, Beniatola Street, Calcutta 5, India.
W. Newman & Co., Ltd.—3, Old Court House Street, Calcutta. Publishers of 'INDIAN BRADSHAW'.

BOTTLE CAP AND CAPSULE MANUFACTURERS

British Merchandise Co.—137, Canning Street, Calcutta 1.
Chemical Association (Calcutta) Ltd.—55, Canning Street, Calcutta 1.
Crown Cork Mfg. Co. (Calcutta).—1, Umakanto, "Swastika" Lane, Calcutta 20.
Dutt, R. S. & Bros.—2, Ezra Street, Calcutta 1.
Nundy, P. & Sons.—89, Ratan Babu Road, Calcutta 2.
Paul, K. B. & Co.—Maniktolla Bazar Lane, Calcutta 6.

BRUSH FACTORIES

Bengal Brush Factory.—20, Serpentine Lane, Calcutta 14.
Bepin Pal Sons & Co.—174-A, Dharamtala Street, Calcutta 13.
Britannia Brush Works.—123-124, Canning Street, Calcutta 1.
Caledonian Brush Works.—137, Canning Street, Calcutta 1.
Champatola Brush Factory.—18, Amherst Street, Calcutta 9.
Climax Brush Works.—64-A, Mirzapur Street, P.O. Amherst Street, Calcutta 9.
Cornwallis Brush Factory.—15, Ghosh Lane, Calcutta 6.
Crown Brush Factory.—132, Old China Bazar Street, Calcutta 1.
Dutt, S. K.—20, Strand Road, Calcutta 1.
Ghosh, B. C. & Bros.—44, Old China Bazar Street, Calcutta 1.

BUTTON AND COMB MANUFACTURERS

Dacca Button Works.—16, Windsor House, Mission Row Extension, Calcutta 1.
Jamnadas Ramkissendas.—42, Sir Hariram Goenka Street, Calcutta 7.
Smith, J. & Co.—185-6, Gopal Lall Thakur Road, Calcutta 35.

CABLES & WIRE MFRS.

ASSOCIATED ELECTRICAL INDUSTRIES (INDIA) PRIVATE LTD.—Crown House, 6, Mission Row, Calcutta 1. (See Commercial firms in Calcutta).

CANNING AND CONDIMENT WORKS

Bengal Collective Industries & Farm Ltd.—56, Huzurimal Lane, Calcutta 14.
Bhai Wadhawa Singh & Sons Ltd.—H.O.: 4, Stephens House, 4, Dalhousie Square East, Calcutta 1.
Daw, Sen & Co. Ltd.—29, Dr. Suresh Sarkar Road, Entally, Calcutta 14.
Farm & Fruit Products Ltd.—71-A, Chakrabere Road North, Calcutta 20.
Farmer's Industries—3, Huzurimull Lane, Calcutta 14.
Great Eastern Preserving Works.—18, Blochmann Street, Calcutta 13.

CANVAS AND PAULIN MANUFACTURERS

Harley, F. & Co.—5, Dehi Serampore Road, Entally, Calcutta 14.
India Waterproofing & Dyeing Works.—60-2, Dharamtala Street, Calcutta 13.
Manton & Martin.—70, Netaji Subhas Road, Calcutta 1.
Shew Prosad Bishnu Prosad.—11, Dinu Rakhit Lane, P.O. Hatkhola, Calcutta 5.
Soobashah, A. S. & Bros.—83, Netaji Subhas Road, Calcutta 1.

CARD BOARD BOX MANUFACTURERS

Antool, S. & Co. Ltd.—91, Upper Circular Road, Calcutta 9.
Artacademy.—3, Noormul Lohia Lane, Barrabazar, Calcutta 7.
Bengal Box Mfg. Co.—1 & 4, Raj Coomer Chatterjee Road, Cossipur, Calcutta 2.
Bengal Card Board Box Co.—14, Amherst Street, Calcutta 9.
Bengal Card Board Box Factory.—3-B, Noormal Lohia Lane, Calcutta 7.

CARPET MANUFACTORIES

Birla Jute Manufacturing Co., Ltd.—8, Royal Exchange Place, Calcutta 1.
Cosmo Trading Co.—98, Netaji Subhas Road, Calcutta 1.
Indian Carpet Corporation.—30, Central Avenue, Calcutta 12.
Shroffs Carpets.—12, Chowringhee Road, Calcutta 13.

CHAMOIS LEATHER MANUFACTURERS

Hindustan Tannery.—Windsor House, P-14, Bentinck Street, Calcutta 1.
National Tannery Co., Ltd.—Canal South Road, Pagladanga, P.O. Tangra, Calcutta 15.

CHEMICAL AND PHARMACEUTICAL PRODUCT MANUFACTURERS

Adeco Ltd.—20-3-A, Chetla Central Road, Calcutta 27. Manufacturers of Raw & Finished Pharmaceutical Products.
ALBERT DAVID LTD.—Manufacturers of Raw & Finished Pharmaceutical Products, 15, Chittaranjan Avenue, Calcutta-13. Telegrams: 'REMIT', Calcutta. Branches: Bombay, Madras, Nagpur, Vijayawada, Delhi, Gauhati, Srinagar.
Allied Drug Industries Ltd.—8, Mission Row, Calcutta 1.
Arrow Co.—10-1, Bipradas Street, P.O. Amherst Street, Calcutta 9.
Aryan Drug House Ltd.—28, Kali Kumar Banerjee Lane, Calcutta 2.

CHEMICAL MANUFACTURERS

Albert David Ltd.—15, Chittaranjan Avenue, Calcutta 13.
Alkali & Chemical Corporation of India Ltd.—I.C.I. House, 34, Chowringhee, Calcutta 16.
Asiatic Oxygen & Acetylene Co. Ltd.—8, Dalhousie Square, Calcutta 1.
Bararee Coke Co. Ltd.—4, Clive Row, Calcutta 1.
Bathgate Co. Ltd.—17-19, Old Court House Street, Calcutta 1.
Bengal Chemical & Pharmaceutical Works Ltd.—6, Ganesh Chandra Avenue, Calcutta 13.
Bengal Immunity Co. Ltd.—153, Dharamtolla Street, Calcutta 13.
Birla Jute Mfg. Co. Ltd.—Calcium Carbide Dept., 8, Indian Exchange Place, Calcutta 1.
Birla Laboratories.—2, Beerpara Lane, Calcutta 30.
Burma Lime & Chemical Co. Ltd.—5, Clive Ghat Street, Calcutta 1.
Calcutta Chemical Co. Ltd.—35, Panditia Road, Calcutta 29.
Calcutta Industrial Chemicals & Minerals Co. Ltd.—43, Dharamtolla Street, Calcutta 13.
Dabur (Dr. S. K. Burman) Ltd.—142, Bash Bahari Avenue, Calcutta 29.
East India Pharmaceutical Works Ltd.—Basusree Bldgs., 11/1/4, Dr. Shayama Prasad Mukerjee Road, Calcutta 26.
Hindustan Heavy Chemicals Ltd.—Hindusthan Bldgs., 4, Chittaranjan Avenue, Calcutta 13.
Indian Chemical & Therapeutical Works Ltd.—68, Barrackpore Trunk Road, Calcutta 2.
Indian Health Institute & Laboratory Ltd.—1, Garandanga Road, Dum Dum Cantt., Calcutta 28.
Indian Medical Supply Laboratory Ltd.—5, Indian Exchange Place, Calcutta 1.
Industrial Gases Ltd.—138, Canning Street, Calcutta 1.
National Carbon Co. (India) Ltd.—Industrial Products Division, P-17, Mission Row Extension, Calcutta.
Phosphate Co. Ltd.—14, Netaji Subhas Road, Calcutta 1.
Shalimar Tar Products (1935) Ltd.—6, Lyons Range, Calcutta 1.
Shaw Wallace & Co.—Fertilizers Department, 4, Bankshall Street, Calcutta 1.
Sirsilk Ltd.—8, Indian Exchange Place, Calcutta 1.
Smith Stanistreet & Co. Ltd.—18, Convent Road, Calcutta 14.
Standard Pharmaceutical Works Ltd.—67, Dr. Suresh Sarkar Road, Calcutta 14.
Union Drug Co. Ltd.—285, Bow Bazar Street, Calcutta 1.

CHEMICAL PLANT & MACHINERY MANUFACTURERS

C. S. A. (Mfg.) Co.—Porul Road, Behala, Calcutta 34.
Chemical Industries & Eng. Co.—2-1, Barrackpore Trunk Road, P. O. Barnagore, Calcutta.

CHEMISTS (IMPORTERS AND STOCKISTS)

C. RINGER & CO.—Homoeopathic Chemists, Booksellers and Publishers, 23, Lall Bazar Street, Calcutta 1. Phone: 22-4747. Grams: "RINGERCOY." Business running 78 years.

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Ashok Exporters & Importers —4, Bhawani Dutta Lane, Calcutta.
B. R. Hermon & Mohatta (India) Ltd.—19, British Indian Street, Calcutta.
Bejaya Glass Depot.—4, Jackson Lane, Calcutta.
Bengal Corporation Ltd.—14, Netaji Subhas Road, Calcutta.
Bengal Mineral Supply Co.—71-A, Netaji Subhas Road, Calcutta.
Bharat Export & Import Co.—6, Karballa Mohammed Street, Calcutta.
Bhimsain Sundersain.—14, Amratolla Street, Calcutta.
Bhuta & Co.—8-B, Amratolla Street, Calcutta.
C. A. Mohammad.—26, Brabourne Road, Calcutta.
C. D. Thakkar & Co.—22, Brabourne Road, Calcutta.
Calcutta Traders Co.—28, Amratolla Street, Calcutta.
Chemical & Commercial Industry.—39A, Armenian Street, Calcutta.
Chemical Importers & Distributors Private Ltd.—21,22, Radha Bazar Street, Calcutta.
Chemical & Solvents Ltd.—27/29, Brabourne Road, Calcutta.
Chemical Trading Co.—72, Canning Street, Calcutta.
Chunilal Radheshyam.—22, Amratolla Street, Calcutta.
Dass & Co. (India) Ltd.—43, Dharamtolla Street, Calcutta.
Eagle Brothers.—32, Armenian Street, Calcutta.
Ghasiram Laxminarayan.—15, Portuguese Church Street, Calcutta.
Harkisondas & Co.—9, Amratolla Street, Calcutta.
Hindusthan Chemical & Industry Corporation.—22, Swallow Lane, Calcutta.
Indo-European Agency Ltd.—67, Ezra Street, Calcutta.
Industrial Importer Ltd.—Room No. 49, 4, Dalhousie Square East, Calcutta.
Ivan Jones Ltd.—18B, Brabourne Road, Calcutta.
Jackaria Cosman & Co.—4, Rajmohan Street, Calcutta 7.
Jagannath Bajrangiall.—32, Armenian Street, Calcutta.
Jagannath Jeetmal.—37, Armenian Street, Calcutta.
Jagdishprasad Pannalal & Co. Ltd.—27, Amratolla Street, Calcutta.
Jainarayan Nagarmall.—19, Mallick Street, Calcutta.
Jankidas Shankerlall.—27, Mohanlall Street, Syambazar, Calcutta.
Jankidass Ramgopal.—48, Canning Street, Calcutta.

Kajaria Sons Ltd.—32, Armenian Street, Calcutta.
Kanji Savaji Parekh.—55, Canning Street, Calcutta.
Khandelwal Bros. Private.—33, Netaji Subhas Road, Calcutta.
Khaitan Brothers Private Ltd.—24, Netaji Subhas Road, Calcutta.
Khaitan Sons & Co.—2, Dalhousie Square East, Calcutta.
Khubchand Baijnath.—77, Netaji Subhas Road, Calcutta.
Krishanlal Purushotamdas.—32, Ezra Street, Calcutta.
Lachhminarayan Ramjiwan.—13, Portuguese Church Street, Calcutta.
Mahabir Prasad Sita Ram.—15, Shcaram Bysack Street, Calcutta.
Merchants & Traders Ltd.—32, Armenian Street, Calcutta.
Moda Brothers.—15, Sovaram Bysack Street, Calcutta 7.
Mohamed Ebrahim Mohamed Jaffer & Co.—16, Amratolla Lane, Calcutta.
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Mohatta Brothers.—19, British Indian Street, Calcutta.
N. N. Biswas & Sons.—19, British Indian Street, Calcutta.
Narsingdas Biswanath.—3, Amratolla Street, Calcutta.
Narayandas Parmanandas.—37, Armenian Street, Calcutta.
Odhavji Devidas & Co. (P) Ltd.—9, Armenian Street, Calcutta.
Oswal Company Private Ltd.—14,2, Old China Bazar Street, Calcutta 1.
Pannalall Kishanlall.—18, Amratolla Street, Calcutta.
Pioneer Chemical Corpn.—19, Ganesh Chandra Avenue, Calcutta.
Pokarmal Gurdayal.—208, Cross Street, Calcutta.
Rajkumar (India) Private Ltd.—33, Netaji Subhas Road, Calcutta.
S. Kushalchand & Co.—167, Old China Bazar Street, Calcutta.
Shamdeo Govindram.—208, Cross Street, Calcutta.
Shewbuxral Onkarmall.—26, Burtolla Street, Calcutta.
Shewbuxrai Rameshwarlal.—26, Burtolla Street, Calcutta.
Soorajmull Nagarmull.—8, Dalhousie Square East, Calcutta.
Surajmull Muridhar.—28, Amratolla Street, Calcutta.
United Chemical & Hardware Agency.—27,29, Brabourne Road, Calcutta.
Universal Trading Co.—71, Canning Street, Calcutta.
Vachharaj Nemchand & Co.—10, Portuguese Church Street, Calcutta.
Vasant Corporation Ltd.—28, Amratolla Street, Calcutta.
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Banga Sri Cotton Mills Ltd.—Post Sukchar, Sodepur, 24 Prgs.
Bangeswari Cotton Mills Ltd.—48, Radhabazar Street, Calcutta.
Bangodaya Cotton Mills Ltd.—176, Cross Street, Calcutta 7.
Basanti Cotton Mills Ltd.—24, Netaji Subhas Road, Calcutta 1.
Bengal Cotton Mills Ltd.—174B, Cross Street, Calcutta.
Bengal Fine Spg. & Wvg. Mills Ltd.—7, Bowbazar Street, Calcutta 12.
Bengal Luxmi Cotton Mills Ltd.—7, Chowringhee Road, Calcutta 13.
Bhagyalaxmi Cotton Mills Ltd.—1A, S. N. Banerji Road, Calcutta.
Bowreah Cotton Mills Co. Ltd.—21, Strand Road, Calcutta 1.
Calcutta Silk Mfg. Co. Ltd.—37, Vivekananda Road, Calcutta 7.
Calcutta Woollen & Silk Mills Ltd.—Kumarjara, Lillooah, Howrah.
Central Cotton Mills Ltd.—9, Brabourne Road, Calcutta.
Chittaranjan Cotton Mills Ltd.—8, Netaji Subhas Road, Calcutta 1.
Dhakeswari Cotton Mills Ltd.—Kanak Buildings, 41, Chowringhee Road, Calcutta 16.
Dunbar Mills Ltd.—21, Strand Road, Calcutta 1.
East India Corporation Ltd.—18, Netaji Subhas Road, Calcutta 1.
Hindusthan Cotton Mills Ltd.—5, Clive Row, Calcutta 1.
Howrah Cotton Mills Ltd.—P-11, New Howrah Bridge, App. Road, Calcutta 1.
Jay Shree Textiles Ltd.—Rishra, Hooghly.
Jyoti Weaving Factory.—P-11, New Howrah Bridge App. Road, Calcutta 1.
Kanoria Industries Ltd.—59, Netaji Subhas Road, Calcutta 1.
Kesoram Cotton Mills Ltd.—42, Garden Reach Road, Calcutta 24.
Kesoram Cotton Mills Ltd.—8, India Exchange Place, Calcutta 1.
Luxminarayan Cotton Mills Ltd.—4B, Garstin Place, Calcutta 1.
Mahalaxmi Cotton Mills Ltd.—135, Canning Street, Calcutta 1.
Manindra Mills Ltd.—P-49, B. K. Paul Avenue, Calcutta 5.
Mohini Mills Ltd.—22, Canning Street, Calcutta 1.
Onkar Industries (P) Ltd.—18, Netaji Subhas Road, Calcutta 1.
Oriental Cotton Cultivation & Mills Ltd.—2, Waterloo Street, Calcutta 1.
Orissa Cotton Mills Ltd.—P-7, Mission Row Extn., Calcutta
Orissa Textile Mills Ltd.—33, Chittaranjan Avenue, Calcutta 12.
Pioneer Knitting Mills Ltd.—6,1A, Prannath Soor Lane, B.T. Road, Calcutta 2.
Rampooria Cotton Mills Ltd.—147, Cotton Street, Calcutta 7.
Rampooria Cotton Mills Ltd.—Serampore, Hooghly.
Shree Luchminarain Jute Mfg. Co. Ltd.—59, Netaji Subhas Road, Calcutta 1.
Siddheswari Cotton Mills.—58, Clive Street, Calcutta 7.
Sri Annapurna Cotton Mills Ltd.—P-10, New Howrah Bridge App Road, Calcutta 1.
Sri Durga Cotton Spg. & Wvg. Mills Ltd. —135, Canning Street, Calcutta 1.
Swadeshi Industries Ltd.—33, Netaji Subhas Road, Calcutta 1.
Vidyasagar Cotton Mills Ltd.—11, Colootolla Street, Calcutta 1.

COTTON-WASTE MANUFACTURERS

Khan Industries Ltd.—14, Hare Street, Calcutta 1.
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Textile Waste Co.—113-C, Netaji Subhas Road, Calcutta 1.

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Indian Cutlery Manufacturing Co., Ltd.—A-3, Clive Buildings, Netaji Subhas Road, Calcutta 1.

CYCLE MANUFACTURERS

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F. & C. Osler (India) Ltd.—12, Old Court House Street, Calcutta.
Spence Ltd.—P-38, Mission Row Extension, Calcutta 13.

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ASSOCIATED ELECTRICAL INDUSTRIES (INDIA) PRIVATE LTD.—Crown House, 6, Mission Row, Calcutta 1. (See Commercial firms in Calcutta).

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ASSOCIATED ELECTRICAL INDUSTRIES (INDIA) PRIVATE LTD.—Crown House, 6, Mission Row, Calcutta 1. (See Commercial firms in Calcutta).

ELECTRICAL GOODS & APPLIANCES

Allied Iron & Steel Co., Ltd.—12, Dalhousie Square East, Calcutta 1.
Argentiferrous Metal Processing Co.—119-B, Harrison Road, Calcutta 7.
ASSOCIATED ELECTRICAL INDUSTRIES (INDIA) PRIVATE LTD.—Crown House, 6, Mission Row, Calcutta 1. (See Commercial firms in Calcutta).
Asia Electric Lamp Co., Ltd.—45, Durga Charan Mukherji Street, Calcutta 3.
Bengal Electric Lamp Works Ltd.—190-C, Rash Behari Avenue, Calcutta 29.
Calcutta Fan Works Ltd.—'Leslie' House, 19B, Chowringhee Road, Calcutta 13. Phone: 23-3552.
Champion Neon Signs.—16, British Indian Street, Calcutta 1.
Globe Electric & Trading Co.—54, Ezra Street, Calcutta.
Modern General Agencies Ltd.—4, Stephens House, 4, Dalhousie Square East, Calcutta 1.
National Cable Works Ltd.—12, Dalhousie Square East, Calcutta 1.

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ELECTRICITY SUPPLY WORKS

Associated Power Co., Ltd.—8, Clive Row, Calcutta 1.
Calcutta Electric Supply Corporation Ltd.—Victoria House, Chowringhee Square, Calcutta 1.
Dishergarh Power Supply Co., Ltd.—8, Clive Row, Calcutta 1.
Jalpaiguri Electric Supply Co., Ltd.—2, Church Lane, Calcutta 1.
Kurseong Hydro-Electric Supply Co., Ltd.—12, Netaji Subhas Road, Calcutta 1.

ELECTRODES

ASSOCIATED ELECTRICAL INDUSTRIES (INDIA) PRIVATE LTD.—Crown House, 6, Mission Row, Calcutta 1. (See Commercial firms in Calcutta).

ELECTROPLATED WARE & BRASSWARE MANUFACTURERS

Calcutta Metal Store.—62, Netaji Subhas Road, Burra Bazar, Calcutta 7.
Indian Brassware Store.—P-37B, Kalakar Street, Calcutta 7.
Metal House.—59-1, Cotton Street, Burra Bazar, Calcutta 7
Nath's Brassware Factory.—8-2, Hospital Street, Calcutta 13.

ENGINEERING STORES

Calcutta Small Tools Co., The.—30, Strand Road, Calcutta.
INDUSTRIAL TOOLS & MILLSTORES CO.—67-B, Netaji Subhas Road, Calcutta 1. Dealers in Engineering Tools.
Spence Ltd.—P-38, Mission Row Extension, Calcutta 13.

ENGINEERS & CONTRACTORS

Agarwal Hardware Works Ltd.—167, Chittaranjan Avenue, Calcutta.
Air Conditioning Corporation Private Ltd.—E-2, Clive Buildings, 8, Netaji Subhas Road, Calcutta.
ASSOCIATED ELECTRICAL INDUSTRIES (INDIA) PRIVATE LTD.—Crown House, 6, Mission Row, Calcutta 1. (See Commercial firms in Calcutta).
Atta's Iron Foundry.—171, Grand Trunk Road (IV), Salkia, Howrah.
B. R. Hermon & Mohatta (India) Private Ltd.—19, British Indian Street, Calcutta 1.
Bagri Iron & Steel Co.—10/A, Shibtolla Street, Calcutta.
Balgopaldas Iron & Steel Co. Ltd.—19, British Indian Street, Calcutta.
Bengal Electric Lamp Works Ltd.—7, Old Court House Street, Calcutta.
Bengal Rolling Mills Ltd.—86 B, Netaji Subhas Road, Calcutta.
Beni Engineering Works.—1, Crooked Lane, Calcutta.
Bhartia Commercial Co., Ltd. P-23,24, Radha Bazar Street, Calcutta.
Bhartia Electric Steel Co. Ltd.—42, Shibtolla Street, Caloutta.
Bharat Electrical Industries Ltd.—6-A, S. N. Banerji Road, Calcutta 13.
Bihar Firebricks & Potteries Ltd.—22, Strand Road, Calcutta.
Binani Metal Works Ltd.—38, Strand Road, Calcutta.
Birkmyre Bros., Ltd.—87, Stephen House, 4, Dalhousie Square East, Calcutta.
Blue Star Enamel Co., (Private) Ltd.—49, Stephen House, 4, Dalhousie Square St, Calcutta.
C. Comens & Sons Ltd.—103/3, Diamond Harbour Road, Calcutta 38.
Calcutta Expanded Metal Mfg. Co. Ltd.—P-16, Kalakar Street, Calcutta.
D. K Das & Co. Ltd.—233, Belilios Road, Howrah.
Development of Metal Industries Ltd.—72-1, Lansdowne Road, Calcutta.
Electrical Construction & Equipment Co. Ltd.—85, Chittaranjan Avenue, Calcutta
Electrical Mfg. Co. Ltd.—P.B. No. 800, Calcutta 1.
Engineering Works of India Ltd.—20, Ultadanga Road, Calcutta.
F. N. Gooptu & Co.—12, Beliaghate Road, Calcutta.
Goodman & Co. (India) Ltd.—38, Netaji Subhas Road, Calcutta.
Harbanslal Malhotra & Sons Ltd.—18, Netaji Subhas Road, Calcutta.
Hind Constructions Ltd.—8, Royal Exchange Place, Calcutta.
Hind Tin Industries.—6, Jamnalal Mullick Road, Calcutta 6.
Hind Wire Industries Ltd.—India Exchange (3rd Floor), Calcutta 1.
Hindustan General Electric Corporation Ltd.—5, Royal Exchange Place, Calcutta.
Hindustan Motors Ltd.—8, Royal Exchange Place, Calcutta 1.
Hindustan Wire & Metal Products Ltd.—67 74, Stephen House, 4, Dalhousie Square East, Calcutta
Howrah Trading Co. Ltd.—8, Dalhousie Square East, Calcutta.
India Cycle Mfg. Co. Ltd.—4, Clive Ghat Street, Calcutta.
India Industrial Works Ltd.—Dharamtolla Road, Mallpanchghora, Howrah.
India Machinery Co. Ltd.—29, Strand Road, Calcutta 1.
Indian Malleable Castings Ltd.—4, Lyons Range, Calcutta 1.
Indian Tube Co (1953) Ltd.—41, Chowringhee Road, Calcutta.
James Alexander & Co. Ltd.—8, Dalhousie Square East, Calcutta 1.
Jeewanlal (1929) Ltd.—31, Netaji Subhas Road, Calcutta 1.
Krishnalal Thirani & Co Ltd.—8, Royal Exchange Place, Calcutta.
Kushumika Iron Works Ltd.—3, Maharshi Debendra Road, Calcutta.
Lotus Industries Ltd.—32, Armenian Street, Calcutta.
M. C. Merojee & Co.—46, Ezra Street, Calcutta 1.
M. G. R. Iron & Steel Works.—P-16, Kalekar Street, Calcutta 7.
Maya Galvanising Works.—Upper Chitpore Road, Calcutta 7.
Mechanical Engineering Co. Private Ltd.—Wardley House, 25, Swallow Lane, Calcutta.
Nathanal Girdharilal.—22, Burtolla Street, Calcutta.
National Insulated Cable Co. of India Ltd.—Stephen House, 4, Dalhousie Square East, Calcutta 1.
National Metal Industries Ltd.—23-B, Netaji Subhas Road, Calcutta 1.
National Pipes & Tubes Co. Ltd.—67, Stephen House, 4, Dalhousie Square East, Calcutta 1.
National Screw & Wire Products Ltd.—Stephen House, 4, Dalhousie Square East, Calcutta.
Orient General Industries Ltd.—6, Ghore Bibi Lane, Calcutta 11.
Orient Industrial Engg. Co. Ltd.—P-16, Kalakar Street, Calcutta 7.
Oriental Gas Co. Ltd.—12-A, Park Street, Calcutta.
Oriental Metal Industries.—77, Bow Bazar Street, Calcutta.
Poddar Sanitary Works.—50, Chingrihatta Road, Calcutta 15.
Premier Stores Supplying Co. Ltd.—8, Royal Exchange Place, Calcutta.
Punjab Engineering Works.—77, Netaji Subhas Road, Calcutta.
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Ship Repairers (Pvt.) Ltd.—Tanatolla Road, Paharpur, Calcutta 24.
Shree Gopal Iron Works.—38-A, Kalighat Road, Calcutta.
Shree Hanuman Industries.—178, Harrison Road, Calcutta 7.
Shree Hanuman Steel Rolling Mills Co.—62/2/D-1, Chusury Road, Salkia, Howrah.
Shree Krishna Private Ltd.—20, Mangoe Lane, Calcutta 1.

Shree Lakshmi Iron & Steel Works Ltd.—P-16, Kalakar Street, Calcutta 7.
Shyamnagar Tin Factory Ltd.—113, Manohardas Katra, Calcutta 7.
Steel Equipment & Construction Ltd.—22, Grand Trunk Road, Liluah, Howrah.
Steel Products Ltd.—96, Garden Reach Road, Calcutta 23.
Steel Rolling Mills of Hindustan Private Ltd.—135, Canning Street, Calcutta.
Swadeshi Industries Ltd.—33, Netaji Subhas Road, Calcutta 1.
Tata Iron & Steel Co. Ltd.—23-B, Netaji Subhas Road, Calcutta 1.
Tatanagar Foundry Co. Ltd.—Stephen House, 4, Dalhousie Square East, Calcutta 1.
United Rolling Mills Ltd.—171, Giriah Ghose Road, Belurmath P.O., Howrah.
Variety Industrial Works Ltd.—P-16, Kalakar Street, Calcutta 7.

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MARSHALL, SONS & CO. (INDIA) LTD.—33/1, Netaji Subhas Road (P.O. Box No. 22), Calcutta. Phone: 22-4844 (3 lines). Grams: "ENGINE."

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Calcutta Expanded Metal Mfg. Co., Ltd.—P-16, Kalakar Street, Calcutta 7.
Hindusthan Wire & Metal Products Ltd.—57-74, Stephen House, Dalhousie Square, Calcutta 1.

FLOUR MILLS

Bengal Flour Mills Co., Ltd.—21, Netaji Subhas Road, Calcutta 1.
Calcutta Flour Mills.—242-1, Upper Circular Road, Calcutta 14.
City Oil & Flour Mills Ltd.—6 & 7, Netaji Subhas Road, Calcutta 1.
Howrah Flour Mills Ltd.—21, Rupchand Roy Street, Calcutta 7.
Marwar Flour Mills.—244-2, Upper Circular Road, Calcutta 4.

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MARSHALL, SONS & CO. (INDIA) LTD.—33/1, Netaji Subhas Road (P.O. Box No. 22), Calcutta. Phone: 22-4844 (3 lines). Grams: "ENGINE."

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Bata Shoe Co., Ltd.—30, Theatre Road, Calcutta 16.
Bengal Tannery Co.—31-14, Lower Chitpore Road, Calcutta 1.

GALVANIZED HOLLOW-WARES AND METAL-WARES

Bengal Bucket & Steel Works.—68-D, Netaji Subhas Road, Calcutta 1.
Day, M. L. & Co.—9, Harisbari 1st Lane, Calcutta 27.
Dhur Galvanising Works.—92, Ultadanga Main Road, Calcutta 4.
Electric Welding & Manufacturing Co. (India) Ltd.—2, Fairlie Place, Calcutta 1.
Ghosh & Co.—96, Harrison Road, Calcutta 7.

GENERAL MERCHANTS & COMMISSION AGENTS

Amritlal Ojha & Co. Private Ltd.—Security House, 22-B, Netaji Subhas Road, Calcutta.
Asiatic Investment Ltd.—13, Syed Salley Lane, Calcutta.
Asiatic Textiles Co. Ltd.—9, Dalhousie Square East, Calcutta.
Baldeodas Ramkishan.—16, Jumnalal Bajaj Street, Calcutta.
Baldeoram Baharilal.—61, Strand Road, Calcutta.
Basheshar Dayal Shastiswarup.—29, Sir Hariram Goenka Street, Calcutta.
Bhagwandas Puranmal.—4, Narain Prasad Lane, Calcutta.
Bhawanidas Ramgovind.—7, Sambhu Mullick Lane, Calcutta.
Bhuwalka & Co. Ltd.—8, Royal Exchange Place, Calcutta.
Chirawawala Co.—39, Burtolla Street, Calcutta.
Commission Agents Ltd.—161, Mahatma Gandhi Road, Calcutta.
Dipak Trading Co.—15, Amratolla Lane, Calcutta.
Dipchand Golchha.—10/1, Portuguese Church Street, Calcutta.
Dwarkadas Kashiprasad.—191, Mahatma Gandhi Road, Calcutta.
G. D. Daga & Co.—8, Canning Street, Calcutta.
Ganpatrai Rawatmall.—16, Canning Street, Calcutta.
Gordhandas Madanlal.—178, Mahatma Gandhi Road, Calcutta.
Gouridutt Hiralal.—150, Cotton Street, Calcutta.
Gulraj Ramniwas.—132, Cotton Street, Calcutta.
Hanumanprasad Poddar.—25, Swallow Lane, Calcutta.
Hiralal R. Mehta.—149, Mahatma Gandhi Road, Calcutta.
Indian Stores Supply Co. Ltd.—25, Netaji Subhas Road, Calcutta.
Ivan Jones Ltd.—18-B, Brabourne Road, Calcutta.
Jagannath Ramnath.—133, Cotton Street, Calcutta.
Jainarain Ramchandra.—96, Chowringhee Road, Calcutta.
Jaskidas Basudeo Ltd.—74, Burtolla Street, Calcutta.
Jewraj Chunnilal & Co. Ltd.—161/1, Mahatma Gandhi Road, Calcutta.
Jiwanmal Gyanchand.—20, Moormal Lohia Lane, Calcutta.
Jupiter Commercial Co.—7, Swallow Lane, Calcutta.
Jyotiprasad & Co.—13, Moormal Lohia Lane, Calcutta.
K. D. Mehta & Co.—54, Ezra Street, Calcutta.
Kanji Pannachand Ltd.—86, Armenian Street, Calcutta.
Kanonia Co. Ltd.—18, Mullick Street, Calcutta.
Kashinath & Co. Ltd.—135, Canning Street, Calcutta.
Kedarnath Mohanlal.—9, Jagmohan Mullick Lane, Calcutta.
Khaitan Sons & Co.—3, Dalhousie Square East, Calcutta.
Krishnalal Thirani & Co. Ltd.—8, Royal Exchange Place, Calcutta.
Lakshmichand Baijnath.—81, Cotton Street, Calcutta.
Luchhmi Narain Chandmull.—29, Sir Hariram Goenka Street, Calcutta.
Madanlal Khemka.—6, Old Post Office Street, Calcutta.
Mahadeo Ramkumar.—128, Jumnalal Bajaj Street, Calcutta.
Mahadayal Premchand.—187, Mahatma Gandhi Road, Calcutta.
Mahadeolal Nathmal.—136, Cotton Street, Calcutta.
Mill Products.—7-G, Clive Row, Calcutta.
Murlidhar Gajanand.—192, Jumnalal Bajaj Street, Calcutta.
Nagarmal Paliram.—201, Mahatma Gandhi Road, Calcutta.
Palkiwala Brothers Ltd.—14, Netaji Subhas Road, Calcutta.
Parmanand Deepchand Hindnja.—1, Motisil Street, Calcutta.
Peyarelal Parmeshwarilal.—26, Armenian Street, Calcutta.
Prabhat Marketing Co. Ltd.—26, Anherst Street, Calcutta.
Premraj Ganpatraj & Co.—55, Canning Street, (D-Block), Calcutta
Premsukhdas Sitaram.—174, Mahatma Gandhi Road, Calcutta.
Purambhagat Gopalram.—2, Mullick Street, Calcutta.
Puranmal Shyamsundar.—191, Mahatma Gandhi Road, Calcutta.
Ramdeo Satyanarain.—161, Mahatma Gandhi Road, Calcutta.
Ramdutt Ramkishandas.—9, Brabourne Road, Calcutta.
Ramkumar Agarwalla & Bros.—4, Lyons Range, Calcutta.
Ramnath Bagaria.—113, Manohardas Katra, Calcutta.
Rampratap Brejmohan.—20, Maharshi Devendra Road, Calcutta.
Ratiram Tansukhrai.—161/1, Mahatma Gandhi Road, Calcutta.
Santram Shiwramdas.—168-B, Jumnalal Bajaj Street, Calcutta.
Sensiram Doongarmall.—138, Canning Street, Calcutta.
Sheonarain Ramnarain & Co.—3, Burtolla Street, Calcutta.
Shree Anandi Mata Oil Mills.—402, Upper Chitpore Road, Calcutta.
Shree Bajrang Trading Co.—9, Jagmohan Mullick Lane, Calcutta
Shree Bhagwati Oil Mills Ltd.—9, Jagmohan Mullick Lane, Calcutta.
Sohanlal Mahabirprasad.—4, Jagmohan Mullick Lane, Calcutta
Sohanlal Mohanlal.—5, Lucas Lane, Calcutta.
Shree Lall Debilall.—113, Manohardas Katra, Calcutta.
Sriram Nandram (Delhi) Ltd.—47, Khengrapatti Street, Calcutta.
Sukhdeo Sheonath.—13, Pageyapatti Street, Calcutta.
Surajmull Harmukhray.—192, Jumnalal Bajaj Street, Calcutta.
Swadeshi Ayat Niryat Ltd.—33, Brabourne Road, Calcutta.
Tibrewalla Brothers.—47, Zakaria Street, Calcutta.
United Hosiery Mill Ltd.—14, Netaji Subhas Road, Calcutta.
V. P. S. Ayyeenperumal Nadar & Sons.—38, Kalikrisna Tagore Street, Calcutta.
Victo Commercial Co.—44-45, Ezra Street, Calcutta.

GENERATING SETS

MARSHALL, SONS & CO. (INDIA) LTD.—33/1, Netaji Subhas Road (P.O. Box No. 22), Calcutta. Phone: 22-4844 (3 lines). Grams: "ENGINE."

GLASSWARE MERCHANTS

Artistic Glass Works.—1-2, Tagore Castle Street, Calcutta 6.
Ashok Glass Works.—9, Ezra Road, Calcutta 1.
Bajar Glass Works.—203-1, Harrison Road, Calcutta 7
Bengal Glass Manufacturers' Association.—P-11, Mission Row Extension, Calcutta 1.
Rajanikial Company.—19, Old China Bazar Street, Calcutta 1.

GLUE MANUFACTURERS

Bengal Paste Co.—10, Dehi Entally Road, Entally, Calcutta 14.
East India Glue Co.—82, Sambhunath Pandit Street, Calcutta 25.
India Glue Works.—11, New Tangra Road, Calcutta 15.
King Perfumery Works.—13, Khetra Das Lane, Calcutta 12.
Unita Trading Co.—76, Lower Circular Road, Calcutta 14.

GRADERS

MARSHALL, SONS & CO. (INDIA) LTD.—33/1, Netaji Subhas Road (P.O. Box No. 22), Calcutta. Phone: 22-4844 (3 Lines). Grams: "ENGINE".

GRAMOPHONES & RADIO MANUFACTURERS

Dey, K. C., & Sons.—161-1, Harrison Road, Calcutta 7.
Electro Radios Ltd.—10, Chowringhee Road, Calcutta 13.
Great India Technical & Wireless Association.—2, Cornwallis Street, Calcutta 6.
India Radio Manufacturing Co.—236, Chittaranjan Avenue, Calcutta 6.
International Radio Emporium Ltd.—3, Madan Street, Calcutta 13.

HOSIERY MILLS

Bangalakshmi Hosiery Mills.—89-1A, B. T. Road, Calcutta 2.
Banwari Hosiery Factory.—1, Raja Gurudas Street, Calcutta 6.
Bhanati Hosiery Mills.—7, Maroua Square, Calcutta 7.
Broadway Textile & Hosiery Mills.—123-B, Raja Dinendra Street, Calcutta 4.
D. N. Bose's Hosiery Factory.—86-1A, Sarkar Lane, Calcutta 7.

HOSPITAL EQUIPMENT & SUPPLIES

ASSOCIATED ELECTRICAL INDUSTRIES (INDIA) PRIVATE LTD.—Crown House, 6, Mission Row, Calcutta 1. (See Commercial firms in Calcutta).

Hospital Appliances Manufacturing Co.—101-B, Chittaranjan Avenue, Calcutta 12.

Scientific Glass Apparatus Co.—5-A, Prosonnokumar Tagore Street, Calcutta 6. Makers of Scientific and Medical Apparatus; Govt. and Railway Contractors.

HOSPITAL FURNITURE MANUFACTURERS

Hospital Supply Co.—111, Chittaranjan Avenue, Calcutta 12.
Jayer & Co.—12, Netaji Subhas Road, Calcutta 1.
Surgical Antiseptic Dressing Co.—194, Old China Bazar Street, Calcutta 1.

HOTELS

OBEROI HOTELS (INDIA) PRIVATE LIMITED.—Calcutta.
OBEROI GRAND.—Calcutta.

ICE AND AERATED WATER COMPANIES

Bengal Ice Co. Ltd.—49, Stephen House, 4, Dalhousie Square, Calcutta 1.
Byron & Co. (Original Firm).—5, Chowringhee Place, Calcutta 13.
Campbell's Minerals Co.—6-1, Sudder Street, Calcutta 16.
Cotton & Co.—18, British Indian Street, Calcutta 1.
Crystal Ice & Co.—50, Taugra Road, Entally, Calcutta 15.
Osman Hajee Adam & Co.—Post Box 325, Calcutta-1.

IMPORTERS & EXPORTERS

Abdul Karim Noor Mohamed & Co.—59, Canning Street, Calcutta.
Acharya Brothers.—P-23/24, Radha Bazar Street, Calcutta.
Adair, Dutt & Co. (India) Private Ltd.—Stephen House, 5, Dalhousie Square East, Calcutta.
Agrawal Trading Corporation.—191, Harrison Road, Calcutta.
American Pipe Co.—135, Canning Street, Calcutta.
Arun Chandra Mandal.—8-A, Daspara Road, Calcutta.
Aryan Mining & Trading Corporation Private Ltd.—61, Strand Road, Calcutta 6.
Ashok Exporters & Importers.—4, Bhawani Dutt Lane, Calcutta.
B Patnaik (Mines).—33, Chittaranjan Avenue, Calcutta.
B P Khemka Ltd.—5, Clive Row, Calcutta.
Balmlall & Co. Private Ltd.—13, Syed Salley Lane, Calcutta.
Bajnath Sarda.—15-B, Clive Row, Calcutta.
Ballabhram Badrinarain.—135, Canning Street, Calcutta.
Banshidhar Purshottamdas.—178, Mahatma Gandhi Road, Calcutta.
Banwarilall Sath.—89, Netaji Subhas Road, Calcutta.
Bengal Minerals Supply Co.—71-A, Netaji Subhas Road, Calcutta 1.
Bharat Kala Bhandar Ltd.—8, Royal Exchange Place, Calcutta.
Bhikamchand Bolaram.—35, Armenian Street, Calcutta.
Bivani & Sons Ltd.—137, Canning Street, Calcutta.
Bridhichand Ridhkaran.—87, Old China Bazar Street, Calcutta.
Bubna More & Co.—5, Clive Row, Calcutta.
Calcutta Silk Manufacturing Co. Ltd.—37, Vivekananda Road, Calcutta.
Camera Exchange.—17/2-A, Chowringhee Road, Calcutta.
Central Marketing & Industries Ltd.—16, Ganesh Chandra Avenue, Calcutta.
Central Trading Co.—137, Canning Street, Calcutta.
Champakiai Brothers.—P-33, Mission Row Extension, Kent House, Calcutta 1.
Chandi Prasad More & Co.—5, Clive Row, Calcutta.
Chhaganlal Hanumandas.—157, Netaji Subhas Road, Calcutta.
Chhaganlal Kasturchand.—16, Pollack Street, Calcutta.
Chonthmal Saraf.—62, Nalini Seth Road, Calcutta.
Chowgule & Co. (Hind) Private Ltd.—"Laha Paint House", 7, Chittaranjan Avenue, Calcutta 13.
Christian Mica Industries Ltd.—4, Lyons Range, Calcutta.
D N. Bakshi & Sons.—152-B, Mahatma Gandhi Road, Calcutta.
Dass & Co. (India) Private Ltd.—43, Dharamtolla Street, Calcutta.

DAWJEE DADABHOY & CO., Importers & Exporters, 67, Canning Street, P.O. Box No. 75; Grams: "VARACHHA"—Calcutta; Branch: Dadabhoy Bldg. (2nd floor), 92, Carnac Road; Grams: "SEFETY", Bombay.

Dayal & Sons.—22, Swallow Lane, Calcutta.
Dipak Trading Co.—15, Amratolla Lane, Calcutta.
Dulichand Kashiprasad.—18, Amratolla Street, Calcutta.
East Coast Export-Import Ltd.—"Rampooria" House, 3, Woodburn Road, Calcutta 20.
East India Commercial Co. Ltd.—38, Netaji Subhas Road, Calcutta.
East India Commercial Corporation.—174, Mahatma Gandhi Road, Calcutta.
Eastern Cotton Co.—14/2, Old China Bazar Street, Calcutta.
Ees Lahiri & Co. (Private) Ltd.—2, Church Lane, Calcutta 1.
Gangadhar Ramchander.—402, Upper Chitpore Road, Calcutta.
Garg & Sons.—138, Canning Street, Calcutta.
General Mercantile (Overseas) Corporation.—32, Ezra Street, Calcutta.
Gopikishan Shrikishan.—55, Jumnalal Bajaj Street, Calcutta.
Gopiram Poddar & Co.—8, Canning Street, Calcutta.
Ganpatray Private Ltd.—2, Pretoria Street, Calcutta.
H. M. Patwa & Co.—15, Nurmal Lohia Road, Calcutta.
Hanumanbux Surajmall Ltd.—P-8, Mission Row Extension, Calcutta.
Hind Enterprises.—8, Dalhousie Square East, Calcutta.
Hind General Mercantile Agency Ltd.—8, Lyons Range, Calcutta.
Hinduk Trading Co. (India) Private Ltd.—3, Stephen House, 4, Dalhousie Square East, Calcutta.
Hira Trading Co.—514, Ezra Street, Calcutta.
Indian Kapok Mills Association.—7, Hazarimull Saha Road, Salkia, Howrah.
Industrial Traders.—138, Canning Street, Calcutta.
International Exporters Ltd.—178, Mahatma Gandhi Road, Calcutta.
Ishwardas Jhabarmal.—P-10, New Howrah Bridge Approach Road, Calcutta.
Jamnadas & Co.—27, Amratolla Lane, Calcutta.
Jankidas Ramgopal.—48, Canning Street, Calcutta.
Jeethmull Raichand Lall.—113, Netaji Subhas Road, Calcutta.
Jiwanram Sheaduttral.—30, Ganesh Chandra Avenue, Calcutta.
Jugalkishore Maheshwari.—12, Netaji Subhas Road, Calcutta.
K. Vankatraj V. Suryanarayan.—3, Mullick Street, Calcutta.
K. N. Jain & Sons.—29, Strand Road, Calcutta.
Kajaria Sons Ltd.—32, Ezra Street, Calcutta.
Kalidas Maganlal Shah & Co.—4, Rupchand Roy Street, Calcutta.
Kamala Textile Agency.—113-B, Manohardas Katra, Calcutta.
Kanodia & Co.—149, Cotton Street, Calcutta.
Kanoi Estates Ltd.—P-8, Mission Row Extension, Calcutta.
Kanoi (India) Ltd.—P-8, Mission Row Extension, Calcutta.
Kedarnath Parsotamdas & Co. Ltd.—37, Netaji Subhas Road, Calcutta.
Keshrimull Kundanmull.—46, Strand Road, Calcutta 7.
Khandalwal Thirani & Co. Ltd.—8, Royal Exchange Place, Calcutta.
Khemka & Co. (Agencies) Ltd.—31/32, Royal Exchange Place Extn., Calcutta.
Khubchand Baijnath.—77, Netaji Subhas Road, Calcutta.
Kodamull Nathmull.—37, Armenian Street, Calcutta.
Lakshmi Produce Co. Ltd.—14, Netaji Subhas Road, Calcutta.
Lakshmichand Baijnath.—31, Cotton Street, Calcutta.
Lalchand Dharamchand.—6, Jamnalal Bajaj Road, Calcutta.
Lotus Industries Ltd.—22, Zakaria Street, Calcutta.
M. R. Kharwan Bros.—7, Swallow Lane, Calcutta.
Mahilaram Bajaj & Co.—178, Mahatma Gandhi Road, Calcutta.
Metal Distributors Private Ltd.—38, Strand Road, Calcutta.
Misrilall Jain.—34-B, Ratu Sakar Lane, Calcutta.
Mohanlal Motilal.—14/2, Old China Bazar Street, Calcutta.
Mohatra Brothers.—19, British Indian Street, Calcutta.
Motihari Enterprises Private Ltd.—178, Mahatma Gandhi Road, Calcutta.
Motilal Hariprasad & Bros.—67/50, Strand Bank Road, Calcutta.
Murarka (Overseas) Ltd.—17, Noormal Lohia Lane, Calcutta.
Murlidhar Jhunjhunwala Ltd.—22/24, Radha Bazar Street, Calcutta.
Nandlal Bajaj.—156, Jumnalal Bajaj Street, Calcutta.
Nandram Hunatram.—8, Lyons Range, Calcutta.
National Development Trust.—183, Jumnalal Bajaj Street, Calcutta.
Nilmani Pal.—10-B, Mechua Bazar Street, Calcutta.
O. H. Jagodia.—14, Netaji Subhas Road, Calcutta.
Orient Engineering & Commercial Co. Ltd.—9-A, Dalhousie Square, Calcutta.
Oswal Company Ltd.—14/2, Old China Bazar Street, Calcutta.
Pannalal Sagarmal.—10, Canning Street, Calcutta.
Photo Emporium.—71, Ganesh Chandra Avenue, Calcutta 12.
Pici Chatterjee & Co.—24, Mangoe Lane, Calcutta.
Pioneer Plastic Works Ltd.—9, Ezra Street, Calcutta
Power Farming Ltd.—3, Jagmohan Mullick Lane, Calcutta.
Prayagdas Mathuradas.—43, Strand Road, Calcutta.
Punjab Cloth Mills Ltd.—20, Tarachand Dutt Street, Calcutta.
Purushottomlall Rajgarhia.—13, Harrington Street, Calcutta.
R. McDill & Co. Private Ltd.—343, Ratu Sarkar Lane, Calcutta 7.
R. L. Modi & Sons Ltd.—2, Dayehatta Street, Calcutta.
Radharam Sohanlal.—3, Mullick Street, Calcutta.
Raghunathrai Piyarelal.—15, Noormal Lohia Lane, Calcutta 7.
Rambilas Nandlall.—178, Mahatma Gandhi Road, Calcutta.
Rameshwanlal Dedraj.—180, Mahatma Gandhi Road, Calcutta.
Ram Gopal Pasari.—23/24, Radha Bazar Street, Calcutta.
Ramjidas Shriram.—46, Upper Chitpore Road, Calcutta 7.
Ramlal Roshanlal & Co.—2, Raja Woodmunt Street, Calcutta.
Ranglal Shreechand.—94, Lower Chitpore Road, Calcutta 7.
S. Lal & Co. Private Ltd.—15, Chittaranjan Avenue, Calcutta.
Satyanarayan Prasad Vishnudeo Prasad.—9, Jagmohan Mullick Lane, Calcutta.
Seth Nanakchand Shadiram.—Mohta House, 29, Strand Road, Calcutta.
Shevprakash Janakraj & Co.—160, Jumnalal Bajaj Street, Calcutta.
Shevram Sitaram.—138, Jumnalal Bajaj Street, Calcutta.
Shewbux Satyanarain.—30/31, Kalakar Street, Calcutta.
Shree Bajrang Trading & Supply Co.—22, Burtolla Street Calcutta.
Shree Shew Sakti Oil Mills Ltd.—14, Netaji Subhas Road, Calcutta.
Shree Shivagouri Oil Mills.—234/2, Upper Circular Road, Calcutta.
Shri Niwas Co. Private Ltd.—14, Noormall Lohia Lane, Calcutta 7.
Shyam Sundar Ltd.—P-16, Kalakar Street, Calcutta.

Shyamsundar Agarwala.—173, Mahatma Gandhi Road, Calcutta.
Shyam Sundar Srilal.—P-11, New Howrah Bridge Approach Road, Calcutta.
Sonthalia & Company.—71, Jumnalal Bajaj Street, Calcutta.
Sukhdeodas Kishanlall.—178, Mahatma Gandhi Road, Calcutta 7.
Summerson Trading Co. Ltd.—201, Mahatma Gandhi Road, Calcutta.
Sundar Lall Golchha.—113, Manohardas Katra, Calcutta.
Sundarmal Parasram.—161, Chittaranjan Avenue, Calcutta.
Surajmal Hannumandas.—132, Cotton Street, Calcutta.
Surajmal Murlidhar.—28, Amratolla Street, Calcutta.
Swaika Vanaspati Products Ltd.—18-B, Brabourne Road, Calcutta.
Swadeshi Ayat Niryat Ltd.—33, Brabourne Road, Calcutta.
Swatantra Bharat Trading Co. Ltd.—208, Jumnalal Bajaj Street, Calcutta.
Textile Store Dealers Ltd.—33, Netaji Subhas Road, Calcutta.
Tolaram Champalal.—183/1, Dharamtolla Street, Calcutta.
Umakant & Co. Private Ltd.—4, Mullick Street, Calcutta.
United India Trading Co.—159, Chittaranjan Avenue, Calcutta 7.
United Provinces Commercial Corporations.—6, Ganesh Chandra Avenue, Calcutta.
United Supply Agency Private Ltd.—38, Strand Road, Calcutta.
Universal Importers Co.—32-E, Jackson Lane, Calcutta.
Vasant Corporation Private Ltd.—28, Amratolla Street, Calcutta 1.
Vijoy & Company.—3, Chauringhee Road, Calcutta.
Wool Agents Ltd.—10, Armenian Street, Calcutta.

INK MANUFACTURERS

Bandyo, S., & Co.—P. O. Alambazar, Calcutta 35.
Banerji, A. C.—Alambazar, Calcutta 35.
Bharat Carbon & Ribbon Mfg. Co. Ltd.—543, Basantalal Saha Road, P. O. Tollygunge, Calcutta 33.
Bishop & Co.—Barnagore, Calcutta 36.
Calcutta Miscellany.—12, Ghose Lane, Calcutta 6.

INSECTICIDE MANUFACTURERS

D. C. M. Products (1937) Ltd.—9, Convent Road, Entally, Calcutta 14.
Eastern Physiological Institute.—94, Harrison Road, Calcutta 7.
Jardine Henderson Ltd.—4, Clive Row, Calcutta 1.
John Paterson & Co. (India) Ltd.—14, Netaji Subhas Road, Calcutta 1.
Saratin & Co.—41, Tengra Road, Calcutta 15.

INSURANCE COMPANIES

British Traders' Insurance Co. Ltd.—Branch Office: B2, Clive Buildings, 8, Netaji Subhas Road, Calcutta 1.
Co-operative Assurance Co. Ltd., The.—Chief Agency Office: 11, Esplanade East, Calcutta 1. Phone: 23-3550.
Dominion Insurance Co. Ltd.—6A, S. N. Banerjee Road, Calcutta 13. Phone: 24-4587.
East End Provident Assurance Ltd.—10, Government Place East, Calcutta 1. Phone: City-6335.
STANDARD GENERAL ASSURANCE CO., LTD.—H. O.: Bombay Mutual Building, 9, Brabourne Road, Calcutta 1.
UNION INSURANCE SOCIETY OF CANTON, LTD.—(Estd. 1835). Branch Office: B2, Gillander House, 8, Netaji Subhas Road, Calcutta 1. Marine, Fire, Motor, Workmen's Compensation and Miscellaneous insurance. Manager: N. A. Rigg, Asstts.: M. L. Shivany, A. N. Mukherjee and S. K. Seth. Phone Nos. 22-1985 and 1986. Grams: "UNIONIST." P.O. Box 266.

IRON & STEEL MERCHANTS

CALCUTTA IRON & STEEL CO., PRIVATE LTD.—68-A, Netaji Subhas Road, Calcutta 1; 68-D, Mohamedaly Road, Bombay 3; Importers, General Hardware Merchants, Dealers in all kinds of valves.

JUTE MILLS

Adamjee Jute Mills Ltd.—5, Dalhousie Square East, Calcutta 1.
Anglo-India Jute Mills Co. Ltd.—31, Netaji Subhas Road, Calcutta 1.
Bally Jute Co. Ltd.—4, Clive Row, Calcutta 1.
Barnagore Jute Factory Co. Ltd.—Barnagore, Calcutta 36.
Bharat Jute Mills Ltd.—29, Strand Road, Calcutta 1.

JUTE PRESSES

Atlas & Union Jute Press Co. Ltd.—3, Kali Prasonna Singhee Street, Cossipore, Calcutta 2.
Calcutta Hydraulic Press Co. Ltd.—8, Clive Row, Calcutta 1.
Camperdown Pressing Co. Ltd.—22-A, Netaji Subhas Road, Calcutta 1.
Central Hydraulic Press Co. Ltd.—8, Clive Row, Calcutta 1.
Cossipore Hydraulic Press.—15, Baton Babu Road, Cossipore, Calcutta 2.

LAC FACTORIES

Angelo Bros. Limited.—6, Lyons Range, Calcutta 1.
Associated Commercial Concerns.—14, Bow Bazar Street, Calcutta 12

LATHES & DRILLS

MARSHALL, SONS & CO. (INDIA) LTD., 33/1, Netaji Subhas Road (P.O. Box No. 22), Calcutta; Phone: 22-4844, (3 Lines). Grams: "ENGINE".

LAUNDRY MACHINERY

MARSHALL, SONS & CO. (INDIA) LTD., 33/1, Netaji Subhas Road (P.O. Box No. 22), Calcutta; Phone: 22-4844 (3 Lines). Grams: "ENGINE".

LEAD MILLS

Dutt, K. L., & Sons.—1, Nirode Behary Mullick Road, Calcutta 6.
India Rolling Mills Ltd.—9, Netaji Subhas Road, Calcutta 1.

LENS AND OPTICAL INSTRUMENT MANUFACTURERS

Instrument Research Laboratory Ltd.—309, Bow Bazar Street, Calcutta 12.
Lens & Scientific Instrument Co. Ltd.—5-2, Old Court House Street, Calcutta 1.

LIGHTING FITTINGS

ASSOCIATED ELECTRICAL INDUSTRIES (INDIA) PRIVATE LTD.—Crown House, 6, Mission Row, Calcutta 1. (See Commercial firms in Calcutta).

LIME, STONE AND CEMENT WORKS

Burn & Co. Ltd.—12, Mission Row, Calcutta 1.
Dr. Harendra Kumar Ghosh & Sons.—21, Barwaritola Road, Beliaghata, Calcutta 10.
Indian Patent Stone Co. Ltd.—Chartered Bank Building, Calcutta 1.
Swaika Brick Works.—Pollock House, 28A, Pollack Street, Calcutta 1.
Sylhet Lime Co. Ltd.—4, Fairlie Place, Calcutta 1.

LOCK AND SAFE MANUFACTURERS

Bengal Iron Safe & Lock Works.—120, Sovabazar Street, Calcutta 5.
Bombay Safe & Steel Works.—39, Netaji Subhas Road, Calcutta 1.
Das & Co., Lock & Safe Specialists Ltd.—Protection House, 31A, Barrackpore Trunk Road, P. O. Cossipore, Calcutta 2.
Das Lock & Safe Mfg. Co. Ltd.—77B, Rash Behari Avenue, P. O. Kalighat, Calcutta 26.
Godrej, Godrej & Boyce Mfg. Co., Private Ltd.—9, Brabourne Road and Park Street, Calcutta.

MACHINE PARTS MANUFACTURERS

Dutt, S. K.—20, Strand Road, Calcutta 1.
Hindusthan Development Corporation Ltd.—Hindusthan Buildings, 4, Chittaranjan Avenue, Calcutta 13.
New India Engineering Syndicate.—113-G, Netaji Subhas Road, Calcutta 1.
Pasupati Engineering Co.—2, Dalhousie Square East, Calcutta 1.
Shalimar Foundry Ltd.—32, Chittaranjan Avenue, Calcutta 13.

MACHINE SCREWS MANUFACTURERS

Ashly & Co.—28, Strand Road, Calcutta 1.
Jugal Kishore Karmoker & Bro.—12, Jadu Pandit Road, Beadon Street, Calcutta 6.
Khan Pal Chowdhury & Co. Ltd.—71A, Netaji Subhas Road, Calcutta 1.
Mullick, A. M., & Co.—84-A, Room No. 169, Netaji Subhas Road, Calcutta 1.

MACHINE TOOLS

Bharatmata Engineering Works.—28, Strand Road, Calcutta 1.
Hardware & Metal Industries Co.—30, Netaji Subhas Road, Calcutta 1.
Heores Engineering Works Ltd.—20, Paul Street, Shambazar, Calcutta 4.
Hindusthan Development Corporation Ltd.—Hindusthan Buildings, 4, Chittaranjan Avenue, Calcutta 13.
India Machinery Co. Ltd.—29, Strand Road, Calcutta 1.

MACHINERY DEALERS & MANUFACTURERS

Ashly & Co.—28, Strand Road, Calcutta 1.
Atlas Works Ltd.—119, Ripon Street, Calcutta 16.
Bengal Metal & Machinery Syndicate.—P-39, Mission Row Extension, Calcutta 1.
Bery Brothers.—135 Canning Street, Calcutta 1.
Corporated Engineers (India) Ltd.—7, Chittaranjan Avenue, Chowringhee Square, Calcutta 13.
Jayems Engineering Co.—22, Brabourne Road, Calcutta. Phone 22-6711.
Spence Ltd.—P-38, Mission Row Extension, Calcutta 13.

MATCH FACTORIES

Eeavi India Match Manufacturing Co.—47, Muraripukur Road, Maniktolla, Calcutta 4.
Laxmi Match Ltd.—248, Upper Chitpore Road, Calcutta 8.

MECHANICAL AND STRUCTURAL ENGINEERS

D. N. Bose & Co. Ltd.—12, Kali Das Singhee Lane, Calcutta 9. Mechanical and Structural Engineers. Office-Bearers: D. N. Bose, P. C. Ghosh and S. N. Dey.

MARSHALL, SONS & CO. (INDIA) LTD.—33/1, Netaji Subhas Road (P.O. Box No. 32), Calcutta. Phone: 22-4944 (3 lines). Grams: "ENGINE."

METAL & METAL ALLOYS

Binani Metal Works Ltd.—38, Strand Road, Calcutta 1.
Eastern Metal & Alloy Corporation Ltd.—38A, Belgatchia Road, Calcutta.
Indian Metals & Alloys Co. Ltd.—Hide Road, Kidderpore, Calcutta 23.
Kamani Metal Refinery & Metal Industries.—B-3, Clive Buildings, 8, Netaji Subhas Road, Calcutta 1.
Lillooah Steel & Wire Co. Ltd.—5-B, Muktaram Babu Street, Calcutta 7.

METAL POLISH

Hutchison, J. & R., Ltd.—10, Clive Row, Calcutta 1.
Lily Chemical Works.—Ultadanga, Calcutta.

METAL SMELTERS & REFINERS

Ashok Metal Industries.—157, Netaji Subhas Road, Calcutta 1.
Associated Metal Industries of India Ltd.—16, Mangoe Lane, Calcutta 1.
Bengal Ingot Co. Ltd.—5, Hide Road, Kidderpore, Calcutta 23.
Bengal Wire Nails Co. Ltd.—37, Cross Street, Calcutta 7.
Binani Metal Works Ltd.—38, Strand Road, Calcutta 1.

MILL & GIN STORE SUPPLIERS

General Rice Machinery Stores, The.—67-A, Netaji Subhas Road, Calcutta 1.
Lewis & Tylor (India) Ltd.—6, Church Lane, Calcutta.
Mill Stores Limited.—67-B, Netaji Subhas Road, Post Box No. 2613, Calcutta 1.
Oriental Mill Stores Co., The.—71-A, Netaji Subhas Road, Calcutta 1.

MOULDERS & BRASS FOUNDERS

Billias Engineering Co.—137, Canning Street, Calcutta 1.
India Machinery Co. Ltd.—29, Strand Road, Calcutta 1.
Kapoor, K., L. & Co.—90, Central Avenue (South), Calcutta 12.

NON-FERROUS METALS MFRS.

Aluminium Corporation of India Ltd.—7, Council House Street, Calcutta 1.
Bengal Ingot Co. Private Ltd.—5, Hide Road, Kidderpore, Calcutta 23.
Binani Metal Works Private Ltd.—38, Strand Road, Calcutta 1.
Lyre Smelting Private Ltd.—5, Hide Road, Kidderpore, Calcutta 23.
Ganga Metal Refining Co. Private Ltd.—43, Strand Road, Calcutta 1.
Indian Aluminium Co. Ltd.—31, Chowringhee Road, Calcutta 16.
Indian Cable Co. Ltd.—9, Hare Street, Calcutta 1.
Indian Oxygen & Acetylene Co. Private Ltd.—48/1, Diamond Harbour Road, Calcutta 27.
Metals & Ores Co. (A Division of National Carbon Co. (India) Ltd.)—Pollock House, 18-A, Brabourne Road, Calcutta 1.
National Insulated Cable Co. of India Ltd.—"Stephen House", 4, Dalhousie Square East, Calcutta 1.
National Pipes & Tubes Co. Ltd.—"Stephen House", 4, Dalhousie Square East, Calcutta 1.
National Screw & Wire Products Ltd.—"Stephen House", 4, Dalhousie Square East, Calcutta 1.
Non-Ferrous Metal Industries Private Ltd.—161/1, Harrison Road, Calcutta 7.
Waddies Industries Private Ltd.—8, Netaji Subhas Road, Calcutta 1.

OFFICE SUPPLIES & EQUIPMENT MANUFACTURERS

Bharat Carbon & Ribbon Mfg. Co. Private Ltd.—543, Basanta Lal Saha Road, P. O. Tollygunge, Calcutta 33.
Godrej, Godrej & Boyce Mfg. Co., Private Ltd.—9, Brabourne Road and Park Street, Calcutta.
Oriental Sealing Wax Co.—91, Stephen House, Dalhousie Square, Calcutta 1.
Sulekha Works Ltd.—Jadavpur, Calcutta 32.

OIL MILLS

Banga Laxmi Oil Mills.—11, Clive Row, Calcutta 1.
Banshidhar Baijnath Oil Mills.—32-4, Sahitya Parishad Street, Calcutta 6.
Basak Oil Mills.—44-1, Beadon Row, Calcutta 6.
Bhagat Oil Mills.—32-4, Sahitya Parishad Street, Calcutta 6.
Bharat Oil Mill.—248, Upper Circular Road, Calcutta 6.

ORCHARDS & NURSERIES

Alexander Nursery.—57-1, Durga Charan Mitter Street, Calcutta 6.
Bhur Nursery.—57-1C, Durga Charan Mitter Street, Calcutta 6.
Biswas Nursery.—29, Biswas Nursery Lane, Belliaghatta, Calcutta 10.
Bolo Nursery.—7, Sristidhar Dutt Lane, P. O. Beadon Street, Calcutta 6.
Calcutta Seed House.—1B, College Row, Calcutta 9.

OXIDE OF LEAD MANUFACTURERS

Indian Lead Products Ltd.—14, Netaji Subhas Road, Calcutta 1.
Indian Red Lead Factory Ltd.—14, Netaji Subhas Road, Calcutta 1.

OXYGEN & ACETYLENE GAS MANUFACTURERS

Asiatic Oxygen & Acetylene Co. Ltd.—8, Dalhousie Square East, Calcutta 1.
Indian Oxygen & Acetylene Co. Ltd.—48-1, Diamond Harbour Road, Calcutta 27.

PAPER MERCHANTS

BENGAL PAPER MILL CO. LTD., THE.—Raniganj, West Bengal. Enquiries for all types of Paper to Balmer Lawrie & Co. Ltd., Calcutta & Bombay.

TRIBENI TISSUES LTD.—Hooghly, West Bengal. Enquiries for all types of tissues to Balmer Lawrie & Co. Ltd., Calcutta & Bombay.

PAPER MILLS

Aryan Paper Mills Ltd.—12, Chowringhee Square, Calcutta.
Ballarpur Paper & Straw Board Mills Ltd.—5, Royal Exchange Place, Calcutta.
Bengal Paper Mills Co. Ltd.—21, Netaji Subhas Road, Calcutta 1.
Calcutta Paper Mills Ltd.—61, Cross Street, Calcutta 7.
India Paper Pulp Co. Ltd.—8, Clive Road, Calcutta 1.
Mahabir Paper & Board Industries.—3, Canal Road, Tollygunj, Calcutta.
Orient Paper Mills Ltd.—8, India Exchange Place, Calcutta.
Rohtas Industries Ltd.—11, Clive Row, Calcutta.
Shree Gopal Paper Mills Ltd.—5, Royal Exchange Place, Calcutta.
Star Paper Mills Ltd.—27, Brabourne Road, Calcutta.
Titaghur Paper Mills Co., Ltd.—Chartered Bank Buildings, Calcutta.
Tribeni Tissues Private Ltd.—21, Netaji Subhas Road, Calcutta.
Union Paper & Board Mills Ltd.—18, Netaji Subhas Road, Calcutta.
United Board & Paper Mills Ltd.—100, Netaji Subhas Road, Calcutta.

PEN & PENCIL FACTORIES

Bharati Works.—2, Cornwallis Street, Calcutta 6.
India Pen & Allied Industries Ltd.—86/2, Bahir Surah Road, Belliaghatta, Calcutta 10.
Indian Small Industries.—14, Jamini Kaviraj Row, Calcutta 4.

PIECE-GOODS DEALERS

Arora & Co. (Private) Ltd.—7-A, Clive Row, Calcutta.
Bajrangial & Co.—194, Jumnalal Bajaj Street, Calcutta.
Bansal & Co., Ltd.—16, Noormal Lohia Lane, Calcutta 7.
Banshidhar Nandlal.—197, Mahatma Gandhi Road, Calcutta.
Bharat Textiles.—158, Jamnalal Bajaj Street, Calcutta 7.
Bhawanidas Ramgovind.—7, Sambhu Mullick Lane, Calcutta.
Bisesarlal Brijlal.—37, Jumnalal Bajaj Street, Calcutta.
Bisesarlal Mannalal.—174, Mahatma Gandhi Road, Calcutta.
Bohitram Jugal Kishore.—55, Jumnalal Bajaj Street, Calcutta.
Chiranjilall Banarsilall.—18, Mullick Street, Calcutta.
Chouthmal Sethiya.—9, Armenian Street, Calcutta.
Chunnilal Prabhudas & Co.—55/58, Canning Street, Calcutta.
Commission Agents Ltd.—161, Mahatma Gandhi Road, Calcutta.
Deviprasad Anandkumar.—30/31, Kalakar Street, Calcutta.
Dhandhania Brothers Ltd.—135, Canning Street, Calcutta.
Dwarkadas Jethabhai.—12, Noormal Lohia Lane, Calcutta.
Dwarkadas Mohanlal.—174, Mahatma Gandhi Road, Calcutta.
Gajanand Kanhaiyalal.—174, Harrison Road, Calcutta.
Gajanand Saraogi.—56, Sir Hariram Goenka Street, Calcutta.
Gangadhar Neotia Sons.—15, Noormal Lohia Lane, Calcutta.
Gopikishan Ishwardas.—74, Cross Street, Calcutta.
Gopiram Hardeodas.—42/1, Strand Road, Calcutta.
Govindlal Saraogi.—56, Sir Hariram Goenka Street, Calcutta.
Gulabchand Dhanraj.—12, Noormal Lohia Lane, Calcutta.
Gulabrai Mahadeo.—178, Mahatma Gandhi Road, Calcutta.
Gurmukhroy Harmukhroy.—113, Manohardas Katra, Calcutta.

Haricharam Shyamsundar.—49/1/1, Cotton Street, Calcutta.
Harialka & Co.—5, Dharamtolla Street, Calcutta.
Hind Mica Ltd.—13/1, Harrington Street, Calcutta.
Hirabux Sanwalram.—113, Manohardas Katra, Calcutta.
Hukumchand Malchand.—22, Kalakar Street, Calcutta.
Hulaschand Nahata.—194, Jumnalal Bajaj Street, Calcutta.
Jagannath Bajranglal.—32, Armenian Street, Calcutta.
Jagannath Sanwalram.—201, Mahatma Gandhi Road, Calcutta.
Jainarayan Hiralall.—113, Manohardas Katra, Calcutta.
Jankidas Basudeo Ltd.—74, Burtolla Street, Calcutta.
Jeetmal Jugalkishore.—74, Jumnalal Bajaj Street, Calcutta.
Jethmal Gopaldas.—15, Pageyapatti Street, Calcutta.
Jetmull Bhajraj.—4, Doyehatta Street, Calcutta.
Jivanmal Gyanchand.—20, Noormal Lohia Lane, Calcutta.
Jiwanram Gangaram.—35, Jumnalall Bajaj Street, Calcutta.
Johurimal Ramlall.—113-A, Manohardas Katra, Calcutta.
Kalidas & Co.—35, Armenian Street, Calcutta.
Kamlaprasad Jagmohan.—178, Mahatma Gandhi Road, Calcutta.
Kanhaiyalall Sitaram.—13, Pageyapatti Street, Calcutta.
Kantiram Hazarimal.—2, Dayehatta Street, Calcutta.
Kevalram Baijnathprasad.—26, Burtolla Street, Calcutta.
Kedarnath Madanlall.—173, Mahatma Gandhi Road, Calcutta.
Khaitan Sons & Co.—2, Dalhousie Square Street, Calcutta.
Khatau Meckenje Spg. & Wvg. Co. Ltd.—16, Noormal Lohia Lane, Calcutta.
Khetsidas Girdharilal.—3, Pageyapatti Street, Calcutta.
Kishorilal Purushottamdas.—7, Sambhu Mallick Lane, Calcutta.
L. Vallabhdas Mathuradas.—15, Noormal Lohia Lane, Calcutta.
Labhchand Subhakaran.—4,5, Noormal Lohia Lane, Calcutta.
Lakhiprasad Loknath & Co.—35, Chittaranjan Avenue, Calcutta.
Lakshminarain Bhagwatiprasad.—P-10, New Howrah Bridge Approach Road, Calcutta.
Madanlal Khemka.—6, Old Post Office Street, Calcutta.
Mahadeo Ramkumar.—128, Jumnalal Bajaj Street, Calcutta.
Mangalchand Jagannath.—201, Mahatma Gandhi Road, Calcutta
Matadin Khaitan & Co. Ltd.—9, Ramkumar Rakshit Lane, Calcutta.
Meghraj Kanhaiyalal.—113, Manohardas Katra, Calcutta.
Mirzamal Saraogi.—201, Mahatma Gandhi Road, Calcutta.
Narsingdass Biswanath.—3, Amratolla Street, Calcutta
Narsinghsai Madangopal Piece-goods Co., Ltd.—11, Armenian Street, Calcutta.
New India Mercantile Co. Private Ltd.—8, Royal Exchange Place, Calcutta.
Padam Sing & Co.—16, Pageyapatti Street, Calcutta.
Parkh Textile.—160, Jamnalal Bajaj Street, Calcutta
Pannalal Purshottamdas.—113, Manohardas Katra, Calcutta.
Pannalal Saraog.—58, Sir Hariram Goenka Street, Calcutta.
Partabmull Rameshwar.—46, Strand Road, Calcutta.
Pitamberlal Agarwal.—10, Armenian Street, Calcutta.
Premraj Dulichand.—201, Mahatma Gandhi Road, Calcutta.
Pyarelal Saraogi.—9, Bonefield Lane, Calcutta.
Radhakison Netram.—6, Kalikrishna Tagore Street, Calcutta.
Rajmal Roshanlal.—113, Manohardas Katra, Calcutta.
Ramballav Rameshwar.—16, Brojadulal Street, Calcutta.
Ramballav Satyanarain.—173, Mahatma Gandhi Road, Calcutta.
Rambilas Sagarmal.—178, Mahatma Gandhi Road, Calcutta.
Ramchandra Hanumanbux.—32, Jumnalal Bajaj Street, Calcutta.
Ramdeo Lachminarayan.—17, Pageyapatti Street, Calcutta.
Ramkishan Jaikishan.—15, Pageyapatti Street, Calcutta.
Ramkumar Saraogi.—56, Sir Hariram Goenka Street, Calcutta.
Ramsarup Chandiprasad.—9, Jagmohan Mullick Lane, Calcutta.
Rawatmal Bhairudan.—14, Portuguese Church Street, Calcutta.
Saraogi Brothers.—128, Jamnalal Bajaj Street, Calcutta.
Sewpersad Kalicharan.—49, Cotton Street, Calcutta.
Sewram Sushilkumar.—184, Cross Street, Calcutta.
Shamdeo Gopiram.—209, Jamnalal Bajaj Street, Calcutta.
Sheodattray Sreenivas.—26, Upper Chitpore Road, Calcutta.
Shivratan Chandratan.—7, Noormal Lohia Lane, Calcutta.
Spence Ltd.—P-38, Mission Row Extension, Calcutta.
Sreechand Ganeshdass.—113, Manohardas Katra, Calcutta.
Sreelal Debilall.—113-A, Manohardas Katra, Calcutta.
Sriram Nandram (Delhi) Ltd.—47, Khengrapatti Street, Calcutta.
Sukhdayal Ramblas.—113, Manohardas Katra, Calcutta.
Vasanjee Moorarjee.—4/5, Noormal Lohia Lane, Calcutta.

PIPES & TUBES MANUFACTURERS

Indian Conduit Pipes Ltd.—Stephen House, Dalhousie Square, Calcutta 1.

National Pipes & Tubes Co. Ltd.—67-74, Stephen House, 4, Dalhousie Square East, Calcutta 1.

PLASTIC PRODUCTS MANUFACTURERS

Davee Products Ltd.—P31, Mission Row Extension, Calcutta 1.

Hindusthan Industrial Syndicate.—2, Rash Behari Avenue, Calcutta 26.

Kisan Products Ltd.—15-G, Pam Road, Calcutta 19.

Pioneer Plastic Works Ltd.—46, Strand Road, 3rd Floor, Calcutta 1.

PLASTICS MOULDERS PRIVATE LTD.—30, Strand Road, P. O. Box No. G.P.O. 2813, Calcutta 1. Manufacturers of Plastic & Acetate Combs, Tooth brushes, Flexible wires, Fancy articles etc. ; All allied Plastic raw materials are also supplied by our Managing Agents Messrs. Plastic Distributors. Code used—Bentley's 2nd Phrase. Phone : 22-3687 86 ; Grams : "PLASTIMOLD".

PLOUGHS

MARSHALL, SONS & CO. (INDIA) LTD.—33/1, Netaji Subhas Road (P.O. Box No. 22), Calcutta. Phone : 22-4844 (3 lines). Grams : "ENGINE."

PLYWOOD MANUFACTURERS

Bengal Best Plywood Works.—19, Strand Road, Calcutta 1
Bengal Bobbin & Plywood Co. Ltd.—44-46, Canning Street, Calcutta 1.
Bengal Plywood.—5-H-7, Canal East Road, Calcutta 4.
Bengal Plywood Manufacturing Co.—1, Commercial Buildings, Calcutta 1.
Bengal Saw Mill & Plywood Co.—8A, Dr. Jagabandhu Lane, Bowbazar, Calcutta 12.

POTTERIES, BRICK & TILE WORKS

A. B. C. Floors.—13, Dalhousie Square, Calcutta 1.
Art Tiles & Concrete Works (India) Ltd.—11, Gobra Goristhan Lane, Entally, Calcutta 14.
Bengal Porcelain Co. Ltd.—3, Moti Sil Street, Calcutta 13.
Bengal Potteries Ltd.—45, Tangra Road, Calcutta 15.
Bharat Fire Bricks & Pottery Works Ltd.—33, Canning Street, Calcutta 1.

PUMPS & PUMPING SETS MANUFACTURERS AND DEALERS

Alihussain, A. T. & Co.—29, Strand Road, Calcutta 1.
Allied Iron & Steel Co.—12, Dalhousie Square East, Calcutta 1.
ASSOCIATED ELECTRICAL INDUSTRIES (INDIA) PRIVATE LTD.—Crown House, 6, Mission Row, Calcutta 1. (See Commercial firms in Calcutta).
B. G. H. & Co.—18, Raja Woodmunt Street, Calcutta 1.
Darling Pump Manufacturing Co.—58, Netaji Subhas Road, Calcutta 1.
Hindusthan Plumbers & Traders Ltd.—34, Strand Road, Calcutta 1.
MARSHALL, SONS & CO. (INDIA) LTD.—33 1, Netaji Subhas Road (P.O. Box No. 22), Calcutta. Phone : 22-4844 (3 lines). Grams : "ENGINE."

RAILWAY SIGNALLING EQUIPMENT

ASSOCIATED ELECTRICAL INDUSTRIES (INDIA) PRIVATE LTD.—Crown House, 6, Mission Row, Calcutta 1. (See Commercial firms in Calcutta).

REFRACTORY MATERIAL MANUFACTURERS

Associated Mining Industries Ltd.—4, Lyons Range, Calcutta 1.
Balmukh Ceramics Ltd.—7, Swallow Lane, Calcutta 1.
Burn & Co. Ltd.—12, Mission Row, Calcutta 1.
Hindusthan Potteries.—12, Shib Kristo Daw Lane, Calcutta 7.

REFRIGERATORS (DOMESTIC)

ASSOCIATED ELECTRICAL INDUSTRIES (INDIA) PRIVATE LTD.—Crown House, 6, Mission Row, Calcutta 1. (See Commercial firms in Calcutta).

RICE MILLS

Mahabir Rice Mill.—New Basti, P. O. Tollygunge, Calcutta.
Usha Rice Mill Co.—32, Tollygunge Circular Road, Tollygunge, Calcutta.
Victoria Rice Mills Co.—100, Rajendra Deb Road, Calcutta 7.

ROAD ROLLERS

MARSHALL, SONS & CO. (INDIA) LTD.—33/1, Netaji Subhas Road (P.O. Box No. 22), Calcutta. Phone : 22-4844 (3 lines). Grams : "ENGINE."

ROLLING MILLS

Bengal Rolling Mills Ltd.—96B, Netaji Subhas Road, Calcutta 1.
Bharita Electric Steel Co. Ltd.—48, Shibtolla Street, Calcutta 7.
Chaitan Rolling Mills.—P-61, Golf Club Road, Tollygunge, Calcutta 33.
Hindusthan Iron & Steel Co.—6, Muktaram Road, Calcutta 7.
India Rolling Mills Ltd.—Stephen House, 4, Dalhousie Square East, Calcutta 1.

ROPERIES

Anadi Nath Manna.—62, Netaji Subhas Road, 2nd Floor, Calcutta 1.
Bengal Mercantile Co.—7, Swallow Lane, Calcutta 1.
Bengal Rope Mfg. Co.—63A, Radha Bazar Street, Calcutta 1.
Calcutta Rope Manufacturing Co. Ltd.—22, Raja Woodmunt Street, Calcutta 1.
Chatra Cottage Industrial Works Ltd.—12, Umakanto Sen Lane, Cossipore, Calcutta 2.

RUBBER GOODS MANUFACTURERS

Assam Bengal Rubber Works Ltd.—11, New Tangra Road, Calcutta 15.
Central Rubber Works Ltd.—20B, Tangra Road, Calcutta 15.
Dunlop Rubber Co. (India) Ltd.—"Dunlop House", 57B, Free School Street, Calcutta 16.
East India Rubber Works Ltd.—101, Chittaranjan Avenue, Calcutta 7.
Goodyear Tyre & Rubber Co. of India Ltd. -60, Chowringhee, Calcutta 20.

SAW MILLS & TIMBER MERCHANTS

Bengal Saw Mill & Plywood Co.—3A, Dr. Jagabandhy Lane, Bowbazar, Calcutta 12.
Bhagwandass Bagla Rai Bahadur.—67-22, Strand Road, Calcutta 7.
Commercial Timbers.—44-46, Canning Street, Calcutta 1.
Dear, H. & Co. Ltd.—Clive Buildings, Netaji Subhas Road, Calcutta 1.
East India Timber Co.—9, Netaji Subhas Road, Calcutta 1.

SCIENTIFIC AND SURGICAL APPARATUS AND INSTRUMENTS MANUFACTURERS

Alcock, W. J., & Co.—7, Hastings Street, Calcutta 1.
Allied Glass Industries.—33, Fakir Chakrabarty Lane, Calcutta 6.
Artico.—5, Dalhousie Square East, Calcutta 1.
Ashly & Co.—28, Strand Road, Calcutta 1.
Basmall & Co. (India) Ltd.—56D, Beadon Street, Calcutta 6.
Gordhandas Desai & Co.—P-7, Mission Row Extension, Calcutta 1. Phone : P.K.2012. Grams : "MICROSCOPY".
Scientific Glass Apparatus Co.—5-A, Prosonnokumar Tagore Street, Calcutta 6. Makers of Scientific and Medical Apparatus.

SEWING MACHINE MANUFACTURERS

Hind Sewing Machines Ltd.—14, Sircar Lane, Calcutta 7.
Joy Engineering Works Ltd.—183A, Prince Anwar Shah Road, Calcutta 31.
Mullick, K. C. & Sons Ltd.—77-13, Dharamtala Street, Calcutta 13.
Tara Sewing Machine Manufacturing Co. Ltd.—31, Halderpara Lane, Howrah.

SHIPBUILDERS AND REPAIRERS

East Bengal Engineering Works.—2, Rustomjee Parsee Road, Cossipore, Calcutta 2.
Herman, B. B., & Mohatta (India) Ltd.—19, British Indian Street, Calcutta 1.
I. G. N. & Rly. Co.'s Dockyard.—44, Gard[illegible] Reach, Calcutta 24.
Shalimar Works.—6, Lyons Range, Calcutt[illegible].

SHIPPING AGENTS

SCINDIA STEAM NAVIGATION CO., LTD.—(Established 1919 and incorporated in Bombay, India). Ship-Owners, Ship-builders, Ship-repairers. Head Office : "Scindia House", Dougall Road, Ballard Estate, Bombay 1. Calcutta Office : 33, Netaji Subhas Road, Post Box No. 2248, Calcutta 1. Manager : I. N. WANKAWALA, Esqr. Dy. Manager :—Commercial : K. B. Mehta, Esqr. Dy. Manager—Overseas : G. D. Ved, Esqr. Telephone Nos. 22-3842/3/4/5.

SILICATE OF SODA MANUFACTURERS

Calcutta Mineral Supply Co. Ltd.—31, Jackson Lane, Calcutta 1.
Raj Silicate & Chemical Co. Ltd.—26, Burtolla Street, Calcutta 7.
Shewbuxrai Rameshwarlall.—26, Burtolla Street, Calcutta 7.

SILK FILATURES AND MILLS

Aryan Silk & Cotton Mills Ltd.—12, Chowringhee Square, Calcutta 1.
Bengal Silk Mills Co. Ltd.—3, Amratolla Lane, Calcutta 1.
Calcutta Silk Manufacturing Co. Ltd.—37, Vivekananda Road, Calcutta 7.
Calcutta Silk Mills.—6, Narain Babu Lane, Calcutta 7.
India Silk & Textiles Ltd.—3 & 4, Hare Street, Calcutta 1.

SMALL TOOLS

Asiatic Manufacturing Co.—64A, Netaji Subhas Road, Calcutta 1.
Basmall & Co. (India) Ltd.—56D, Beadon Street, Calcutta 6.
Bengal Iron & Steel Works.—3, Canning Street, Calcutta 1.
Buhar & Co.—6 & 7, Netaji Subhas Road, Calcutta 1.
Diamond Metal Products Co.—82, Raja Woodmunt Street, Calcutta 1.

SOAP FACTORIES

Bagmari Soap Factory.—27, Bagmari Lane, Calcutta 11.
Banga Luxmi Soap Works Ltd.—11, Clive Row, Calcutta 1.
Behar & Orissa Soap Factory.—29, Raja Brojendra Street, Calcutta 7.
Bengal Soap Factory Ltd.—No. 11, Paikpara Road, P. O. Cossipore, Calcutta 2.
Chemical House (India) Ltd.—P. O. Dhakuria, Calcutta.
Godrej. Godrej Soaps Private Ltd.—23-A, Netaji Subhas Road, Calcutta.

SPRING MANUFACTURERS

Coventry Spring & Engineering Co. Ltd.—67B, Netaji Subhas Road (Room No. 64), Calcutta 1.
"A. C. A." Spring Mfg. Co.—34, Dr. Jagobondhu Lane, Calcutta 12.
All India Spring Manufacturing Co. (Regtd. Original Firm).—135, Netaji Subhas Road, Calcutta 1.
All India Spring Mfg. Co.—22, Strand Road, Calcutta 1.
Army Engineering Corporation.—42, Strand Road, Calcutta 7.
British India Spring & Steel Co.—67B, Netaji Subhas Road, Calcutta 1.

STARTERS & SWITCHGEAR

ASSOCIATED ELECTRICAL INDUSTRIES (INDIA) PRIVATE LTD.—Crown House, 6, Mission Row, Calcutta 1. (See Commercial firms in Calcutta).

STEAM ENGINES & TURBINES

MARSHALL, SONS & CO. (INDIA) LTD.—33/1, Netaji Subhas Road (P.O. Box No. 22), Calcutta. Phone : 22-4844 (3 lines). Grams : "ENGINE."

STEEL FURNITURE MANUFACTURERS

Acme Manufacturing Co.—8-1, Esplanade, East, Calcutta 1.
Bengal Iron Safe & Lock Works.—120, Sovabazar Street, Calcutta 5.
Bombay Safe & Steel Works.—39, Netaji Subhas Road, Calcutta 1.
Bungo Steel Furniture Ltd.—57, Diamond Harbour Road, Kidderpore, Calcutta 23.
East India Steel Works Ltd.—24, Netaji Subhas Road, Calcutta 1.

STONE BREAKERS

MARSHALL, SONS & CO. (INDIA) LTD.—33/1, Netaji Subhas Road (P.O. Box No. 22), Calcutta. Phone : 22-4844 (3 lines). Grams : "ENGINE."

SUGAR MERCHANTS

A. H. Bhiwandiwalla & Co., (Bombay) Private Ltd.—2, Doyehatta Street, Calcutta.
A. K. Noormohammed & Co.—59, Canning Street, Calcutta.
A. R. Osman & Co., (India) Private Ltd.—2, Rajmohan Street, Calcutta.
Ashok Chandra Rakhit Private Ltd.—26, Cotton Street, Calcutta.
Ashoka Marketing Ltd.—11, Clive Row, Calcutta.
B. L. Dey G. B. Nandy Private Ltd.—C/2, Jagernathghat Road, Calcutta.
Baid Bros. Private Ltd.—144, Cotton Street, Calcutta.
Banarsilall Mannalall.—Post Asansol, E. Railway.
Bayanwalla Bros. Private Ltd.—9, Ramkumar Rakhit Lane, Calcutta.
Biswanath Sreemany, Haripada Sreemany.—1, Meerbahar Ghat Street, Calcutta.
Chimanram Motilall.—7, Narain Babu Lane, Calcutta.
G. C. R. C. Taluqder & Co.—89, Burtolla Street, Calcutta.
G. N. K. C. Nandy.—P66/3, Strand Bank Road, Calcutta.
Hind Sugar Co. Ltd.—9, Ramkumar Rakhit Lane, Calcutta.
Hindusthan Dealers Ltd.—1, Doyehatta Street, Calcutta.
Hiralall Ramkumar.—195/1/1, Harrison Road, Calcutta.
Howrah Trading Co. Ltd.—8, Dalhousie Square (East), Calcutta.
J. N. Bhattacherjii.—3, Ramkumar Rakhit Lane, Calcutta.
Jaihind Investment Ltd.—9, Jagmohan Mullick Lane, Calcutta.
Jaluram Kundanmal.—9, Jagmohan Mullick Lane, Calcutta.
K. N. Bhattacherji & Co., (Industry) Private Ltd.—2/2, Orphanganj Govt. (India) Market, Kidderpore, Calcutta.
Karamchand Thapar & Bros. Ltd.—5, Royal Exchange Place, Calcutta.
Kartic Chandra Das.—P66/4, Strand Bank Road, Calcutta.
Matadin Khaitan & Co. Ltd.—9, Ramkumar Rakhit Lane, Calcutta.
Nafar Dulal Sreemany.—9, Ramkumar Rakhit Lane, Calcutta.
Panchanan Ash & Co.—2/B, Ramkumar Rakhit Lane, Calcutta.
Prabhat Dealers Ltd.—4, Ramkumar Rakhit Lane, Calcutta.
Produce Exchange Corporation Ltd.—5, Royal Exchange Place, Calcutta.
Raicharan Chail & Co.—152, Cotton Street, Calcutta.
Rajendra Company.—9, Ramkumar Rakhit Lane, Calcutta.
Ramniwas Marwari.—25, Orphanganj Road, Kidderpore, Calcutta.
Rashbehari Sreemany & Co.—4/1, Grand Trunk Road, Howrah.

S. C. P. B. Tapadar.—89, Burtolla Street, Calcutta.
Sadhan Chandra Sreemany Private Ltd.—3, Ramkumar Rakhit Lane, Calcutta.
Santosh Sugar Private Ltd.—5/1, Ramkumar Rakhit Lane, Calcutta.
Shewbux Satnarain.—30/31, Kalakar Street, Calcutta.
Shree Narayan Sugar Co.—2, Doyehatta Street, Calcutta.
Shree Shree Lakshminarayan Bhander.—4/5, Orphanganj Market, Kidderpore, Calcutta.
Shrinath Prasad Purshottamlal.—5, Ramkumar Rakhit Lane, Calcutta.
Sreeram Satnarain.—74, Cross Street, Calcutta.
Sugar Agents Ltd.—7, Ramkumar Rakhit Lane, Calcutta.
Sugar Traders.—4, Ramkumar Rakhit Lane, Calcutta.
Surajnarain Gopaldas.—9, Jagmohan Mullick Lane, Calcutta.
Surendralal Paul & Sons.—74A, Nalini Sett Road, Calcutta.
Swadeshi Sugar Suppliers Private Ltd.—4, Ramkumar Rakhit Lane, Calcutta.

TAILORS & OUTFITTERS

TREVILLION & CLARK.—8-A, Lindsay Street, Calcutta. H. O.: 21-B, Connaught Place, New Delhi; Drapers & Hosiers; Phone: 24-2464; Grams: "TREVCLARK" Incorporating Peeranchand & Sons, Mussoorie; Phone: 12 (Owners: Mohanlal Sons).

TANNERIES AND LEATHER GOODS MANUFACTORIES

Basak, P. & Co.—9, Chhidam Mody Lane, Calcutta 6.
Basak Sett & Co.—P18, Durga Charan Mitter Street, Calcutta 6.
Bata Shoe Co. Ltd.—30, Theatre Road, Calcutta 16.
Brand, S. B. & Co.—80, Pathuriaghat Street, Calcutta 6.
Calcutta Tanneries (1944) Ltd.—14, Netaji Subhas Road, Calcutta 1.

TAR PRODUCTS MANUFACTURERS

Mumtaz, H. & Co.—1, Colootola Street, Calcutta 1.
Shalimar Tar Products (1935) Ltd.—6, Lyons Range, Calcutta 1.

TEA BROKERS & MERCHANTS

FIGGIS, R. W., & CO., PRIVATE LTD.—D-6, Gillander House, Calcutta 1, Tea Brokers; Mg. Dirs.: E. F. Kingsley, R. J. S. Franks, N.P. Roy, D. K. Banerji; Dirs.: S. P. Roy and Sitaram Daga; Assts.: J. W. Bryans, F. R. J. Barker, R. K. Daga, D. P. Roy and J. K. Boroosh (Sign per pro); Correspondents: Ewart Maccaughey & Co., Ltd., London; Gow Wilson & Stanton Ltd., London; Forbes & Walker Ltd., Colombo; Forbes, Ewart & Figgis Private Ltd., Cochin; Code: Bentley's 2nd Phrase; Grams: "FIMARO" and "FILBET-JEN"; Phone: 22-1305 (5 lines); P. O. Box No. 228.

TEA MACHINERY

MARSHALL, SONS & CO. (INDIA) LTD.—33/1, Netaji Subhas Road (P.O. Box No. 22), Calcutta. Phone: 22-4944 (3 lines). Grams: "ENGINE."

TEXTILE MERCHANTS

Ahmedabad Mill Stores.—199,6 & 7, Mahatma Gandhi Road, Calcutta.
Ajitbhai Chunilal & Co.—38, Armenian Street, Calcutta.
Akhoy Chand Labh Chand.—72, Jumnalal Bajaj Street, Calcutta.
Asharam Rampratap.—14, Pageyapatti Street, Calcutta.
B. C. Sureka.—201, Mahatma Gandhi Road, Calcutta.
Banshidhar Jainarain.—15, Pageyapatti Street, Calcutta.
Banshidhar Satyanarayan.—32, Pageyapatti Street, Calcutta.
Basdeo Anandilal.—113-A, Manohardas Katra, Calcutta.
Bengal Cloth Stores.—P-31-A, Kalakar Street, Calcutta.
Bhairudas Purohit.—14, Noormal Lohia Lane, Calcutta.
Bhikhan Chand Ramputia.—113-B, Manohardas Katra, Calcutta.
Bijoykumar Ajoykumar.—201, Mahatma Gandhi Road, Calcutta.
Bishwanath Agarwala.—113, Manohardas Katra, Calcutta.
Bridhichand Hiralal.—13, Pageyapatti Street, Calcutta.
Brijratan Kedardass.—113-B, Manohardas Katra, Calcutta.
Calcutta Textile Co.—113, Manohardas Katra, Calcutta.
Chandratan Surajratan.—113, Manohardas Katra, Calcutta.
Chhabbai Champalal.—36, Jumnalal Bajaj Street, Calcutta.
Chhabbai Chunilal.—37/38, Armenian Street, Calcutta.
Chiranji Lal Kandoi.—17, Pageyapatti Street, Calcutta.
Cotton Mills Agency.—13, Pageyapatti Street, Calcutta.
Durga Prasad & Co.—208, Jumnalal Bajaj Street, Calcutta.
Dwarkadas & Co.—113, Manohardas Katra, Calcutta.
Fakirchandra Nandy, Jitendra Nath Nandy.—Calcutta.
Ganeshdass Narayandass.—55, Jumnalal Bajaj Street, Calcutta.
Gangabisan Bansilal.—16, Pageyapatti Street, Calcutta.
Gangaprasad Shivnarayan.—208, Mahatma Gandhi Road, Calcutta.
Giridharilall Hulaschand.—113, Manohardas Katra, Calcutta.
Hazarimal Baijnath.—113, Manohardas Katra, Calcutta.
Jagannath Jeetmal.—37, Armenian Street, Calcutta.
Jain Cloth Co.—74, Jumnalal Bajaj Street, Calcutta.
Jethmal Punanchand.—46, Jumnalal Bajaj Street, Calcutta.
Jiwaraj Heeralal & Co.—26/1, Armenian Street, Calcutta.
Joharmal Pugalia.—113-B, Manohardas Katra, Calcutta.
Kanhaiyalal Daga.—16, Pageyapatti Street, Calcutta.
Kanhaiyalal Phusaram.—203, Mahatma Gandhi Road, Calcutta.
Kanialal Ramkumar.—178, Mahatma Gandhi Road, Calcutta.
Kedarnath Brijmohan.—198, Jumnalal Bajaj Street, Calcutta.
Kedarnath Radhakishan.—113, Manohardas Katra, Calcutta.
Khetsidas Ramjidas.—178, Mahatma Gandhi Road, Calcutta.
Khoomchand Chunilall.—2, Raja Woodmunt Street, Calcutta.
Lakhi Prasad Harialka.—59, Jumnalal Bajaj Street, Calcutta.
Lodha Brothers.—16, Pageyapatti Street, Calcutta.
Madanlal Jhumjhunwala.—201, Mahatma Gandhi Road, Calcutta.
Maganlal Danlal.—113, Manohardas Katra, Calcutta.
Maganlal Popatlal.—59, Jumnalal Bajaj Street, Calcutta.
Manekchand Javerchand.—38, Armenian Street, Calcutta.
Mangalal Ramprasad.—201, Mahatma Gandhi Road, Calcutta.
Mangalchand Mohanlal.—13, Pageyapatti Street, Calcutta.
Mangilal Shah.—201, Mahatma Gandhi Road, Calcutta.
Meghraj Narsinghdass.—7, Pageyapatti Street, Calcutta.
Mohanlal Bhanulal.—201, Mahatma Gandhi Road, Calcutta.
Moolchand Mohanlal.—113, Manohardas Katra, Calcutta.
Motilal Mathuradas.—13, Pageyapatti Street, Calcutta.
Motiram Tulsiram.—201, Mahatma Gandhi Road, Calcutta.
Mukund Hosiery.—49, Burtolla Street, Calcutta.
Multanchand Harikishan.—13, Pageyapatti Street, Calcutta.
Murlidhar Srikishan.—201, Mahatma Gandhi Road, Calcutta.
Nathmal Ratankumar.—201, Mahatma Gandhi Road, Calcutta.
Oriental Yarns Co. Ltd.—178, Mahatma Gandhi Road, Calcutta.
Prabha Stores.—17, Pageyapatti Street, Calcutta.
Pratapchand Kothari.—113, Manohardas Katra, Calcutta.
Premratan Shivkumar.—P-9, Pageyapatti Street, Calcutta.
Puranchand Ramchand.—16, Pageyapatti Street, Calcutta.
Purshottamdas Badridas.—16, Pageyapatti Street, Calcutta.
Radharani Stores.—201-B, Mahatma Gandhi Road, Calcutta.
Ram Gobind Krishna Dutt.—160, Mahatma Gandhi Road, Calcutta.
Ramdeo Madanlal—17, Pageyapatti Street, Calcutta.
Ramprasad Gangaprasad.—113, Manohardas Katra, Calcutta.
Ratilal Kajadia & Co.—89, Jumnalal Bajaj Street, Calcutta.
S. Chatterjee & Co.—37, Armenian Street, Calcutta.
Samwarmal Shivprasad.—19, Noormal Lohia Lane, Calcutta.
Santokchand Sohanlall.—46, Jumnalal Bajaj Street, Calcutta.
Satyanarain Sewratan.—16, Pageyapatti Street, Calcutta.
Satyanarayan Hanumanprasad & Co.—160, Jumnalall Bajaj Street, Calcutta.
Sawairam Ratanlal.—201, Mahatma Gandhi Road, Calcutta.
Shree Kishandas Sitaram.—72, Manohardas Street, Calcutta.
Subhakaran Keshardeo.—17, Noormal Lohia Lane, Calcutta.
Sudarshan & Co.—14, Noormal Lohia Lane, Calcutta.
Surajmal Purshottamdas.—118, Jumnalal Bajaj Street, Calcutta.
Surendra Nath Dutta & Co. Ltd.—113, Manohardas Katra, Calcutta.
Uma Textiles.—113, Manohardas Katra, Calcutta.

TIN BOX MANUFACTURERS

THE METAL BOX COMPANY OF INDIA LIMITED.—Head Office: Barlow House, 33C, Chowringhee Road, Calcutta 20. Sales Office and Factory at 32, Hide Road, Kidderpore. Technical Development Section and Research Laboratory at 92, Alipore Road. Branches: Factory and Sales Office at 249, Worli Road, Bombay 18, Post Box No. 544, Bombay 1. Factory and Sales Office at Elaiya Mudali Street, Tondiarpet, Madras 21. Factory at Jeppe, Mangalore; Sales Office at Hamilton House, Connaught Place, New Delhi. Factory at Nasiwala Bagh, Asadpur, Delhi. Specialists in tinprinting and the production of Open Top cans for processed foodstuffs and plain and lithographed General Line tinplate containers; Composites; Collapsible and Rigid Tubes; Polyethylene Bags; Calendars, Advertising Showcards and Novelties; Insecticide Sprayers; Trays, Toys and other Hardware; Crown Corks, Screw Caps, Pilferproof and other Closures; Industrial Components, particularly deep stampings. Manufacturers of Can and Bottle Closing Equipment. Suppliers of Can Reforming and Can and Bottle Closing Equipment manufactured by The Metal Box Company Limited, and Bottling Equipment manufactured by Meyer Liquid Limited.

TIN CANISTER MANUFACTURERS AND TIN PRINTERS

Associated Metal Industries of India Ltd.—16, Mango Lane, Calcutta 1.
Bengal Tin Box Mfg. Co. Ltd.—1, Jadunath Mitter Lane, Calcutta 4.
Calcutta Tin Factory.—14-4, Nilmoni Bakery Mullick Road, Calcutta 6.
Dhar Tin Factory.—101, Ashkoy Mukherjee Road, P. O. Barnagore, Calcutta.
Ganga Tin Factory.—8, Raja Rajkissen Street, Calcutta 6.

TOBACCO DEALERS & MANUFACTURERS

Abinash Chunder Dutt & Co.—89, Nimtolla Ghat Street, Calcutta 6.
Bengal Tobacco Manufactory.—282, Upper Chitpore Road, Calcutta 5.
D. Macropolo & Co. Ltd.—11, Old Court House Street, Calcutta 1. Phone : 23-3103.
National Tobacco Co. of India Ltd.—Norton Buildings, 1 & 2, Old Court House Corner, Calcutta 1.

TOY MANUFACTURERS & DEALERS

Bengal Toy Industries.—22, Canning Street, Calcutta 1.
Davco Products Ltd.—P31, Mission Row Extension, Calcutta 1.
Dey, G. C., & Co.—4, Raja Radha Kanta Deb Lane, Calcutta 5.
Ideal Toys & Aircraft Co.—54A, Paikpara Row, Calcutta 37.
INDIA'S HOBBY CENTRE.—1-A, Russel Street, Calcutta 16. The Largest and Finest Toy Shop. Dealers in Model Aircraft and Boats ; Mechanical Toys, Educational Toys, Tropical Fish, Aquaria and Accessories, Birds, etc.

TRACTORS

MARSHALL, SONS & CO. (INDIA) LTD.—33/1, Netaji Subhas Road (P.O. Box No. 22), Calcutta. Phone: 22-4844 (3 lines). Grams : "ENGINE."

TRANSFORMERS

ASSOCIATED ELECTRICAL INDUSTRIES (INDIA) PRIVATE LTD.—Crown House, 6, Mission Row, Calcutta 1. (See Commercial firms in Calcutta).

TRAVEL AGENTS

Indian Air Travels Ltd.—6,3, Marian Street, Calcutta 13.
Jeena & Co.—Great Eastern Hotel, 29, Waterloo Street, Calcutta 1.
ORIENT EXPRESS CO. PRIVATE LTD., THE.—Norton Buildings, 1 & 2 Old Court House Corner, Calcutta 1. Phones: 22-1911 & 22-1358. Grams : "OREXPRESCO".

VEGETABLE PRODUCTS MANUFACTURERS

Hindusthan Development Corporation Ltd.—4, Chittaranjan Avenue, Calcutta 13.
Hindusthan Vegetable Products Ltd.—47, Zakariah Street, Calcutta 7
Kusum Products Ltd.—23/24, Radha Bazar Street, Calcutta 1.
Sisir Oil Industries Ltd.—242-2, Upper Circular Road, Calcutta 4.
Snow White Food Product Co. Ltd.—18, Netaji Subhas Road, Calcutta 1.

VICE MANUFACTURERS

India Machinery Co. Ltd.—29, Strand Road, Calcutta 1.
Indian Supercraft Industries.—21A, Canning Street, Calcutta 1.
International Mechanical & Electrical Works.—5, Braunfield Row, Alipore, Calcutta 27.
Leslie, W., & Co.—B3, Clive Buildings, Netaji Subhas Road, Calcutta 1.

WATERPROOFING AND DYEING WORKS

Bengal Fast Colour Dye Works.—59, Cross Street, Barabazar, Calcutta 7.
Bengal Waterproof Works (1940) Ltd.—32, Theatre Road, Calcutta 16.
Hindusthan Rubber Works Ltd.—243-1, Kasba Road, Calcutta 31.
India Waterproofing & Dyeing Works.—60-2, Dharamtala Street, Calcutta 13.
Ras Behary Dey & Sons.—82, Old China Bazar Street, Calcutta 1.

WEIGHING MACHINE, WEIGHT AND SCALE MANUFACTURERS

Avery Co. Ltd.—"Avery House," Waterloo Street, Calcutta 1.
Barnagore Scale Manufacturing Co.—21, Bhola Nath Street, Barnagore, Calcutta 36.
Bhupendranath Das Brothers.—84A, Netaji Subhas Road, Calcutta 1.
Dhara, M. C., Engineering Works.—38, Kamarpara Lane, Barnagore, Calcutta 36.
Girish Chandra Ghosh (Estd. 1874).—58, Netaji Subhas Road, Barabazar, Calcutta 7.

WELDERS (ELECTRIC & GAS)

ASSOCIATED ELECTRICAL INDUSTRIES (INDIA) PRIVATE LTD.—Crown House, 6, Mission Row, Calcutta 1. (See Commercial firms in Calcutta).

WELDING SETS

ASSOCIATED ELECTRICAL INDUSTRIES (INDIA) PRIVATE LTD.—Crown House, 6, Mission Row, Calcutta 1. (See Commercial firms in Calcutta).

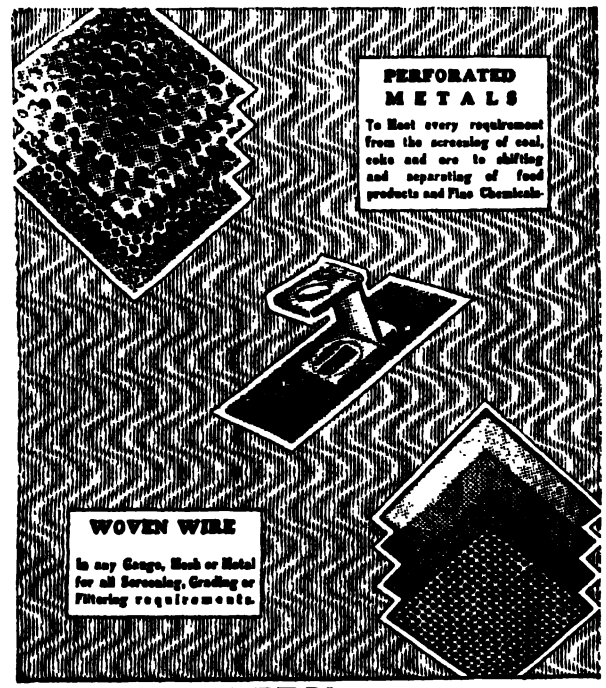
WINE & SPIRIT MERCHANTS

Empire Stores, The.—60/C, Chowringhee Road, Calcutta.
Esplanade Wine Stores.—7, Esplanade East, Calcutta. Phone: 23/1629.
Republic Stores.—13-B, Chittaranjan Avenue, Calcutta 13.

WIRE DRAWING MACHINERY

MARSHALL, SONS & CO. (INDIA) LTD.—33/1, Netaji Subhas Road (P.O. Box No. 22), Calcutta. Phone: 22-4844 (3 lines). Grams: "ENGINE".

WIRE PRODUCTS MANUFACTURERS & DEALERS



STANDARD METAL Company
HARDWARE AND MILL STORES
101, NETAJI SUBHAS ROAD, CALCUTTA-1
Props.: **B. C. Guin & Co., Private Ltd.**

WOODWORKING MACHINES

Jayems Engineering Co.—22, Brabourne Road, Calcutta. Phone: 6711.
MARSHALL, SONS & CO. (INDIA) LTD.—33/1, Netaji Subhas Road (P.O. Box No. 22), Calcutta. Phone: 22-4844 (3 lines). Grams : "ENGINE."

PONDICHERRY STATE

Area : 174·37 sq. miles ; Pop. : 317,253.

Capital : Pondicherry.

Chief Commissioner : L. R. S. Singh.

The State of Pondicherry consists of :

(1) On the Coromandel Coast : (*a*) Pondicherry, the capital, together with the adjoining territory, divided into 8 communes, (*b*) Karikal and the dependent districts divided into 6 communes ;

(2) On the coast of Andhra : Yanam, with the dependent villages ;

(3) On the Malabar Coast : Mahé with the adjoining territory.

De facto transfer of these former French possessions to India took place on November 1, 1954 following an agreement between the Government of India and the Government of France. The instrument of transfer was signed in Pondicherry on November 1, 1954 by Mr. Kewal Singh on behalf of India and Mr. Pierre Landy representing France.

A treaty for the *de jure* transfer to India of the French establishments was signed on 28th May, 1956 by Mr. Nehru, as Minister for External Affairs and the French Ambassador in India Count Ostrorog. The treaty is awaiting ratification by the French Assembly.

The first general elections after the *de facto* transfer were held in July 1955 on a basis of universal adult franchise for the 39 seats in the State Representative Assembly and 200 in the 16 Municipal Councils. On an average, more than 85 per cent of the voters voted.

The Municipal Administration in the State is carried on by the Municipal Councils, one in each of the sixteen communes.

The State is directly administered by the Government of India on the pattern of a Union Territory, through a Chief Commissioner nominated by them. There is an advisory body called "the Conseil du Gouvernement" consisting of six elected Councillors roughly corresponding to Cabinet of Ministers in the other States of India. The Chief Commissioner is assisted in the day-to-day administration of the State by a Chief Secretary, five Secretaries and the Inspector-General of Police.

Chandernagore in West Bengal was the first French India possession to become *de jure* a part of the Indian Union after the treaty for its cession was signed in Paris in 1951 by the representatives of the two Governments. The Treaty was ratified by the French Assembly on April 11, 1952.

ECONOMY

Main Food Crops : Paddy, Ragi, Cumbu, Varagu, Thenai.

Main Cash Crops : Groundnut, Coconut, Gingelly, Chillies, Cotton, Tobacco and Pepper.

Total production of Food Crops (annual average) : 32,000 Tons.

Production of individual food crops in tons (annual average) : Paddy 28,571 ; Ragi 2,277 ; Cumbu 893 ; Varagu 357 ; Thenai 357.

Production of individual cash crops in tons (annual average) : Groundnut 4,018; Gingelly 268.

	Acres
Total area of State	111,596
Total area (net) cultivated ..	85,200
Total area under wet land cultivation	57,539
Total area under Food Crops ..	66,000
Total area under Cash Crops ..	15,900
Area under Forest	996
Total area irrigated	57,539

(By tanks and channels—18,500 acres, by Cauvery irrigation system—25,000 acres, rest—14,039).

Main large scale industries of State with location in brackets :

Anglo-French Textiles Ltd. (Pondicherry Town) ; Swadeshi Cotton Mills Ltd. (Pondicherry Town) ; Sri Barathi Mills S. A. (Pondicherry Town).

The cotton mills have about 2,000 looms and 86,000 spindles.

Main cottage industries and their annual production valued in Rs. :

Foundries (12,000), oil presses (30,000), toy making (5,000), Soap making (12,000), handmade matches (3,00,000), aerated waters (7,00,000), oil mills (10,00,000), biscuit (3,00,000) hand looms (20,000), cashew (5,000).

Total number of workers in cottage industries : about 1,000.

Minimum wages are not fixed in any industry.

The average monthly earnings will be about Rs. 70.

About 200 houses have been built under the Industrial Housing Scheme.

The Central Government sanctioned an estimate of Rs. 5 4 lakhs for the construction of a Housing Colony ; 200 houses have been constructed. The cost of each tenement comes to about Rs. 2,365. The Central Government have agreed to let the houses to the workers at a concessional rent of Rs. 7-8-0 per month per house.

An Industrial Housing (Allotment) Committee has been formed for the allotment of houses.

Total capacity of power plant installed in State : 5,424 kW.

Total effective capacity : 3,894 kW.

About 1,600 kW of power is also purchased from the Mettur System of the Madras State.

Total production during the year 1956 : 88 78 lakh units. This includes 36 34 lakh units purchased from the Mettur System, Madras State.

Total road mileage : 292

Mileage of metal roads : 167·5

Mileage of unmetalled roads : 124·5

Total mileage of railway : 22.

There are no waterways or aerodromes in the State.

The original outlay under the Second Five-Year Plan of Pondicherry was Rs 476·5 lakhs. Of this amount, social services accounted for about 45 per cent, irrigation and power about 17 per cent, transport about 14·4 per cent, agriculture and allied subjects about 14 per cent, and village and small industries about 4 per cent The proposals for the 1958-59 plan amounted to Rs. 99·10 lakhs.

EDUCATION

Total number of Primary Schools : 227 (33 for girls) ; Total number of Teachers : 718 ; Enrolment : Boys 12,500 ; Girls 8,000.

Total number of Secondary Schools : 20 (6 for girls) ; Total number of Teachers : 80 ; Enrolment : Boys 2,100 ; Girls 860.

There are 16 Secondary Schools with primary classes (10 for boys and 6 for girls) and four without primary classes. Besides, there are two colleges with primary classes.

Number of Arts & Science Colleges : Nil. Professional Colleges : One Law School and one Medical College.

In the Law School there are 19 students (boys only). In the Medical College there are 13 boys and 4 girls.

There is also a School of Arts and Crafts with 58 boys.

Number of Teachers' Training Centres : one (for men & women) ; Number of Trainees : 30

Apart from the activities of the Social Education Organisers and the Social Workers who work respectively under the Block Development Officer and the State Social Welfare Board no Social Education as such has been introduced in this State specially in Government Schools.

Education (elementary and secondary) is free in the following schools : French, English and Regional language Primary Schools ; French and Regional Language Secondary Schools.

Compulsory Education has not been introduced in this State.

Position in relation to co-operation as on 31st Dec. 1957 :

Total number of Co-operative Societies	61
Total membership	8,726
Total Working Capital .	Rs 7,92,780

PONDICHERRY

Area . 113·42 sq miles , Population 222,566.

Pondicherry is the chief of the former French settlements in India and its capital is the seat of the Government The town is an enclave in the district of South Arcot in Madras State, about 89 miles from Madras.

There is no harbour, but only a roadstead which is the best on the entire coast Ships lie at a distance from the shore and contact with land is maintained by means of the usual *masula* boats peculiar to this part of South India

Since November 1, 1954 sea customs have been introduced in Pondicherry and a new department has been created under a Collector of Customs.

KARIKAL

Karikal is an enclave in the Tanjore District and consists of a single tract of territory stretching along the east coast between Tranquebar and Nagore. It is at a distance of 90 miles from Pondicherry It covers an area of 52·18 sq miles and is divided into 6 communes containing 110 villages. The establishment has a population of 70,541, according to the 1948 census. Karikal is the terminus of a line from Peralam on the Tanjore District Railway.

YANAM

The town is situated in the delta of the Godavari covering an area of 5·52 square miles and is an enclave of the District of East Godavari in Andhra State. The soil is fertile and supports a population of 5,853.

MAHÉ

The territory of Mahé on the west coast consists of the town of Mahé on the left bank of the river of the same name ; and the isolated district of Nalutharra on the right bank containing the 4 villages of Chambara, Chalakara, Palour and Pandaquel. It is an enclave in the District of Cannanore in Kerala State, and covers an area of 3·25 sq. miles

The present population is estimated at 18,293. Rice is grown where water is plentiful.

INDIAN TERRITORY UNDER PORTUGUESE OCCUPATION

Area: 1,537 sq. miles; Pop.: 637,591 (1950 Census); Capital: Cidade de Goa (Panjim).

The Hindu population is estimated at 388,488 and the Christian at 234,275. There are 14,162 Muslims and 1,079 Europeans and Eurasians.

ADMINISTRATIVE OFFICIALS

Governor-General, General Paulo Benard Guedes, who is also Commander-in-Chief.

Military Commander, Gen. Rodriques Pacheco.

Elected Members of the Governor's Council (Conselho do Governo), Vitola Visnum Sinai Dempó; Dr. Domingos Roque Souza; Amadeu Prazeres da Costa, Rev. Father Castilho Noronha; Quenin.

The last two have been appointed Deputies in the Portuguese National Assembly of Lisbon. They represent Portuguese India.

Governor of Diu, Capt. Palva Conceiro.

H. E. the Patriarch of East Indies, D. Jose Alvernas.

Indian territory under Portuguese rule is made up of: Goa, Daman, Diu.

All the three territories are situated practically within the area covered by Bombay State. Goa is on the Konkan Coast; Daman, lies on the Gujarat coast at the entrance to the Gulf of Cambay; and Diu is a tiny islet and along with the isolated spots, Gogola and Simbor lies on the southern fringe of the Kathiawad peninsula

The enclaves of Dadra and Nagar Haveli, which formed part of Daman, have been taken over by Goan nationalists who have set up their own administration.

GOVERNMENT

The Governor-General is the head of the administration and is stationed in the capital Cidade de Goa formerly known as Nova-Goa and also Panjim.

Associated in the task of government is the *Conselho do Governo* possessing restricted legislative and advisory powers. The Governor-General is its *ex-officio* president.

Daman and Diu have each a District Governor.

In each district there is a District Council for the supervision of the various municipalities and other local bodies in its jurisdiction. For administrative purposes the district is divided into *Concelhos*, each *Concelho* being in the charge of an official styled the *Administrador*, and for judicial purposes it is divided into circuits or *Comarcas* each having its own court of original jurisdiction.

An appeal lies from the decisions of these courts to the *Tribunal da Relacao* or High Court sitting in the capital and side by side with the latter there is also a *Tribunal Administrative* to dispense justice under *droit administratif*.

A striking feature of the rural administration is the continuance of the ancient Indian institution of the village community. In places where resistance to Portuguese domination has continued almost to our own day, as in the southern communes of Goa, Assolna, Cuncolim and Vellm, the village communities were suppressed and their estates confiscated by the Government.

The village community is an autonomous institution, socialist in its organisation under which land is held in common by the original settlers of the village here called the *Gaunkares*, thus preventing concentration of land in the hands of a few and promoting a rough equality, while preventing the domination by a privileged few. The management is vested in a committee elected by the constituents.

The advent of Dr. Oliveira Salazar to power and the establishment of his *Estado Novo* led to increasing centralisation in the administration of Portuguese India. All measures of importance are now initiated by and carry the sanction of the home government in Lisbon. The Governor's Council, *Conselho do Governo* which assists him, is shorn of what little legislative powers it formerly possessed. There are no elected municipalities and local boards in the villages. Each municipality is in charge of an administrative committee nominated by the Governor-General, who also appoints the presidents of all charitable and cultural associations in the country.

A stringent censorship controls the freedom of the press, and every article, book or pamphlet has to be submitted to the board of censors before it appears in print. Infringements of the press laws are severely dealt with and newspapers are required to keep security deposits with the Government before being licensed for publication.

Freedom of association is likewise controlled. No public meeting or assembly, be its purpose ever so innocuous, may be convened without previous permission of the authorities, and every intended talk and speech must bear the censor's visa.

COMMERCE AND INDUSTRIES

The chief agricultural products of Goa are rice, coconuts, cashew-nuts, betel-nuts, mangoes, and sugar-cane. Of these cashew-nuts, betel-nuts, coconuts and mangoes which were exported in considerable quantities to the Indian Union, have been banned by the Government of India. The rice grown is not sufficient for local consumption and lasts for only four months in a year. For the remaining eight months rice is imported from Pakistan, Mozambique (Portuguese East Africa) and Brazil. Other exports include copra, bamboos, salt, salt-fish and manganese and iron ore, the exports of which have enabled the Goa Government to earn foreign exchange, specially in dollars, enough to finance all its imports. The imports consist of rice, textiles and other manufactured goods.

Owing to controls imposed by the Indian Union, trade and commerce between Portuguese possessions and India are at a standstill and the economy of these pockets is deteriorating from day to day. Prices of local products like paddy and coconuts have slumped. Those of articles imported from India have correspondingly rocketted. The tourist traffic, which put as much as Rs. 5 lakhs each month into the pockets of local traders, is non-existent with Portuguese Customs revenues down to a tenth of what they were before. To add to the miseries of the people, the Portuguese and African troops, which are regularly being reinforced, take away most of the available stocks of vegetables and meat. The local population is at the mercy of black marketeers.

There are no banks operating in Portuguese territory with the exception of the Banco Nacional Ultramarino which has offices in the major towns. No Indian bank can open branches in Goa as the Banco Nacional has a monopoly. The Indian Government in its turn compelled the Portuguese Bank to close its branch in Bombay because Indian banks were not allowed to do business in Goa.

A railway line maintained and run by the West of India Portuguese Guaranteed Railway, once a subsidiary of the former Madras and Southern Mahratta Railway, joins the port of Marmugao with the junction of Londa on the Southern Railway. It fulfilled a very important role by providing an outlet to the sea for the products of this part of the Mahratta country.

The Southern Railway which administered the railways in Goa on behalf of the W.I.P.R. did not renew the contract at the end of Dec. 1955 with the result that Goa has now no rail link with India. Most of the staff of the Southern Railway in Goa opted for service in India. But shuttle services inside Goa were maintained by Goan authorities.

The air service between Goa, Daman and Diu has been resumed after making adjustments in the route. The Portuguese maintain that they do not violate Indian air space by following the new route.

There is a bi-weekly air service between Marmugao and Karachi.

Marmugao, which is the chief port, is also geographically one of the major ports on the west coast of India and is open to ocean-going vessels of every size from all parts of the world. But, as we have mentioned, there is neither trade nor communication between India and the Portuguese-held territory. But ships from Japan, America and Europe call at Marmugao to take cargo of iron ore and manganese, which are the chief exports of Goa.

There is now no restriction in the matter of travel between India and Goa for Goan citizens. A traveller can take Rs. 50 into Goa or bring Rs. 50 with him. But restriction on trade continues. Indians have to take a visa from the Brazilian Consulate for travel to Goa.

The restriction on Goan citizens about travel between India and Goa was removed on April 3, 1958.

EDUCATION AND CULTURE

Primary education is free and compulsory in schools maintained by the State of which there is at least one in every village. There are at present over 200 primary schools controlled and administered by a Board of Primary Education, *Conselho da Instrucao Primaria* with offices in the capital.

In Cidade de Goa there is a Lyceum for the study of Portuguese, a Teachers' Training School, and a Medical School.

A Theological Seminary trains young men for the priesthood at Rachol.

Over and above these, there are a number of English teaching High Schools run by private enterprise and by religious orders preparing students for the S.S.C. examination of the Bombay Government and the Entrance Examination of the University of Bombay.

The *Bibliotheca Nacional* houses what is perhaps one of the best libraries of rare books and manuscripts on the west coast of India while the *Arquivo* contain an inexhaustible wealth of hitherto unexplored historical material.

DAMAN

Daman in Gujarat has a total area of about 33 square miles and a population of some 21,000 inhabitants, mostly of Gujarati extraction.

It is easily reached from Bombay by the Western Railway: 4½ hours' journey.

There are some very interesting historical relics here such as the old fort and a few surviving churches reminiscent of the old times.

DIU

About 150 miles to the north-west of Daman lies the tiny islet of Diu off the southern coast of Kathiawad. It is a small town separated from the mainland by a narrow arm of the sea. Dependent on it and surrounded by the territory of Junagadh is the enclave of Gogola and also the island and fort of Pani Cota in the bay of Simbor.

Diu is reached from Bombay by the Western Railway *via* Viramgam and Delwada. Access by sea is easier and more rapid but there is no harbour. There is an excellent roadstead where ships can safely anchor in two fathoms of water.

Area: 413 sq. miles. The population is estimated at 19,731.

PRO-MERGER MOVEMENT

With the merger of French territory in India, the pro-merger movement in the Portuguese pockets was intensified by the people of Goa, Daman and Diu. The Portuguese Government adopted severe repressive measures to put down this agitation with the result that over 3,000 Goan Satyagrahis were arrested and put in Goa jails and were always in danger of being deported to Mozambique. Many Goan nationalist leaders have now fled from Goa and have taken refuge in Belgaum and Bombay.

Indian Satyagrahis, who were sentenced by the Portuguese military tribunal to various terms of imprisonment in 1955, were released by the Lisbon Government. About 35 of them returned to India in February 1957.

It is now reckoned that there are only about six or seven Indian prisoners in Goan jails.

The Goa Action Committee, which is composed of all Goan parties in Bombay, has appointed an administrator, Dr. Antonio Furtado, to administer the liberated areas of Nagar Haveli and Dadra. These enclaves are situated near Daman.

A Rs. 32-lakh development plan has been prepared for the 191-square-mile enclave of Nagar Haveli. Among the construction activities included in the plan are three bridges over the two rivers, costing Rs. 10 lakhs, 75 miles of roads, schools and village water system.

Handmade paper industry, catechu (Ratia used in pan) manufacture, tanneries and tile and brick factories, a public library and a maternity home have also been constructed. Over 3,000 students are now attending schools, on which the administration spends about Rs. 88,000. Spinning and carpentry are taught in the schools.

A model cottage hospital, a veterinary dispensary and four dispensaries have started functioning.

In December 1956 Portugal filed a claim before the World Court at the Hague to a right of passage to the two Portuguese enclaves.

India contested the jurisdiction of the World Court.

The case came up for hearing at the World Court in November 1957. Four of India's six preliminary objections were rejected by a majority vote of the Court. The court deferred its ruling on the remaining two points, and declared that they would be linked with the dispute itself which would be judged on its merits.

The Court invited the two parties to file written statements and fixed a time limit for the purpose—Feb. 25, 1958 for the Indian counter-memorial, May 25, 1958 for Portugal's reply and July 25, 1958 for India's rejoinder. An extra month was given and India filed her counter-memorial on March 25, 1958.

The two Indian objections on which the Court was still to give a ruling were that the right of passage fell exclusively within Indian jurisdiction and that the dispute arose before 1930 when India was not independent and could not therefore have accepted the jurisdiction of the Permanent Court of Justice at the Hague, the predecessor of the present International Court of Justice.

According to present arrangement the case is to be heard towards the end of 1958.

ANDHRA PRADESH

Capital: Hyderabad.
Area: 1,05,963 sq. miles; Population: 3,12,60,183 (1951).
No. of Districts: 20.
No. of talukas: 183.

The total number of District Boards in the State: 20. The number of Municipal Corporations: 2. The number of City and Town Municipalities in Telangana: 79; Municipal Councils in Andhra: 36; number of Panchayats in Telangana: 1,057; number of towns and cities in the State: 293; number of villages in the State: 26,450.

The total national income of the State for 1955-56 is estimated to be Rs. 823·10 crores.
Strength of legislature (Legislative Assembly): 301.

The strength of the Legislative Council: 90.

No. of members from Andhra Pradesh to the Rajya Sabha: 18.

No. of members from Andhra Pradesh to the Lok Sabha: 43.

Regional Committee: A Regional Committee for the Telangana area called the Telangana Regional Committee was constituted at Hyderabad on March 31, 1958 in accordance with the provisions in the States Reorganisation Act by an order of the President of the Indian Union in February 1958. All the 105 members elected from the Telangana region to the State Legislative Assembly are members of the Regional Committee.

The Committee advises the State Government on all matters pertaining to the Telangana region. The Government is normally expected to undertake measures or introduce reforms and other legislative measures in consultation with this committee. The Telangana region comprises nine districts of the former Hyderabad State, namely Adilabad, Nizamabad, Karimnagar, Medak, Warangal, Hyderabad, Nalgonda, Khammam and Mahbubnagar.

There is no regional committee for the Andhra region of the State.

Chairman, Regional Committee, K. Achuta Reddy.

Madras-Andhra Border Dispute: The Pataskar report on the Madras-Andhra border recommended the transfer of parts of Chingleput and Salem Districts to Andhra and a part of Chittoor District including the Taluks of Tiruttani to Madras.

DISTRICTS

Districts with District headquarters in brackets:
Anantapur (Anantapur), Chittoor (Chittoor), Cuddappah (Cuddappah), East Godavari (Kakinada), Guntur (Guntur), Krishna (Masulipatnam), Kurnool (Kurnool), Nellore (Nellore), Srikakulam (Srikakulam), Vishakapatnam (Vishakapatnam), West Godavari (Eluru), Hyderabad (Hyderabad), Mahboobnagar (Mahboobnagar), Warangal (Warangal), Khammam (Khammam), Karimnagar (Karimnagar), Adilabad (Adilabad), Nizamabad (Nizamabad), Medak (Sangareddy), Nalgonda (Nalgonda).

TALUKAS

Names of districts showing within brackets the talukas in each district.

Vishakapatnam District (Narsipatnam, Ellamanchili, Anakapalli, Vishakapatnam, Srungavarapukota, Vijayanagaram, Bhimunipatnam, Chodavaram and Chintapalli).

Srikakulam District (Tekkali, Sompeta, Ichchapuram, Srikakulam, Patapatnam, Narasannapeta, Bobbili, Parvatipuram, Palakonda, Salur and Chipurupalli).

East Godavari District (Rajahmundry, Ramachandrapuram, Rajole, Kakinada, Tuni, Bhadrachalam, Amalapuram, Peddapuram, Pithapuram, Rampa Chodavaram, Yellavaram, Nagur and Kothapeta).

West Godavari District (Bhimavaram, Tadepalligudem, Eluru, Kovvur, Polavaram, Narsapuram, Chintalapudi and Tanuku).

Krishna District (Masulipatnam, Vijayawada, Nuzvid, Nandigama, Kaikalur, Gudivada, Divi, Jaggayyapeta, Gannavaram and Tiruvur).

Guntur District (Guntur, Ongole, Bapatla, Tenali, Repalle, Narsaraopet, Palnad, Vinukonda and Sattenapalli).

Nellore District (Gudur, Kavali, Kovur, Nellore, Udayagiri, Kanigiri, Rapur, Atmakur, Kandukur, Darsi, Sullurupet, Podili and Venkatagiri).

Chittoor District (Chittoor, Madanapalli, Vayalpad, Kalahasti, Punjanur, Tiruttani, Palamneru, Chandragiri, and Putloor).

Cuddappah District (Cuddappah, Proddutur, Rajampet, Jammalamadugu, Pulivendla, Badwel Rayachoti, Siddhavattam and Kamalapuram).

Kurnool District (Kurnool, Dronachalam, Nandyal, Pattikonda, Nandikotkur, Siruvella, Kambam, Markapuram, Koilkuntla, Banganapalli, Adoni and Alloor).

Anantapur District (Anantapur, Madakasira, Kadiri, Gooty, Hindupur, Penugonda, Kalyanadurg, Dharmavaram, Tadipatri, Rayadurg and Uravakonda).

Hyderabad District (Hyderabad West, Hyderabad East, Shahabad, Medchal, Ibrahimpatam, Tandur and Vikarabad).

Mahbubnagar District (Mahbubnagar, Wanaparti, Atmakoor, Makhtal, Pargi, Shadnagar, Kalvakurti, Achampet, Nagarkurnool, Kollapur, Gadwal, Alampur and Kodangal).

Warangal District (Warangal, Pakhal, Mulug, Mahboobabad, Parkal and Jangaon).

Khammam District (Khammam, Madhira, Yellandu, Burgampahad and Palvancha).

Karimnagar District (Karimnagar, Sirsilla, Metpally, Jagtial, Sultanabad, Mahdevpur and Huzurabad).

Adilabad District (Adilabad, Utnoor, Khanapur, Nirmal, Boath, Chinnoor, Sirpur, Laksettipet and Asifabad).

Nizamabad District (Nizamabad, Kamareddy, Yellareddy, Banswada, Bodhan and Armoor).

Medak District (Sangareddy, Andole, Medak, Siddipet, Gajwel, Narsapur, Zaheerabad and Narayankhed.).

Nalgonda District (Nalgonda, Miryalguda, Deverkonda, Ramannapet, Bhongir, Suryapet and Huzurnagar).

A white paper published in Nov 1957 envisages the abolition of District Boards and the formation of block and District Councils.

POPULATION

Population of districts based on 1951 census: Anantapur 1,483,591; Chittoor 1,810,377; Cuddappah 1,161,731; Godavari East 2,414,808; Godavari West 1,697,727; Guntur 2,549,996; Krishna 1,779,484; Kurnool 1,618,621; Nellore 1,795,632; Srikakulam 2,123,136; Karimnagar 1,428,168; Warangal 1,325,984; Nalgonda 1,252,810; Khammam 700,006; Hyderabad 1,511,336; Mahbubnagar 1,536,337; Adilabad 902,522; Nizamabad 773,158; Medak 1,245,265; Vishakapatnam 2,072,698.

GEOGRAPHY

The shape of Andhra Pradesh is rather curious. A short neck with protruding belly would be an apt description. It has a chain of mountains, the Eastern Ghats, running over its entire length on the eastern and northern borders.

In the far north too the country is hilly.

There are huge forest areas in Srikakulam, Vishakapatnam, Godavari, Kurnool, Warangal and Adilabad Districts.

The landscape is varied and rich. It ranges from the smiling ever-green plains of the Godavari and Krishna deltas, the rocky drought-stricken plateau of Rayalaseema, the undulating uplands of Northern Circars to the flat sandy downs in Nellore and Guntur.

The climate is warm and humid or hot and humid according to the season.

The average annual rainfall is highest in the north varying between 45 inches and 50 inches. It gradually decreases to the south and south-west down to about 20 inches.

Two-thirds of the rain is from the south-west monsoon.

The rainfall is erratic both in time and quantity. The smaller the rainfall the more erratic it is.

Srikakulam, Vishakapatnam, parts of Godavari and Nellore suffer from periodic floods and droughts, while the others are more liable to suffer from droughts.

There are no mountains of the type of the Sahyadri range, but there are hills and table-lands scattered throughout the State. Some

of the hills are high and are covered with useful forest, some carry scrub jungle, while many are quite bare.

The soil in the area covered by the former Andhra State consists of the alluvi of the deltas and littoral tracts, red, black and brown soils.

The agricultural value depends on the textures. The interesting point is that while the top-soil is being washed away year after year, the remaining soil at the bottom continues to produce in the same measure as before. The average yield of rice per acre in Andhra region is 1,293 lbs. while in Telangana area it is 679 lbs. (The all-India average is 729 lbs.).

There are two major rivers in the area of the former Andhra State, the Godavari and the Krishna, three medium rivers with a large number of tributaries, and twenty-nine minor and small rivers. It is estimated that together they carry annually 150 million acre ft. of water into the Bay of Bengal.

The Godavari flows for the major part through the State before it falls into the Bay of Bengal. Its main tributaries are the Manjira, the Pranhita, the Indravati, and the Sabari, some of which flow partly in the Telangana area.

The main tributaries of the Krishna are Tungabhadra, Yerla, Warna and Dudhganga.

The medium rivers are the Pennar, the Nagavalli, the Vamsadhara.

The river system of Telangana consists of two great basins, that of the Godavary and the Krishna. The former with a length of more than 600 miles in the area has a number of tributaries, the chief of which are the Painganga, the Wardha and the Pranhita from the north, and the Manjera and the Maner from the south. Among its tributaries the most important are the Bhima, the Musi on which the capital stands, and the Tungabhadra, which forms the southern boundary of the Raichur-Mudgal Doab. The Telangana region, abounds in tanks and artificial lakes constructed mainly for the purpose of irrigation.

In Telangana the soil has granitic and calcareous formation. It is the land of rice and jowar. The hills are bare of vegetation and the land is covered with huge fantastic tors and boulders. Also as the soil is sandy, the rivers dry up in hot weather, necessitating the storage of water in tanks and artificial lakes for purposes of irrigation

AGRICULTURE

The total geographical area of the State is 664 52 lakh acres.

Net area sown in 1955-56 was 270 lakh acres or 40 6 per cent of the total geographical area.

Barren and uncultivable land : 72·38 lakh acres

Land put to non-agricultural uses : 33 33 lakh acres

Cultivable waste : 41·09 lakh acres.

Permanent pastures and other grazing lands : 28 78 lakh acres.

Land under miscellaneous crops, trees and groves not included in the net area sown: 6 23 lakh acres.

Current fallows : 54·88 lakh acres.
Other fallow lands : 17·38 lakh acres.
Forests 140·26 lakh acres.
Area sown more than once 303·85 lakh acres.
Total cropped area : 293·81 lakh acres.

The following are the acreage figures of the main crops in 1955-56.

Cereals 174·19 lakh acres : (a) Rice 58·12 lakh acres ; (b) Jowar 65·07 lakh acres ; Pulses 28·96 lakh acres ; Oilseeds 47·0 lakh acres ; Chillies 3 87 lakh acres ; Sugarcane 1·71 lakh acres ; Tobacco 3·21 lakh acres; Cotton 9·69 lakh acres; Bajra 16·12 lakh acres ; Maize 4·19 lakh acres ; Ragi 7·71 lakh acres ; Minor millets 22·61 lakh acres ; Bengal gram 3·87 lakh acres ; Tuar (red gram) 3·81 lakh acres ; Green gram 0·23 lakh acres ; Black gram 2·19 lakh acres ; Horse gram 0 83 lakh acres ; Onions ·45 lakh acres ; Sesamum 6·77 lakh acres ; Castor 8·90 lakh acres ; Mesta 1·01 lakh acres.

Production figures (estimates) for 1955-56 of some of the main crops are as follows : (Cereals 51,20,000 tons) ; Rice 30,59,000 tons ; Jowar 10,78,000 tons ; Maize 64,000 tons ; (Pulses 2,46,000 tons) ; Tuar 42,000 tons ; Green Gram 63,000 tons ; Sugarcane 4,78,000 tons ; Chillies 1,01,000 tons ; (Oilseeds 1,149,000 tons) ; Groundnut 1,02,000 tons ; Castor 65,000 tons ; Cotton (Bales) 1,33,000 ; Tobacco 1,09,000 tons ; Bajra 3,09,000 tons ; Ragi 2,18,000 tons ; Minor millets 3,23,000 tons ; Bengal gram 31,000 tons ; Black gram 21,000 tons ; Horse gram 78,000 tons ; Onions 1,67,000 tons ; Sesamum 56,000 tons ; Mesta 1,09,000 tons.

Position 1956-57 :

Total area under crops in 1956-57 : 30 million acres.

Production of cereals and lesser millets (1956-57) : 55,20,000 tons.

Area under cereals and millets (1956-57) : 18,964,000 acres.

Area and production respectively within brackets for 1956-57 of rice and jowar : Rice (7,104,000 acres ; 3,304,000 tons) ; Jowar (6,180,000 acres ; 1,052,000 tons).

The more useful species of timber produced are Kosum, Toon, Rosewood, Irul, Teak. Bamboo suitable for the manufacture of paper pulp also occur in abundance.

Total Forest area : 14 mln. acres.

LAND REFORMS

According to the census of land holdings conducted in 1954 in the Telangana region and in 1955 in Andhra region, the total number of holdings in Andhra Pradesh is 42,43,655 comprising an area of 3,41,91,769 acres. The average size of a single holding is 8·1 acres. 39·87 lakh holdings are under the personal cultivation of the owners wholly or partly and the remaining 2 56 lakh holdings are completely leased out. The area leased out is 39·29 lakh acres or 11·5 per cent of the total owned area in the holdings. The remaining 88 5 per cent or 302.63 lakh acres are under the personal cultivation of the owners, and they include lands put to non-agricultural uses

The Tenancy Acts in force are the Hyderabad Tenancy and Agricultural Lands Act, the Hyderabad Prevention of Fragmentation and Consolidation of Holdings Act, the Estates Land Act, the Rent Reduction Act, the Inams Abolition Act and the Andhra Tenancy Act.

An ordinance was promulgated in 1957 calling upon those owning more than 20 acres of land in the former Andhra region to furnish details of their holdings to the Government.

The definition of 'estate' under the Estates Land Act was enlarged in 1956 so as to include within its scope inam hamlets and inam Khandrigas in inam villages, thereby ensuring the application of the Rent Reduction Act and to some extent the Abolition Act to these Inams. Legislation for the abolition of all 'inams' other than 'estates' and for their conversion into ryotwari tenure, was undertaken. With a view to completing the scheme for the abolition of intermediaries proposals are under Government's consideration for legislation for the abolition of the post-1936 inam estates also. The Andhra Tenancy Act was enacted in 1955 providing mainly for the regulation of grants payable by tenants to landlords and for the prescription of a minimum period for agricultural leases. The Hyderabad Tenancy Act was amended so as to confer the right of protected tenancy on a larger class of tenants than had hitherto enjoyed such benefits.

All those who had cultivated land continuously for six years within a prescribed period were classified as protected tenants. They numbered, according to a census taken in 1953-54, about 620,000 in the entire State and about 260,743 in the nine districts of Telangana. So long as the tenant paid his rent—which in case of dispute was determined by the Government according to a formula linked with the land revenue—he enjoyed absolute rights of cultivation.

The Government promulgated an ordinance to ban all evictions retrospectively from March 21, 1952. Some 600 suits were stayed and more than 5,000 tenants restored to their lands.

The protected tenants were given special privileges, including the right to purchase land held by them on easy terms. There was a limit to the extent of land they could thus purchase.

The tenant's total extent of land, including his own, should not exceed one family holding, which is defined as the extent of land capable of yielding a gross annual income of Rs. 1,600. The ceiling on present holdings of a landlord was fixed at 4·5 family holdings, while that on future holdings was scaled down to three acres.

Any protected tenant can notify his desire to purchase the land under his occupation provided the landowner does not own more than two family holdings in all. In case the landowner fails to concede his request, an application is made to a tribunal, which will decide how much of the land should be sold to him and at what price.

The Act fixed the maximum limits of the reasonable price which the tenant should pay. They were computed in multiples of land revenue —for dry, *chalka* lands 60 times the land revenue and for wet lands irrigated under flow water or wells 24 times the land revenue.

The price is payable in 16 instalments spread over not more than eight years.

Of the 260,743 protected tenants in Telangana, only 13,125 exercised their right of purchase and bought 142,417 acres.

Towards the end of 1955, it was decided to apply section 38-E of the Tenancy Act in certain selected areas, by which the protected tenants automatically became the owners of the lands, whether or not they made any application in writing to that effect, and it was up to the landlord to prove that this or that particular plot of land was required by him.

This was applied throughout Khammam district and in the Mulug taluka of Warangal district.

By the end of 1957 11,426 protected tenants in Khammam and 1,900 in Mulug had become "owners" of their lands.

It was estimated that throughout Telangana, there were about 5,400 substantial landholders, that is, those who owned more than the statutory limit of 4·5 family holdings (this would yield an annual gross income of Rs. 7,200). In terms of acres, though they vary from district to district, it is estimated that on an average, a family holding ranges from six to nine acres of wet land and 21 to 60 acres of dry land.

The substantial landholders in Telangana together own about 3,958 acres of dry land (assuming six acres of dry land as equivalent to one acre of wet land). The surplus land available for distribution among the landless will be in the neighbourhood of 536,000 acres.

Consolidation of land holdings and prevention of fragmentation was being worked out on an experimental basis in 50 selected villages.

LIVESTOCK

The figures (latest available, 1956) for livestock are in thousands.

Total Cattle 11,276
1. Males over 3 years 4,842 including 23·34 breeding bulls.
2. Females over 3 years 3,762.17 including 1,431·34 in milk.
3. Young Stock under three years 1,200·24.

Total males 6,130·98 ; total females 5,145·56.
Total Buffaloes 17,244·18
Total males 8,058·74
Total females 9,185·43
Total Goats 3,093·41
Total Horses and Ponies 31·54
Males 16·11
Females 15·40
Mules ·382.
Donkeys 76·42
Camels ·107
Pigs 620·84
Total Poultry 14,705·62
Hens 4,649·63 ; Cocks 1,800·72 ; Chicken 7,956·52 ; Ducks 298·73.

LARGE-SCALE INDUSTRY

The main industries are Sugar, Paper, Cement, Cigarettes and Textiles. There is a big sugar factory at Bodhan in Nizamabad District and

there are other factories in different places. Paper mills are at Sirpur in Adilabad District and Rajahmundry in East Godavari District. Cement factories are at Vijayawada and other places. Cigarette factories are concentrated in Hyderabad City. Textile Mills are in Hyderabad, Warangal and a few other towns. Others worth mentioning are the Government Ceramic Factory at Gudur. Block Glass Factory at Gudur and the proposed Sri Venkateswara Paper and Strawboard Mills, Tirupathi.

In the Telangana area there are eleven textile factories which employ 8,030 persons, 111 tobacco units employing 8,300 persons, two cotton and ginning factories employing 600 persons. Then there is the ship-building yard at Vishakapatnam.

Production figures of the various industries are given below :

Commodity	Unit	Production, 1955	Value 1955 (In lakhs of Rs.)
Sugar	000 tons	118	740·90
Paper	,,	15·2	180·95
Cement	,,	204	166·51
Cigarettes	Crores	446	348·86
Cotton Piecegoods	Lakh Yards	424	N.A.
Cotton Yarn	Lakh Lbs.	233	367·91
Electricity	Million KWT	285*	
Coal	Lakh tons	15·96	..
Fertilisers	Tons.	12,156**	..

* Figure for 1956.
** Fertiliser mixture 8,360 tons ; Superphosphate 2,560 tons ; Bonemeal 1,236 tons.

MINERALS

The chief minerals produced in the State are coal, iron ore, limestone, manganese and asbestos. The coal industry is situated at Kothagudem, Tandur, Yellandu and Sasti in Telangana region. Other minerals are widely distributed. According to the Geological Survey of India, two large deposits of iron ore containing an estimated reserve of nearly 389 million tons of ore have been located in Guntur and Nellore districts.

Production figures for 1955 are as follows :— (The first figure within brackets shows the output in tons and the second figure indicates the value in lakhs of rupees) : Coal (1,682,000* tons ; Rs 369·95* lakhs) ; Manganese (101,000 tons ; Rs. 156·15 lakhs) ; Mica (4,150 tons ; Rs. 114·54 lakhs) ; Iron Ore (663,000 tons ; Rs. 48·81 lakhs); Limestone (244,000 tons ; Rs. 35·82 lakhs) ; Asbestos (321 tons ; Rs. 3·09 lakhs) ; Barytes (4,342 tons ; Rs. 0·78 lakhs).

COTTAGE INDUSTRIES

The number of workers employed in small-scale and cottage industries, according to the 1951 census, was 1,107,368 and these were distributed over 355,010 establishments. The most important industry is that of handloom. There are about 4 lakh handlooms in the State ; besides, there are 14,000 looms for woollen fabrics. The State has thus the largest number of looms in India and this industry provides employment for about 323,000 persons and livelihood for 1,615,000 persons Assuming that the overall production per month per weaver is 100 yards, the annual output of handloom cloth per annum works out to about 39 crore yards of cloth.

Other important cottage industries are Kambli-weaving which employs about 39,000 persons, coir making employing about 12,000 persons and basket making which employs about 40,000 persons.

Certain handicrafts of Andhra Pradesh are world famous Notable among these are the silver filigree articles of Karimnagar, the exquisite toys of Nirmal, Kondapalli, Nakkapalli and Tirupathi, the carpets of Warangal and Eluru and the lac goods of Narsapur.

TRANSPORT

The total railway route mileage open for traffic in Andhra Pradesh is 2,902 miles out of which 1,633 miles are Broad Gauge, 1,244 miles Metre Gauge and 25 miles Narrow Gauge. The total road mileage including National Highways, State Highways, major district and other district roads is 14,466 miles.

The Andhra Pradesh Road Transport is a nationalized service now largely serving Telangana area. In 1955-56 the road mileage covered by it was 3,577 ; its total fleet strength 442 Its total earnings from the Telangana area stood at nearly Rs. 1,82,33,000 in 1954-55 and Rs. 1,79,82,000 in 1955-56 while the expenditure was Rs. 1,65,09,000 and Rs. 1,71,28,000 respectively. The number of passengers carried in 1954-55 was 44,815,888 and in 1955-56 it was 47,308,052.

The Government has decided to nationalise road transport in Krishna District as a first step towards extending the principle to the whole State.

There is a well-developed airport at Begumpet in Hyderabad city ; there are landing grounds near Vijayawada and Vishakapatnam.

Many canals in the Andhra area are used for boat transport.

There are two broadcasting stations in the State—at Hyderabad and Vijayawada. There were 2,388 community listening sets in the State on 1st August 1957. It was proposed to install 1,400 more during 1957-58.

The City of Secunderabad is the headquarters of the Secunderabad Division of the Central Railway and is the junction of the Broad Gauge and Metre Gauge systems. From here lines radiate east, south, west and north. The total mileage open for traffic which now constitutes the Secunderabad division of the Central Railway is 1,461 miles.

Hyderabad City is connected by air with Bombay, Nagpur, Madras and Bangalore Hyderabad City is served by Begumpet aerodrome. Hyderabad is also linked by air to Delhi and Calcutta.

* Figures upto September 1956.

POWER PROJECTS

Installed capacity of State : 192,876 K.W. (1956).
Actual production in State : 246·903 million units (1956-57).
The following table gives particulars about power projects in Andhra Pradesh :

Name.	Location	Installed capacity	Production in million units	Cost	Commissioning date
HYDRO-STATIONS.					
† Machkund	Machkund (Orissa)	51,000 K.W.	155·149	About 13 75 crores (1st stage)	1955
‡Tungabhadra	Tungabhadra Dam & Hampi (Mysore State)	18,000 K.W.	0 587	7·5 crores (1st stage)	1956 57
Nizamsagar	Nizamabad District	15,000 K.W.	16·578	..	..
THERMAL STATIONS :					
Vishakapatnam	Vizag.	6,750 K.W.	3 198	..	.
Vijayawada	Vijayawada	12,000 K.W.	1·289	..	.
Nellore	Nellore	5,000 K.W.	2·789	..	1950
Hussainsagar	Hyderabad	24,000 K.W.	53·556	About 3·3 crores	1922
Ramagundam	Ramagundam	37,500 K.W.			1956
DIESEL STATIONS** :					
Giddalur	Giddalur	52 K.W.	0·034	..	1955
Markapur	Markapur	170 K.W.	0·005	..	1956
Cumbum	Cumbum	170 K.W.	0·001	..	1956

† This is a joint venture of the Andhra Pradesh and the Orissa States. The cost and power generated are to be shared in the ratio of 70 : 30 This project was started in 1946.
‡ This scheme is under the control of the Tungabhadra Board constituted by the President of the Indian Union consequent on the formation of the Andhra State, from 1-10-1953 and the transfer to the Mysore State from that date of 7 taluks of Bellary District in which the project is located. The expenditure and the benefits of power are to be shared by Andhra and Mysore Governments in the ratio of 80 : 20. This project was started in 1953. The installed capacity is that of two generators.
** A number of stations were progressively stopped with the advent of hydro-power from Tungabhadra Dam.

Chittoor, Hindupur, Warangal Yellandu :

For Chittoor and Hindupur, the installed capacity is 6,162 kW. and the production in 1956-57 was 23·653 million units.

Bulk supply of hydro-power is being purchased from (1) Mettur Project at 7 points of supply in Chittoor area. The maximum demand recorded 2,779·4 kW. as against the original agreement of 3,400 kW. (2) Mysore Jog Power at Bellary. Maximum demand recorded 2,830 kW. as against 2,000 kW. (3) Mysore Sivasamudram Power at Hindupur. Maximum demand recorded 553 kW. as against 700 kW.

For Warangal the installed capacity is 800 kW. and production in 1956-57 was 3·151 million units. For Yellandu the installed capacity is 160 kW. and production in 1956-57 was ·336 million units.

For Warangal and Yellandu power is being purchased in bulk from the local mills and distributed by Government.

SECOND PLAN

Investigations on the following power projects are being undertaken during the Second Plan period. (1) Nagarjunasagar Hydro-Electric Scheme; (2) Lower Sileru Hydro-Electric Scheme; (3) Nagarjunasagar Canal Power House; (4) Srisailam Hydro-Electric Scheme, (5) Sangareddy Hydro-Electric Scheme; (6) Laxmipuram Hydro-Electric Scheme; (7) Pulichintala Hydro-Electric Scheme; (8) Siddeswaram Hydro-Electric Scheme.

The targets of power production proposed during the Second Plan period are as follows: Installed capacity 1,44,100 kW.; Transmission lines to be constructed, H.T. and L.T. 2,330 miles; Total load to be connected 3,77,100 kW. Aggregate peak demand 1,27,000 kW.; Consumers that will be served 30,000; Agricultural Services 5,400; Villages and towns to be electrified 340; Per Capita consumption 20 units.

IRRIGATION

Statement showing the net area irrigated by different sources, gross area irrigated and area sown more than once in Andhra Pradesh during 1955-56: Govt. canals 3,039,453 acres; Private canals 62,729 acres; Tanks 2,566,634 acres; Wells 753,977 acres; Other sources 254,083 acres.

Total net area irrigated 6,676,876 acres.

Total gross area irrigated 7,834,235 acres.

Area irrigated more than once 1,157,359 acres.

A sum of Rs. 14·57 crores was spent on major and medium size irrigation projects in the Andhra region during the First Plan period. Six major irrigation projects, *viz.*, the Tungabhadra, Krishna regulator-cum-road bridge,† Upper Pennar, Romperu Drainage, Rallapadu (second stage) and Bhairavani-tippa Projects, were taken up for execution to benefit an area of 290,675 acres in the districts of Krishna, Guntur, Nellore and Anantapur. On these alone Rs. 11·14 crores was spent during the First Plan period. Seventeen medium projects to provide irrigation facilities to 379,678 acres of land were taken up for execution and four of them were completed during the First Plan period. On these a sum of Rs. 343·22 lakhs was spent. Four of the medium projects are located in Srikakulam district, three each in Nellore and Chittoor districts, two each in Cuddappah and Anantapur districts and one each in Vishakapatnam, West Godavari and Kurnool districts.

A sum of Rs. 718·00 lakhs was spent during the First Plan period on two major irrigation projects in Telangana, *viz.*, the Rajolibanda Diversion Scheme for providing irrigation facilities to about one lakh acres in the Mahbubnagar district and the Kadam Project benefiting an area of 67,000 acres in the Adilabad district. They are continued as spill-over schemes in the Second Plan and a sum of Rs. 270·05 lakhs is provided for them. Also during the First Plan period a sum of Rs. 115·81 lakhs was spent on five medium irrigation projects, *viz.*, Koilsagar and Sarlasagar Projects to benefit 60,000 acres in Mahbubnagar district, the Musi and Bhimanpally Projects benefiting 43,860 acres in Nalgonda district and the Sirala Project benefiting 3,000 acres in Adilabad district. In the Second Plan these schemes get a provision of Rs. 64·80 lakhs. The total area benefited by these major and medium projects is 273,860 acres.

A unique achievement with regard to the Musi project in Nalgonda District is that without damming the river or building a reservoir, irrigation water for 2,000 acres of land has been given already through the right flank canal. The reservoir, when completed, will be an 8-sq mile sheet of water. Irrigation water for 10,000 acres was expected to be given by June 1958 and the complete development of 38,000 acres will be over in two years.

All the major and medium irrigation projects except the four medium projects completed during the First Plan period are included as continuing schemes in the Second Plan. The Vamsadhara Project is a new major scheme included in the Second Plan. A sum of Rs. 19·95 crores is provided in the Second Plan for the Nagarjunasagar Project which is common to both the regions of Andhra Pradesh.

The major and medium irrigation projects included in the Second Plan for Andhra are expected to bring 4·49 lakh acres more under irrigation during the Second Plan period while the area ultimately expected to benefit from these, amounts to 27·30 lakh acres.

Nagarjunasagar Project. The project in its first Stage comprises the construction of a masonry dam 302 feet high above the foundation level, across the Krishna river near Nandikonda about 90 miles below Siddeswaram, and two canals taking off from the reservoir, known as the left and the right bank canals. The dam is situated about ten miles from Macherla railway station in Guntur district. Large areas extending between the Krishna and Godavari in the north and the Krishna and the Pennar in the south can be commanded by the reservoir.

The project will have a gross storage capacity of 5·44 million acre feet and is expected to be completed in 1965.

The right bank canal which will be 135 miles long will carry a discharge of 11,000 cusecs in the first Stage. The left bank canal will be 108 miles long and will lead up to the river Muneru in the first stage, and will flow through Telangana.

The cost of the first Stage of the project, namely, construction of the dam and the two canals is estimated to be about Rs. 86·57 crores.

The present scheme which forms the first Stage of the project will irrigate about 2·06 million acres of land spread over the districts of Guntur, Kurnool, Nellore, Warangal and Nalgonda.

The second Stage of the project which will be taken up later on will provide for the generation of electric power.

CO-OPERATION

The total number of Co-operative Societies in the State (1956-57): 18,982; membership: 22,50,000. Share capital: Rs. 46,78,00,000.

The number of agricultural credit societies is 9,697 with a membership of 7,48,298.

(*See under the article 'The Co-operative Movement' for figures for the Andhra area*).

PUBLIC HEALTH

Plague, Cholera, Small-pox, Tuberculosis, Malaria, Filaria, and Yaws are among the common diseases in the State, but Government efforts to fight these have produced remarkable results in the case of some. Plague used to be almost an annual visitation to Hyderabad City but drastic preventive measures taken in recent years have practically eliminated it. Cholera, Small-pox and other seasonal epidemics continue to attack people but Government steps to reduce their incidence are also proving effective. The B.C.G. vaccination campaign against tuberculosis is in full swing and by the close of the First Plan period nearly 18,00,000 persons were tested and 6,23,000 vaccinated in the former Andhra State. In Telangana region also the scheme is being extended.

Organised assault on malaria is going on, regions vulnerable to the disease claiming priority. An anti-malaria unit was organised at Lakhnavaram in Warangal district during the First Plan period. Ample provision has been made in the Second Plan to provide equipment for the existing three Malaria Control Units functioning in the Telangana region. In the Andhra districts the establishment of four Malaria Control Units covering about 4 million population is contemplated. A Central Malaria Laboratory and Museum are planned.

With a view to intensifying the control of filariasis in the endemic zones of Nizamabad, Mahbubnagar, Medak and Karimnagar districts, three control units are proposed during the Second Plan period under the National Filaria Control Programme. In the former Andhra State two survey units and one Filaria Control Unit were established in 1955 and the survey of endemic areas and control of endemic filariasis have registered considerable progress at the close of the First Plan period.

Number of hospitals, dispensaries and institutions for special treatment in the State excepting Khammam District (1953-54): 280; No. of beds available 11,549; No. of Govt. doctors 617; No. of out-patients treated 71,50,435.

EDUCATION

There are three Universities in the State: The Andhra University at Waltair, the Osmania University at Hyderabad and the Sri Venkateswara University at Tirupati.

Elementary education is free in Government Schools. The system of compulsory primary education is being extended progressively. Approximately, there is a school for every 500 of the population.

Besides a large number of Colleges offering general education, two Agricultural Colleges, four Medical Colleges, two Science Colleges, two Women's Colleges, a Law College and four Engineering Colleges exist in the State. There are 11 Colleges giving higher education in

The following tables show particulars about some irrigation projects under the First Five-Year Plan (former Andhra area) :

Name of Project	District/Area benefited	Total cost Rs. in lakhs	Development Expenditure Five years 1951-56 Rs. in lakhs	Area to be irrigated on completion in '000 acres
Rallapad, IInd Stage	Nellore	58	50	8
Romperu drain	Guntur	96	41	10
Upper Pennar	Anantapur	84	84	6
Bhairavanitippa	Bellary* and Anantapur	1,02	1,02	8
Tungabhadra	Kurnool, Anantapur, Cuddappah	19,70	11,40	411
Total	—	23,10	14,17	443

* Now in Mysore.

† Was inaugurated on Dec. 24, 1957.

Sanskrit. One novel experiment is a Janata College in Warangal district where rural youth are given training in better methods of agriculture, rural social service, health and hygiene, rural surveys and crafts.

As for training facilities, there are 4 B.Ed. Colleges, besides a number of Secondary Grade Training Centres and Basic Training Centres. The old type of adult schools are being replaced by Social Education Centres.

No. of primary schools : 27,537 ; enrolment about 22,90,036.

No. of secondary schools : about 953 ; enrolment about 4,53,312.

No. of Colleges : 85 ; enrolment about 50,000.

THE SECOND FIVE-YEAR PLAN

The total outlay envisaged in the Second Five-Year Plan of Andhra Pradesh is Rs. 175·73 crores. The detailed allocations are as follows :

	In crores of Rupees
Agricultural and Community Development	39·85
Irrigation and Power Projects	76·47
Industries	14·28
Roads	7·69
Education	12·79
Health including Water Supply	10·99
Housing	5·16
Social Welfare and Labour	5·83
Miscellaneous	2·67
Total	175·73

BUDGET FOR 1958-59

	In crores of rupees
Revenue	63·66
Expenditure	62·87
Surplus	0·79

ANDHRA PRADESH STATE FINANCIAL CORPORATION

Was established in February 1954.

Object :—Financial assistance to medium and small scale industries established within the State.

Authorised Capital : Rs. 4 crores.

Distribution of shares : 1,50,000 shares of Rs. 100 each are distributed as follows : (*a*) State Government 70,000 ; (*b*) Reserve Bank of India 20,000 ; (*c*) Scheduled Banks, Co-operative Banks, Insurance Companies, Investment Trusts and other financial institutions, 50,380 ; (*d*) Others 9,620.

Following are figures upto March 31, 1958 (combined Andhra and Hyderabad) :

No. of applications received :	130
No. of applications sanctioned :	76

(Figures in nearest thousands)

Amount of loans sanctioned	Rs. 135,29,000·00
Amount disbursed	Rs. 66,92,000·00*
Amount recovered	Rs. 12,99,000·00
Rate of interest	6% per annum (net)
Total expenses	Rs. 89,000·00
Total income	Rs. 6,44,000·00**
Net Profit	Rs. 5,56,000·00**

ANDHRA UNIVERSITY

(Waltair)

Chancellor : Governor of Andhra Pradesh.

Pro-Chancellor : Dr. B. Gopala Reddi.

Vice-Chancellor : Dr. V. S. Krishna, B.A. (Oxon.), Ph.D. (Vienna).

Registrar : K. V. Gopalaswamy, M.A. (Oxon.), Barrister-at-Law.

Deputy Registrar : V. Simhadri Rao, M.A.

The Professors are as follows :

K. Rangadhama Rao, M.A., D.Sc. (Madras), D.Sc. (Lond.) (*Principal, University Colleges and Professor and Head of the Department of Physics*).

Swami Jnanananda, M.Sc., D.Sc., Ph.D., F.I.P.S. Sigma XI (*Professor and Head of the Department of Nuclear Physics.*)

V. Ramaswamy, B.A. (Cantab.), Ph.D. (Cantab.) (*Professor and Head of the Department of Mathematics*).

G. J. Somayaji, M.A., L.T., Vidwan, P.O.L. (*Professor and Head of the Department of Telugu*).

K. R. Srinivasa Iyengar, M.A., D.Litt. (*Professor and Head of the Department of English*).

Prof. K. K. Das, B.Com. (Lond.), Ph.D. (Harward) (*Professor and Head of the Department of Commerce*).

S. Meenakshisundaram, M.A., D.Sc. (*Professor and Head of the Department of Mathematical Physics*).

T. Venkatarayudu, M.A., Ph.D. (*Birla Professor, Department of Mathematical Physics*).

G. Gopala Rao, M.Sc., A.S.C. (Lond.), D.Sc. (Allahabad) (*Vikrama Deo Professor and Head of the Department of Chemistry*).

C. Venkata Rao, M.Sc. (Hons.), D.I.C. (Lond.), Ph.D. (Del.), M.I.I.Ch.E., M.Pl.M.W. Eppatok (*Professor and Head of the Department of Technology*).

S. Rangaswamy, M.A., Ph.D., D.Phil. (Pharm.) (Basle), F.R.I.C. (Lond.), F.R.S.A., F.A.Sc. (*Professor and Head of the Department of Pharmacy*).

K. Nagabhushanam, M.A., Fil.Lic., D.Fil. (Stockholm) (*Professor and Head of the Department of Statistics*).

C. Mahadevan, M.A., D.Sc., F.A.Sc., M.A.I.M.E., F.N.I. (*Professor and Head of the Department of Geology and Geo-Physics*).

Dr. P. N. Ganapathy, M.A., M.Sc., D.Sc., F.A.S.C., F.Z.S.I. (*Professor and Head of the Department of Zoology*).

S. Venkataraman, B.A., M.L. (*Professor and Head of the Department of Law*).

S. T. Krishnaswamy Chetti, M.A., M.Sc. (Lond.), D.I.C. (Lond.), F.R.M.S. (*Professor and Head of the Department of Applied Physics including Manufacturing Section*).

N. Srinivasan, M.A. (Mad.), B.Sc. (Hons.) (Econ.) (Lond.) (*Professor of History and Politics*).

Bh. S. V. Raghava Rao, M.Sc., A.I.C. (Lond.), Ph.D. (Lond.), A.I.I.Sc. (*Vishakapatnam District Board Professor of Chemistry*).

J. Venkateswarlu, M.Sc., D.Sc., Ph.D. (Cantab.), F.A.Sc., F.B.S. (*Professor and Head of the Department of Botany*).

Prof. C. Kunhan Raja, M.A. (Mad.), D.Phill. (Oxon.) (*Professor of Sanskrit*).

The Heads of Departments who are not professors are as follows :—

S. T. Krishnamachari, B.A., B.L., C.P.F. (Paris), D.I.A. (Berlin) (*Reader and Head of the Department of French and German*).

B. Sarveswara Rao, M.A. (*Reader and Ag. Head of the Department of Economics and Sociology*).

K. Sachidanandamurty, B.A. (Hons.) (*Reader and Head of the Department of Philosophy*).

D. Seetapathi Rao, B.A., B.Sc. (Engg.), M.Sc. (Engg.) (Lond.), Dic (Lond.) (*Reader and Head of the Department of Engineering.*)

University Colleges (5)

University College of Arts and Commerce, Waltair.

Jeypore Vikramadeo College of Science and Technology, Waltair.

Erskine College of Natural Sciences, Waltair.

University College of Law, Waltair.

University College of Engineering, Waltair.

Affiliated Colleges

PROFESSIONAL COLLEGES (8)

Agricultural College, Bapatla, Guntur Dist.

College of Engineering, Kakinada.

St. Joseph's Training College for Women, Guntur.

Medical College, Guntur.

Government Training College, Rajahmundry.

Andhra Medical College, Vishakapatnam.

Govt. Veterinary College, Bapatla, Guntur Dist.

Medical College, Kurnool.

FIRST GRADE COLLEGES (22)

S. K. B. Ramars College, Amalapuram, East Godavari Dist.

A. M. A. L. College, Anakapalli.

West Godavari Bhimavaram College, Bhimavaram, West Godavari Dist.

V.R.S. College, Chirala, Guntur Dist.

Sir C. Ramalinga Reddy College, Eluru

Gudivada College, Gudivada, Krishna Dist.

Government College for Women, Guntur.

Andhra Christian College, Guntur.

Hindu College, Guntur.

Pithapuram Rajah's Govt. College, Kakinada.

Andhra Jatheeya Kalasala, Masulipatam.

Hindu College, Masulipatam.

S.S.N. College, Narasaraopet.

The Narsapur College, Narsapur, West Godavary Dist.

P. B. N. College, Nidubrolu, Guntur Dist.

Government Arts College, Rajahmundry.

V.S.R. College, Tenali, Guntur Dist

Andhra Loyola College, Gunadala Post Vijayawada.

S.R.R. and C.V.R. College, Vijayawada.

Mrs. A.V.N. College, Vishakapatnam

M.R. College, Vizianagaram.

Government Arts College, Srikakulam

SECOND GRADE COLLEGES (2)

Chinthalapati Satyavati Devi, St. Theresa's College for Women, Eluru.

C.S.R. Sarma College, Ongole, Guntur Dist.

ORIENTAL COLLEGES (13)

Sri Markandeya Oriental College, Aukiripalli, Kistna Dist.

Saradaniketanam, Guntur.

S.V.J.V. Sanskrit College, Kovvur, West Godavari Dist.

Narasimha Sanskrit College, Chittigudur, Masulipatam.

Oriental College, Gudivada.

Chalapalli Rajeswari Sanskrit College, Modukurru, Kothapet Taluk, K.G. Dist.

Sri Bhavanarayanaswami Sanskrit College, Ponur, Guntur Dist.

Andhra Women's Sanskrit College, Rajahmundry.

S.G.V. Oriental College, Rajahmundry.

Kota Lakshmiah Naidu Sanskrit College, Tenali, Guntur Dist.

Maharajah's Sanskrit College, Vizianagaram

Maharajah's Music College, Vizianagaram

Oriental College, Vijayawada.

* Includes Rs. 8,00,000 originally disbursed by the Madras Industrial Investment Corporation Ltd., Madras and subsequently transferred to Andhra State Financial Corporation.

** Interest on Investments taken at gross and includes Rs. 68,788 income-tax on Investments deducted at source.

1956-57, Budget

Income .. .. .. Rs. 44,50,751
Expenditure .. .. .. Rs. 55,27,478

Grants:
(a) From State Govt. .. Recurring. Rs. 5,50,360
(b) From Central Govt. .. Recurring. Rs. 1,18,074 Non-recurring. Rs. 6,41,300

Total No. of students at the University Colleges, in 1955-56 : 1,509.

Total number of Colleges affiliated and oriental colleges : 50.

This university is teaching as well as affiliating.

OSMANIA UNIVERSITY
Hyderabad 7.

The Osmania University was established in 1918 under Royal Charter which was revised in 1947. It is a residential, teaching and affiliating university. It comprises ten Faculties, namely, Arts, Science, Commerce, Medicine, Engineering, Agriculture, Veterinary Science, Education, Law, and Religion and Culture. There are 6 University Colleges, 7 constituent Degree Colleges (including one exclusively Women's College), 3 constituent Pre-university Course Colleges, 22 Affiliated Colleges (including 3 Medical Colleges, 11 degree Colleges and one Women's College), 7 Pre-University Course Colleges, 2 Constituent Evening Colleges (one Degree and one Pre-University Course) for those in employment.

In the Arts and Science Faculties, English and Hindusthani, the latter with Persian and Devanagari Script, are the media of instruction. In all professional courses English is the only medium of instruction. The course of study in M.Sc. Technology has been abolished and a new degree course B.Chem. Technology and B. Chem. Engineering has been instituted. It is of four years' duration after Intermediate Science or pre-professional course. The courses of study in Oriental learning in Sanskrit for entrance test, Dip. O. L. and B.O.L., have been framed. One private Oriental Institution has been recognised to coach students for these courses. In 1954-55 two new courses of study, the Certificate of Proficiency in Journalism and Diploma in Journalism, were introduced. Diploma and Certificate in Public Administration also introduced in 1956-57.

The University is completely autonomous though it is wholly financed by the Government. The University Council, consisting of 16 members is the governing body. The Vice-Chancellor is the chief administrative officer. The other bodies of the University are the Finance Committee, Academic Council, Senate, Faculties and Boards of Studies and the Equivalence Board.

Budget (1956-57) : Rs. 87,51,044.
Contribution by State Government : Rs. 52,78,200.

Library : 118,696 Volumes (English 36,804; Urdu, Persian, Arabic 16,932; Oriental 17,575, Gift 16,959; Salarjung 30,426). There are 6,360 MSS and 1,244 Palm Leaf MSS.

Admission : The qualification necessary for entrance to the Pre-university Course is the Higher Secondary Certificate or equivalent certificate.

Enrolment (1956-57) : 17,231 (Arts and Science. Boys 11,142; Girls 1,703 ; Professional : Boys 4,132 ; Girls 254).

Degrees : B.A., M.A., Ph.D. in Arts, B.A., M.A , Ph.D. in Religion and Culture; B.Sc., M.Sc., Ph.D. in Science ; B.Com. and M.Com. in Commerce ; B.E., M.B.B.S., M.D., M.S., D.O. and D.G.O., B.V.Sc., B.Sc. (Agri.), B.Ed., M.Ed., LL.B. and LL.M., B. Chem. Technology, B. Chem. Engineering, Dip. O.L. and B.O.L. in Sanskrit, Certificate in Journalism and Public Administration, Diploma in Journalism, French, German, Italian, Russian, Hindi and Public Administration.

CHANCELLOR
N. Sanjeeva Reddy.

VICE-CHANCELLOR
D. S. Reddy, M.A. (Oxon).

REGISTRAR
Dr. I. Topa, Ph.D. (Feiburg).

DEANS OF FACULTIES
Arts, Vacant.
Science, Prof. Mohd. Ali Khan.
Agriculture, Prithviraj.
Medicine, Dr. G. S. Melkote.
Veterinary Science, Vacant.
Law, Justice P. J. Reddy, High Court, Andhra-Pradesh.
Education, Dr. D. D. Spendarkar.
Commerce, Vacant.
Engineering, J. C. Hardikar.
Religion and Culture, Dr. I. Topa, Registrar, Osmania University.

UNIVERSITY PROFESSORS
Chemistry, Dr. N. V. Subba Rao.
Physiology, Dr Seetaramaiah.
Civil Engineering, Prof. Ziauddin, Prof. M. Athar, Prof. Hafeezullah.
Agriculture, Dr. H. N. Razvi.
English, Vacant.
Botany, Prof. M. Sayeeduddin.
Education, Vacant.
Urdu, Prof. A Q Sarwari.
Veterinary Science, Prof. M. Habeeb Khan.
Physics, Dr. R. Satyanarayan.
Medicine, Dr. B. K. Naik.
Arabic, Dr Qari Qutubuddin.
History, Vacant
Mechanical Engineering, Prof. S Abid Ali.
Sociology, Dr Jaffar Hasan.
Pharmacology, Dr. Yousufuddin Ansari.
Philosophy, Dr Mir Valiuddin
Economics, Prof. M. Abdul Qader.
Electrical Engineering, Prof. V. M. Gadgil.
Sanskrit Dr A Sharma
Pathology, Dr V Gopal Rao.
Zoology, Dr S N Singh.
Marathi, Vacant.
Kannada, Prof. D. K. Bhimsen Rao.
Telugu, Prof K Lakshmi Ranjanam.
Surgery, Dr I Chalapathy Naidu
Law, Prof. G C Venkata Subba Rao.
Mining and Engineering, Prof. H. S. Sheshgiri Rao.
Chemical Technology, Dr B. S. Kulkarni.
Anatomy, Dr S P. Sahagal.
Obstetrics and Gynaecology, Dr. (Mrs.) P. M. Naidu.

UNIVERSITY COLLEGES
University College of Arts & Commerce, Osmania University, Hyderabad 7.
University College of Agriculture, Osmania University, Hyderabad 7.
University College of Education, Osmania University, Hyderabad 7.
University College of Engineering, Osmania University, Hyderabad 7.
University College of Science, Osmania University, Hyderabad 7.
University College of Veterinary Science and Animal Husbandry, Osmania University, Hyderabad 7.

CONSTITUENT COLLEGES
Nizam College, Gunfoundry, Hyderabad.
Women's College, Sultan Bazar, Hyderabad.
College of Law, Abid Road, Hyderabad.
City Intermediate Science College, Hyderabad.
Saifabad Intermediate Science College, Hyderabad.
Chaderghat Intermediate Arts College, Hyderabad.
Evening College of Arts & Commerce, Hyderabad.
Evening College of Arts & Commerce, Secunderabad.
Secunderabad College of Arts & Science, Secunderabad.
Arts & Science College, Warangal.

AFFILIATED COLLEGES
Osmania Medical College, Afzal Gunj, Hyderabad.
Vivek Vardhini College, Gauliguda, Hyderabad.
Badruka College of Commerce, Nampalli Station Road, Hyderabad.
Milind Mahavidyalaya, Cantonment, Aurangabad*.
People's College, Nanded*.
Anwarul-Uloom Inter Arts and Commerce College, Saifabad, Hyderabad.
Raja Bahadur Venkatrama Reddy Women's College, Narayanguda, Hyderabad.
Nanakram Bhagvandas Mahavidyalaya, Charkamam, Hyderabad.
Govt. Teachers' Training College, Aurangabad*.
Teachers' Training College, Warangal.
College of Arts and Science, Karimnagar.
College of Arts and Science, Khammamet.
College of Arts and Science, Siddipet.
New Science College, Narayanguda, Hyderabad.
Yogeshwari Science College, Mominabad.
Girraj Arts and Science College, Nizamabad.
Nagarjuna Arts and Science College, Nalgonda.
Govt Medical College, Aurangabad*.
Gandhi Medical College, Hyderabad.
Marathwada Legal Education Society's Law College, Aurangabad*.
Govt. Agricultural College, Parbhani*.
Arts & Science College, Aurangabad*.
Total number of Arts and Science Colleges : Science Colleges 6 ; Arts and Science 19 and Professional 13
Total number of Women's Colleges : Two.
Total enrolment in Arts and Science Colleges : Boys 11,142 , Girls 703.
Total number of Professors : 40; Lecturers : 929.
Total number of Professional Colleges : 13 (Education, three ; Agriculture, two ; Veterinary Science, one ; Engineering, one ; Law, two , Medical, three , Commerce, one.
Total enrolment in Professional Colleges : Boys 4,132 , Girls 254.

SRI VENKATESWARA UNIVERSITY
TIRUPATI

This University was inaugurated on September 2, 1954. This is the third University in the State and is a residential-cum-affiliating University. Instruction is provided in courses leading to Pass and Honours degree examinations in Mathematics, Philosophy, Economics, Physics, Chemistry and Zoology at the University College run by the University.

Colleges in five districts of Andhra are already affiliated to it—Kurnool, Cuddapah, Anantapur, Chittoor and Nellore.

The period of study after Intermediate is two years for a pass course and three years for honours course.

The University College is run by the University at Tirupati. There are at present six teaching departments upto the Honours Standard in the University College.

Post Honours and Research degrees were started with effect from the academic year 1957-58.

Instruction in the Pre-University course is offered in all the affiliated colleges as from July 1957 and the three years' Degree course will be introduced in all colleges from 1958-59.

ARTS COLLEGES
First Grade Colleges (8).
Government Arts College, Cuddapah.
Government Arts College, Anantapur.
Besant Theosophical College, Madanapalle.
Sri Venkateswara College, Tirupati.

* Now in Bombay State.

Sri Padmavati College for Women, Tirupati.
Osmania College, Kurnool.
V. R. College, Nellore.
Kavali College, Kavali.

PROFESSIONAL COLLEGES

College of Engineering, Anantapur.
Government Training College, Kurnool.
Government Training College, Nellore.
Kurnool Medical College, Kurnool.

ORIENTAL COLLEGES

Sri Venkateswara Oriental College, Tirupati.
Islamia Arabic College, Kurnool.
Jamia Mahamma lia Arabic College, Rayadurg, Anantapur District.
Veda & Sanskrit College, Nellore.

Personnel

Chancellor: The Governor of Andhra Pradesh.
Pro-Chancellor: S. B. P. Pattabhi Rama Rao, B.A., B.L., Minister of Education, Andhra Pradesh.
Vice-Chancellor: S. Govindarajulu, M.A., L.L.B. (Cantab), B.L., Bar-at-Law.
Registrar: M. Ramanuja Rao Naidu, M.A.
Principal, University College: Prof. S. G. Manavala Ramanujam, M.A., Ph.D. (Lond.), D.I.C., F.R.M.S.
Heads of Departments of Honours and Post-Graduate Courses: Prof. S. G. Manavala Ramanujam (*Zoology*); Prof. S. Ramachandra Rao (*Physics*); Dr. K. Neelakantam (*Chemistry*); Prof. R. Vaidyanathaswamy (*Mathematics*). Prof. T. A. Purushotham (*Philosophy*); Prof E. K Warrier (*Economics*).

Total number of students in the University College in 1957-58: Boys 429; Girls 50. Total 479.

HYDERABAD MUNICIPAL CORPORATION

Mayor, K. Krishnaswamy Mudhiraj.
Dy. Mayor, Ghulam Mohammed Khan Lodhi.
Commissioner, C. N. Shastry, I.A.S.
City Engineer, Mir Mahboob Ali.
Medical Officer of Health, Dr. C. R. Naidu.
Executive Engineer, Drainage, T. Mohammed Osman.
Mechanical Engineer, Gopalkishan.
Secretary, Prem Chand.
Asstt. Commissioner, Ravindranath.
Assessor and Collector, Abdul Ali.
Examiner of Accounts, Gopi Kishan.
Registrar, B. B. Kapoor.
Municipal Magistrate, N. Bhoj Raj.
Publicity Officer, M. Narasingh Rao.

COUNCILLORS

Names of members showing within brackets the Constituency which each member represents:

K. V. Narsimha Charlu (Domalguda); K. Laxminarayan (Kawadiguda); Syed Ali Hussain, Lachmiah (R) (Musheerabad); Smt. Sushila Verma (Zamistanpur); M. A. Rasheed (Chikadpalli); Daniah, G. (R), Smt. Sujata Devi, A. R. (Amberpet); Sayyid Ahmedullah Qadri (Khudbiguda); Jagjivan Pershad Jaiswal (Lingampalli); Smt. Faizunnisa (Himayatnagar); Ramaswamy (Ramkote); Mahenderjee (Gulbagh); Erram Satyanarayan (Kasmiah Bazar); E. Ishwariah (Gowliguda); Prakash Sangram (Kattalmandi); Kalva Suryanarayan (Gandhi Bhavan); M. Maqbool Ahmed Jamee (Darga Yousufain); Raj Reddy (Gunfoundry); M. R. Sham Rao (R), S. Shankariah (Khairtabad); D. Yadiah (Ameerpet); Gulam Afzal Bisbani (Jubilee Hill); M. Roshan Ali Khan, Satyanarayan (R) (Golconda); M. Babu Rao (Nampalli); Thakur Bakhtawar Singh (Aghapura); Mohd. Azzamuddin (Mallapalli); D. Narsimloo (Asafnagar); G. Narayan Reddy (Karwan); Ranjit Singh (Rasoolkhanpet); Srinivas (Mustaidpura); Srinivas Rao (Subzimandi); H. Narsing Rao (Mangalhat); D. Satyanarayan Shastry (Goshamahal); Hari Kishen Sharma (Jumerat Bazar); K. Krishna Swamy Mudiraj (Chudi Bazar); Pratap Singh (Dhoolpet); Phoolmal Gupta (Siddiamber Bazar); Chanderbhan Yadav (Afzal Gunj); Ram Rao Doke (Begum Bazar); B. Ram Dev (Sayeedabad); Dr. D. N. Babu Rao (R), Dev Raj (Chanchalguda); Sardar Ali Khan (Asmanpura); M. Bansi Lal Jaiswal (Yakutpura); Abu Yusuf, V. Yadgir Rao (R) (Dabirpura); Shankar Singh Verma (Jangammet); Anjiah Kotha (Balagunj); Bodo Veerswamy, Shanker Lal Golkwad (R) (Idi Bazar); Syed Bin Abdulah Ba Hameed (Malaram); Rapu Reddy, Narsing Rao (R) (Umda Bazar); Kasiram (Dood Bowli); Magan Chand Vedi (Hussaini Alam); Syed Ahmed (Qazipura); B. Kishan Lal (Gulzar Houz); K. Gopal Rao (Petla Burj); Naseeruddin Ahmed Chelapura); Babar Baig (Darulshafa); Dr. Syed Aktar Ahmed (Purani Haveli); Gulam Mohd. Khan Lodhi (Pathergatti); Jahandar Ali Khan Afsar (Mogalpura); Manohar Raj Saxena (Shah Ali Banda). Note: R means Reserved.

STANDING COMMITTEE

Mohammed Azamuddin (*Chairman*); Pokermal Gupta; Baber Baig; D. Yadiah; Mahendarji; M. A. Rasheed; K. Laxminarayana; Ahmedullah Qadri; B. Ramdev; M. Babu Rao; Ranjit Singh; Gulam Afzal Biyabani.

BUDGET FOR 1958-59

Income	.. .. ..	Rs. 1,02,23,140
Expenditure	.. .. ..	Rs. 1,02,18,645
Surplus	.. .. ..	Rs. 4,495

SECUNDERABAD MUNICIPAL CORPORATION

Mayor, A. Viswanatha Rao, B.A., LL.B.
Deputy Mayor, A. Narayanaswamy, B.A., LL.B.
Commissioner, M. Dharamraj Mathur, B.A.
Assistant Commissioner, S. M. Mutura, B.A.
City Engineer, P. Ramachandra Reddy, B.E., A.M.I.E.
Assistant City Engineer, C. V. Warudu, B.E.
Medical Officer of Health, Dr M. Gousuddin, M.B.B.S., D.P.H., L.R.C.P., M.R.C.S., D.T.M. & H. (Lond.).
Assistant Medical Officers of Health, Dr. Maruthi Rao, L.M. & S., D.P.H. (Cal).; Dr. M. S. Govindaraman, L.M.P.; Dr. Jagadishwar Rao, B.Sc., M.B.B.S.; Dr. Mohan Rao, M.B.B.S., Dr. R. Hardings, M.B.B.S.; Dr. Mathav Reddy, M.B.B.S.
Licence Officer, Mohd. Jahangir, M.A.
Taxation Officer, Bipin Chandra, B.A.
Conservancy Officer, A. R. Bhaktul.
Legal Adviser, K. Ramgopal, B.A., LL.B., Advocate
Public Relations Officer, T. Rajagopalachari, L.S.G.D.
Examiner of Accounts, Mohd. Sherfuddin, B.A.S.

MEMBERS

A. Viswanatha Rao; A. Narayanswamy, Sait Mukundas Malani; A. Sardar Singh; Gadepalli Jagannadham; B. P. Reddy; N Ramaswamy; C. R. Krishna Rao; G. Achiah; B. Mallikarjuna Rao; S. Satyanarayana Gupta; A. K. Babiah; D. Padma Rao; Mohd Siddique; K. R. Lingamiah; G. Narsimha Rao; K. Sreeramulu; J. Gandiah; Smt. Kumudini Devi; T. Ramaswamy; M. Suryanarayana; M. Ramchandriah; Ved Prakash Dusa); B. Nagabushanam; D. Augamiah; C. Rajanarsimha; K. R. Abbiah; M. Swamy.

Estimated income for 1957-58: Rs. 25,52,522.
Estimated expenditure for 1957-58: Rs. 26,06,864.

ASSOCIATIONS, INSTITUTIONS, ETC.

ALL-INDIA GRAPHITE, CRUCIBLE MANUFACTURERS ASSOCIATION (Regd.)

Rajahmundry.

President, Nanubhai H. Bhatt, B.Sc.
Secretary, Manepalli Subbanna.

ALL-INDIA OILSEEDS GROWERS' ASSOCIATION

Nidubrolu.

ALL-INDIA RAILWAY USERS FEDERATION

Simhagadam, Buckinghampet, Vijayawada 2.

ALUMINIUM CASTWARE MANUFACTURERS ASSOCIATION

Rajahmundry.

ANDHRA CHAMBER OF COMMERCE

Andhra Chamber Building, 272/73, Angappa Naick Street, Madras 1.

Also at 66-B, Rashtrapati Road, Secunderabad.
President, V. Venugopal.
Vice-Presidents, V. Ramaswamy Chetty; S. Venkatarangam; Dandoo Pentiah.
Treasurer, G. Cunniah Chetty.
Secretary, M. S. Sambasivam.

THE ANDHRA FILM CHAMBER OF COMMERCE

Gandhinagar, Buckinghampet, P.O. Vijayawada 2.

ANDHRA PRADESH CHEMISTS & DRUGGISTS ASSOCIATION

Metropolitan Club, Hanuman Tekdi, Hyderabad.

President, J. F. Da Costa Fernes. *Secretary*, Dr. Ramesh Gandhi. *Treasurer*, G. N Desai

ANDHRA PRADESH FLYING CLUB

Begumpet Aerodrome.

President: M. P. Pal, I.C.S., *Chief Secretary, Government of Andhra Pradesh; Secretary* Lt.-Col. M. M. Ali.

Subscription: Rs. 30 per annum or Rs. 3 per month (Temporary). Entrance fee: Rs 30

ANDHRA PRADESH GRAIN & SEEDS MERCHANTS ASSOCIATION

Pahade Niwas, Osmangunj, Hyderabad

President, Bhagwandas Agarwal *Vice President*, Kalva Suryanarayana. *Honorary General Secretary*, Kothuru Seethaiah Gupta M.L.A

ANDHRA PRADESH MEDICAL COUNCIL

C/o Office of the Director of Medical Services, Andhra Pradesh, Sultan Bazar, Hyderabad

Ex-Officio President, Director of Medical Services, Andhra Pradesh.

Registrar, Secretary and Treasurer, R. S. V. Appa Rao, B.A., LL.B

THE ANDHRA PRADESH OIL MILL-OWNERS ASSOCIATION

4-3-349, Bank Road, Hyderabad

President, Bankatlal Badruka *Hon. Secretary*, Dundoo Balanarsiah. *Joint Secretary*, B. Kishenlal

ANDHRA PRADESH PRINTERS' ASSOCIATION

Opp Deepak Mahal Talkies, Narayanguda, Hyderabad

ANDHRA PROVINCIAL CINE-VISITORS ASSOCIATION

Vizianagaram

Object: Promotion of cultural and technical standards of the film industry

President, Vedula Jagannadha Rao *General Secretary*, Gurajada Suryanarayana Murty

ANDHRA YUVAJANA SANGAM

Shanker Veedhi, Secunderabad

President, J. Sathiah; *Organising Secretary* A. S. Mallian; *General Secretary*, K. Balaih Goud.

ANJUMAN KHADIMUL MUSLIMEEN

Amberpet Road, Hyderabad

Literary, Industrial and Social.

President, Nawab Liakut Jung *Vice President*, Khan Bahadur Abdus Salam Sayed *Secretary*, Syed Mohiuddin Qadri.

THE BEZWADA RETAIL CLOTH MERCHANTS' ASSOCIATION (Regd.)

Main Bazaar, Vijayavada 1.

President, Venkayala Veeraraghavulu *Vice-President*, Nunna Lakshminarayana Murty *Secretary*, Majety Ramamohan Rao.

THE BHARAT SCOUTS AND GUIDES

Bashir Bagh, Hyderabad.

State Chief Commissioner, M. P. Pal, I.C.S *State Commissioner (Scouts)*, S. M. H. Naqvi *State Commissioner (Guides)*, Smt. Z. R Ranji

CENTRAL P. & T. RECREATION CLUB

Telephone Exchange Building, Secunderabad.

President, D. N. Ramchandani, B.E., *Vice President*, K. V. De Patel; *General Secretary*, M. A. Hiy Baig, B.A.

CHAMBER OF COMMERCE

Vizianagaram.

THE COCANADA CHAMBER OF COMMERCE
Commercial Road, Kakinada.

Chairman, H. Churchill.
Committee, N. C. Krishnaiah; M. S. Subramanyam.
Secretary, W. Le Faucheur.

COUNTRY TOBACCO MERCHANTS' ASSOCIATION
Ramgopal Street, Vijayawada.

THE CUDDAPPAH DISTRICT OIL MANUFACTURERS ASSOCIATION
Proddatur (P.O.), Cuddapah Dist.
President: J. Vemaiah, B.A.; *Secretary:* M. Krishna Murthy.

CUDDAPPAH TURMERIC MERCHANTS' ASSOCIATION
Mundy Bazar, Cuddapah.
President, G. G. Sreeramulu Chetty, *Secretary*, B. R. Bagrecha.

DAKSHINA BHARATA HINDI PRACHAR SANGH
Vijayawada 2.

DISTRICT SALES TAX ASSESSEES ASSOCIATION
Tyre House, Agraharam, Guntur.

ELLORE CLOTH & YARN MERCHANTS ASSOCIATION
Eluru (W.G. Dist.).

FEDERATION OF COMMERCE & INDUSTRIES
352, Sultan Bazar, Hyderabad.
President, Mukunddas Mohanlal Malani. *Vice-President*, Bankatlal Badruka. *Hon Secretary*, G. L. Sanghi, M.Com.

THE GODAVARI CHAMBER OF COMMERCE LTD.
Vallabhai Street, Kakinada, East Godavari Dist.

GOLD, SILVER, JEWELLERY AND DIAMOND MERCHANTS ASSOCIATION OF ANDHRA PRADESH
Suvarna Satram, Gunduwari Street, Rajahmundry.
President, Sait Sampath Kumar Bang. *Hon. Secretary*, Pothapragada Mallikarjana Rao.

THE GOUTHAMI CHAMBER OF COMMERCE
Main Road, Rajahmundry.
President, Nagavarapu Seshagiri Rao; *Secretary*, Ganti Dattatreya Murty; *Auditor*, Kastury Subbarao, B.Sc., F.S.A.A.

GUDIVADA CHAMBER OF COMMERCE
Gudivada.

GUNTUR PATTANA HINDI PREMI MANDALI.
Kothapetah, Guntur.
President, Gudivada Pulla Rao.
Secretary, Ch. L. Narasimha Murty.

HINDI SAMACHARPATRA SANGRAHALAYA
Kasaraṭṭa Road, Hyderabad 2.
Hindi Press Museum.
President, Pt. Banarsidas Chaturvedi, M.P.
Hon. Secretary, B. A. Oza.

THE HYDERABAD (DECCAN) CHAMBER OF COMMERCE AND INDUSTRIES
171, Chapel Road, Hyderabad.
President, M. G. Lakshminarasu. *Vice-President* and *Hon. Secretary*, Dawar Husain Kazi.

HYDERABAD CHILDREN'S AID SOCIETY
A-10-438, Hardikarbagh, Himayetnagar, Hyderabad Dn.
President, Smt. Lalita Sachar. *Hon. Secretary*, V. K. Dhage, M.P. *Jt. Hon. Secretaries*, Smt. Tehminabai Dhage; Smt. Dr. Kamalini Bhandari.

THE HYDERABAD CINE DISTRIBUTORS' ASSOCIATION
No. 8, Rashtrapathi Road, Secunderabad.
President, Mohamed Ali Karmali. *Vice-President*, Srichand Jain. *Hony. Secretary*, D. P. Syal.

THE HYDERABAD CLOTH MERCHANTS' ASSOCIATION (REGD.)
No 15-9-312, First Floor, P.O. Afzulgunj, Hyderabad.
President, Erram Satyanarain, *Vice-Presidents*, Sreekishenji Dhoot, Ramkrishnarao Ranjitkar; *Hon. Secretary*, Laxminarain Moolchand.

HYDERABAD GRAIN MERCHANTS' ASSOCIATION
Sultan Bazar, Hyderabad.

HYDERABAD MANUFACTURERS' ASSOCIATION
Daulat Mansion, Begum Bazar, Hyderabad

HYDERABAD MUSLIM CHAMBER OF COMMERCE.
Nizamshahi Road, Hyderabad.

HYDERABAD - SECUNDERABAD IRON & HARDWARE CONTROL STOCKISTS' ASSOCIATION
3364, Rashtrapati Road, Secunderabad 3
President: Chotalal Chaturbhooj; *Vice-President*, Durga Durgiah; *Hony Secretary*, R M. Trivedi

THE HYDERABAD STATE FILM CHAMBER OF COMMERCE
No. 8, Rashtrapathy Road, Secunderabad.
President, Mohamed Ali Karmali Nathani; *Vice-Presidents*, R. V. Shah V. Ganesh Iyer *Hon. Secretary*, Narendranath Chopra.

HYDERABAD STOCK EXCHANGE LTD.
Bank Road, Hyderabad

HYDERABAD TRADE ASSOCIATION
Singhvee Bhavan, Tilak Road, Hyderabad.
President, Amolak Chand. *Hon. Secretary*, Banarsilal Gupta. *Hon. Treasurer*, Tarachand Agarwal.

THE INDIAN CHAMBER OF COMMERCE
Guntur.
President, Maddi Sudarsanam.
Vice-Presidents, P. Subrahmanyam; V. Gurunadham; K. Ramakrishna Moorthy.
Hon. Secretaries, G. Pullarao; P. M. Row.

INDIAN MEDICAL ASSOCIATION
(Krishna District Branch). Masulipatan P.O.
President, Dr. C. B. Ethirajulu, M.B.B.S., F.D.S. *Secretary*, Dr. V. Subbarao, M.B.B.S.

INDIAN RED CROSS SOCIETY
(Andhra Pradesh State Branch)
St. Mary's Road, Secunderabad.
President, The Governor of Andhra Pradesh, Bhimsen Sachar. *Chairman*, Smt. Lalita Sachar. *State Secretary*, A. G. Naidu.

THE INDIAN TOBACCO ASSOCIATION
Guntur.
President, A. S. Krishna.
Secretary, K. Ramakrishnamurthy.
Treasurer, Y. K. S. Prakasa Rao.

THE KRISHNA DISTRICT CHAMBER OF COMMERCE
Fort Road, Masulipatam.
President, Dr. A. N. Rao; *Vice-President and Treasurer*, Tadepalli Sriramulu Garu; *Secretary*, M. L. N. Gupta Garu.

MADRAS MICA ASSOCIATION
Gudur (Nellore Dist).
President, P. Kota Reddy Garu, B.A. *Vice-President*, P. Venkatakrishna Reddy. *Secretary*, Palepu Dasaratharama Reddy.

THE METAL MERCHANTS' & MANUFACTURERS' ASSOCIATION
Gunduvari Street, Rajahmundry.
President, Sampatkumar Bang. *Hony Secretaries*, P. Sundaram & P Sriramurty.

MICA SCRAP DEALERS' ASSOCIATION
Gudur.

NARI SUDHAR SOCIETY,
Asifnagar, Hyderabad.
Rescue Home.
Ag. Secretary, L. H. Latif.

NATIONAL PROGRESSIVE ASSOCIATION
Mettuguda-Extension, Lallaguda (Post), Secunderabad.
President, S Ethiramanujiah *Hon Secretary*, B. Jannardhan Rao *Treasurer*, M. Mudhukrishna

THE NATIONAL YOUTHS' UNION
2462 2, Rangrez Bazar, Secunderabad.
President, M. P. Sreenivasuloo. *General Secretary*, K. S. Sathyanarayana, B.A. *Treasurer*, B. Heroji Rao, B.Com., LL.B.

THE NELLORE CHAMBER OF COMMERCE
Tobacco Field, Nellore 1.
Hon. Secretary and Treasurer, Kalahasti Ramanatham, B.A., B.Ed.

OIL MERCHANTS' ASSOCIATION
Rajahmundry.
President, Balanagu Ramamohana Rao.

PRINCESS NILOUFER HOSPITAL FOR WOMEN AND CHILDREN AND PAEDIATRIC CENTRE AND INSTITUTE OF CHILD HEALTH
Red Hills, Hyderabad.
Officer-in-Charge: Dr. Harish Chandra, M.B., M.R.C.P. (Lond.), D.C.H. (Eng.), D.C.H. (Bom.).
Associate Professors of Paediatrics: Dr. Abdul Hafeez Haquani, M.B., M.R.C.P., D.C.H. (Eng.), (*Medicine*); Dr. D. Anjaneyulu, M.B, M.S., (*Surgery*).

RAJAHMUNDRY CHAMBER OF COMMERCE LTD.
Rajahmundry.
President, D. Ramamohan Rao; *Hony. Secretary*, K. Atma Ram.

THE RAJAHMUNDRY CHILLIES MERCHANTS ASSOCIATION
17/156, opposite to Vullitosa Post Office, Rajahmundry.
President, Grandhi Nagabhushanam. *Vice-President*, Chalumuri Apparao. *Secretary*, Mavuri Veerabhadrudu.

THE RAJAHMUNDRY CLOTH MERCHANTS' ASSOCIATION
Rajahmundry.
President, T. Venkataswamy. *Vice-President*, V. Venkata Ratnam. *Hon. Secretary*, Inumarty Veerabhadra Rao.

THE RAJAHMUNDRY JAGGERY MERCHANTS ASSOCIATION
17/156, Opposite Vullitosa Post Office, Rajahmundry.
President, Grandhi Nagabhushanam. *Vice-President*, Kantipudi Ramarao. *Secretary*, Balanagu Peda Venkataraju.

RAMAKRISHNA VIVEKANANDA SAMITI (CULTURAL)
3458, Rastrapati Road, Secunderabad.
President, Dr. G. S. Melkote, M.P. *Vice-President*, Rai Barkatrai. *Hon. Secretary*, B. V. Sitarama Sastri.

REGIONAL RESEARCH LABORATORY
Hyderabad 9.
Director, Dr. S. Husain Zaheer.

SECUNDERABAD TRADES ASSOCIATION
151, Sappers Lines, Secunderabad.
President, Dwarkaprashad.
Honorary Secretary, P. T. Parakh.

SECUNDERABAD YARN & COLOUR MERCHANTS' ASSOCIATION
Secunderabad.

SRI VENKATESWARA UNIVERSITY ORIENTAL RESEARCH INSTITUTE
Tirupati, Chittoor District.
Director, J. Chenna Reddy. *Curator-Librarian*, N. Subramania Sastri.

TAMARIND MERCHANTS' ASSOCIATION
Rajahmundry.
President, Anala Venkata Apparao.

TOBACCO MERCHANTS' ASSOCIATION
Rajahmundry.
President, K. Nagireddy, B.A., B.Sc. (Ag.). *Vice-President*, D. Veeraswamy Reddy, *Secretary*, P. Tatabbai.

TUNI MERCHANTS' ASSOCIATION
Tuni, East Godavary District.
President: D. Ch. Yarakayya. *Secretary*, Maddala Ramachandra Rao, B.A., B.L. *Treasurer*, Ch. Venkata Subbaryudu.

VIJAYAWADA APARALA VARTHAKULA SANGHAM
Canal Road, Vijayawada 1.
President, Batchu Krishnaiah. *Vice-President*, Kaja Venkata Subbaiah. *Secretary*, Vemula Appaiah.

VISHAKAPATNAM STEVEDORES ASSOCIATION
Vishakapatnam.
President, K. S. Dutt. *Hony. Secretary*, S. K. Mukherjee.

VISHAKAPATNAM DISTRICT PRESS CORRESPONDENTS' ASSOCIATION
Vani Press, Main Road, Vizianagaram City.
President, Pasumarthi Venkata Subbarao. *General Secretary*, Gurajada Suryanarayana Murty.

VIZAGAPATAM MERCHANTS' ASSOCIATION (Regd.)
Main Road, Vishakapatnam.
President, A. Narasinga Rao. *Hony. Secretary*, K. Janakiramaiah. *Hony. Treasurer*, V. M. Rao.

VUYYURU POLYTECHNIC
Vuyyuru P.O., Krishna Dist.
Principal, P. H. N. B. Sarma, M.Sc., A.M.I.E.E. (Lond.), A.M.I.E. (Ind.); *Head of Civil Engg Section*, C. Narasimha Murthy, B.E.

WEST GODAVARI MERCHANTS' CHAMBER
P.O. Eluru.

YOUNG MEN'S CHRISTIAN ASSOCIATION
Sardar Patel Road, Secunderabad.
President, Col. M. Verghese. *General Secretary*, John A. Masilamoni. *Branch Secretary*, D. S. Chinnadorai.

YOUNG MEN'S IMPROVEMENT SOCIETY
(Estd. 1879 A.D.)
Near Clock Tower, Sultan Bazar, Hyderabad 1.
President, L. N. Gupta, I.A.S.; *Vice-President*, Vasudev K. Naik, M.L.A.; *Honorary Secretary*, V. D. Thatte, M.Sc.

YOUTHS' CULTURAL ASSOCIATION
18, Temples, Audiahnagar, Secunderabad
Hon. Secretary, C. Ramanandham; *Jt Secretary*, B. Babu Rao; *Treasurer*, M. Sathyanarayana.

YUVAJANA SANGAM
Soma Sundaram Street, Secunderabad
President, N. Sathya Narayana. *Vice-President*, L. Jagadeswariah. *Hon. Secretary*, M. Narasinga Rao.

SMALL SAVINGS

Below we give net sales of Small Savings Scrips from April 1957 to March 1958 (in Rs. '000):

Andhra 4,41,31; Assam 1,40,81; Bihar 4,19,40; Bombay 15,93,00*; Delhi 1,38,64; Himachal 5,72; Kashmir 33,52; Kerala 1,26,99; Madras 6,67,30; M.P. 2,59.55; Manipur 3,59; Mysore 1,47,56; Orissa 99.23; Punjab 4,46,94; Rajasthan 1,52,59; Tripura 5,92; U.P. 8,92.79; W. Bengal 7,32,31; Base Post Office 2,07.

Total 1957-58 (exclusive of P.O. S.B. interest): 61,77,87.

Total 1956-57 (inclusive of Rs. 5,64,33 P.O.S.B. interest): 61,63,75.

The total of Small Savings—National Saving Certificates, Post Office Savings Bank Deposits, 10 year National Plan Certificates, Post Office Cash Certificates, Defence Savings Certificates, Defence Savings Bank Deposits, 15 year Annuity Certificates—are as follows. The first figure shows receipts and the second outstandings. The figures are in Rs. Lakhs:

1951-52: 145,25; 168,37; 1952-53: 146,83; 211,93; 1953-54: 152,71; 252,96; 1954-55: 177,35; 310,29; 1955-56: 203,53; 380,04; 1956-57: 225,68; 440,17.

The 10 year National Plan Certificates were issued from May 10, 1954 to May 30, 1957. The outstandings in 1954-55 were Rs. 7,38 lakhs; 1955-56, Rs. 16,38; 1956-57, Rs. 25,38 lakhs.

The 12 Year National Plan Savings Certificates were issued from June 1, 1957. The receipts and outstandings respectively in Rs. Lakhs are as follows:

1957 June: 3,08; 3,08. July 5,20; 8,28. Aug. 5,03; 13,31. Sept. 6,86; 20,17. Oct. 6,17; 26,33. Nov. 6,48; 32,82. Dec. 6,41; 39,23. 1958 Jan. 7,95; 47,18. Feb. 10,24; 57,42.

* approximate

NATIONAL OUTPUT

The figures are for 1956-57 (provisional):

Net output-Rs. abja (at current prices) 114·1

Net output (at 1948-49 prices) [illegible]

Per Capita (at current prices) Rs. 294·3.

Per Capita (at 1948-49 prices) Rs. 284·0.

Rs. abja = Rs. 100 crores.

NATIONAL INCOME (Category)

The figures are for 1956-57 (provisional) in Rs. abja (Rs. 100 crores).

Agriculture 58·9; Mining, manufacturing, small enterprises 19·7; Commerce, Transport and Communication 19·3; Other Services 16·1

National income = 114·1.

PRODUCTION

AGRICULTURE

The area in acres and the production in tons of some commodities for 1957-58 are given below: (final estimates):

Rice: 79,027,000 acres; 24,821,000 tons. Jowar: 41,411,000 acres; 8,056,000 tons. Bajra: 27,453,000 acres; 3,565,000 tons: Maize 9,762,000 acres; 3,064,000 tons. Ragi: 5,897,000 acres; 1,716,000 tons. Groundnut: 14,457,000 acres; 4,271,000 tons. Sesamum: 5,287,000 acres; Potatoes (first estimate): 592,000 acres. Dry Chillies: 1,534,000 acres; 3,55,000 tons.

Milk (1956): 477·7 million maunds. Ghee (average annual): 103·06 lakh maunds valued at Rs. 185 crores. Fish (1956): 1,012,250 metric tons (marine: 7,18,697; fresh water: 2,93,553).

MINERALS

The total value of the minerals produced in India in 1957 was Rs. 125·7 crores. During 1956 the total value was Rs. 108·2 crores.

Some individual figures are: manganese Rs. 13·9 crores, salt Rs. 7·4 crores, gold Rs. 5·1 crores, iron ore Rs. 4·3 crores, limestone Rs. 3·8 crores, copper-ore Rs. 2·7 crores, mica Rs. 2·3 crores, ilmenite Rs. 1·7 crores.

Coal: 43·5 million tons. Iron ore: 5,020,000 tons. Mica: 606,883 cwts. Salt: 9·83 crore maunds (164 factories). Export of salt: 1·19 crore maunds. Manganese: 1,574,000 tons.

Cement: 5·6 million tons (installed capacity: 5·7 million tons).

LIVE-STOCK

The following figures relate to 1966.

Total (provisional): 307·1 million.

Cattle 158·9 million, goats 56·6 million, buffaloes 44·8 million, sheep 38·7 million, horses and ponies 1·5 million, poultry 97·4.

It is estimated that about 468 lakh cows and 215 lakh she buffaloes aged 3 years and above are maintained for breeding or milk purposes.

There are a total number of 36,548,000 wooden ploughs, 1,787,000 iron ploughs, and 10,707,000 carts in use for agricultural purposes. The power-driven sugarcane crushers numbered 21,000 those operated by bullocks 518,000.

Oil-engines and electric pumps used for agricultural purposes number 113,000 and [illegible] respectively.

MILK

Figures for 1956:

Total production: 477·7 million maunds (buffalo milk 254 million, cow's 207 million, goats' 16·5 million).

Percentage of utilization:

As fluid milk: 39·2, ghee: 40, curds 5·5, butter 6·1, khoa 4·8, cream 0·7, ice-cream 0·5, others 0·4.

Per capita consumption in country: [illegible] ounces per day.

COMMERCIAL FIRMS

Abdul Razack Haji Shukoor, Secunderabad.
Abdul Razack & Co., Charkaman, Hyderabad.
Ahmed Aladin & Co., Khan Bahadur, Aerated & Ice Factory, Secunderabad.
Alembic Distributors Ltd., 542, Sultan Bazar, Hyderabad (Dn.).
Ali Mohamed Hashim Dorajiwala, Secunderabad.
Amman Bole Nagiah, Kerana Merchant, Secunderabad.
Ananth Medical Stores, Sarojinidevi Road, Secunderabad (Dn.).
Argus & Co., Chapel Road, Hyderabad (Dn.).
Aryan Industries Ltd., 108, Walker Town, Secunderabad (Dn.).
Azam Steam Press, Moghulpura, Hyderabad.
Azamjahi Mills Ltd., 159, Gunfoundry, Hyderabad (Dn.).
Aziz & Co., Abid Road, Hyderabad (Dn.).
Badshah & Sons, Standard Works, Station Road, Hyderabad.
Balle Latchmiah & Sons, Siddiambar Bazar, Hyderabad (Dn.).
Barman Brothers, Barman Building, Gunfoundry, Hyderabad (Dn.).
Basvaraj Sharanbasappa Appa & Sons, Secunderabad.
Batliboi & Co., (HYD.) Ltd., Kingsway, Secunderabad (Dn.).
Bedde Engineering Co., Rashtrapati Road, Secunderabad (Dn.).
Bharath Engineering Co., The, 7939, Rani Ganj, Secunderabad.
Bijjala Veeriah Gupta, Siddiambar Bazar, Hyderabad.
Bombay Cycle and Motor Agency of Secunderabad Ltd., Secunderabad.
Bulchand & Co., Abid Road, Hyderabad (Dn.).
Central Bank of India Limited, Hyderabad (Dn.).
Central Trading Co., Rashtrapati Road, Secunderabad (Dn.) 3
Ch. Legnaiah & Sons, Kingsway, Secunderabad.
Chandulal T. Parikh & Co., Secunderabad.
Cheekoty Veerannah & Sons, Secunderabad.
Chidura Vasudev Kantiah Srinivasulu & Co., Bashirbagh, Hyderabad.
Chimalgi, V. G., Kingsway, Secunderabad (Dn.).
Chinoy Challani & Co., Abid Road, Hyderabad.
Chotooram Jagadesh Pershad, Osman Gunj, Gunj, Hyderabad.
Dandoo Balanarasiah & Sons, Secunderabad.
Dandu Angiah Telkonti Balkrishtiah, Secunderabad.
Dastagir & Co., S. G., Jam Bagh, Hyderabad.
Dastoor & Sons, Sarojinidevi Road, Secunderabad (Dn.).
Debonier, Nampally, Hyderabad.
Deccan Chronicle, 147, Sardar Patel Road, Secunderabad.
Deccan Engineering and Refrigeration Co., 133, Kingsway, Secunderabad (Dn.).
Deccan Porcelain & Enamel Works Ltd., Bakaram, Hyderabad.
Deccan Wine and General Stores, Secunderabad.
Deen Dayal Indrumull, Hous, Hyderabad.
Defiance Automobiles, Mahatma Gandhi Road, Secunderabad (Dn.).
Douglas Bros., 8692, Kingsway, Secunderabad.
E. J. Krishnamurti, Opp. Azamabad P.O., Hyderabad (Dn.).
Lanajee & Sons, D., Afzalgunj, Hyderabad.
Eastern Federal Union Insurance Co., Bashir Bagh Road, Hyderabad.
Easwariah & Sons, G., 14, New Bhoiguda, Secunderabad (Andhra Pradesh).
G. Raghunathmall Bank Ltd., Hyderabad (Dn.).
Ganga Bishen Mohanlal, Osman Gunj, Hyderabad.
Gautam Cycle & Motor Stores, Mahatma Gandhi Road, Secunderabad (Dn.).
General Stone Supplying Co., Shahbad Stone, Lime and Bricks, Moazzam Jahi, Market Road, Hyderabad.



Makers of Security Equipment, Steel Furniture, Typewriter machines, Steel Windows, Steel Tubing. GODREJ & Boyce Mfg. Co. Private Ltd., 1239, Abid Road, Hyderabad (Dn.). Phone : 5155. Grams : "GODREJ-SAFE." Offices or Stockists all over India and abroad.

Gopalakrishniah, P., 12, New Bhoiguda, Secunderabad (Dn.).
Gowrishanker, Osman Gunj, Hyderabad.
Gubba Ramalingiah Gari Malliah, Osman Gunj, Hyderabad.
Gunli & Co., 89, Sarojinidevi Road, Secunderabad (Dn.).
H. Abbas Hussain Mulla Ehsan Ali, Siddiamber Bazar, Hyderabad (Dn.).
Habib Ahmed Khan, 83, Public Garden Road, Hyderabad.
Haji Abdul Sathar Ismail, Secunderabad.
Haji Badruddin Gulam Hussain, Siddiamber Bazar, Hyderabad (Dn.).
Haji Dada Haji Abba, Lad Bazar, Hyderabad.
Haji Razack Haji Mohd. Saya, Nizam Sahi Road, Hyderabad (Dn.).
Hindustan Co-operative Insurance Society Ltd., 113, Station Road, Hyderabad (Dn.).
Hindustan Corporation Ltd., Domalguda, Hyderabad (Dn.). Grams : "HIND-CORP". Phone : 4409.
Hiranand Ramsukh, Maharaj Gunj, Hyderabad (Dn.).
Hussaini Stores, Madan Building, Hyderabad (Dn.).
Hyderabad Agricultural Marketing Co., Gunfoundry, Hyderabad.
Hyderabad Allwyn Metal Works Ltd., Sanalnagar, Hyderabad (Dn.).
Hyderabad Button Factory, Charminar, Hyderabad.
Hyderabad Chemicals & Fertilisers Ltd., Sarojinidevi Road, Secunderabad (Dn.).
Hyderabad Chemical and Pharmaceutical Works Ltd., P.O. Box No. 182, Industrial Area, Hyderabad (Dn.).
Hyderabad Commercial Corporation Ltd., Station Road, Nampally, Hyderabad.
Hyderabad Construction Co., Ltd., Secunderabad.
Hyderabad Co-operative Central Trading Society Ltd., The, B/17/655, Station Road, Hyderabad.
Hyderabad (Deccan) Traders, 793, Station Road, Abid Circle, Hyderabad (Dn.).
Hyderabad Oil & Paint Co. Ltd., The, Industrial Area, Azamabad, Hyderabad (Dn.).
Hyderabad Iron & Steel Works Ltd., Azamabad P.O., Hyderabad (Dn.).
Hyderabad Potteries Ltd., 95, Park Lane, Secunderabad (Dn.).
Hyderabad Wood Works, 8552, Mahatma Gandhi Road, Ranigunj, Secunderabad (Dn.).
Indian Hume Pipe Co., Ltd., Industrial Area, Azamabad, Hyderabad (Dn.).
Indian Iron and Steel Corporation, The, 8571, Rashtrapathi Road, Secunderabad.
Industrial & Agricultural Engineering Co. (Hyderabad) Ltd., Gunfoundry, Hyderabad (Dn.).
Ishaq & Sons, H. M., Secunderabad.
Jalal Main, H. M., Afzal Gunj, Hyderabad.
Jamnalal Bansilal, Begum Bazar, Hyderabad.
J. B. Mangaram & Co., Hyderabad (Dn.).
J. C. Pinto & Co., Newspaper Agents & Book-Sellers, H.O., 113/1, Sarojinidevi Road, Secunderabad, Branch : Abid Road, Hyderabad, A. P. Telegrams : "Pintoco." Phone : 6879.
J. & J. DeChane, Residency Road, Hyderabad (Dn.).
John & Co., Abid Road, Hyderabad (Dn.).
Kareem & Sons, J. A., Secunderabad.
Kathiawar Stores, Mahatma Gandhi Road, Secunderabad (Dn.).
Khaderia Karkhana, Kasaratta, Hyderabad.
Kirloskar Bros. Ltd., Kingsway, Secunderabad (Dn.).
K. Karumakar & Sons, G.P.O. Lane, Abid Road, Hyderabad.
Komma Veeriah & Sons, Tobacco Bazar, Secunderabad (Dn.).
Koniyalal Buchiah, Pandura Pundarieum, Siddiamber Bazar, Hyderabad.
Kooshappa Thakur Shah Chavan, Secunderabad.
Kylasa Sarbhayya, Secunderabad.
Kylasa Veeriah Chitamberiah, Secunderabad.
Lalji Meghji, Iron Merchant, Secunderabad.
Leslie Gay & Co., Station Road, Hyderabad (Dn.).
Light House Talkies, Gunfoundry, Hyderabad (Dn.).
Madan Gopal Jamnalal, Begum Bazar, Hyderabad.
Madan Mohan Metal Industries, 108, Walker Town, Secunderabad (Dn.).
Madhav Rao & Sons, Secunderabad.
Madras Cycle & Motor Mart, 7936, Mahatma Gandhi Road, Secunderabad (Dn.).
Majestic Radio House, Gunfoundry Road, Hyderabad (Dn.).
Mehta, D. J., Secunderabad.
M. K. Mudaliar & Sons, 8059, Rashtrapathy Road, Secunderabad (Dn.).
Mohamed Ali & Brothers, Moazam Jahi Market, Hyderabad.
Mohamed Ali & Sons, Secunderabad.
Mohamed Noorullah & Peddy Shivrajiah, Afzal Gunj, Hyderabad.
Mohamed Younus & Sons, Abid Road, Hyderabad.
Mohan Brothers, Mozamjahi Market, Road, Hyderabad.
Mohanlal Nalani, Secunderabad.
Mudliar & Co., Abid Road, Hyderabad.
Mulla Abdul Kader Mulla Fida Ali, Khairatabad, Hyderabad (Dn.).
Nanakram Bhagwandass, Osman Gunj, Hyderabad.
National Pharmacy, 8733, Imperial Post Office Lane, Abid Road, Hyderabad (Dn.).
National Sanitary Engineering Co., Secunderabad.
National Soap Factory, Secunderabad.
National Trading Agencies, Secunderabad.
Nizam Sugar Factory Ltd., Abid Road, Hyderabad (Dn.).
Osmania General Agency, 87 E & F, Rashrapati Road, Secunderabad (Dn.).
Osmanshahi Mills Ltd., 159, Gunfoundry, Hyderabad (Dn.).
Peer Mohamed & Co., Sha-Rah-Osmani, Hyderabad.
Peer Mohamed & Co., Secunderabad.
Pereira & Sons, 95, Sarojinidevi Road, Secunderabad (Dn.). 3, Andhra Pradesh.
Prabhat Automobiles, 54, James Street, Secunderabad (Dn.)
Prince Store, Abid Road, Hyderabad (Dn.)
Prudential Co-operative Central & Urban Bank Ltd., The, Secunderabad.

Radio Talkie House and Educational Films Guild, opp. State Bank, Gunfoundry, Hyderabad (Dn.).
Raja Deen Dayal & Sons, State Photographers, Secunderabad.
Ramannah & Sons, K. B., Hardware and General Merchants, Secunderabad.
Ramashwar K. Anjiah, Hardware Merchant, Afzal Gunj, Hyderabad.
Ram Prasad, Ltd., Engineers & Contractors, 8/501, Jubilee Hills, Hyderabad (Dn.), 4.
Reliance Automobiles, Rashtrapati Road, Secunderabad (Dn.).
Row Ponde & Co., 148, Kingsway, Secunderabad.
R. R. Gopal, Pathergatti, Hyderabad.
Saba & Co., Chapel Road, Hyderabad (Dn.).
Salarjung Sugar Mills Ltd., 499/A-2, New Road, Bashir Bagh, Hyderabad (Dn.).
Scientific Engineering House Ltd., Bashir Bagh, Hyderabad I.
Shanker Electrics, Dealers in everything electrical, 205, Abid Road, Hyderabad (Dn.).
Shanker Electric Stores, Mahatma Gandhi Road, Secunderabad (Dn.).
Sebastian & Sons, 113, Oxford Street, Secunderabad.
Secunderabad Trading Co., Iron and Steel Merchants, Secunderabad.
Standard-Vacuum Oil Co., 2538, Rashtrapathi Road, Secunderabad (Dn.).
Syed Abdul Khadar & Sons, Machlikaman, Hyderabad.
Syed Mohamed Sayeeduddin, Siddiambar Bazar, Hyderabad.
Taj Clay Works Ltd., Husain Sagar, Tank Road, Hyderabad.
Tayeb Ali & Sons, Secunderabad.
Tayeb Ali Haji, Charkaman, Hyderabad.
Totaram Ramgus Brothers, Abid Road, Hyderabad (Dn.).
Totaram Sagarlal & Sons, Jewellers, Abid Road, Hyderabad (Dn.).
Vazir Sultan Tobacco Co., Ltd., Azamabad Industrial Area, Hyderabad (Dn.).
Vishwanath Dayaram Jahi, Secunderabad.
YOUSUF COMPANY, Tent, Shamiana etc., Manufacturers Suppliers, Dyeing & Textile Printing Works, Nizamabahi Road, Hyderabad (Dn.) (India); Office: Yousuf Co., Phone No. 4346; Tent Factory R. B. Mills; Phone: 2825; Industrial Area; Telegrams: "RANGWALA."
Zimat Store, 203, Abid Road, Hyderabad (Dn.).

CLASSIFIED LIST OF TRADES & PROFESSIONS

ADVERTISING AGENTS AND CONSULTANTS

Edin & Co.—Shahrah-e-Osmani, Hyderabad-Dn.
L. S. P. Natarajan.—Advertising Consultant, 69, Kingsway, Secunderabad-Dn.
Modern Press & Publicity.—Estd. 1942, G.P.O. Lane, Abid Road, Hyderabad-Dn.
Ojo Publicity.—Hindustan Gully, Hyderabad-Dn.
Premier Publicity Co., The.—Kasaratta Road, Hyderabad-Dn. 2.
Saba & Co.—Chapel Road, near Gunfoundry, Hyderabad-Dn.

AERATED WATER MANUFACTURERS

Badshah & Sons.—Station Road, Hyderabad-Dn.
Baria & Sons.—55, Sebastian Road, Secunderabad-Dn.
Spenses Aerated Waters.—106, Sardar Patel Road, Secunderabad-Dn.

AGRICULTURAL MACHINERY AND IMPLEMENTS

Belde Engineering Company.—144, Rashtrapathi Road, Secunderabad-Dn.
Deccan Metal Works.—Mahatma Gandhi Road, Secunderabad-Dn.
Gunti & Co.—89, Sarojini Devi Road, Secunderabad.
Industrial Stores Co., The.—11, Durga Bhavan, Rashtrapathi Road, Secunderabad.
Pushp Trading Co.—Rashtrapathi Road, Secunderabad.
Rayyat Commercial Corporation Ltd.—141, Kingsway, Secunderabad.
Secunderabad Agricultural Machinery Co.—150, Kingsway, Secunderabad-Dn.

AIR-CONDITIONING AND REFRIGERATION

Deccan Engineering & Refrigeration Co.—133, Kingsway, Secunderabad-Dn.
Emsco Engineering Corporation.—142, Rashtrapati Road, Secunderabad-Dn.

ARMS & AMMUNITION

SECUNDERABAD ARMOURY.—2, Durga Bhavan, Kingsway, Secunderabad. Grams: "ARMOURY". Importers & Exporters of Arms & Ammunition and Shikar requisites.

AUTOMOBILE DEALERS

Aruna Automobiles.—Park Lane, Secunderabad-Dn.
Bombay Cycle & Motor Agency Ltd.—Ginwalla Buildings, Mahatma Gandhi Road, Secunderabad (Dn.).
Defiance Automobiles.—Mahatma Gandhi Road, Secunderabad-Dn.
Hind Auto Engineering Co.—Rashtrapathi Road, Secunderabad-Dn.
Madras Cycle & Motor Mart.—7986, Mahatma Gandhi Road, Secunderabad-Dn.
Modern Automobiles.—62, Oxford Street, Secunderabad-Dn.
Reliance Automobiles.—Rashtrapati Road, Secunderabad-Dn.

AUTOMOBILE ENGINEERS

Aruna Automobiles.—Park Lane, Secunderabad-Dn.
Auto Chemoy.—62-D, Sarojini Devi Road, Secunderabad.
Defiance Automobiles.—Mehta Mahal, 49, Mahatma Gandhi Road, Secunderabad-Dn.
Premier Motors.—Sarojini Devi Road, Secunderabad.

AUTOMOBILE PARTS AND ACCESSORIES

Deccan Metal Works.—Mahatma Gandhi Road, Secunderabad-Dn.
Defiance Automobiles.—Mehta Mahal, 49, Mahatma Gandhi Road, Secunderabad-Dn.
Hindustan Corporation Ltd.—Domalguda, Hyderabad-Dn.
Hyderabad Auto Service.—Mehta Mahal, 49, Mahatma Gandhi Road, Secunderabad.
Industrial Stores Co. Hyderabad Ltd.—11, Durga Bhavan, Rashtrapathi Road, Secunderabad.
Lakshmi Automobiles.—Ranigunj, Secunderabad-Dn.
Prabhat Automobiles.—54, Mahatma Gandhi Road, Secunderabad (Dn.).
Rane Ltd.—51, James Street, Secunderabad-Dn.
Supreme Automobiles.—Ranigunj, Secunderabad-Dn.

BAKERS AND CONFECTIONERS

John & Co.—Abid Road, Hyderabad.
J. Pile & Co.—103, Park Lane, Secunderabad-Dn.
Punjab Bakery.—Nampally, Hyderabad-Dn.
Pushp Trading Co.—Rashtrapathi Road, Secunderabad.

BANKS

The Hyderabad Co-operative Baldia Bank Ltd.—Bashir Bag Road, Hyderabad (Dn.).
The Hyderabad State Co-operative Bank Ltd. (Estd. March 1915), Hyderabad-Deccan.
The Prudential Co-operative Central & Urban Bank Ltd.—Secunderabad.

BATTERIES

Defiance Automobiles.—Mahatma Gandhi Road, Secunderabad Dn.
Hyderabad (Deccan) Traders.—793, Station Road, Hyderabad-Dn.
Reliance Automobiles.—Rashtrapati Road, Secunderabad-Dn.
V. V. Alurkar & Sons.—111, Kingsway, Secunderabad-Dn.

BELTING (TEXTILE)

C. P. Shah & Brothers.—Ranigunj, P. O. Box 103, Secunderabad. Nampally, Hyderabad-Dn.
Standard Engineering Co.—138, Kingsway, Secunderabad Dn.

BOLTS, NUTS AND SCREWS

Commercial Trading Corporation.—Ranigunj, Secunderabad-Dn.
C. P. Shah & Brothers.—Ranigunj, P.O. Box 103, Secunderabad.
TRIVEDI, R. M., & SONS.—3364, Kingsway, Secunderabad-Dn. Phone: 6736. Grams: "LIBERTY". Sole Distributors for Premier Stores Supplying Co. Ltd.

BOOKSELLERS AND NEWSPAPER AGENTS

Kadambi.—75, Oxford Street, Secunderabad-Dn.
Oxford Book Depot.—Oxford Street, Secunderabad-Dn.
Purohit & Company.—H. O.: Sultan Bazar, Branch: Gunfoundry, Hyderabad-Dn.
Venkatrama & Co.—Kingsway, Secunderabad.

BOOTS AND SHOES MAKERS AND DEALERS

Deccan Shoe Works.—103, Park Lane, Secunderabad-Dn.
John Lee & Co.—Kingsway, Secunderabad-Dn.
Modern Footwear Mart.—Kingsway, Secunderabad-Dn.
Novelty Foot Wear.—402, Abid Road, Secunderabad-Dn.
Reliance Shoe Co.—103, Park Lane, Secunderabad-Dn.
Zinath Stores.—206, Abid Road, Hyderabad-Dn.

BUTTON MANUFACTURERS

OZA & CO.—Kasaratta Road, Hyderabad 2. Manufacturers of Buttons, Buckles, Badges etc.; Electroplaters, Govt. Contractors, Importers, Exporters; Dealers in Non-Ferrous Metals, Chemicals, Machinery etc. Grams: "OZA".

CABLES AND WIRES

Central Trading Co.—Rashtrapathi Road, Secunderabad-Dn.
Vishnu Trading Co.—6/B, Rashtrapathi Road, Secunderabad-Dn.

CHEMICALS MANUFACTURERS

Hyderabad Chemicals & Fertilizers Ltd.—Oxford Street, Secunderabad-Dn.
Hyderabad Chemical Supplies Ltd.—Sharah-e-Osmania, Hyderabad-Dn.
J. & J. DeChane.—Manufacturing Chemists, Residency Road, Hyderabad-Dn.
JANATA MEDICAL HALL.—Abid Road, Hyderabad (Deccan), Chemists & Druggists. Partners: Shamlal Gupta, Banarsilal Gupta, Rametar Gupta, Tarachand Agarwal and Ramkishan Agarwal.
Nath Laboratories.—Bashir Bagh Road, Hyderabad-Dn.
Pushp Trading Co.—Rashtrapathi Road, Secunderabad.

CHEMISTS AND DRUGGISTS

ANANTH MEDICAL STORES.—Dispensing Chemists & Druggists. Agents for British Drug Houses (India) Private Ltd., Bombay for Andhra; Wholesale Dealers in Surgical Goods, Hospital equipments, Patent Medicines and Antibiotics. 87-B, Sarojini Devi Road, P.O. Box No. 81, Secunderabad-Dn. 3; Phone: 6270. Grams: "MEDICINE".
CHUNILAL DAYALDAS.—Post Box No. 5, Hyderabad 2. Importers, Exporters and Stockists for Country Drugs, Aromatic Chemicals, Perfumery Compounds, Essential Oils, Capsules, Empty Glass Bottles and other toilet requisites.
J. & J. DeChane.—Residency Road, Hyderabad-Dn.
John & Co.—Abid Road, Hyderabad.
Kathiawar Stores.—Mahatma Gandhi Road, Secunderabad-Dn.
Rex & Co.—Station Road, Hyderabad-Dn.

CIGARETTE FACTORIES

Hind Tobacco & Cigarette Co., Ltd.—Hyderabad-Dn.
Vazir Sultan Tobacco Co., Ltd.—Azamabad, Hyderabad-Dn.

CINEMA MACHINERY

Cine Supplies Ltd.—7, Rashtrapati Road, Secunderabad-Dn.
Evergreen (Bangalore) Ltd.—Kingsway, Secunderabad-Dn.
Leo Kine Agency.—Rashtrapati Road, Secunderabad-Dn.

CONFECTIONARY

TRIVEDI, R. M., & SONS.—3364, Kingsway, Secunderabad (Dn.). Phone: 6782. Grams: "LIBERTY". Sole Distributors for C. & E. Morton (India) Ltd.

CROCKERY, CUTLERY AND GLASSWARE

Bawa Glass Co.—Abid Road, Hyderabad-Dn.
Kathiawar Stores.—Mahatma Gandhi Road, Secunderabad-Dn.

CYCLE & ACCESSORIES DEALERS

Afzul Cycle & Motor Stores.—James Street, Secunderabad-Dn.
Gautam Cycle & Motor Stores.—93, Mahatma Gandhi Road, Secunderabad-Dn.
Krishna Cycle Stores.—17, Mahatma Gandhi Road, Secunderabad-Dn.
Laxmi Cycle Importing Co.—21, Mahatma Gandhi Road, Secunderabad-Dn.
Raja Cycle & Motor Works.—Abid Road, Hyderabad-Dn.

DIESEL AND OIL ENGINES

Belde Engineering Co.—6549, Rashtrapati Road, Secunderabad-Dn.
Emson Engineering Corporation.—142, Rashtrapati Road, Secunderabad-Dn.
Kakay Engineering Corporation.—139, Kingsway, Secunderabad-Dn.
Hind Auto Engineering Co.—Rashtrapati Road, Secunderabad-Dn.
Hindustan Corporation Ltd.—Domalguda, Hyderabad-Dn.
Industrial Stores Co. Hyderabad Ltd.—11, Durga Bhavan, Rashtrapathi Road, Secunderabad.
Pereira & Sons.—Pereira Buildings, 95, Sarojinidevi Road, Secunderabad-Dn. 3.
Standard Engineering Co.—No. 3, Durga Bhuvan, 141, Kingsway, Secunderabad-Dn.
Textool Co., Ltd.—6568, James Street, Secunderabad-Dn.
V-X-L Agency.—138, Rashtrapathi Road, Secunderabad.

DISINFECTANTS AND INSECTICIDES

Deccan Seed Stores.—Bashir Bagh, Hyderabad-Dn.
Hyderabad Chemicals & Fertilizers Ltd.—Oxford Street, Secunderabad-Dn.

DRAWING MATERIALS

Mehta Brothers.—Shahrah-e-Osmani, Hyderabad-Dn.
Modern Fotos.—Abid Road, opp. Grammar School, Hyderabad-Dn.
National Paint & Varnish Works.—61, James Street, P.O. Box No. 1, Secunderabad-Dn.
Scientific Engineering House Ltd.—A-10-335, Bashir Bagh, Hyderabad-Dn.

DYESTUFFS

Chandulal T. Parikh.—Kingsway, Secunderabad-Dn.
Ganesh Trading Co.—154-H, Rashtrapati Road, Secunderabad-Dn.
Pushp Trading Co.—Rashtrapathi Road, Secunderabad.

ELECTRIC MOTORS AND DYNAMOS

Belde Engineering Co.—6549, Rashtrapathi Road, Secunderabad-Dn.
Metro Engineering Corporation.—Secunderabad-Dn.
Sun Electric & Motor Stores.—3153, Kingsway, Secunderabad-Dn.

ELECTRICAL ENGINEERS AND CONTRACTORS

Associated Engineering Co.—137, Kingsway, Secunderabad-Dn.
Deccan Electric Stores.—10, Sultan Bazar, Hyderabad-Dn.
Dominion Engineering Corporation.—P.O. Box No. 37, Rashtrapathi Road, Secunderabad-Dn.
Hyderabad General Electric Stores.—Opp. Grammar School, Abid Road, Hyderabad-Dn.
M. K. Mudaliar & Sons.—8059, Rashtrapathi Road, Secunderabad-Dn.
Nathoo Laljee.—Gunfoundry Road, Hyderabad-Dn. Phone: 5118.
Shanker Electrics.—205, Yousuf Mansion, Abid Road, Hyderabad-Dn.
Shanker Electric Stores, The.—Shanker Mahal, 31, Mahatma Gandhi Road, Secunderabad-Dn.
Standard Radio Electronics.—Sultan Bazar, Hyderabad-Dn.

ELECTRICAL GOODS DEALERS

Belde Engineering Company.—6549, Rashtrapathi Road, Secunderabad-Dn.
Bombay Electric Stores.—121, James Street, Secunderabad-Dn.
The Central Trading Co.—Rashtrapathi Road, Secunderabad-Dn.
Chandra Electrics.—3121, Kingsway, Secunderabad-Dn.
Deccan Electric Stores.—10, Sultan Bazar, Hyderabad-Dn.
Dominion Engineering Corporation.—P. Box No. 37, Rashtrapathi Road, Secunderabad-Dn.
Hindustan Corporation Ltd.—Domalguda, Hyderabad-Dn.
Scientific Electricals.—Bank Street, Sultan Bazar, Hyderabad-Dn.
Shanker Electrics.—205, Yousuf Building, Abid Road, Hyderabad-Dn. Phone: 4506.

Phone: 7411 Estd. 1924 Grams: "ELECTRIC"

THE SHANKER ELECTRIC STORES

Licensed Electrical Contractors & Direct Importers & Stockists of Everything Electrical.

Head Office: Shanker Mahal, 31, Mahatma Gandhi Road, Secunderabad.

Branch: Kingsway, Secunderabad.

Sun Electric & Motor Stores.—3153, Kingsway, Secunderabad-Dn.
Vijay Radio & Electric Service.—King's Corner, Abid Road, Hyderabad-Dn.
V-X-L Agency.—138, Rashtrapathi Road, Secunderabad-Dn.

ENGINEERS AND CONTRACTORS

D. Hamajee & Sons.—Afzalgunj, Hyderabad-Dn.
Deccan Metal Works.—Mahatma Gandhi Road, Secunderabad-Dn.
Hyderabad Deccan Engineering Co., Ltd.—6608-A, Rashtrapathi Road, Secunderabad (Dn.).

FERTILIZERS

Deccan Seed Stores.—Bashir Bagh, Hyderabad-Dn.
Hyderabad Chemicals & Fertilizers Ltd.—Oxford Street, Secunderabad-Dn.
Emson Engineering Corporation.—142, Kingsway, Secunderabad (Dn.).

FLOORING PRODUCTS

R. M. TRIVEDI & SONS.—3364, Kingsway, Secunderabad (Dn.). Phone: 6782. Grams: "LIBERTY." Sole Distributors for former Hyderabad State area for India Linoleums Ltd.

FURNITURE

Belde Engineering Co.—6549, Rashtrapathi Road, Secunderabad-Dn.
Deccan Safe Co.—Shahrah-e-Osmani, Hyderabad-Dn.
HYDERABAD WOOD WORKS, THE.—Mahatma Gandhi Road, Secunderabad-Dn.; Furniture Makers, Upholstery, Radio Cabinet makers, Motor Car & Truck Body Builders, Doors and Windows Manufacturers, Soft Wood Crates and Packing Cases Manufacturers.
Sharda Stores.—3106, Kingsway, Secunderabad-Dn.
Siddheshwar & Co.—Abid Road, Hyderabad-Dn.

GENERAL MERCHANTS

Bulchand & Co.—(Silk Palace), Abid Road, Hyderabad-Dn.

THE CENTRAL TRADING CO.

(Established 1930)

Rashtrapati Road, Secunderabad (Dn.)-3

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Telegrams: **CENCO**

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John & Co.—Abid Road, Hyderabad.
Motilal Jajir & Co.—Mahatma Gandhi Road, Secunderabad-Dn.

THE HINDUSTAN CORPORATION (HYDERABAD) LTD.

Domalguda, Post Box No. 121, Hyderabad (Deccan)

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Residence: 2338

Agents in
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Olivetti Typewriters & Calculators
"Radio" Lamps, Fluorescent Tubes and Other Products
"KASSELS" Fans, Mack Truck Spare Parts and Cleveland Water Heaters

Pushp Trading Co.—Rashtrapathi Road, Secunderabad.
Ramsingh Aggarwal & Co.—66, Rashtrapati Road, Secunderabad-Dn.
Trivedi, R. M., & Sons.—3364, Kingsway, Secundarabad-Dn. Phone: 7292.

HARDWARE DEALERS

Commercial Trading Corporation.—Ranigunj, Secunderabad-Dn.
C. P. Shah & Brothers.—Ranigunj, P.O. Box 103, Secunderabad.
Deccan Metal Works.—Mahatma Gandhi Road, Secunderabad-Dn.
National Sanitary Engineering Co.—146, Kingsway, Secunderabad-Dn.
Premier Hardware Corporation.—1223, General Bazar, Secunderabad-Dn.
R. M. TRIVEDI & SONS.—3364, Kingsway, Secunderabad (Dn.). Phone: 6782. Grams: "LIBERTY". Sole Distributors for former Hyderabad State area for India Linoleums Ltd.
Secunderabad Iron & Steel Co.—60/A, James Street, Secunderabad-Dn.

HOSPITAL EQUIPMENT

Ananth Medical Stores.—87B, Sarojinidevi Road (Oxford Street) Secunderabad-Dn.
GODREJ. Godrej & Boyce Mfg. Co. Private Ltd.—1239, Abid Road Hyderabad-Dn.
Hyderabad Allwyn Metal Works Ltd.—Sanatnagar, Hyderabad-Dn
Hyderabad Chemical Supplies Ltd.—Sharah-e-Osmania, Hyderabad Dn.

HOTELS & RESTAURANTS

Ritz Hotel.—Hill Fort Palace, Hyderabad (Dn.).
The Royal Hotel.—Opp. Nampaly Rly. Station, Hyderabad (Dn.)

IRON AND STEEL MERCHANTS

Atlas Steel Ltd.—41, Oxford Street, Secunderabad-Dn.
Secunderabad Iron & Steel Co.—60-A, James Street, Secunderabad-(Dn.)
Trivedi, R. M., & Sons.—3364, Kingsway, Secunderabad-Dn.

JEWELLERS

TOTARAM MURARILAL & SONS.—Abid Road, Hyderabad (Dn.); Bankers, Jewellers and Manufacturers. Partners: Murarilal Totaram, Shamlal Gupta, Banarsidial Gupta and Rameshar Gupta.

LIBRARY STACK

GODREJ. Godrej & Boyce Mfg. Co. Private Ltd.—1239, Abid Road, Hyderabad (Dn.).

LUBRICATING OILS AND GREASES

Belde Engineering Co.—6549, Rashtrapathi Road, Secunderabad-Dn.
Chandulal T. Parikh.—Kingsway, Secunderabad-Dn.
Madras Cycle & Motor Mart.—7936, Mahatma Gandhi Road, Secunderabad-Dn. Phone: 7247.
V-X-L Agency.—138, Rashtrapathi Road, Secunderabad.

MACHINERY MANUFACTURERS, DEALERS AND IMPORTERS

Batliboi & Co. (Hyderabad) Ltd.—New Mody Building, Rashtrapathi Road, Secunderabad (Dn.).
Belde Engineering Co.—6549, Rashtrapathi Road, Secunderabad-Dn.
C. P. Shah & Brothers.—Ranigunj, P.O. Box 103, Secunderabad.
Commercial Trading Corporation.—Ranigunj, Secunderabad-Dn.
Hind Auto Engineering Co.—Rashtrapathi Road, Secunderabad-Dn.
Industrial Stores Co. Hyderabad Ltd.—11, Durga, Bhavan, Rashtrapathi Road, Secunderabad-Dn.
Praga Tools Corp. Ltd.—Kawadiguda Road, Secunderabad
Rayyat Commercial Corporation Ltd.—141, Kingsway, Secunderabad-Dn.
Standard Engineering Co.—138, Kingsway, Secunderabad-Dn.
Textool Co., Ltd.—3668, James Street, Secunderabad Dn.
V. V. Alurkar & Sons.—111, Kingsway, Secunderabad Dn.

MECHANICAL & ELECTRICAL ENGINEERS

BATLIBOI & COMPANY

Proprietors:

Bhogilal Leherchand Private Ltd.,

New Modi Building, Rashtrapathi Road, Secunderabad (Dn.)

Electrical and Mechanical Engineers and Machinery Merchants.

Phone: 6486

Grams: "BATLIBOICO"

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Agents for:

Praga Tools Corpn. Limited.
Mysore Kirloskar Limited.
Cooper Engineering Limited.
Addison & Co., Private Limited.

MILL GIN STORES SUPPLIERS

Chimanlal T. Shah & Co.—Post Box No. 48, Secunderabad-Dn.
C. P. Shah & Brothers.—Ranigunj, P.O. Box 103, Secunderabad; Nampally, Hyderabad-Dn.
COMMERCIAL TRADING CORPORATION.—Ranigunj, Secunderabad-Dn. Phone: 6120. Grams: "SHANTO". Dealers in Hardware Builds, Mill Gin Stores, Brass Fittings, Pipes, Pipe Fittings, Pumps, Boilers, Flour Mills & Diesel Engines.
Industrial Stores Co. Hyderabad Ltd., The.—11, Durga Bhavan, Rashtrapathi Road, Secunderabad.

MOTION PICTURE DISTRIBUTORS

RASHID MEHTA & CO.—8, Rashtrapathi Road, Secunderabad. Grams: "RASLA". Film Distributors. Prop.: M. Rashid H. Mehta. Phone: Office 6273; Residence 6193.

MOTOR CYCLE DEALERS

Associated Trades (Deccan).—Rashtrapathi Road, Secunderabad.
Fram & Co.—Mahatma Gandhi Road, Secunderabad-Dn.
Reliance Automobiles.—Rashtrapathi Road, Secunderabad-Dn.
Sohrab Brothers.—Bank Street, P.O. Box 207, Hyderabad-Dn.

NEWSPAPER AGENTS

Pinto & Co., J. C.—Agents for *Times of India* & Allied Publications. Sarojinidevi Road, Secunderabad (Dn.). Grams: "PINTOCO." Phone: 7372.

NON-FERROUS METALWARE MANUFACTURERS

DUNDOO AUGIAH BALANARASIAH.—Dundoo Chambers, Rashtrapathi Road, Secunderabad-AP; Dealers and Manufacturers of Non-Ferrous Metalwares; Grams: "BRASS". Phone: 6085.

OCULISTS AND OPTICIANS

Dastoor & Sons (Regd.).—87-B, Sarojinidevi Road, Secunderabad-Dn.
Deccan Optical & Allied Industries Ltd.—Bashir Bagh, Hyderabad-Dn.
Hardy & Co.—Ophthalmic Opticians, 124, Mahatma Gandhi Road, Secunderabad-Dn.
Krishna Optical Co.—103, Mahatma Gandhi Road, Secunderabad-Dn.
Optical Centre.—Mahatma Gandhi Road, Secunderabad-Dn.
Optical Palace.—Abid Road, Hyderabad-Dn.
Standard Opticians.—Abid Road, Hyderabad-Dn.
Vision Optic House.—536, Abid Road, Hyderabad-Dn.

OFFICE EQUIPMENT

GODREJ. Godrej & Boyce Mfg. Co. Private Ltd.—1239, Abid Road, Hyderabad (Dn.).
Hyderabad Allwyn Metal Works Ltd.—Sanatnagar, Hyderabad-Dn.
Vauhini Press, De Luxe Printers.—Kingsway, Secunderabad-Dn.

PAINTS, ENAMELS AND VARNISHES

Dominion Engineering Corporation.—P. Box No. 37, Rashtrapathi Road, Secunderabad-Dn.
The Hyderabad Oil & Paint Co., Ltd.—Industrial Area, Azamabad, Hyderabad-Dn.
National Paint & Varnish Works.—Managing Office: 61, Mahatma Gandhi Road, P. Box No. 1, Secunderabad-Dn.
National Trading Agencies.—61, Mahatma Gandhi Road, P.O. Box No. 1, Secunderabad-Dn.
Paints House.—Shahrah-e-Osmania, Hyderabad-Dn.
Pushp Trading Co.—Rashtrapathi Road, Secunderabad.
Sri Balaji Paints & Hardware Mart.—Jambagh Road, Hyderabad-Dn.

PAPER MERCHANTS

Batchu Lingiah & Sons.—General Bazar, Secunderabad-Dn.
B. Shankerlal & Sons.—Pathergatti, Hyderabad-Dn.
B. V. R. Balreddy & Co.—Park Lane, Secunderabad-Dn.
Fida Ali Mohamed Ali.—Pathergatti, Hyderabad-Dn.
G. Amritlal & Co.—Gawliguda, Hyderabad-Dn.
Goli Rahevariah.—General Bazar, Secunderabad-Dn.
G. Motilal & Sons.—Gawliguda, Hyderabad-Dn.
Govind Venkatesh.—Gawliguda, Hyderabad-Dn.
Hyderabad Paper Syndicate.—Pathergatti, Hyderabad-Dn.
Komna Veeriah & Sons.—Tobacco Bazar, Secunderabad-Dn.
Malay Ramaiu.—General Bazar, Secunderabad-Dn.
Mohamed & Sons.—Siddiamber Bazar, Hyderabad-Dn.
Osmania General Agency.—Rashtrapathi Road, Secunderabad-Dn.
R. M. TRIVEDI & SONS.—3364, Kingsway, Secunderabad (Dn.) Phone: 6788; Grams: "LIBERTY." Sole Distributors for former Hyderabad State area for India Limeweuma Ltd.
Rajab Ali Khan.—Begum Bazar, Hyderabad-Dn.
Sardar & Co.—Begum Bazar, Hyderabad-Dn.
Sirpur Paper Mills Ltd.—Himayatnagar, Hyderabad-Dn.

PHARMACEUTICALS

Daruvala Bros.—Sultan Bazar, Hyderabad-Dn.
Hyderabad Chemical Supplies, Ltd.—Sharah-e-Osmania, Hyderabad-Dn.
Hyderabad Chemical & Pharmaceutical Works Ltd.—Azamabad, Industrial Area, Hyderabad-Dn.
J. & J. De Chane.—Residency Road, Hyderabad-Dn.
Kathiawar Stores.—Mahatma Gandhi Road, Secunderabad-Dn.
L. Fernandez & Son.—Abid Road, Hyderabad-Dn.
Nath Laboratories.—Bashir Bagh Road, Hyderabad-Dn.
Sai Agencies.—Nampally Station Road, Hyderabad-Dn.

PHOTOGRAPHERS

CENTRAL STUDIO.—Bashir Bagh, Hyderabad-Dn. Phone: 2355. Grams: "CENTUDIO"; "By Appointment to the President of India"; For everything Photographic and Cinematic.
Deccan Studio.—Kingsway, Secunderabad-Dn.
Hanagraph Studio.—Abid Road, Hyderabad-Dn.
Liberty Photo Studios.—Liberty Buildings, Hyderabad-Dn.
Raja Dun Dayal & Sons.—Secunderabad-Dn.
Vijay Studio.—Kingsway, Secunderabad-Dn.

PHOTOGRAPHIC MATERIALS

Central Studio.—Bashir Bagh, Hyderabad-Dn.
Liberty Photo Studio.—Liberty Buildings, Bashir Baug, Hyderabad-Dn.
Mehta Brothers.—Shahrah-e-Osmania, Hyderabad-Dn.
Modern Fotos.—Abid Road opp. Grammar School, Hyderabad-Dn.
New Photo Stores.—6656-4, Kingsway, Secunderabad-Dn.
V. G. Chimalgi (Estd. 1924).—Kingsway, Secunderabad.

PIPES AND FITTINGS

Commercial Trading Corporation.—Ranigunj, Secunderabad-Dn.
C. P. Shah & Brothers.—Ranigunj, P. O. Box 103, Secunderabad; Nampally, Hyderabad-Dn.
Deccan Metal Works.—Mahatma Gandhi Road, Secunderabad-Dn.
Industrial Stores Co. Hyderabad Ltd., The.—11, Durga Bhavan, Rashtrapathi Road, Secunderabad-Dn.
M. K. Mudliar & Sons.—8059, Rashtrapathi Road, Secunderabad-Dn.
National Sanitary Engineering Co.—149, United Mansion, Rashtrapathi Road, Secunderabad-Dn.

PRINTING PRESSES

Excelsior Press.—131, Park Lane, Secunderabad.
Hyderabad Printing Works.—Abid Road, Hyderabad-Dn.
Modern Press & Publicity.—G.P.O. Lane, Abid Road, Hyderabad-Dn.
Osmania Printing Works.—87E & F, Rashtrapathi Road, Secunderabad-Dn.
Vauhini Press, De Luxe Printers.—Kingsway, Secunderabad-Dn.

PROVISION MERCHANTS

John & Co.—Abid Road, Hyderabad.
Kathiawar Stores.—James Street, Secunderabad-Dn.
Trivedi, R. M., & Sons.—3364, Kingsway, Secunderabad-Dn.

RADIO DEALERS

Kalidas Radios.—Sultan Bazar, Hyderabad-Dn.
Sound Syndicate.—147-G, Rashtrapati Road, Secunderabad-Dn.
Standard Radio Electronics.—Sultan Bazar, Hyderabad-Dn.
Universal Trading & Radio House.—1240, Abid Road, Hyderabad-Dn.

RAW MATERIALS DEALERS

ARVIND & CO.—Kasaratta Road, Hyderabad 2; Industrial Equipment and Supplies; Specialists in Electroplating Chemicals; Government & Railway Suppliers.

REFRIGERATORS (DOMESTIC)

Belde Engineering Co.—6549, Rashtrapati Road, Secunderabad-Dn.
Deccan Engineering & Refrigeration Co.—133, Kingsway, Secunderabad-Dn.
Emson Engineering Corporation.—142, Rashtrapati Road, Secunderabad-Dn.
Kalidas Radios.—Sultan Bazar, Hyderabad-Dn.
Universal Trading & Radio House.—1240, Abid Road, Hyderabad-Dn.

RICE MILL MACHINERY

C. P. Shah & Brothers.—Ranigunj, P.O. Box 103, Secunderabad.
Standard Engineering Co.—138, Kingsway, Secunderabad-Dn.

SANITARY ENGINEERS AND DEALERS IN SANITARY GOODS

Aurora Sanitary Engineering Co.—1-D, Rashtrapathi Road, Secunderabad.
Barman Brothers.—Barman Building, Gunfoundry, Hyderabad.
Hyderabad Potteries Ltd.—95, Park Lane, Secunderabad Dn. Phone: 7443.
D. Balaram & Sons.—Shahrah-e-Osmani, Hyderabad-Dn.
Itatia Mehta & Co.—Bashir Bagh Road, Hyderabad-Dn.
K. Karunakar & Sons.—Reddy Hostel Buildings, G.P.O. Lane, Abid Road, Hyderabad-Dn.
M. K. Mudaliar & Sons.—8059, Rashtrapathi Road, Secunderabad-Dn.
Nathoo Laljee.—Gunfoundry Road, Hyderabad-Deccan.
National Sanitary Engineering Co.—149, United Mansion, Rashtrapathi Road, Secunderabad-Dn.
Pallonjee Eduljee & Sons.—Gunfoundry, Hyderabad-Dn.
B. R. & Sons.—Shahrah-e-Osmani, Hyderabad-Dn.
Uday Engineering Co.—G.P.O. Lane, Abid Road, Hyderabad-Dn.
Vijay Construction Co.—Bashir Bagh Road, Hyderabad-Dn.

SEWING MACHINES

Nathoo Laljee.—91, Rashtrapathi Road, Secunderabad-Dn.
Textool Co., Ltd.—8568, James Street, Secunderabad-Dn.

SPINNING AND WEAVING MILLS

Aurangabad Mills, Ltd., Aurangabad. Messrs. Gupta & Sons, Agents, Empire House, Hornby Road, Fort, Bombay. Mills at Aurangabad.

Azam Jahi Mills, Ltd., Warrangal. The Industrial Trust Fund, Government of Hyderabad, Agents, 159, Gunfoundry Road, Hyderabad (Dn.).

Mahaboob Shahi Kulburga Mills Co., Ltd., Gulbarga. Messrs. Dayaram Surajmal Lahoti, Agents, Begumpet (Dn.).

Osmanshahi Mills, Ltd., Nanded. The Industrial Trust Fund, Government of Hyderabad, Agents, 159, Gunfoundry Road, Hyderabad (Dn.).

The Dewan Bahadur Ramgopal Mills, Ltd.—Secunderabad (Dn.). Messrs. Lachminarayan Ramgopal & Son, Ltd., Agents, Post Box No. 5, Secunderabad (Dn.).

SPORTS GOODS

Andhra Sports Corporation.—1182-H, Mecklodguda, Secunderabad-Dn.
Ashad Sports.—Station Road (Abid Circle), Hyderabad-Dn.
Deccan Sports.—Abid Road, Hyderabad-Dn.
Regal Sports Co.—127, Mahatma Gandhi Road, Secunderabad-Dn.
Signal Sports Co.—Abid Road, Hyderabad-Dn.

STATIONERS & GOVT. CONTRACTORS

ASHOK TRADERS.—Opp. Grammar School, Abid Road, Hyderabad. Importers, Exporters, Stationers, Paper Merchants and Government Contractors; Partners: Shamlal Gupta, Banarsilal Gupta and Rameshm Gupta.

Deccan Pen Stores.—Shahrah-e-Osmani, Hyderabad-Dn.
Excelsior Press.—131, Park Lane, Secunderabad.
Osmania General Agency.—67E & F, Rashtrapathi Road, Secunderabad-Dn.
Trivedi, B. M., & Sons.—2864, Kingsway, Secunderabad-Dn.

SUGAR FACTORIES

THE NIZAM SUGAR FACTORY LTD.

ANDHRA PRADESH
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and
'NIFA' BRAND CONFECTIONARY

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Head Office:
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Hyderabad-Dn.

Factory:
Shakarnagar,
(C. Rly.)

Cables & Gram:
'SUGAR'

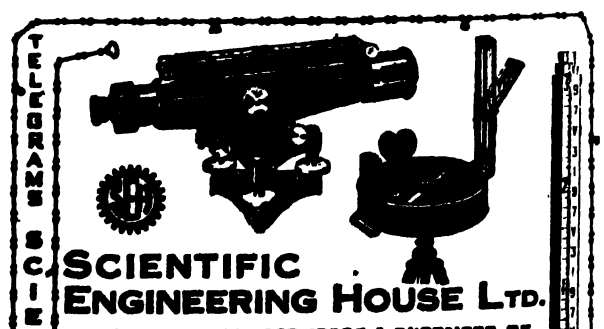
Phone:
(5605, 4937, 4876, 4996).

Representatives of the Managing Agents:
THE HYDERABAD CONSTRUCTION CO., LTD.
Abid Road - Hyderabad (Dn.)

SURGICAL INSTRUMENTS

Ananth Medical Stores.—87B, Sarojinidevi Road (Oxford Street), Secunderabad-Dn-3.
Hyderabad Chemical Supplies Ltd.—Sharah-e-Osmania, Hyderabad-Dn.
Pushp Trading Co.—Rashtrapathi Road, Secunderabad.

SURVEYING, MATHEMATICAL AND DRAWING INSTRUMENTS



TOOL MERCHANTS

Belde Engineering Co.—6549, Rashtrapati Road, Secunderabad-Dn.
Metro Engineering Corporation.—Secunderabad-Dn.
Textool Co., Ltd.—8568, James Street, Secunderabad-Dn.

TRAVEL AGENTS

G. Raghunathmull Bank Ltd.—(Travel Dept.), Abid Road, Hyderabad-Dn.

TYPEWRITERS

Deccan Typewriter Co.—Shahrah-e-Osmania, Hyderabad-Dn.
GODREJ. Godrej & Boyce Mfg. Co. Private Ltd.—1239, Abid Road, Hyderabad (Dn.).
Hindustan Corporation Ltd.—Domalguda, Hyderabad-Dn.

TYRES AND TUBES DEALERS

Defiance Automobiles.—Mehta Mahal, 49, Mahatma Gandhi Road, Secunderabad-Dn.
Hind Auto Engineering Co.—Rashtrapathi Road, Secunderabad-Dn. Phone : 7535.
Rane Ltd.—51, James Street, Secunderabad-Dn.

UPHOLSTERY MATERIALS

Haji Zakria Haji Ebrahim.—23, Mahatma Gandhi Road, Secunderabad-Dn.
Hyderabad Wood Works.—Mahatma Gandhi Road, Secunderabad-Dn.

VEGETABLE PRODUCTS (GHEE)

Aryan Industries Ltd.—108, Walker Town, Secunderabad-Dn.
Pushp Trading Co.—Rashtrapathi Road, Secunderabad.

WATCHES AND CLOCKS DEALERS

Bharat Watch Co.—Hyderabad-Dn.
Nathumal Bros.—138, Park Lane, Secunderabad-Dn.
Paradise Watch House.—124, Park Lane, Secunderabad-Dn.
Ramakrishna Watch House.—125, Park Lane, Secunderabad-Dn.
Ramesh Watch Co.—126, Park Lane, Secunderabad-Dn.
Rashid & Co.—Abid Road, Salarjung Building, Hyderabad-Dn.
United Watch Co.—Abid Road, Hyderabad-Dn.

WELDING EQUIPMENT

Belde Engineering Co.—6549, Rashtrapathi Road, Secunderabad-Dn.
Dominion Engineering Corporation.—P. Box No. 37, Rashtrapathi Road, Secunderabad-Dn.

WIRE PRODUCTS DEALERS

Dominion Engineering Corporation.—P. Box No. 37, Rashtrapathi Road, Secunderabad-Dn.
Secunderabad Iron & Steel Co.—60/A, James Street, Secunderabad-Dn. Phone : 7124.

STATES ADMINISTRATIVE PERSONNEL

Andhra

ADMINISTRATIVE PERSONNEL

Governor : Bhimsen Sachar.
Military Secretary to the Governor : Major Yuvraj Yashodan Singh.
Aide-de-Camp : Captain Virendra Pratap.
Private Secretary to the Governor : S. R. Ramamurthy.

Ministers

Chief Minister in charge of General Administration Department (Services, All-India Services, High Court, Transport, Industries and Commerce and Health), N. Sanjiva Reddi.
Home (Police and Prohibition), K.V. Ranga Reddi.
Finance and Commercial Taxes, K. Brahmananda Reddi.
Revenue, including Land Reforms, Registration and Excise, Kala Venkata Rao.
Planning and Development and Information and Public Relations, V. B. Raju.
Irrigation and Power, J. V. Narasing Rao.
Labour and Local Administration, D. Sanjiviah.
Agriculture and Forests, P. Thimma Reddi.
Education and Social Welfare, S. B. P. Pattabhirama Rao.
Law, Subordinate Courts, Prisons, G. Gandhi Venkata Reddi Naidu.
Co-operation and Housing, Nawab Mehdi Nawaz Jung.
Building and Highways and Relief and Rehabilitation, M. Narasing Rao.
Religious and Charitable Endowments and Small-scale and Cottage Industries, A. Bhagawantha Rao.

Secretariat

Chief Secretary to Government, General Administration, M. P. Pai, I.C.S.
Additional Secretary, Industries Department, C. Seshagiri Rao, I.A.S.
Secretary to Government, Home Department, V. Rajeswar Rao, I.A.S.
Secretary to Government, Revenue Department, H. Ram Lal, I.C.S.
Secretary to Government, Finance Department, C. Damodar Reddy, I.A.S.
Secretary to Government, Law Department, H. A. Ayyar, I.C.S.
Secretary to Government, Public Works Department, V. K. Rao, I.C.S.
Secretary to Government, Planning and Development Department, C. Narasimham, I.A.S.
Secretary to Government, Education and Social Welfare Departments, J. P. L. Gwynn, I.C.S.
Secretary to Government, Health and Local Administration Departments, L. N. Gupta.
Secretary to Government, Industries Department, R. Prasad, I.C.S.
Secretary to Government, Agriculture Department, Jagjiwan Chand, I.A.S.

Public Service Commission

Chairman : M. A. Venkataramana Naidu.
Members : G. Rami Reddy, I.A.S. (Retd.); Bakar Ali Mirza, B.A. (Hons.) (Oxon.).
Secretary : Krishniah Naidu.
Asstt. Secretaries : T. Gopalakrishna Rao, Mahmood Husain.
Registrar : M. Zainuddin Siddiqui.

Heads of Departments

Board of Revenue : K. M. Unnithan, I.C.S (*First member*); V. V. Subramanyam, I.C.S. (*Second member*); S. A. Iyengar, I.C.S. (*Third member*); M. T. Raju, I.C.S. (*Fourth Member*); Gulam Hyder, I.A.S. (*Fifth member*); V. Venkatrayudu. (*Secretary*); M. A. Hameed, I.A.S.. (*Joint Secretary*); K. Sambasiva Rao Naidu, I.A.S. (*Addl. Joint Secretary*).
Registrar of Co-operative Societies, G. Viswanatham Shetty.
Inspector-General of Stamps and Registration, W. Venkataswamy.
Director of Endowments and Joint Secretary, Board of Revenue, Trimbak Lal.
Commissioner, Hindu Religious and Charitable Endowments, P. Lakshmiah.
Director, Agriculture and Marketing Department, I. J. Naidu, I.A.S.
Director of Animal Husbandry and Fisheries, Bhagwandas, I.A.S.
Chief Conservator of Forests, Rai Daulat Rai.
Director of Controlled Commodities, V. K. Bawa, I.A.S.
Director, Bureau of Economics and Statistics, Dr. Patnaik.
Director of Public Instruction, Dr. N. Ramlal.
Director of Archæology, Dr. P. Srinivasachary.
Director, C. & I., Anil De, I.A.S.
Director, Central Records, R. M. Joshi.
Joint Director, C. I. Deptt. (Handloom), Dr. R. V. Rao.
Director, Andhra Pradesh Printing Press, Syed Ghulam Rasool.
Labour Commissioner, T. Prabhakar Rao.
Chief Inspector of Forests, A. Ramamurthy.
Addl. Registrar of Co-operative Societies, R. V. Madhusudan Rao.
Director of Social Welfare, A. Chandra Kant.
Director, Tribal Welfare, N. Yaganti.
Director, Women's Welfare, Kumari Jamunabai.
Transport Commissioner and Chairman, State Transport Authority, Syed Ali, I.A.S.
Secretary, State Transport Authority, G. V. Butt.
Inspector-General of Prisons, Syed Mohd Hussain.
Director of Medical Services, Major K. N. Rao, I.M.S.
Director of Public Health, Dr. G. C. Sudarsanam, M.B.B.S., B.S.Sc., C.I.H. (Cal.).
Inspector General of Local Administration, A. Raghava Reddy, I.A.S.
Chief Engineer, Nagarjunasagar Dam Construction, Jaffer Ali.
Chief Engineer, Nagarjunasagar Canals, G. A. Narsimha Rao.
Chief Engineer, Irrigation, Venkatakrishna Ayyar.
Addl. Chief Engineer, Irrigation, J. C. Hardikar.
Chief Engineer (Highways), N. Durrani.
Chief Engineer (General and Public Health), C. Seshavataram.
Chief Engineer (Buildings), Bala Pershad.
Chief Engineer (Electricity), Vacant.
Addl. Chief Engineer (Electricity), S. A. Quader.
Director in-Charge, Deptt. of Information & Public Relations, Narsingrao Manvi.
Fire Force Commander, Syed Sayeed Hasan.
Translator to Government, Boyi Bheemannah.
Director of Settlement, Ghouse Mohiuddin.
Addl. Custodian, Evacuee Property, T. M. Kapoor.
Inspector-General of Police, K. K. Nambiyar, I.P.S.
Addl. Inspector-General of Police, Shivkumalal, I.P.S.
Commissioner of Police, C. Rangaswamy Iyengar, I.P.S.
Director, Anti-Corruption Deptt., C. B. Patil, I.P.S.

HIGH COURT

(Hyderabad).

Chief Justice, Mr. Justice P. Chandra Reddi.
Judges, Mr. Justice K. Umamaheswar Rao; Mr. Justice K. Bhimasankaram; Mr. Justice P. Satyanarayanaraju; Mr. Justice N. D. Krishna Rao; Mr. Justice Syed Qamar Hasan; Mr. Justice Manohar Pershad; Mr. Justice Mohammad Ahmad Ansari; Mr. Justice A. Sreenivasachari; Mr. Justice Pingle Jagan Mohan Reddy; Mr. Justice N. Komarayya; Mr. Justice A. Ranganatham Chetty; Mr. Justice M. Seshachalapathi; Mr. Justice C. Sanjeevarao Naidu; Mr. Justice Davaloor Munikanniah.
Registrar, S. Obul Reddi.

Law Officers

Advocate-General, D. Narasaraju.
Public Prosecutor, Mohd. Mirza.
Government Pleader, Anand Swaroop Chowdary.

ASSAM

ADMINISTRATIVE PERSONNEL

Governor

Saiyid Fazl Ali.

Personal Staff

Private Secretary, T. S. Krishnamurti, M.A., B.Com.

Aides-de-Camp, Capt. S. P. Sethi; S. Hassan Sami, B.A.

Personnal Assistant, M. V. Raisinghani.

Supdt. of the Military Secretary's Office, B. Farewell, B.A.

Council of Ministers

Bimalaprasad Chaliha, *Chief Minister* :—*Appointments, Political (including matters dealt with in the Confidential Department, Home, General Administration including Secretariat Administration, Tribal Areas, Relief and Rehabilitation, Publicity and Information, Transport, Minority Commission, Co-ordination of all other Departments including Development, matters not specifically allotted to any Minister.*

Debeswar Sarma :—*Education, Roads and Buildings under the Public Works Department, Jails.*

Rupnath Brahma :—*Medical and Public Health, Printing and Stationery, Registration and Stamps.*

Kamakhya Prasad Tripathy :—*Planning and Development, Statistics, Labour, Town and Country Planning, Industries and Power (Electricity), Trade and Commerce.*

Hareswar Das :—*Revenue, Forests and Excise.*

Mahendra Nath Hazarika :—*Rural Development (Panchayats), Cottage Industries including Sericulture and Weaving, Khadi and Village Industries Board.*

Fakhruddin Ali Ahmed :—*Finance, Community Projects, N.E.S. Blocks, Local Self-Government and Judicial and Legislative Affairs.*

Moinul Haque Choudhury :—*Agriculture, Pisciculture, Veterinary and Livestock, Supply including Consumer Goods and Textile, Parliamentary Affairs, Flood Control and Irrigation under the Public Works Department and Co-operative Department.*

Williamson A. Sangma :—*Tribal Areas, Publicity and Information.*

Parliamentary Secretaries

A. Thangjam, B.L.—*Chief Parliamentary Secretary, to assist the Chief Minister in dealing with matters relating to Community Projects, N.E.S. Blocks and Transport.*

Lalmawia.—*Parliamentary Secretary, to assist Williamson A. Sangma, Minister-in-charge of Tribal Areas, Publicity and Information in matters entrusted to him by the Minister.*

Secretariat

Chief Secretary, S. K. Dutta, I.C.S.

Joint Secretary, Home, Appointment, Confidential, Secretariat Administration and General Administration Departments, and also Secretary, Tribal Areas Department, G. C. Phukan, I.A.S.

Secretary, Finance Department, Dr. M. N. Goswami, I.A.S.

Secretary, Rural Development, Co-operative Societies, Sericulture, Weaving and Co-operative Departments, K. C. Barua, I.A.S.

Secretary, Labour, Transport, Industries, Departments, S. K. Mullick, I.C.S.

Secretary, Textiles, Supply Department, Town and Country Planning, B. L. Sen, I.A.S.

Secretary, L.S.G., Agriculture and Forests, S. M. Rahman, I.A.S.

Secretary, P. W. Department, B. B. Chaudhury, B.E.

Secretary, Legislative and Judicial Department, Dr. J. C. Medhi, Ph.D. (Lond.), B.L.

Addl. Secretary (Ex-officio), Legislative Department, A. B. Das Gupta.

Joint Secretary, Home Department, D. C. Dutta, I.P.

Secretary, Education and Medical, M. Sultan, I.A.S.

Secretary, Planning and Development, D. R. Kohli, I.C.S.

Secretary, Revenue, Relief and Rehabilitation, S. C. Kagti, I.A.S.

Secretary, Community Projects, R. B. Vaghaiwalla, I.C.S.

Secretary, P.W.D. (Flood Control), A. Z. Ahmed, B.E.

Addl. Secretaries, P.W.D., B. P. Changkakoti, B.E. ; K. Barua.

Heads of Departments

Senior Conservator of Forests, M. C. Jacob, I.F.S.

Chief Engineer, B. Chaudhury, B.E., M.I.E.

Chief Engineer, Flood Control, A. Z. Ahmed, B.E.

Chief Engineer & Electrical Adviser to Government, O. C. Goswami, B.Sc. (Cal.), B.Eng. (Sheff.), A.M.I.Mech. E.

Commissioner of Labour, H. P. Duara, B.Com. (Leeds).

Director of Supply, B. L. Sen, I.A.S.

Director of Agriculture, L. K. Handique, B.Sc. Agri. (Edin.).

Director of Animal Husbandry and Veterinary, M. I. Malik, B.Sc., M.R.C.V.S.

Director of Housing, G. N. Dutt, B.E.

Director of Public Instruction (including technical), Dr. H. Bhuyan, M.Sc., Ph.D. (Bristol).

Commissioner of Excise and Taxes, E. H. Pakyntein, I.A.S.

Director of Health Services, Medical and Public Health, Dr. U. Bardaloi.

Director of Publicity, I. P. Chaudhury, M.A., B.T., B.L.

Commissioner of Plains Divisions, B. C. Kapur, I.C.S.

Commissioner of Hills Divisions and Appeals, A. M. Dam, I.A.S.

Inspector-General of Police, D. C. Dutta, I.P.

Director of Land Records and Surveys, and Registrar-General of Births, Deaths and Marriages, S. J. D. Carvalho, I.A.S.

State Transport Commissioner, George Hamilton.

Director of Economics and Statistics, S. C. Sarma, M.Sc. (Cal.), M.A. (Columbia).

Director of Cottage Industries, Rural Development and Sericulture & Weaving, K. C. Barua, I.A.S.

Development Commissioner, A. N. Kidwai, I.C.S.

Deputy Development Commissioner, R. B. Vaghaiwalla, I.C.S.

Heads of Central Departments

Accountant-General, P. D. Seth, I.A. & A.S.

Collector of Central Excise, A. K. Roy, B.Sc. (Hons.) (Alld.), I.R.S.

Commissioner of Income-tax, Assam, Tripura and Manipur, K. D. Dholakia, B.A. (Cantab), M.A. (Bom.).

Director of Posts and Telegraphs, I. K. Gupta, B.Sc., C.E., A.M.I.E., A.M.I.T.E.

High Court

Chief Justice, Mr. Justice Sarjoo Prasad, M.A., B.L.

Puisne Judges, Mr. Justice H. Deka, M.A., B.L., Mr. Justice G. Mehrotra, B.A., LL.B.

Registrar, B. C. Dutta, B.L.

Asstt. Registrar, D. N. Choudhury, B.Sc.

Deputy Registrar, C. M. De, B.A.

Law Officials

Advocate-General, S. M. Lahiri, M.A., B.L.

Superintendent and Remembrancer of Legal Affairs and Administrator-General and Official Trustee, Dr. J. C. Medhi, Ph.D. (Lond.), B.L.

Law Assistant to the Legal Remembrancer, P. C. Das, B.L., A.C.S.

Senior Government Advocate, Dinanath Medhi, B.Sc., B.L.

Junior Government Advocate and Editor, Law Reports, Assam Series, Rajni Kanta Goswami, B.L.

Public Service Commission

Chairman, A. N. Bhattacharjee, I.A.S. ; *Member*, Mrs. Bonlly Khongmen ; *Secretary*, J. C. Bora, B.A., B.T.

North-East Frontier Agency

Adviser to the Governor, K. L. Mehta, I.C.S.

Adviser for Tribal Affairs, Dr. Verrier Elwin, D.Sc.

Development Commissioner, R. S. Nag, I.F.A.S.

Inspector-General, Assam Rifles, Brigadier A. S. Guraya.

Naga Hills—Tuensang Area

Commissioner, P. N. Luthra.

NORTH-EAST FRONTIER RAILWAY

(Pandu.)

General Manager, D. C. Baljal.

Dy. General Manager (Personnel), (also officiating as Dy. General Manager (Works), S. Ratnamurthi.

Dy. General Manager, Katihar, Rajendra Dev.

Chief Engineer, V. P. Ribeiro.

Chief Traffic Superintendent, Ranjit Singh.

Chief Mechanical Engineer, I. Hydari.

Financial Adviser and Chief Accounts Officer, G. F. Penn Anthony.

Chief Medical Officer, S. L. Malhotra.

Controller of Stores, A. T. Mansukhani.

Chief Electrical Engineer, R. J. Batliwala.

Chief Signal and Tele-communication Engineer, R. S. Mehta.

Engineer-in-Chief (Survey and Construction), B. C. Ganguly.

BIHAR

ADMINISTRATIVE PERSONNEL

GOVERNOR.

Dr. Zakir Hussain.

PERSONAL STAFF.

Secretary to Governor, Lt.-Col. C. S. Bhatnagar.

Aide-de-Camp, Captain G. J. Edulji.

Ministers

Chief Minister and Minister for Appointment & Political (minus Transport), Finance, Industries (including Mines & Mineral Resources), Dr. Sri Krishna Sinha.

Information, Irrigation & Power, Dip Narayan Sinha.

Jails, Relief & Rehabilitation & Transport, Shah Muhammad Ozair Muneml.

Excise, Forest and Welfare, Bhola Paswan.

Revenue (minus Mines & Mineral Resources), Gram Panchayats and Labour, Binodanand Jha.

Food, Supply, Health and Agriculture, Birchand Patel.

Co-operation, Veterinary, Animal Husbandry and Law, Jagat Narain Lall.

Education, Kumar Ganga Nand Singh.

Public Works, Public Health, Engineering, Housing and Local Self-Government, Maqbool Ahmad.

DY. MINISTERS.

Food, A. A. M. Noor.

General Administration, Political, Irrigation and Power, Kedar Pandey.

Industry, Community Projects and Information, Lalliteswar Prasad Shahi.

Gram Panchayats, Co-operative, Animal Husbandry and Veterinary, Hriday Narain Choudhury.

Finance, Ambika Saran Singh.

P.W.D. and Local Self-Government, Sahdeo Mahto.

Revenue, Forests and Religious Trusts, Radha Govind Prasad.

Law and Labour, S. M. Aquil.

Welfare and Health, Sreemati Jyotirmoyee Devi.

Agriculture, Chandrika Ram.

Education and Excise, Krishna Kant Singh.

Secretariat

Chief Secretary to Government, M. S. Rao, I.C.S.

Additional Chief Secretary, S. J. Mazumdar, I.C.S.

Development Commissioner, B. D. Pandey, I.C.S.

Secretary to Government, Finance Department, S. N. Singa, I.A.S.

Secretary to Government, Revenue Department, N. P. Mathur, I.A.S.

Secretary to Government, Labour Department, Bhagwat Prasad Singh, I.A.S.

Secretary to Government, P.W.D. and Irrigation M. R. Huda, I.A.S.

Secretary to Government, Education Department, K. Abraham, I.A.S.

Secretary to Government, Local Self-Government Department, B. N. Rohatgi, I.A.S.

Secretary to Government, Law Department, Sarju Prasad Singh.

Secy. to Govt., Welfare Dept., Rameshwar Prasad, I.A.S.

Secy. to Govt., Relief & Rehabilitation Dept., Mohan Choudhari, I.A.S.

Secy. to Govt., Agriculture and Animal Husbandry Dept., H. N. Thakur, I.A.S.

Secy to Govt., Industries and Co-operative Dept., B. N. Sinha, I.A.S.

Secy. to Govt., Supply and Commerce Dept., M. B. Mukerjee, I.A.S.

Secretary, Bihar Legislative Council, S. C. Lall, Bar-at-Law.

Secretary, Bihar Legislative Assembly, Enayatur Rahman.

Secretary, Housing Dept., R. S. Pandey, I.A.S.

Member, Board of Revenue, N. Bakhshi, I.C.S.

Secretary, Board of Revenue, Rajeshwar Prasad, I.A.S.

Public Service Commission

Chairman, K. S. V. Raman, I.C.S.

Members, B. M. K. Sinha, Muhammad Yahia, M.A., B.L.

Secretary, John Lall.

Asstt. Secretary, R. K. Chaudhri.

Admn. Officer, M. Prasad.

HEADS OF DEPARTMENTS

Accountant-General, P. K. Bardhan, I.A. & A.S.

Collector of Excise (Central), L. M. Kaul, I.R.S.

Commissioner of Income-tax (Central), S. P. Jain, I.R.S.

Postmaster-General (Central), S. C. Sen Gupta.

Chief Conservator of Forests, J. N. Sinha.

Chief Engineer, P.W.D., Bhagwat Prasad.

Chief Engineer, Irrigation, H. K. Niwas, I.S.E.

Chief Inspector of Factories, Atma Nand Singh.

Commissioner of Labour, S. N. Pandey, I.A.S.

Director of Agriculture, B. P. Akhauri.

Director of Extension Services, B. N. Sinha.

Director of Animal Husbandry, Dr. S. K. Sen, B.Sc., M.R.C.V.S.

Inspector-General of Registration and Commissioner of Excise, H. P. Kanth, I.A.S.

Superintendent of Secretarial Press, S. N. Chatterjea.

Director of Industries, Dr. Ajit Mazumdar, I.A.S.

Director of Health Services, Dr. P. A. Singh, *(Acting)*.

Director of Public Relations, Ras Bihari Lal, I.A.S.

Director of Public Instruction, Dr. D. B. Shastri *(Acting)*.

Inspector-General of Police, M. K. Sinha, I.P.

Inspector-General of Prisons, Karan Singh, I.A.S.

Registrar of Co-operative Societies, S. A. F. Abbas, I.A.S.

Chief Electoral Officer, S. A. A. Rizvi.

Director, National Employment Service, Brajkishore Path.

Director, Gram Panchayat, V. Narain, I.A.S.

Commissioner, Commercial Taxes, Anwar Karim, I.A.S.

Chief Engineer, Public Health Engineering, K. R. Bhide.

Chief Engineer, Irrigation (North), P. R. Guha.

Chief Engineer, Electricity, John Kuriyan.

Dy. Director of Public Relations (Hqrs. & Press) and Principal Information Officer, Uma Nath.

Transport Commissioner, S. Akhauri, I.P.

Cane Commissioner, Jhunuk Prasad.

Director, Central Bureau of Economics and Statistics, Dr. D. N. Lal.

HIGH COURT

Chief Justice, Mr. Justice V. Ramaswami, I.C.S.

Mr. Justice Brahmadev Prashad Jamuar, Barrister-at-Law, *Puisne Judge.*

Mr. Justice Bashisth Narain Rai, B.L., *Puisne Judge.*

Mr. Justice Chandreshwar Prasad Sinha, M.A., B.L., *Puisne Judge.*

Mr. Justice Khaleel Ahmad, Barrister-at-Law, *Puisne Judge.*

Mr. Justice Satish Chandra Misra, M.A., B.L., *Puisne Judge.*

Mr. Justice Rati Kant Choudhary, B.L., *Puisne Judge.*

Mr. Justice S. Naqui Imam, Barrister-at-Law, *Puisne Judge.*

Mr. Justice Kamla Sahai, Barrister-at-Law, *Puisne Judge.*

Mr. Justice Rajkishore Prasad, M.A., B.L., *Puisne Judge.*

Mr. Justice Kanhaiya Singh, M.A., B.L., *Puisne Judge.*

Mr. Justice Kameshwar Dayal, B.L., *Puisne Judge.*

Mr. Justice Hemanta Kumar Choudhuri, M.A., B.L., *Puisne Judge.*

Mr. Justice U. N. Sinha, Barrister-at-Law, *Puisne Judge.*

ADDITIONAL JUDGES

Mr. Justice Nand Lall Untwalia, B.L.

Mr. Justice Shib Chandra Prasad, M.A., B.L.

Anant Singh, B.L. *Registrar.*

Chandrika Prasad Singh, M.A., B.L., *Deputy Registrar.*

1st Asstt. Registrar, Chandra Narain Tiwari.

2nd Asstt. Registrar, Tarun Chandra Roy, M.A., B.L.

Commissioner for Oaths and Affidavits, Shiva Prasad, M.A.

BOMBAY

ADMINISTRATIVE PERSONNEL

Governor

SRI PRAKASA.

Personal Staff

Secretary to the Governor : K. K. Moghe, I.A.S.
Comptroller of the Household : T. H. Barker.
A.D.C.'s : Lieut. N. R. Khambatta, I.N., S. D. Mehta, I.P.S.
Asstt. Secretary : S. D. Sawant.
Asstt. Comptroller : E. Digne.
Hony. Surgeon : Dr. S. B. Cooper.
Hony. Physician : Dr. R. J. Vakil.
Hony. Dental Surgeon : Dr. C. T. Chudgar.
Hony. Aides-de-camp : D. G. Moore ; R. S. Modi ; P. K. Chaubal.

Ministers

Chief Minister, Political and Services and Home : Yeshwantrao Balvantrao Chavan.
Minister for Finance : Dr. Jivraj Narayan Mehta.
Minister for Revenue : Rasiklal Umedchand Parikh.
Minister for Labour and Law : Shantilal Harjivan Shah.
Minister for Public Health : Marotrao Sambshio Kannamwar.
Minister for Prohibition, Village Panchayats and Cottage Industries : Ratubhai Mulshanker Adani.
Minister for Agriculture including Aarey Milk Colony : Vasantrao Phulsingh Naik.
Minister for Forests : Bhagwantrao Gambhirrao Ghade.
Minister for Local Self Government (excluding Village Panchayat) : Maneklal Chunilal Shah.
Minister for Planning and Development, Electricity and Industries : Sheshrao Krishnarao Wankhede.
Minister for Public Works : Daulatrao Shripatrao Desai.
Minister for Education : Hitendra Kanaiyalal Desai.
Minister for Civil Supplies, Housing, Printing Press and Fisheries : Kazi Syed Ghiyasuddin Kazi Syed Nasiruddin.
Minister for Co-operation : Trimbak Shivram Bharde.
Minister for Social Welfare and Rehabilitation : Nashikrao Khantadu Tirpude.

Deputy Ministers

Prohibition : Dr. Bhaskar Rambhai Patel.
Roads, Buildings and Ports : Premji Bhavanji Thacker.
Revenue : Shankarrao Bhaorao Chauhan.
Education : Shrimati Nirmala Raje Bhosle.
Agriculture : Devising Venkatsingh Chauhan.
Co-operation : Jaswantlal Sobhagyachand Shah.
Sarvodaya, Forest, Labour Societies & Khar Lands Development Board : Shamrao Ramchandra Patil.
Planning and Development : Gundu Dashrath Patil.
Transport and Jails : Chhotubhai Makanbhai Patel.
Public Health : Dr. Kailasnarayan Shivnarayan Narola.
Irrigation : Madhukar Dhanaji Choudhari.
Social Welfare : Bahadurbhai Kuthabhai Patel.

Secretaries

Parliamentary Secretary to the Chief Minister : Homi J. H. Talyerkhan.
Private Secretary to the Chief Minister : V. Prabhakar, I.A.S.

Secretariat

POLITICAL AND SERVICES DEPARTMENT

Chief Secretary : K. L. Panjabi, I.C.S.*
Special Secretary : V. T. Dehejia, B.Sc. (Bom.), I.C.S., J.P.
Development Commissioner and Ex-Officio Secretary (Planning & Development) : M. R. Yardi, I.C.S.
Deputy Secretary : J. C. Agarwal, I.A.S.
Deputy Secretary : N. S. Pardasani, I.A.S.
Dy. Secretaries and Dy. Development Commissioners : L. N. Bongirwar, I.A.S. ; R. C. Raval, I.A.S. ; S. V. Chavan, I.A.S.
Under Secretaries : B. K. Chougule, I.A.S. ; D. R. Pinge.
Officer on Special Duty : D. A. Gadkary.

REVENUE DEPARTMENT

Secretary : V. Shankar, I.C.S.†
Deputy Secretary : L. R. Dalal, I.C.S.
Deputy Secretary : B. N. Kunte, I.A.S.
Deputy Secretary (Accommodation) : J. B. D'Souza, I.A.S.
Deputy Secretary : P. B. Patil, I.A.S.
Deputy Secretary : M. E. Gangat, B.A.

AGRICULTURE AND FORESTS DEPARTMENT

Secretary : D. D. Sathe, I.C.S.
Joint Secretary and Joint Supply Commissioner : M. G. Pimputkar, I.C.S.
Deputy Secretary : A. K. Majumdar, I.A.S.

LABOUR AND SOCIAL WELFARE DEPARTMENT

Secretary : D. R. Pradhan, I.C.S.
Deputy Secretary : K. A. Gafoor, I.A.S.
Deputy Secretary : B. B. Brahmbhatt, B.Sc.

Heads of Departments

Commissioner of Labour, Bombay : S. E. Sukthankar, I.A.S.
Director of Social Welfare, Bombay State, Poona : B. G. Ghate, I.A.S.
Director of Employment, Bombay : T. M. Sheth, I.A.S.
Administrator, Ulhasnagar Township, Kalyan : K. V. Desai, B.A.
President, Industrial Court, Bombay : M. R. Meher, I.C.S. (Retd.).

INDUSTRIES & CO-OPERATION DEPARTMENT

Secretary : K. P. Mathrani, I.C.S.
Deputy Secretary and State Coal Controller and Secretary, Board of Transport and State Textile Controller : Mohd. Habibuddin, I.A.S.
Deputy Secretary and Director of Civil Supplies : C. V. Bhatt, I.A.S.
Under-Secretary : I. B. Patel.
Officer on Special Duty : S. S. Shukre.
Assistant Secretaries : V. N. Pimenta ; N. S. Pandit ; B. V. Laud ; N. N. Elijah.
Special Officer : C. B. Patel.

HOME DEPARTMENT

Secretary : A. L. Dias, I.C.S.
Deputy Secretary : L. S. Lulla, I.A.S.

FINANCE DEPARTMENT

Secretary : N. T. Mone, I.C.S.
Joint Secretary : V. M. Joshi, I.C.S.
Financial Adviser and Joint Secretary : R. C. Joshi, I.C.S.
Deputy Secretaries : S. K. Gangopadhyay, I.A.S. ; G. C. Baveja, I.A.S. ; V. D. Gangal, I.A.S. ; D. R. Mahajan, B.A. ; R. C. Rele, B.A. ; M. M. Miabah, M.A. ; George Hurry, B.A. (Hons.), LL.B.
Deputy Financial Adviser : K. R. Ayyar, I.A. & A.S.
Insurance Officer : S. C. Damle, M.A., F.I.A.
Under Secretaries : V. T. Chari, I.A.S. ; K. K. Uppal, I.A.S.
Officers on Special Duty : P. K. Namjoshi, M.A., LL.B. ; V. C. Tamne ; G. R. Hoshangadi.
Economic Research Officer and the Small Savings Officer : Dr. T. M. Desai, M.A., Ph.D.

* Is due to retire end of Nov. 1956. † Likely to be posted as Director-General, Posts and Telegraphs.

PUBLIC WORKS DEPARTMENT

Secretary : S. G. Barve, I.C.S.
Chief Engineer (Irrigation Project) and Joint Secretary to Government : G. N. Pandit, B.Sc. (Bom.), B.Sc. (Eng.) (Lond.), M.I.E., I.S.E.
Chief Engineer (Irrigation) and Joint Secretary to Government : D. B. Anand, C.E. (Roorkee), M.I.E., I.S.E.
Chief Engineer (Roads and Buildings) and Joint Secretary to Government : U. J. Bhatt, B.E., S.M. (Civil), M.I.T., M.Am., S.C.E.
Deputy Secretary to Government : J. H. Patwardhan, I.A.S.
Deputy Secretary to Government (I.P.) : M. D. Kale, B.E., A.M.I.E. (Ind.).
Deputy Secretary to Government (Irrigation) : N. M. Andhare, B.Sc. (Nagpur), A.C.G.I., B.Sc. (Eng.) (Lond.), A.M.I.S.E., A.M.I.E. (Ind.).
Deputy Secretary to Government (Roads) : M. V. Rajwada, B.E.

LOCAL SELF-GOVT. AND PUBLIC HEALTH DEPARTMENTS

Secretary : B. D. Mirchandani, I.C.S.
Deputy Secretaries : M. D. Rajpal, I.A.S. ; K. N. Zutshi, I.A.S. ; H. H. Trivedi, I.A.S.

LEGAL DEPARTMENT

Secretary to Government and Remembrancer of Legal Affairs : N. K. Dravid, I.C.S.
Addl. Secretary : B. B. Paymaster, I.C.S.
Joint Secretaries : B. P. Dalal, I.C.S. (Retd.) ; S. B. Palekar.
Charity Commissioner : S. C. Bhat.
Deputy Secretaries : Smt. S. R. Potnis ; S. W. Dhurandhar ; V. S. Datar ; K. S. Tayade ; M. V. Bansod.
Solicitor to Government and Ex-Officio Deputy Secretary to Govt.: R. D. Nigudkar.
Solicitor (Mofussil Litigation) : M. M. Nadkarni.
Additional Solicitor (Mofussil Litigation) : R. N. Bongirwar.
Officer on Spl. Duty : K. A. Parikh.
Assistant Solicitor to Government : R. C. Patel.
Special Officer : S. S. Bhalerao.

EDUCATION DEPARTMENT

Secretary : P. J. Chinmulgund, I.C.S.
Deputy Secretaries : Mohd. Abdulla, I.A.S. ; P. Setu Madhav Rao, I.A.S.
Under Secretaries : R. S. Gaitonde ; C. G. Sahasrabudhe.

LEGISLATIVE DEPARTMENT

Council Hall, Bombay 1.

Secretary : S. H. Belavadi, B.Sc., LL.B.
Deputy Secretary : H. B. Shukla, B.A., LL.B.
Officer on Special Duty : S. R. Kharabe, B.A., LL.B.
Assistant Secretary : Y. N. Acharekar, B.A., LL.B. Pravin (Hindi).
Special Officers : M. J. Tamane, B.A., LL.B. ; M. K. Pandit, B.A., LL.B.

HEADS OF DEPARTMENTS

Accommodation Controller, Jehangir Building, Mahatma Gandhi Road, Bombay 1, J. B. D'Souza.
Agricultural Iron and Steel Supply Officer, 16, Horniman Circle, Bombay 1, V. L. Shah.
Controller of Transport Service, Swadeshi Mills Estate, Queen's Road, Bombay 4, N. G. Pandit.
Curator of Libraries, Town Hall, Bombay 1, T. D. Waknis.
Custodian of Evacues Property, Mercantile Bank Building, Mahatma Gandhi Road, Bombay 1, N. S. Varma.
Deep Sea Fishing Supdtg. Engineer-in-Charge, Sassoon Dock, Bombay 5, K. F. Lilauwala.
Director of Archives, Elphinstone College Building, Mahatma Gandhi Road, Bombay 1, Dr. P. M. Joshi.
Director of Civil Supplies (Accounts), New India Assurance Building, Mahatma Gandhi Road, Bombay 1, M. G. Gupte.
Director of Fisheries, Taraporevala Aquarium, Charni Road, Bombay 2, Dr. C. V. Kulkarni.
Director of Industries, Central Stores Purchase Officer, Statistical Authority and Controller of Buildings, Old Custom House Yard, Bombay 1, M. R. Mandlekar.
Food Controller, New India Assce. Bldg., Mahatma Gandhi Road, Bombay 1, B. S. Kanade.
Inspector General of Police, Bombay, M. M. Chudasama.
Inspector General of Prisons, Poona, R. G. Salvi, I.A.S.
Pay and Accounts Officer, Old Secretariat Annexe, Bombay 1, M. P. Singh Jain.
Registrar of Co-operative Societies, Director of Agricultural Marketing and Rural Finance, Poona, Dr. A. U. Shaikh, I.A.S.
Registrar General of Money-lenders, Bombay State, Poona, Dr. A. U. Shaikh, I.A.S.
Supdtg. Engineer, Bombay Circle, P.W.D., opp. C.T.O., Veer Nariman Road, Bombay 1, G. K. Patil.
Surgeon-General, Medical Department, J. J. Hospital Compound, Bombay 8, Dr. D. P. Sethna.
Collector of Sales Tax, Bombay, P. N. Damry, I.A.S.
Settlement Commissioner and Director of Sound Records, Poona, M. N. Hebbe, I.A.S.
Chief Executive Officer, Nagpur Municipal Corporation, D. J. Madan, I.A.S.
Director of Cottage Industries and Addl. Registrar for Industrial Co-operatives, Poona, S. K. Bedekar, I.A.S.

POSTMASTER-GENERAL'S OFFICE (CENTRAL)

Postmaster-General, Bombay : V. D. Dalvi.
Directors of Telegraphs : B. Rajagopalan (*South*); C. S. S. Rao (*North*).
Directors of Postal Services, Bombay : S. Ramachandran ; S. R. Krishnamurthy.
Director of Postal Services, Savings Bank, Bombay : T. D. Subramaniam.
Dy. Director of Telegraphs : S. K. Dey.
Asstt. Postmasters-General, Bombay : M. D. Shah ; S. N. Tatke ; V. M. Gogate.
Asstt. Directors, Postal Services, Bombay : K. B. Damle ; B. G. Shah ; R. K. Saraf ; S. R. Kodiyal ; D. V. Antani.
Circle Complaints Officer : D. N. Advani.
Personal Asstt. (Engg.) : G. George.
Personal Asstt. (Devpt.) : N. S. Narasimham.
Personal Asstt. (Traffic) : M. C. Smith.
A.E. Planning : R. N. Shenoi.
Asstt. Engineer (Bldgs.) : A. Laxminarayanan.
Roving Inspector : B. M. Panchal.
Manager, P. & T. Motor Service : P. K. Biswas.
Office Superintendent, Postmaster-General's Office, Bombay : S. N. Marfatia.

BOMBAY G. P. O.

Presidency Postmaster, Bombay : G. K. Sidhaye.
Dy. Presidency Postmasters, Bombay : A. D. Pendse ; Y. G. Paranjpe ; K. B. Naidu ; K. R. Pathak ; D. D. Modi.

OFFICE OF THE DIRECTOR, FOREIGN POST, BOMBAY.

Director, Foreign Posts : S. N. Das Gupta.
Dy. Director, Foreign Posts : D. D. Pasarnikar.
Superintendent, Foreign Posts : K. L. Lane.

TELEGRAPH TRAFFIC.

Chief Superintendent, Bombay C.T.O. : P. K. Sundaram.
Senior Asstt. Superintendent, Bombay C.T.O. : C. I. De Rozario.
Asstt. Supdts., Bombay C.T.O. : F. D. Souza ; K. D. Banerjee ; A. E. J. Gilks ; F. A. E. Nash ; M. R. Vasunta ; M. S. Godbole ; V. M. Saraf ; S. V. Rao ; B. R. Patankar.

TELEGRAPH ENGINEERING.

Divisional Engineers, Telegraphs, Bombay : G. S. Sethi (*City Division*) ; A. S. Muthuswamy (*East Division*).
Divisional Engineer, Telegraphs, Poona : P. Subramaniam.
Divisional Engineer, Telegraphs, Ahmedabad : B. A. Lakshminarayan.
Divisional Engineer, Telegraphs, Rajkot : G. C. Chatterjee.
Fault Controller, Bombay : V. Ramamurthy.
Asst. Elect. Engineer (I), Bombay : M. V. J. Menon.
Asstt. Elect. Engineer (II), Bombay : K. R. Venkataraman.
Asstt. Engineer, Wireless, Bombay Radio : A. E. L. Akehurst.
Asstt. Engineer, Wireless, Bombay (Monitoring) : N. V. Deodhar.
Regional Engineer, Maintenance, Bombay : V. Swaminathan.
Asst. Elect. Engineer (III) : L. N. Rajagopalan.
Asstt. Elect. Engineer (IV) : D. K. Kuppuswamy.
Asstt. Engineer, Cables : R. Natarajan.
Officer-in-Charge, C.M.G. : J. V. Sastry.
Officer-in-Charge, T.M.G. : G. P. Deshpande.

SUPERINTENDENT OF P. Os'. AND R. M. S.

City Supdts. (Bombay) : M. R. Shirali ; S. B. Raut ; S. T. Mudaliar.
Senior Supdt. of R.M.S., Bombay Sorting Division : K. Janardhan.

INDIAN AUDIT DEPARTMENT (CENTRAL)

CIVIL AUDIT

Accountant-General's Office, Queen's Road, Bombay.

Accountant-General : G. S. Rau.
Senior Dy. Accountant-General : P. Krishnamurthy.
Dy. Accountant-General (Admn.) : B. Maithreyan.
Dy. Accountant-General (Works) : R. A. Naik.
Dy. Accountant-General (O. A. D.) : B. R. Srinivasamurthy.
Asstt. Accountants-General: K. Tyagarajan ; S. T. Kenge ; Smt. Girija Eswaran ; A. Gnanaolivu ; B. J. Desai ; M. Y. Preolkar.
Examiner, Local Fund Accounts : B. L. Jain.
I.A. & A.S. Probationer : R. V. Bansod.

Branch Office, Rajkot

Sr. D.A.G. : M. A. Siddique.
D.A.G. (A) : R. S. Maunder.
Asstt. Accts. Genl. : S. K. Sachdev ; S. M. Patankar.

Branch Office, Nagpur

D.A.G. : T. Narsimhan.
A.A.G. : N. Venkataraman.

RAILWAY AUDIT

Chief Auditor's Office, Central Railway, V. T., Bombay.

Chief Auditor, Central Rly. : S. Sankaran.
Deputy Chief Auditor, Central Rly. : K. R. Baliga.

Chief Auditor's Office, Western Railway, Churchgate, Bombay.

Chief Auditor, Bombay : G. Narayanswamy.
Dy. Chief Auditor, Bombay : S. L. Brahmachary.

CENTRAL EXCISE

Construction House, Ballard Estate, Post Box No. 806, Bombay No. 1.

Collector of Central Excise, Bombay : T. C. Seth, I.R.S.
Deputy Collector of Central Excise, Bombay : M. T. Shanbag, I.R.S.
Headquarters Assistant to the Collector of Central Excise, Bombay : R. S. Rama Rau, I.R.S.
Asstt. Collector of Central Excise (Hqrs.), Bombay, (Special Duty) : R. V. Sardesai, I.R.S.
Asstt. Collector of Central Excise, Bombay, Division I : B. S. Gupta, B.Sc. (Tech.), I.R.S.
Assistant Collector of Central Excise, Bombay, Division II : S. A. S. Bukhari, I.R.S.
Assistant Collector of Central Excise (Tech.), Bombay (Hqrs.) : N. C. Kandola, I.R.S.
Assistant Collector of Central Excise (Refunds), Bombay : K. Sarvanai, B.Sc., B.L., I.R.S.
Assisant Collector of Central Excise (Marine), Bombay : S. J. Israel, I.R.S.
Supdt., Bombay, 'E' Circle : C. Ghosh, B.A., I.R.S.
Supdt., Bombay, 'D' Circle : V. J. Manerikar, B.A. (Hons.), I.R.S.
Supdt., Bombay, 'H' Circle : K. Purushottam, B.A. (Madras).
Examiner, Internal Audit, Bombay I : N. A. Odalamane, B.A., LL.B., I.R.S.
Chief Accounts Officer, Central Excise, Bombay : T. S. Rajagopalan Mudaliar.
Supdt., Intelligence (St.), Bombay : B. V. Suryanarayana, B.A.
Supdt., Intelligence (Custom), Bombay : S. V. Warty.
Supdt., Preventive Custom, Bombay : M. P. Mondkar.
Supdt., Preventive, Bombay : G. P. Bidichandani, B.A., G.D.C.A.
Deputy Headquarters Assistant to the Collector of Central Excise, Bombay : V. R. Phansikar.
Examiner, Cenez Accounts, Internal Audit, Bombay I : N. A. Odlamane, B.A., LL.B., I.R.S.
Examiner, Cenez Accounts, Internal Audit, Bombay II : N. N. Motiwalla, M.A., LL.B.
Assistant Chief Accounts Officer, Bombay : P. D. Gadkari.
Superintendent, Central Excise, 'A' Circle, Bombay : C. D'Souza.
Superintendent, Central Excise, 'B' Circle, Bombay : S. M. Master.
Superintendent, Central Excise, 'C' Circle, Bombay : J. J. Newlands.
Superintendent, Central Excise, 'D' Circle, Bombay : K. V. Bole, B.Sc., LL.B.
Superintendent, Central Excise, 'E' Circle, Bombay : N. R. Benjamin.
Superintendent, Central Excise, 'F' Circle, Bombay : C. T. Bijlani.
Superintendent, Central Excise, 'G' Circle, Bombay : B. L. Kamat.
Superintendent Central Excise, 'H' Circle, Bombay : K. Purshotham, B.A
Superintendent, Central Excise, 'I' Circle, Bombay : K. S. Hira.
Superintendent, Central Excise, 'J' Circle, Bombay : C. J. Mathias.

BOMBAY CUSTOMS DEPARTMENT (CENTRAL)

New Custom House, Ballard Road, Bombay.

Collector of Customs : A. V. Venkateswaran, M.A., J.P.
Addl. Collector of Customs : M. G. Abrol, B.A. (Hons.), M.A. Certs. State.
Dy. Collector of Customs : S. Venkatesan, M.A.
Asstt. Collectors of Customs : R. K. Habbu, M.A.; D. N. Lal, M.A.; M. B. Chandiramani, B.Sc. (Bom.), B.Sc. (Tech.) (Manchester); Smt. Kausalya Narayanan, M.A.; M. S. Pal, B.Sc. (Eng.); V. R. Gupte, B.A.; L. F. Rozario, B.A.; E. C. Shelats, B.A. (Hons.), B.Sc.; S. B. Sarkar, M.Sc.; J. N. Joshi, B.Sc. (Hons.), M.Sc.; M. A. Rashid, M.A.; S. M. Haoorna, B.A.; M. S. Kharkar, B.A.; A. P. Nadkarni, B.A. (Hons.), 1st LL.B.; S. Venkatarama Iyer, B.Sc. (Hons.), F.R.I.C.
Deputy Chief Chemist : H. D. Suri, M.Sc., B.Sc. (Hons.), F.R.I.C.
Chemical Examiner : D. B. Pandya, M.Sc., LL.B., A.R.I.C.
Asstt. Chemical Examiners : D. K. Sankaran, M.A., A.R.I.C., A.I.I.Sc.; P. P. Mathews, M.Sc., L.T.
Chief Accounts Officer : S. B. Mehta, B.A., LL.B.
Chief Inspector (Preventive) : K. P. Krisp.

OFFICE OF THE JOINT CHIEF CONTROLLER OF IMPORTS & EXPORTS (CENTRAL)

Golam Mohd. Bldg., West Road, Ballard Estate, Bombay.

Joint Chief Controller of Imports & Exports : S. G. Vazalkar.
Deputy Chief Controllers of Imports & Exports : N. H. Nagarwalla; K. V. Dave; G. N. Hatalkar; J. S. Bedi.
Controllers : K. Jayaraman; D. S. Kalsekar; M. V. Khanolkar; K. N. R. Pillai; K. J. Cherian; M. I. Patel; B. M. Nair; Smt. M. D'Costa; Capt. H. P. Dube; K. R. Krishnani; H. L. Mansukhani; D. D. Bhargava; G. S. Sharma; S. K. Guha; K. G. Narain Singhani.

BOMBAY EMIGRATION OFFICE (CENTRAL)

Army & Navy Building, 148, Mahatma Gandhi Road, Bombay 1.
(Telephone : 251760).

Protector of Emigrants : T. S. Subrahmanya Iyer, B.A., B.L.

INDIAN GOVERNMENT MINT (CENTRAL)

Mint Road, Fort, Bombay.

(See under Government of India Personnel, Ministry of Finance).

BOMBAY PORT TRUST

Ballard Road, Bombay.

BOARD OF TRUSTEES (1956-57)

Nominated by Government : Chairman, L. T. Gholap, I.C.S.; V. I. Gidwani, I.C.S.; Kumar Shri Pravinsinhji, I.F.; A. V. Venkateswaran; B. Arora; M. K. Kaul; Kamta Prasad; Rear Admiral B. S. Soman, I.N.; G. H. Kale; H. N. Trivedi; S. V. Kailasapathy
Elected by the Bombay Chamber of Commerce & Industry : F. A. Jenkins; S. M. Scott.
Elected by the Indian Merchants' Chamber : Devji Rattansey; Ambala Kilachand; Gordhandas Jadavji; Mathradas Haridas; C. H. Bhabha; B. D. Somani.
Elected by the Maharashtra Chamber of Commerce : K. V. Apte
Elected by the Bombay Municipality : Dr. S. G. Patel; R. S. Pandey
Elected by the Millowners' Association : Sir Vithal Chandavarkar
Elected by the Indian National Steamship Owners' Association : H. M. Desai.
Elected by the East India Cotton Association Ltd. : M. B. Ruia.

Officers of the Bombay Port Trust Secretary's Dept.

Secretary : B. H. Simoes, B.A.
Dy. Secretary : S. D. Chittar, B.A.

Chief Accountant's Dept.

Chief Accountant : I. B. Das Gupta, M.A., LL.B., A.S.A.A., A.C.A.
Dy. Chief Accountant : C. Madhava Rao, B.Com.
Dy. Chief Accountant (Jr.) : D. A. Screwvala, B.Com., B.Sc. (Lond.) C.D.I.I.

Chief Engineer's Dept.

Chief Engineer : S. B. Dalal, B.E. (Civil), M.I.E., M.I.C.E., M.I.Struct.E.
Dy. Chief Engineer : K. G. Sarma, B.E., B.Sc. (Eng.) (Manchester), M.I.C.E., M.I. Struct. E.
Executive Engineers : K. C. Desai; F. D. Daruwala; R. P. Nanjiar, R. N. Vinekar.
Mech. Superintendent : R. K. Gurtu, B.Sc., A.M.I.E.E.
Consulting Engineers & Agents in London : Sir Bruce White, Wolfe Barry & Partners.

Port Dept.

Dy. Conservator : W. E. Brown.
Harbour Master : H. Lloyd-Jones.

Docks Dept.

Manager : V. Vas, B.A.
Addl. Manager : A. M. Shaikh, B.A.
Dy. Managers : V. A. Kashikar, B.Com.; M. H. Sayani, B.A.; J. B. de Souza-Lawrence, M.A.

Railway Dept.

Manager : J. N. Adagora, B.A.

Estate Dept.

Manager : N. D. Baria, B.E. (Civil), M.I.E., M.I.S.

Stores Dept.

Controller of Stores : P. V. Thadhani, B.Sc., B.Sc. (Tech.).
Dy. Collector of Stores : G. A. Mokal, M.A., LL.B.

Legal Dept.

Legal Adviser : S. D. Nariman, B.A., LL.B., Solicitor.

Medical Dept.

Chief Medical Officer : Dr. N. V. Nene, M.B.B.S. (Bom.), M.R.C.P. (Lond.).

Labour Dept.

Chief Labour Officer : B. H. Mehta, B.A., LL.B., Solicitor.

INCOME-TAX DEPARTMENT (CENTRAL)

Aayakar Bhavan, 4th Floor, Queen's Road, Bombay.

Commissioner of Income-tax (Central), Bombay : V. Krishnamachari, B.Com.
Inspecting Assistant Commissioners of Income-tax (Central), Bombay : H. S. Ramaswami, B.A., B.L.; R. Kothandaraman, M.A.
Inspecting Asstt. Commissioners of Income-tax (Central), Bombay : M. S. Nadkarni, B.A. (Hons.), LL.B. *(Range I)*; P. T. Ramadevi *(Range II)* *(Ahmedabad).*

Income-tax Officer (Hqrs.) (Central), Bombay : Y. G. Joshi, B.Com.
Additional Income-tax Officer, Section I (Central), Bombay: P. K. Raina, M.A., LL.B.
Additional Income-tax Officer, Section II (Central), Bombay: M. M. Parikh, B.Sc., LL.B.
Additional Income-tax Officer, Section III (Central), Bombay: B. Lakshmipathy, M.Sc.
Income-tax Officer, Section IV (Central), Bombay: B. B. Baliga, B.A., LL.B.
Additional Income-tax Officer, Section V (Central), Bombay: Y. G. Joshi, B.Com.
Additional Income-tax Officer, Section VI (Central), Bombay : K. R. Raghavan, M.A.
Income-Tax Officer, Section VII (Central), Bombay : T. K. Souri Rajan, B.Sc. (Hons.).
Additional Income-Tax Officer, Section VIII (Central), Bombay, M. P. Patel, B.A. (Hons.).
Income-tax Officer (Central), Circle I-A, Bombay : C. N. Vaishnav, B.Com.
Income-tax Officer (Central), Circle I-B, Bombay : S. V. Nerurkar, B.A. (Hons.), LL.B.
Income-tax Officer (Central), Circle I-C, Bombay : C. N. Vaishnav, B.Com.
Income-Tax Officer (Central), Circle II-A, Bombay : K. T. Thakore, B.Com.
Income-Tax Officer (Central), Circle II-B, Bombay : K. T. Thakore, B.Com.
Income-tax Officer (Central), Circle II-C, Bombay : S. V. Nerurkar, B.A. (Hons.), LL.B.
Income-tax Officer (Central), Circle II-D, Bombay : K. T. Thakore, B.Com.
Income-Tax Officer (Central), Circle II-E, Bombay : C. N. Vaishnav, B.Com.
Income-tax Officer, Central Circle I, Ahmedabad : R. N. Nagwekar, B.A.
Income-tax Officer, Central Circle II, Ahmedabad : N. R. Dandekar, B.Com.
Income-tax Officer, Central Circle III, Ahmedabad : R. N. Nagwekar, B.A.

INCOME-TAX DEPARTMENT, BOMBAY CITY I AND II

Commissioner of Income-tax, Bombay City (I) : N. D. Mehrotra, M.A.
Commissioner of Income-tax, Bombay City (II) : Syed Noor, B.A.
Income-tax Officers, Headquarters, Bombay City (I & II) : A. V. Kulkarni, B.A. (Hons.); S. V. Raut, M.A., LL.B.; S. J. Karnik, B.Sc., LL.B.; Smt. P. Mahajan, B.A.
Inspecting Assistant Commissioners of Income-tax, Bombay City : D. S. Bapat, LL.B., F.A., C.C.A. (*A-Range*); V. S. Narayanan, M.A. (*B-Range*); S. H. Bhat, B.Sc. (Bom.), M.A. (Cantab.) (*C-Range, Bombay*); Avthar Singh, M.A. (*D-Range, Bombay*); H. P. Sharma, M.A. (*E-Range, Bombay*); U. S. Prasad, M.Sc. (*F-Range, Bombay*); M. Sundararajan, B.A. (*G-Range, Bombay*); S. D. Sinha, M.A. (*H-Range, Bombay*); T. R. Viswanathan, B.A. (Hons.) (*K-Range, Bombay*); B. S. Kasbekar, B.Com., LL.B., A.C.A. (*L-Range, Bombay*); H. M. Jhala, B.A. (Hons.) (*M-Range, Bombay*); H. L. Bhatia, M.A. (*N-Range, Bombay*); P. Madhav Rau (*Estate Duty Manager*).
Appellate Assistant Commissioners of Income-tax, Bombay City : R. N. Bose, M.A. (*A-Range*); P. N. Sewake, M.Sc. (Hons.) (*B-Range*); V. C. Desai, B.A. (Hons.), LL.B. (*C-Range*); S. S. Seth, M.A., LL.B. (*D-Range*); M. S. Datta, M.A. (*E-Range*); N. C. Roy, M.Sc., B.L. (*F-Range*); G. N. Mahapatra, B.A. (Hons.) (*G-Range*); S. R. Tawde, B.A., LL.B., B.A. (Hons.) (Lond.), Bar-at-Law (*H-Range*); A. K. Dasgupta, M.Sc. (*K-Range*); P. L. Mukherjea, M.Sc. (*L-Range*); Harish-Chandar, M.A. (*M-Range*); M. P. Gumaste, B.A. (Cantab.) (*N-Range*).
Income-tax Officer, Special Investigation Branch : S. K. Ghatak, B.Sc.
Public Relations Officer : Shaikh Abdulla, B.A. (Hons.), M.A.
Authorised Representatives, Income-tax Appellate Tribunal, Bombay :
Bombay Bench A : A. M. Ramakrishnan, M.A., B.L.
Bombay Bench B : N. Y. Tamhane, B.Com.

INCOME-TAX, BOMBAY SOUTH

Aayakar Bhavan, 4th Floor, Queen's Road, Bombay.

Commissioner of Income-tax, Bombay South, Bombay : M. K. Rahman, M.A.
Inspecting Assistant Commissioner of Income-tax, Poona Range, Poona : C. G. Joshi, M.A., LL.B., B.Com.
Inspecting Assistant Commissioner of Income-Tax, Akola Range, Akola : N. D. Sakhawalkar, M.Sc.
Appellate Asstt. Commissioner of Income-tax, Range II, Poona : A. M. Rao, B.Sc.
Appellate Asstt. Commissioner of Income-tax, Range I, Poona : B. C. Dastur, C.A.
Appellate Assistant Commissioner of Income-tax, Aurangabad Range, Aurangabad : G. M. Hiremath, B.Sc.
Appellate Assistant Commissioner of Income-tax, Kolhapur Range, Kolhapur : N. D. Kumthekar, B.A., LL.B.
Appellate Assistant Commissioner of Income-tax, Sholapur Range, Sholapur : G. S. Sampath, M.A., B.Sc.

HIGH COURT OF JUDICATURE

Fort, Bombay No. 1.

CHIEF JUSTICE.

M. C. Chagla, Mr. Justice.

PUISNE JUDGES

H. K. Chainani, Mr. Justice.
J. C. Shah, Mr. Justice.
J. R. Mudholkar, Mr. Justice.
D. V. Vyas, Mr. Justice.
S. T. Desai, Mr. Justice.
Y. S. Tambe, Mr. Justice.
B. N. Gokhale, Mr. Justice.
S. P. Kotwal, Mr. Justice.
K. G. Datar, Mr. Justice.
K. T. Desai, Mr. Justice.
J. M. Shelat, Mr. Justice.
N. A. Mody, Mr. Justice.
N. M. Miabhoy, Mr. Justice.
G. B. Badkas, Mr. Justice.
V. M. Tarkunde, Mr. Justice.
D. V. Patel, Mr. Justice.
V. S. Desai, Mr. Justice.

GAZETTED OFFICERS

Registrar, V. G. Wagle, B.A. (Hons.), LL.M., Advocate (O.S.).
Addl. Registrar, V. R. Gadkari, B.A. (Hons.), LL.B., Advocate.
Deputy Registrar and Sealer : U. S. Hattangadi, B.A., LL.B., Advocate.
Assistant Registrar (Civil & Criminal), V. H. Kesarkar.
Assistant Registrar (Administrative), R. N. Bhagwat.
Assistant Registrar (Administrative)-II, M. J. Gavaskar, B.Sc., LL.B.
Assistant Registrar (Establishment), R. D. Sule, B.A.
Assistant Registrar (Taxing and Judicial), N. M. Shanbhag, B.A., LL.B., Advocate.
Special Officer, S. R. Pathak, B.A., LL.B.

OFFICERS, HIGH COURT AT NAGPUR.

Special Officer, G. S. Jadhav, B.A., LL.B.
Additional Special Officer, S. V. Mulherkar, B.A., LL.B.

OFFICER, HIGH COURT AT RAJKOT.

Special Officer, V. R. Bhatia, B.A., LL.B.

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Chairman, Motichand G. Shah.
Members, Moormahomed H. Shaikh, B.Sc. ; S. J. Marwekar ; Kanji Dwarkadas ; L. S. Dabholkar.
Secretary, Bombay Housing Board, S. G. Jadhav, B.A.
Legal Adviser, R. C. Bole, B.A., LL.B.

OFFICE OF THE HOUSING COMMISSIONER

Esplanade Maidan, Cruickshank Road, Bombay.

Housing Commissioner, C. R. Desai, B.E., M.S.E. (I).
Assistant Housing Commissioner (North), Dalsukh P. Shah, B.E., A.M.I.E., M.S.E. (I).
Asstt. Housing Commissioner (West), S. S. Kirtane, B.E., A.M.I.M. & Cy.E., M.E.San.I.
Asstt. Housing Commissioner (Estate Management), B. P. Deria,* B.E., A.M.I.E., M.S.E. (I).
Executive Engineer and P. A. to the Housing Commissioner, B. P. Deria, B.E., A.M.I.E., M.S.E. (I).
Executive Engineer, Housing, Development Division, Bombay, B. A. Vithalani, B.E., M.S.E. (II).
Executive Engineer, Housing, East Division, Bombay, P. K. Daruwala, B.E., A.M.I.E., M.S.E. (I).
Executive Engineer, Housing, West Division, Bombay, N. P. Panjabi, B.E., M.S.E. (II).
Executive Engineer, Housing, Chembur Division, Bombay, P. J. Tipnis, B.E., M.S.E. (II).
Works and Designs Officer, Bombay, S. G. Sohoni, D.C.E., B.S.E. (II).
Estate Manager, Bombay, S. B. Soman.
Chief Accounts Officer, Bombay Housing Board, D. Ramachandra Rao, I.A. & A.S.

BOMBAY PUBLIC SERVICE COMMISSION

Bank of India Building, Mahatma Gandhi Road, Bombay 1

Chairman, Dr. K. B. Bharucha, Ph.D. (Lond.), Barrister-at-Law.
Members, Maharaj Shri Duleepsinhji, B.A. (Cantab.) ; R. B. Ghorpade, B.Sc. (New York) ; N. L. Ahmad, M.A. (Aligarh), B.Litt. (Oxon.) ; B. D. Deshmukh, B.A., LL.B. ; S. N. Mane.
Secretary, B. J. Israel, M.A.
Asstt. Secretary, Y. G. Sanglikar, M.A., LL.B.
Officer on Spl. Duty, S. S. Kale, B.A., LL.B.
Spl. Officer, A. Husain, B.A., LL.B.

BOMBAY STATE ROAD TRANSPORT CORPORATION

80–81, *Dr. Annie Besant Road, Worli, Bombay 18.*

Chairman, R. G. Saraiya, B.A., B.Sc., J.P.
Vice-Chairman and Motor Transport Controller, J. B. Bavadam, M.B.E., M.A., I.C.S., J.P.
General Manager, N. D. Daftary, B.E., A.M.I.E., B.S.E. (U.S.A.)
Chief Accounts Officer, K. R. Nair, I.A. & A.S.
Chief Mechanical Engineer, S. N. Chawla, D.M.E.C. (Hons.), A.M.I.E. (London).
Dy. General Manager (Admn.), N. S. K. Diwanji
Dy. General Manager (Traffic), R. E. Wates.
Controller of Stores, M. K. Mantri.
Senior Executive Engineer, J. N. Mullan, B.Sc., B.E., A.M.I.E. (Ind.)
Chief Security Officer, K. S. Ghanashyamsinh.
Secretary, B.S.R.T. Corpn., K. S. Prabhudesai, B.A. (Hons.)
Commercial Superintendent, Dr. S. G. Patwardhan, M.A., Ph.D., A.M.I.T.
Publications Officer and Editor (S.T. Review), Joseph John, B.A.
Public Liaison Officer, D. M. Nadkarni, B.A., LL.B.
Secretary to S.T. Services Board and Secy. to Vice-Chairman, W. M. Bhandare.
Chief Labour Officer, C. N. Bagwe, B.Sc.
Junior Divisional Controller, Bombay (Goods Sub-Division), P. Amritrao.

DIRECTORATE OF EMPLOYMENT

Mercantile Chambers, Graham Road, Ballard Estate, Bombay 1.

Director of Employment, T. M. Sheth.
Deputy Director of Employment, N. C. Pavri.
Assistant Director of Employment, G. K. Katre.
Regional Employment Officer, Hassan Chambers, Parsi Bazar Street, Fort, Bombay, S. D. Framroze.
Sub-Regional Employment Officer, Mercantile Chambers, Graham Road, Ballard Estate, Bombay 1, C. S. Giraj.

SPECIAL POLICE ESTABLISHMENT

Khas Mahal, Dr. Dadabhoy Naoroji Road, Bombay 1.

Deputy Superintendents of Police : D. Bhojraj ; D. R. Salunke (Under Secretariat).
Public Prosecutor : R. B. Kini.

* Holding dual charge.

ALL-INDIA HANDLOOM BOARD
(Publicity Branch)
15, New Queen's Road, Bombay 4.

Chairman : D. S. Joshi, I.C.S.
Industrial Adviser, Textile Production : N. Majumdar.
Secretary : V. Subramanian, I.A.S.
Hon. Industrial Adviser (Textile Designs) : Mrs. Pupul Jayakar.

REGIONAL TOURIST OFFICE
123, Queen's Road, Bombay 1.

Regional Tourist Officer : Mrs. h S. Bamji.
Asstt. Regional Tourist Officers : Mrs. S. Jagannathan ; Miss M. F. Minbatlwala.

CENTRAL PUPLIC WORKS DEPARTMENT
C.G.O. Building, 5th Floor, Queen's Road, Bombay 1.

Superintending Engineer, Bombay Central Circle, R. G. Gokhale.
Surveyor of Works, Bombay Central Circle, C. G. Wadhwani.
Executive Engineer, Bombay Central Dn. I, P. L. Dutta.
Executive Engineer, Bombay Central Dn. II, I. D. Mathur.
Executive Engineer, Nasik Central Division, R. N. Saxena.
Executive Engineer, Bombay Aviation Dn. II, M. G. Krishnamurthy.

INDIAN AIRLINES CORPORATION
Bombay Airport
Santa Cruz (East), Bombay 29.

Area Manager : G. C. Arya.
Traffic Manager : S. C. Mukherjee.
Operations Manager : D. A. Samant.
Chief Engineer (Offg.) : H. N. Kelawala.
Chief Accounts Officer : M. V. Row.

PRESS INFORMATION BUREAU
United India Bldg., Sir Pherozeshah Mehta Road, Fort, Bombay 1.

Deputy Principal Information Officer : C. L. Bhardwaj
Information Officer : Abdul Hamid.
Assistant Information Officer (Gujerati) : G. L. Raval.
Assistant Information Officer (Marathi) : S. N. Joshi.
Assistant Information Officer (Gujerati) : H. D. Mehta.
Assistant Information Officer (Marathi) : A. R. Godbole.
Assistant Information Officer (All India Radio) : B. V. Ranganath.

REGISTRAR OF COMPANIES
"Everest", 100, Marine Drive, Bombay 2.

Registrar of Companies, Bombay : S. Venkataraman.
Additional Registrar of Companies, Bombay : S. Krishnamurthy.
Assistant Registrars of Companies, Bombay : M. S. Nene ; H. N. Dalia.

EMPLOYEES' STATE INSURANCE CORPORATION
E.S.I.C. Bldg., Colaba, Bombay.

Regional Director : Dr. J. N. Agrawala, M.A., Ph.D.
Dy. Regional Directors : Premchand Sarin, B.A. ; V. Sivaraman, M.A.
Asst. Accounts Officer : B. N. Murthy, B.Sc. (Hons.), Dip. in Economics (Madras).

ALL-INDIA RADIO
101, Queen's Road, Bombay

Station Director : K. S. Mullick.
Station Engineer : B. K. Garde.
Asstt. Station Directors : M. G. Vaidya ; M. I. Malik ; M. B Nagarkar ; Sher Singh "Sher".
Listener Research Officer : R. C. Banerji.
Assistant News Editor : K. H. Kalekar.
Assistant Station Engineer : S. N. Kapur.

Project Office
Western Circle, Project Office, Planning and Development Unit, Kaiser-I-Hind Bldg., Currimbhoy Road, Ballard Estate, Bombay 1.

Project Officer : B. Y. Nerurkar.
Assistant Project Officers : R. A. P. Iyengar ; G. Ramanathan.
Dy. Installation Engineers : Ram Deo ; A. G. John ; C. L. Jain ; K. G. Pandse.
Asstt. Installation Engineers : S. Ramanmurthy ; H. S. Jolly.

DEFENCE FORCES
G.O.C., Bombay Area, Maj.-Gen. P. N. Kirpal.
Commander, Bombay Sub-Area, Brig. Kamta Prasad.
Station Commander, I.A.F., W. Comdr. R. L. Suri.
Flag Officer, Rear Admiral B. S. Soman.

AIR FORCE STATION
No. 2, Equipment Depot, Air Force Station, Bombay 15.

Commanding Officer : Wg. Cdr. R. L. Suri.
Station Adjutant . Sqn. Ldr. R. P. Mehandru.

MEMBERS OF THE BOMBAY CORPORATION

S. S. Mirajkar, *Mayor.*

The elections took place on 9th May, 1957. About 45·70 per cent of the electorate is estimated to have voted.

The party position arising from the elections was as follows :

Samyukta Maharashtra Samiti 68 ; Congress 55 ; Independents : 8 (Samiti 3, Congress 3).

The names of the parties that joined together to form the Samiti are given below. The first figure in brackets shows the number of seats contested, the second figure the number of seats won.

The Praja Socialist Party (32, 26) ; The Communist Party (16, 13) ; The Pro-Samyukta Maharashtra Congressmen's Conference (18, 8) ; The Scheduled Castes Federation (14, 12) ; Peasants and Workers (4, 2) ; Jan Sangh (5, 2) ; Revolutionary Communist Party (2, 1) ; Lal Nishan Gat (1, 1).

Independents 3.

The names of the wards and of the members are given below. The figures signify the number of voters in the wards.

COLABA : 23,380.

P. K. Kunte (P.S.P.—Samiti), Dr. S. R. Wadia (Cong.).

FORT : 21,028.

Bomanji K. Bomanbeheram (Ind.) ; Mrs. Shera N. Vajifdar (Cong.).

BORI BUNDER : 31,241.

Manmohansingh H. Bedi (Cong.) ; J. K. Joshi (Cong.) ; V. K. Tembe (P.-S.P.—Samiti).

MANDVI : 28,573.

N. Y. Randukvala (Cong.) ; J. B. Shah (Cong.).

DONGRI : 22,317.

Ibrahim M. L. Merchant (Cong.) ; Mohamed Y. H. U. Patel (C. P. I.—Samiti).

UMARKHADI : 33,902.

R. K. Chimbulkar (P.-S.P. - Samiti) ; Ismail Khwaja Husain (Cong.) ; S. M. Thakare (Cong.)

KHARA TALAO : 30,464.

I. A. Randukvala (Cong.) ; M. A. Dhorajiwalla (Ind.) ; G. M. F. M. Farid (C. P. I.—Samiti).

KUMBHARWADA : 33,097.

Dr. B. M. Dhaluvala (P.-S.P.—Samiti) ; Dr. (Mrs.) Jayanti M. Mahimtura (Cong.) ; Dr. Nagindas N. Shah (Cong.).

MARKET : 35,792.

R. S. Pandye (Cong.) ; Dr. Shantilal G. Patel (P.-S.P.—Samiti) ; Shevantilal S. Shah (Cong.).

DHOBI TALAO : 37,199.

R. L. Relose (P. W. P.— Samiti) ; B. V. Chauhan (Cong.) ; Mohanlal P. Parikh (Cong.).

FANASWADI : 33,091.

S. D. Palekar (P.-S. P.—Samiti) ; G. M. Pendse (P. W. P.—Samiti), Dr. M. B. Pojat (Cong.).

GIRGAUM : 35,772.

Dinker D. Desai (P.-S. P.—Samiti) ; Dr. J. M. Lakhani (Cong.) ; G. B. Mahashabde (C. J. P.—Samiti).

KHETWADI : 34,733.

Mrs. Maniben Desai (Cong.) ; Dr. B. D. Kalguthar (P.-S. P. Samiti) ; Mrs. Tara G. Reddy (C. P. I.—Samiti).

WALKESHWAR : 42,744.

Mrs. Deviben S. Da'al (Cong.) ; D. V. Joglekar (C. J. P.— Samiti) ; P. S. Paralkar (P.-S.P.—Samiti).

MAHALAXMI : 32,679.

S. S. Tavde (P.-S.P.—Samiti) ; R. G. Mirashi *alias* Tukrul (C. J. P.—Samiti) ; D. D. Vania (Ind.)

TARDEO : 40,135.

B. A. Da'al (Cong.) ; Dr. B. P. Divgi (C. J. P.—Samiti) ; V. S. Velinkar (P.-S.P.—Samiti).

KAMATIPURA : 30,248.

L. P. Pujari (Cong.) . P. S. Pupala (C. J. P.—Samiti).

NAGPADA : 35,305.

M. Harris (P.-S.P.—Samiti) ; V. S. Pagare (Ind.) ; K. M. Phamband (Cong.).

MAZAGON : 33,159.

Milagres Dias (Cong.) ; R. B. Phale (S. C. F.—Samiti), M. T. Vairagi (Cong.).

BYCULLA WEST : 43,868.

C. H. Khare (S. C. F.—Samiti) ; Dr. R. N. Kulkarni (Cong.) ; M. N. Munshi (C. P. I.—Samiti) ; Gulam Nabi Haji Abdul Rehman (Cong.).

BYCULLA EAST : 34,279.

G. B. Ganacharya (C. P. I.—Samiti); B. B. Jadhav (S. C. F.—Samiti); B. D. Zute (P.-S.P.—Samiti).

GHORAPDEO : 28,343.

K. L. Borkar (Cong.); Dr. V. K. Toraskar (C. J. P.—Samiti).

SEWREE : 32,457.

P. T. Borale (S. C. F.—Samiti); G. L. Patil (C. P. I.—Samiti); P. D. Shigvan (P.-S.P.—Samiti).

LALBAUG : 32,247.

K. G. Desai (R. C. P. I.—Samiti); T. K Sarmalkar (C. P. I.—Samiti).

PAREL : 26,993.

M. V. Donde (P.-S. P.—Samiti); Dr. S. S. Rao (Cong.).

NAIGAUM : 52,278.

Y. S. Goad (P.-S.P.—Samiti); S. M. Upadhaya (Cong.); Dr. R. B. More (C. P. I.—Samiti); G. T. Parmar (Ind.); S. B. Mahadeshwar (Cong.).

MATUNGA : 26,577.

Dr. T. R. Divekar (Ind.—Samiti); N. D. Mehta (Cong.).

SION : 38,661.

D. D. Deshpande (Ind.—Samiti); R. K. Ganatra (Cong.); M. Madhavan (P.-S.P.).

LOVE GROVE : 55,075.

S. D. Chiplunkar (S. C. F.—Samiti); S. S. Mirajkar (C. P. I.—Samiti); Dr. A. D. Narde (P.-S.P.—Samiti); Sardar Pratap Singh Laxmidas (Cong.).

LOWER PAREL : 32,044.

R. K. Bhogle (C. P. I.—Samiti); R. G. Kharat (S. C. F.—Samiti); S. B. Pawar (P.-S.P.—Samiti).

WORLI : 46,624.

N. M. Kamble (S. C. F.—Samiti); P. K. Kurane (C. P. I.—Samiti); V. B. Worlikar (Cong.); M. N. Kavte (Lal Nishan—Samiti).

PARBHADEVI : 40,702.

Dr. V. S. Ranadive (C. J. P.—Samiti); Dr. W. S. Matkar (Cong.); B. B. Ashayya (S.C.F.—Samiti); J. M. Patil (C. P. I.—Samiti).

DADAR : 45,780.

V. P. Bapat (C. P. I.—Samiti); Mrs. Charusheela Gupte (C. J. P.—Samiti); Dr. D. S. Munagekar (P. S. P.—Samiti); Dr. N. P. Shah (Cong.).

MAHIM : 56,322.

P. D. Bhatia (Cong.); Prof. Ram Joshi (P.-S.P. —Samiti); Dr. V. A. Castellino (Ind.); S. S. Gaikwad (S. C. F.—Samiti); M. A. Khadvani (Ind.—Samiti).

BANDRA EAST : 45,512.

G. S. Bagwe (P.-S.P.—Samiti); V. N. Desai (Cong.); Mrs. M. S. Jhabvala (Cong.); L. M. Thakur (Cong.).

BANDRA WEST : 34,580.

S. R. Patkar (Cong.); J. S. Pereira (Cong.); S. S. Varde (P.-S. P.—Samiti).

ANDHERI-VILE PARLE SOUTH : 35,206.

N. D. Patkar (P.-S.P.—Samiti); Dr. A. M. Shah (Cong.); P. H. Vora (Cong.).

ANDHERI-VILE PARLE NORTH : 51,307.

B. S. Dhume (C. P. I.—Samiti); B. S. Patil (P.-S.P.—Samiti); V. G. Raval (Cong.); R. K. Singh (Cong.).

KURLA : 52,177.

Dr. R. N. Sawant (Ind.—Samiti); B. R. Kamble (S. C. F.—Samiti); Shaikh Mohamed Nabi Abdul Hafiz Khan (Cong.).

CHEMBUR : 37,605.

R. B. Ahuja (Ind.); V. A. Khanolkar (P.-S.P.—Samiti).

GHATKOPAR : 46,408.

B. S. Dighe (Ind.—Samiti); Dr. M. M. Joshi (Cong.); P. U. Upadhyaya (Cong.).

MALAD-GOREGAON : 43,815.

G. B. Kanitkar (J. S.—Samiti); H. R. Mehta (Cong.); D. V. Mahant (P.-S.P.—Samiti).

BORIVLI-KANDIVLI : 37,405.

H. W. Chogle (Cong.); Dr. N. R. Karode (J. S.—Samiti); S. A. Modi (Cong.).

MULUND : 15,293.

K. V. Thakkar (Cong.).

Standing Committee

P. T. Borale (*Chairman*), V. P. Bapat, B. S. Dhume, Dr. B. P. Divgi, S. Gaikwad, M. Harris, Ismail Khwaja Husain, Dr. R. N. Kulkarni, D. V. Mahant, H. R Mehta, Dr D S. Munagekar, Dr. A. D. Narde, Mohanlal P. Parikh, G. M. Pendse, J. S. Pereira, V B. Worlikar, *Chairman, Education Committee* (Ram Joshi), *Ex-Officio*.

Improvements Committee

P. S. Pupala (*Chairman*).

B. B. Ashayya, Smt. Maniben N. Desai, D. D. Deshpande, R. K. Ganatra, V. A. Khanolkar, R. G. Kharat, M. Madhavan, S. B. Mahadeshwar, Dr. R. B. More, M. N. Munshi, Dr. Bhai S Patil, J. B. Shah, V. K. Tembe.

Education Committee

Ram Joshi (*Chairman*).

Smt. Deviben S. Dalal, Gulam Nabi Haji Abdul Rehman, Prof Smt. Charusheela B Gupte, J K. Joshi, N. M. Kamble, G B Kamtekar, S. D Palekar, G. T. Parmar, Smt. Tara G Reddy, S. S. Varde, P. H. Vora.

Non-Councillor members :

S. S. Desnavi, Smt. Tara P. Kher, Smt. Lilyben A. Pandya, P. S. Redkar.

PRINCIPAL MUNICIPAL OFFICERS

Municipal Commissioner for Greater Bombay, V. L. Gidwani, I.C.S.
Dy. Municipal Commissioner (General), J. K. Daruvala, B.A. (Hons.), A.S.A.A.
Dy. Municipal Commissioner (Improvements), S. M. Y. Sastry, M.A., B.L.
Dy. Municipal Commissioner (Suburbs), H. T. Sadhwani, B.Sc., LL.B., I.A.S.
Special Engineer, N. V. Modak, C.I.E., B.E. (Bom.), M.Inst.C.E., M.I.E. (India), M.E.san.I. (Eng.).
City Engineer, K. B. Carnac, B.E. (Civil), M.I.E.
Public Health Engineer, S. V. Desai, B.E.
Drainage Engineer (Maintenance), V. G. Lele, B.E. (Mech.).
Asstt. Engineer, 1st Grade (Maintenance), D. S. Thakur, B.E. (Civil), A.M.I.E. (India).
Asstt. Engineer, 1st Grade (Construction), D. C. Farasman, B.E., A.M.I.E.
Asstt. Engineer, 1st Grade (Housing), N. K. Gandhi, B.E. (Civil), A.M.I.E.
Asstt. Engineer, 1st Grade (Extended Suburbs), E. P. Mascarenhas, B.E.
Asstt. Engineer, 1st Grade (Mechanical), V. R. Gadre.
Architect, Greater Bombay, V. N. Ambdekar, A.R.I.B.A.
Asstt. Engineer, 1st Grade (Construction) for Drainage, B. M. Shah, B.E.
Asstt. Engineer, 1st Grade (Building), M. N. Subandh, B.E., A.M.I.E.
Asstt. Engineer, 1st Grade (Planning), D. R. Bhise, B.E., A.M.I.E.
Asstt. Engineer, 1st Grade (Suburbs), D. D. Dawalbhakta, B.E. (Civil), A.M.I.E.
Hydraulic Engineer, J. D. Daroga, B.E., M.I.E., M.I.C.E.
Senior Asstt. Engineer, Water Works, H. M. Barafwala, B.E.
Asstt. Engineer, 1st Grade, Water Works, M. A. Mentin, B.E. (Civil), A.M.I.E. (India).
Executive Health Officer, Dr. G. N. Kowshik, M.B.B.S., B.Hy., D.P.H., D.T.M. & H.
Dy. Executive Health Officer, Dr. Manuel Sequeira, M.B.B.S.
Dean, K.E.M. Hospital and G. S. Medical College, Dr. S. G. Vengsarkar, M.D. (Bom.), F.C.P.S.
Dean & Supdt., B. Y. L. Nair Charitable Hospital & Topiwala National Medical College, Dr. L. Monteiro, M.D.
Medical Superintendent, Municipal General Hospital, Sion, Dr S V Joglekar, M.S.
Medical Superintendent, Arthur Road Hospital, Dr. J. K. Thanawalla, M.D., F.C.P.S.
Medical Superintendent, R. P. T. B. Hospital, Sewree, Dr. M. S Kavarana, M.B.B.S., D.M.R.E. (Cambridge), T.D.D. (Wales)
Dean, Nair Hospital Dental College, Lamington Road, Dr. H. D. Merchant, D.M.D., F.I.C.D.
Chief Accountant, Municipal Head Offices, G. V. Damle, G.D.A.
Test Audit Officer, Municipal Head Offices, N. V. Naik, G.D.A.
Chief Officer, Fire Brigade, Byculla, S. G. Vengsarkar, B.A., M.I. Fire E.
Solicitor to the Corporation, P. D. Dalal, B.A., LL.B.
Assessor & Collector, Municipal Head Offices, I. N. Mehta, B.A.
Controller of Stores, Franklin D'Souza, B.E.
Transport Superintendent, A. M. Albuquerque, L.M.E.
Superintendent of Gardens, Victoria Gardens, G. S. Hegde, B.Ag
Election & Town Duty Officer, V. G. Sabnis, B.E. (Civil).
Superintendent of Licences, C. K. Patel, M.A.
Insecticide Officer, V. R. Subramani.
Chief Inspector, Shops & Establishments, N. M. Haeems, B.A.
Estate Agent & Land Manager, V. L. Ghangurde, B.Sc., B.E., LL.B
Education Officer, Smt. Kapila Khandvala, B.A., B.T., M.A. (U.S.A.)
Research Officer, Dr. (Smt.) Madhuri Shah, B.A., B.T., M.Ed., Ph.D. (Bom.), Ph.D. (Lond.).
Labour Officer, Smt. Freny A. Irani, B.A., LL.B.
Public Relations Officer, N. A. Mistri, M.A.
Ward Officer (City), S. R. Guru.
Manager, Municipal Printing Press, S. G. Tolat, B.A.
Municipal Chief Auditor, R. V. Damania, B.Com., G.D.A., A.S.A.A.
Editor, "Bombay Civic Journal", U. G. Rao, B.A.
Municipal Secretary, M. V. B. Jayakar, B.Sc., J.P.
Municipal Analyst, Dr. V. Sadasahivan, B.Sc. (Ag.), M.Sc., A.I.I.C.
Municipal Medical Examiner, Dr. Mangaldas Shah, M.D.
Personal Assistant to the Municipal Commissioner, M. B. Bondre, M.A.
Assistant Municipal Commissioner, S. G. Redkar, B.Sc., LL.B.
Supervising Medical Officer, Dr. Smt. V. S. Kalewar, M.B.B.S., F.C.P.S.

SUBURBAN OFFICE (MERGED AREAS)

Waterfield Road, Bandra

The entire administration of the merged areas (except those merged in Feb. 1957) has been placed under the control of the Deputy Municipal Commissioner (*Suburbs*) and the Municipal Commissioner.

Dy. Municipal Commissioner, H. T. Sadhwani, I.A.S.
Asstt. Accountant, N. S. Barve.
Dy. Assessor and Collector, B. G. Jadhav.
Asstt. Engineer, D. D. Dawalbhakta, B.E. (Civil), A.M.I.E.
Asstt. Engineer, West Division Waterworks, M. N. Chinoy, C.S.E.
Asstt. Engineer, East Division, Waterworks, V. M. Patki, D.C.E.
Asstt. Supdt. of Licences, Shops and Establishments, N. J. Alvares, M.A., LL.B.
Asstt. Supdt. of Markets, V. G. Sukhtankar, B.A.

EXTENDED SUBURBS

Asstt. Mun. Commsnr., S. G. Redkar, B.Sc., LL.B.

MUNICIPAL SECRETARY'S OFFICE

Municipal Secretary, M. V. B. Jayakar, B.Sc., J.P.
Dy. Secretary, A. P. Wagle, B.A.
Asstt. Secretary (Sr.), K. I. Lalani, B.A. (Hons.), LL.B.
Asstt. Secretary (Jr.), R. M. Murdeshwar.
Assistant Secretary (Jr.), P. P. Laud.

CHIEF AUDITOR'S DEPARTMENT

Municipal Chief Auditor, R. V. Damania, B.Com., G.D.A., A.S.A.A. (Lond.).
Deputy Municipal Chief Auditor, Yeshwant Hari Shende, G.D.A.

ENGINEERING DEPARTMENT

Municipal Office Annexe, 2nd and 3rd Floors, Cruickshank Road, Bombay 1.

This department is concerned with the administration of private building construction, construction of buildings for the Corporation; disposal of city's sewage and refuse; construction and maintenance of drains and sewers; construction, maintenance, lighting and watering of streets; provision of parks and open spaces for recreation purposes.

It is under the control of the City Engineer who is assisted by a Public Health Engineer and ten 1st Grade Assistant Engineers.

The various works comprising the Vaitarna-cum-Tansa Scheme as well as the works relating to improving the distribution system of water in the City, etc. are in-charge of the Special Engineer who has his Central Office in Municipal Annexe, 3rd Floor.

Special Engineer, N. V. Modak, B.E. (Civil), M.I.C.E., M.I.E. (Ind.), F.R.San.I. (Eng.), etc.
City Engineer, K. B. Carnac, B.E. (Civil), M.I.C.E., M.I.E. (India).
Public Health Engineer, S. V. Desai, B.E. (Civil), A.M.I.E. (Lond.), A.M.I.E. (India), Diploma in Town Planning (Lond.).
Senior Asstt. Engineer (City Mains—Improving the Distribution System), R. V. Abreu, B.E. (Civil), A.M.I.E. (India).
Asstt. Engineer, Construction (Vaitarna Canal), S. S. Mankar, B.E. (Civil), A.M.I.E. (India).
Asstt. Engineer (Embankment and Pipeline), L. G. Dhayagude, B.E. (Civil), A.M.I.E.
Assistant Engineer, 1st Grade (Building Branch), M. N. Subandh, B.E. (Civil), A.M.I.E. (India).
Assistant Engineer, 1st Grade (Maintenance Branch), D. S. Thakur, B.E. (Civil), A.M.I.Struc.E.
Assistant Engineer, 1st Grade (Drainage), B. M. Shah, B.E. (Civil), IInd Class.
Asstt. Engineer, 1st Grade (Suburbs), D. D. Dawalbhakta, B.E. (Civil).
Assistant Engineer, 1st Grade (Housing), N. K. Gandhi, B.E. (Civil), A.M.I.E., Diploma in Town Planning.
Assistant Engineer, 1st Grade (Planning), D. R. Bhise, B.E. (Civil), A.M.I.E. (India).
Architect, Greater Bombay (1st Grade), V. N. Ambdekar, A.R.I.B.A., A.I.I.A.
Assistant Engineer, 1st Grade (Construction), D. C. Farasman, B.E. (Civil), A.M.I.E.
Drainage Engineer, (Maintenance), V. G. Lele, B.E. (Mech.), B.E. (Elec.), etc., etc.
Asstt. Engr., Extended Suburbs, D. C. Palekar, B.E. (Civil).
Transport Superintendent, A. M. Albuquerque, L.M.E., L.E.E., Grad. I.E.E.
Senior Assistant Engineer, Town Planning (Mandvi), L. S. Kadoo, B.Sc., B.E. (Civil), A.M.I.E., L.S.G.D.

Planning Branch

Divisional Engineers, T. K. Santoke, B.E. (Civil), J. D. Nerurkar, B.E. (Civil).
Assistant Engineers, Town Planning (Mahim) and (Factories), B. B. Godambe, B.E. (Civil), A.M.I.E; M. A. D'Souza, B.E. (Civil); G. B. Butti, B.E. (Civil); D. B. Sawai, B.E. (Civil).

Suburbs:

Divisional Engineers, P. J. Darukhanawala, B.E. (Civil), A.M.I.E., A.M.I.C.E, L.S.G.D; P. J. Kambata, B.E. (Civil), A.M.I. (Struc.), E.A.M.I.E.T.; T. D. Bapat, B.E. (Civil), A.M.I.E; M. N. Ranade, L.M.E. (Hons.), A.M.I.E.; B. S. Dandekar, B.E. (Civil); S. S. Iyer, B.E. (Civil), A.M.I.E.; P. V. Tahiliramani, B.E. (Civil); N. L. Patel, B.E. (Civil); S. H. Mhatre, B.E. (Civil), A.M.I.E.; Hasham Kanji, B.E. (Civil).

Maintenance Branch

Assistant Engineer, Maintenance (Personal), I. F. Pathan, B.E. (Civil).
Divisional Engineers, C. G. Zope, B.E. (Civil); P. P. Khejotia, D.C.E. (Poona); F. F. Wadiwala, B.E. (Civil); P. M. Atre, D.C.E. (Poona); P. S. Deo, B.E. (Civil); J. R. Chatbar, B.E. (Civil); K. A. C. Peermahomed, C.E. (Civil) (Notts.) A. V. C. N. Examination; N. G. Shahane, B.E. (Civil).

Construction Branch

Divisional Engineers, N. R. Balsara, L.S.E A.M.I.San.E. (London), M.R.San.I. (England); N. V. Joshi, D.C.E., A.M.I.E.; U. A. Naik, B.E. (Civil); B. H. Bhogani, B.Sc., B.E. (Civil),; S. B. Patel, B.E. (Civil).

Housing Branch

Divisional Engineer, S. D. Kale, B.E. (Civil).

Buildings Branch

Divisional Engineers, H. K. Mithiborwalla, B.E. (Civil); Y. H. Munshi, B.E. (Civil); G. Naganna, B.E. (Civil); V. K. Chitale, B.E. (Civil); A. R. Walvankar, B.E. (Civil); F. J. Balsara, L.E.S; Y. H. Munshi, B.E. (Civil), A.M.I.E, Quabil.

Drainage Branch

Divisional Engineers, A. S. Sutarwala, B.E. (Mech.), A.M.I.E.; V. R. Parulekar, B.Sc. (Elec. & Mech.). Final Grade Exam. in Electrical Engineering; D. V. Muzumdar, L.S.E., L.S.G.D.; A. B. Jadhav, L.S.E.
Asstt. Accountant, 1st Grade (Vaitarna-cum-Tansa-Scheme), D. R. Pimpalkhare, B.Sc.
Office Superintendent (City Engineer's Office), B. G. Kulkarni, B.A. (Hons.).
Office Superintendent (Vaitarna-cum-Tansa Scheme), R. B. Pandit.
Office Superintendent (Dy. City Engineer's Office), L. N. Baindur.

MECHANICAL ENGINEER'S DEPARTMENT

Municipal Workshops, Bombay 8

Asstt. Engineer Designs (Mechanical), Vasudeo Raghunath Gadre.
Asstt. Engineer (Electrical), Bhagwant Dattatray Dani.
Workshop Superintendent, Seetaram Ramchandra Rane.

TRANSPORT DEPARTMENT

Municipal Workshops, Bombay 8

Transport Superintendent, Albert Marius Albuquerque.
Asstt. Engineer, Transport (City), Kundapur Ramchandra Shanbhag.
Asstt. Engineer, Transport (Suburbs), Vinayak Hari Bhadbhade.

WATERWORKS DEPARTMENT

Municipal Office Annexe, Cruickshank Road, Bombay 1

The head of the department is the Hydraulic Engineer. He controls and regulates water-supply to the City and maintains all waterworks both inside and outside the City.

Hydraulic Engineer, J. D. Daroga, M.Sc. (Lond.), B.E., M.I.E., A.M.Inst. C.E., A.M.I.Mech.E., M.I.P.H.E., M.R.S.H., D.I.C. (Lond.).
Senior Asstt. Engineers, H. M. Barafwala; M. A. Nentin (*Con.*).
Assistant Engineers, Charles D'Mello; A. B. Parmanand; N. F. Madon; T. M. Kandawala; M. S. Panday; V. J. Mistry; C. Soares; M. N. Chinoy; D. D. Mehta; V. M. Patki; P. P. Khajotia; K. S. Pesina; K. D. Hardikar; U. M. Patki; E. A. Shabaskar; A. Coutinho; S. L. Parab.
Garden Supervisor, D. B. Carnac.
Office Superintendent, J. D. Atre.

CITY IMPROVEMENT DEPARTMENT

Municipal Offices, Dr. Dadabhoy Naoroji Road, Bombay 1

By Act XIII of 1933 the City Improvement Trust was amalgamated with the Municipality and all properties belonging to the Trust were vested in the Corporation. Land Management is looked after by the Estate Agent and Land Manager's Department. It is also responsible for acquiring properties for slum improvement or Street Schemes, disposal of developed lands, preparation of development plans, management of acquired buildings, ex-Trust permanent Chawls and semi-permanent sheds and temporary letting of vacant lands.

Deputy Municipal Commissioner (Improvements), S. M. Y. Sastry, M.A., B.L.
Estate Agent and Land Manager, V. L. Ghangurde, B.Sc., LL.B., B.E.

Deputy Estate Agent and Land Manager, D. N. Kagal, B.Sc., B.E., A.M.I.E., A.M.I. Surveyors (India).
Assistant Estate Agent (Special), H. M. Vaidya, B.E. (Civil).
Assistant Estate Agent (Acquisition), P. A. Umrigar, B.E. (Civil), A.M.I.E.
Assistant Estate Agents, E. V. Alkonde, L.S.E.; S. K. Ahmed Abdulkadar, L.S.E.; R. S. Patil, B.E. (Civil); M. G. Navalkar, L.S.E.

CITY ENGINEERS DEPARTMENT : CONSERVANCY BRANCH

Municipal Office Annexe, Cruickshank Road, Bombay 1

Head Supervisor, P. D. Thakur.
Standards Officer, S. A. Wagle.
Assistants to Head Supervisor, S. P. Mahajan (City); D. E. Wazker (Suburbs).

Ward Offices (City)

A Ward (South), N. S. Walavalkar; *A Ward (North)*, K. R. Bondse; *B Ward*, R. M. Naik; *C Ward*, M. N. Talim; *D Ward*, V. E. Pansare; *E Ward (East)*, V. G. Pendse. *E Ward (West)*, B. P. Joshi; *F Ward (North)*, S. N. Naik; *F Ward (South)*, D. V. Thorat; *G Ward (South)*, R. H. Shukla; *G Ward (North)*, S. K. Sabnis; *G Ward (Central)*, M. P. Gadkari; *Mahalaxmi Siding*, J. M. Adsul; *Supervisor, Chawls, Southern Division*, V. G. Lad; *Supervisor, Chawls, Northern Division*, P. K. Joshi; *Senior Veterinary Inspector*, B. M. Phatarphod.

Suburbs

Supervisor, H Ward, Bandra, A. K. Sha.
Supervisor, K Ward, Andheri, K. V. S. Iyer.
Supervisor, Kurla and Chembur, M. S. Paradkar
Supervisor, N and T Wards, Ghatkopar and Mulund, G. S. Dere.
Supervisor, P and R Wards, Malad and Borivli, Thomas D'Souza.

BOMBAY VACCINATION DEPARTMENT

Near Parel Tram Terminus

Ag. Superintendent.—S. G. Pansare. *Head Clerk.*—M. G. Khare. *Head Vaccinator.*—S. S. Thakur.

Vaccination in the City of Bombay is performed with preserved lymph free of charge as under, between 8 and 10-30 a.m. (S.T.).—In the cases of the Infant Welfare Centres, Naigaum and Arthur Road Hospital, Vaccination is done from 3 p.m. to 5-30 p.m. and 4 p.m. to 6 p.m. respectively.

Monday.—(1) Municipal Marathi School, opposite Mogal Musjid, Imamwada Road, Umerkhadi. (2) Municipal Marathi School, A Building, Shroff Wadi, Mount Road, opp. Post Office, Mazagon. (3) Cushrow Baug, Colaba Causeway Road. (4) Wadia Dispensary, Sitladevi Temple Road. (5) Municipal Gujarati Central School above Bhuleshwar Market. (6) Madhavrao Rokade School, Mandvi.

Tuesday.—(1) Municipal School, opposite Round Temple, Null Bazar, Kumbharwada. (2) Municipal Marathi Boys' and Girls' School, near Tram Junction, Lalbaug, Parel. (3) Nagpada Neighbourhood House, No. 109, New Nagpada Street, near Old Parsi Station. (4) Infant Welfare Centre, DeLisle Road, B.D.D. Chawl No. 31. (5) 788, Haines Road, Municipal Marathi Boys' School.

Wednesday.—(1) Municipal Gujarati Girls' School, 31, Nagdevi Street. (2) Municipal Marathi School, 48, Clerk Road, near Jacob Circle Post Office, opposite Modern Mill. (3) Municipal Dispensary at B.D.D. Chawl No. 45, First Pakhadi, Worli. (4) Municipal Dispensary, Sewree, Muiraj Bhuwan, Sewree New Road. (5) Municipal Marathi Boys' School at the Junction of Kandewadi and Girgaum Road, No. 173, Girgaum Road. (6) Municipal Marathi Boys' School, No. 119, Dady Sheth Agiary Lane.

Thursday.—(1) Gratuitous Dispensary, Ravelin Street, Hornby Road, Fort. (2) The District Registrar's Office, No. 8 District, Bathiwala's Dharamshalla, corner of Balaram Street and Foras Road. (3) Opp. Vithoba Temple, Wadala. (4) Municipal Gujarati School, Dharavi, Kumbharwada. (5) Municipal Marathi School, Tardeo Bridge, near Tardeo Tram Terminus. (6) Souter Street, District Registrar's Office, No. 7. (7) J. J. Hospital out-patients Department.

Friday.—(1) M. N. Petit's Charitable Dispensary, opposite Wilson High School, Khotwadi Main Road. (2) General Educational Institute Boys' School, Akshikar Street, South of Tilak Bridge, Dadar. (3) Municipal Marathi School, Ghorapdeo Road, Mazagon. (4) Napu Hall, Tulsing Road, Matunga, Central Rly. (5) Infant Welfare Centre, Naigaum. From 3 p.m. to 5-30 p.m. (S.T.). (6) Chinch Bunder Marathi Boys' School. (7) 17, Bangunga Road.

Saturday.—(1) Shankershet's Temple, Nana's Chowk, Tardeo Road, near Grant Road Station. (2) Jaffarbhoy Rahimtulla Urdu School, Sandhurst Road, Umerkhadi. (3) Municipal Dispensary, New Parbhadevi Road and Caddil Road Junction. (4) Infant Welfare Centre, Wadi Bunder, Port Trust Chawl, Belvedere Road. (5) Municipal Dispensary, Parel Tank Road, Ambewadi. (6) Worli Koliwada Municipal Sindhi School, Worli. (7) Antop Hill, Sitaram Prabhakar English School.

Sunday.—(1) Seth Warjivandas Madhavdas Charitable Dispensary, near Railway Station, Sion. (2) Balmohan Vidyalaya, Shivaji Park (Temporary).

Daily.—Central Vaccination Depot, Junction of Elphinstone Road and Suparibag Road, Polbavdi, Parel from 7-30 a.m. to 5-30 p.m. (S.T.). Sanitary Institute, Princess Street, Dhobi Talao, from 8 to 10-30 a.m. and 2-30 to 5-30 p.m. only.

For further particulars with respect to Vaccination at private residences, apply to the Superintendent of Vaccination, Suparibag Road, Polbavdi, Parel. Telephone No. 60302.

Lymph can be obtained on cash payment at (a) the Central Vaccination Office, Suparibag Road, Parel from Monday to Friday between 8 a.m. and 5 p.m. (S.T.), and Saturdays from 8 a.m. to 10 a.m. (S.T.); (b) The Municipal Laboratory, Opp. Victoria Terminus, from Monday to Friday between 11 a.m. and 5 p.m. and Saturdays from 11 a.m. to 1-30 p.m.

The Public can vaccinate at their own houses at a charge.

The following are the vaccination stations in the suburbs of the Greater Bombay area :

Andheri Municipal Office ; Bandra Municipal Office ; Kurla Municipal Office.

Danda Village ; Khar P.V. ; Ghatkopar M.O.

Bhabha Hospital, Kurla ; Chimbai P.V., Bandra.

Chunabhatti, Kurla ; Santa Cruz General Hospital, Ghodbunder Road, Santa Cruz.

Vile Parle M.O. ; Bazar Ward P.V., Kurla.

Chemboor Camp ; Kalina Village.

Sewa Sangh Dispensary ; Municipal Dispensary, Agra Road, Bhandup.

Chemboor Dispensary.

Township Colony, Chembur, Ghatkopar Road.

THE LICENCE DEPARTMENT

Improvement Trust Building, 7, Napier Road, Fort, Bombay 1

This department deals with licensing, control of advertisements, control of hawkers and the removal of encroachments. For licences the city is divided into 18 sections each under an Inspector. For advertisements the city is divided into 7 sections also under Inspectors. The whole branch is under a Superintendent of Licences with two Assistants.

There are five Ward Offices for licences and advertisements, viz. A Ward : 7, Napier Road, Wards B and C : Gazar Street Null Bazar; D Ward : Gowalia Tank, Bombay 7, E Ward : Sankli Street; Wards F and G : Elphinstone Road.

There is one Senior Inspector in each Ward Office.

There are two Ward Offices namely Null Bazar and Sankli Street, for the control of hawkers and removal of encroachments respectively. Senior Supervisor (Wards) and Senior Supervisor (Lorries) are respectively in charge of these offices.

The office of the Suburban Section of the Licence Department is situated at Waterfield Road, Bandra. The Ward Offices of the Licence Section are situated at Santa Cruz and Kurla and the Encroachment Ward Office at Pali Hill Market, Bandra.

Superintendent of Licences, C. K. Patel, M.A., LL.B.
Asstt. Superintendent of Licences, N. S. Kharkar, B.A.
Asstt. Superintendent (Encroachment), A. A. Munshi, B.A. (Hons.)
Asstt. Superintendent of Licences (Suburbs), N. J. Alvares, B.A. (Hons.)

THE ASSESSMENT AND COLLECTION DEPARTMENT

Municipal Offices, Dr. Dadabhoy Naoroji Road, Bombay 1

There is a central office and seven ward offices (A to G) for the City, and a Central office at St. Martin's Road, Bandra and two Ward offices (H, K, L and M, N and T, P, and R) for the suburbs. The Department is concerned with the determination of rateable values and the preparation of bills in respect of property taxes, water tax, etc. and their recovery.

The addresses of the Ward Offices are as follows :—A Ward : Improvement Trust Bldg., Napier Road, Fort ; B Ward : Baboo Tank Road ; C Ward : 298-300, Princess Street ; D Ward : Gowalia Tank Road ; E Ward : Sankli Street ; F and G Wards : Near Municipal Market, Elphinstone Road ; H Ward : Waterfield Road, Bandra ; K Ward : Nehru Road, Vile-Parle ; L and M Wards : Pipe Road, Kurla ; N and T Wards : Jawahar Road, Ghatkopar ; P Ward : Ghodbunder Road, Goregaon (West); R Ward : Ghodbunder Road, Borivli.

Assessor and Collector, I. M. Mehta, B.A.
Dy. Assessor and Collector (City), N. S. Shirodkar, B.A. (Hons.)
Dy. Assessor and Collector (Suburbs), B. G. Jadhav.
Asstt. Assessors and Collectors, Sayed Husein Sultan ; R. K. Desai, B.A. ; A. S. Tipnis ; S. D. Aras ; G. N. Gokhale ; P. K. Mungekar

SHOPS AND ESTABLISHMENTS DEPARTMENT

Improvement Trust Building, 7, Napier Road, Fort, Bombay 1

The department sees to the administration of the Bombay Shops and Establishments Act of 1948 and since 1-4-1955 to the Payment of Wages Act, 1936 so far as establishments covered under the Bombay Shops & Establishments Act are concerned. It is under a Chief Inspector. The department is also responsible for the levy and collection of theatre tax. There are eight Ward Offices, *viz.* Ward A : Improvement Trust Bldg., 7, Napier Road, Fort ; B and C Wards : 1st Floor, Crawford Market ; D and E Wards : Fire Brigade Compound, Gowalia Tank ; Ward F : Central Vaccination Station, Parel ; Ward G : Dhuru Hall, Chabildas Road, Dadar.

Chief Inspector, Nathan Manasseh Haeems, B.A.

Dy. Chief Inspector, Syed Kutbuddin Kadri, M.A., LL.B.

Senior Inspectors, Vasant Bhagwantrao Parelkar, B.A. ; Shivsharan Gordhandas Patel, B.A., LL.B. ; Gulam Mohd. Kara Ravat, B.A. ; Kamlakar Atmaram Karnik, M.A., LL.B. ; Sanjiv Anant Pai, B.A. ; Abdul Razak Mohd. Siddique Patel, B.A., LL.B. ; Nissim Abraham Reubens, B.A., LL.B. ; Marcus DeSouza-Lousado, B.Sc. ; Krishnarao Ramrao Vaidya, M.A., LL.B. (*Working in Extended Suburbs at present*).

Junior Inspectors, Kamruddin Mohamedbhoy Merchant, M.A., LL.B. ; Narhar Ramchandra Patankar, M.A., B.Sc. ; Madhusudan Dattatrya Ranadive, B.A. ; Dattaram Bhau Mayekar, B.A. ; Damodar Ganesh Patwardhan, B.A. ; Nazarali Mushtaqueali Syed, M.A., L.S.G.D. ; Narsinha Gajanan Rege, M.A. ; Balkrishna Maganlal Trivedi, B.A. (Hons.) ; Kamruddin Ahmed Mulla, B.A. ; Shrikrishna Dattatraya Bendre, LL.B. ; Jafarali Hassanali Merchant, B.A. ; Eknath Venkoji Rangnekar, B.A. ; Dattatraya Laxman Kalzunkar, B.A. ; Nivrutti Dhulaji Bhandare, B.A. ; Ramchandra Raghunath Desai, B.A. (Bom.), L.S.G.D. ; Dwarkanath Martand Pradhan, B.A. (Hons.) ; Jamshed Cowasji Engineer, B.A. (Bom.) ; Vasant Raghunath Sarang, B.A. (Hons.).

THEATRE TAX SECTION

Senior Inspector, Rutton Hormasji Pastakia, M.A.

Junior Inspectors, Vasant Putlaji Desai ; Keshav Krishnaji Vaishampayan, L.S.G.D.

MARKETS AND SLAUGHTER HOUSES DEPARTMENT

Crawford Market, Dr. Dadabhoy Naoroji Road, Bombay 1

There are 61 markets in Greater Bombay out of which 37 are the property of the Municipal Corporation while the rest are owned by private individuals and licensed by the Corporation.

These markets are called upon to handle enormous quantities of daily necessities of life like fruits, vegetables, meat, fish, poultry, provisions, etc., etc., for the local consumption as well as for trade purposes.

A cold storage plant is maintained at the Arthur Crawford Market which is one of the biggest markets in the city. A lift is also provided in the Fish Section of this market for conveyance of fish consignments.

The scope of Municipal control extends to general supervision, sanitation, food-inspection, collection of rents and fees, licensing, repairs, replacements, etc., etc.

The Corporation also maintains a number of slaughter houses, the prominent being the Bandra and Kurla Slaughter Houses, the Pork Slaughter House and the licensed Jhatka Slaughter House at Arthur Road. Meat is conveyed to city markets by Municipal motor meat convoys.

An elaborate system of meat inspection, which includes ante- and post-mortem examination, grading and stamping of carcasses, rejection and destruction of unwholesome meat, etc. is regularly carried out by the Meat Inspection Service, consisting of qualified Veterinary officers engaged by the Corporation.

There is a special staff employed to detect the smuggling of animals and contraband meat and unauthorised slaughter.

Superintendent of Markets and Slaughter Houses, Vacant.

Asstt. Superintendent of Markets (Suburbs), V. G. Sukhtankar.

Senior Assistant, Bandra Slaughter House, Dr. S. A. Malandkar.

Chief Inspector, Dr. Victor Periyan.

THE STORES DEPARTMENT

Central Stores : 666, DeLisle Road, Byculla ; Sub-Depot : Bellasis Road, Byculla

The Department purchases articles, stores, etc. required by the Corporation.

Controller of Stores, Franklin D'Souza, B.E. (Civil), A.M.I.E.

Dy. Controller of Stores (Technical), K. A. Mehta, B.E. (Mechanical), B.E. (Electrical).

Dy. Controller of Stores (General), D. S. Nagarkatti.

Assistant Controller of Stores, D. R. Albal.

Assistant Controller of Stores (Tech.), E. V. Nunes, B.A., LL.B.

MUNICIPAL FIRE BRIGADE

Headquarters : Byculla Bridge, Telephone No. 011, 6 *lines ;* (for fires and accidents only).
76111-2-3 Direct Lines.

Chief Officer, Fire Brigade : S. G. Vengsarkar, B.A., M.I. Fire E.

Deputy Chief Officers : Capt Syed Mehmudshah (*City*) : A. K. Y. Siddiki, B.A. (Hons.) (*Suburbs*).

Second Officer, V. G. Pawar.

Additional Second Officer, S. Fredilis.

Fire Brigade Stations.

Headquarters, Byculla Bridge :—*Officers :* P. T. Samant, B.Sc., S. V. Shilotri ; M. N. Naik, B.Sc. ; S. M. H. Desai, B.Sc.

Alexandra Docks, Frere Road :—*Officers :* L. S. D. Mehervanjee ; G. N. Shetgeri, B.Sc.

Gowalia Tank, Gowalia Tank Road, Gamdevi :—*Officer :* R. B. Karma.

Sewree, Cotton Depot, Sewree :—*Officer :* B. G. Sawant.

Fort, Gunbow Street, Fort :—*Officers* V. B. Nikam, B.Sc. ; B. D. Borude.

Colaba, Lala Nigam Road, Colaba :—*Officer :* V. V. Vaidya, Jr., B.Sc.

Shivaji Park, 2nd Shivaji Park Road :—*Officer :* A. S. Kulkarni.

Andheri, Ghodbunder Road :—*Officer :* N. V. Chitnis, B.Sc.

Dadar, Vincent Road :—*Officer* . N. A. Khalib, B.Sc.

Memonwada, Sandhurst Road East :—*Officers :* S. M. Udhawar, E. M. Jacob, G. A. H. Qureshi, B.Sc.

Mandvi, Sardar Vallabhbhai Patel Road : *Officer* . B. V. Wagle, M.Sc.

Worli, Annie Besant Road :—*Officer :* R. R. Rao, B.Sc.

MUNICIPAL FIRE BRIGADE AMBULANCE SERVICE

Fire Brigade Headquarters, Byculla, Bombay No. 8.

Ambulance Services for Maternity Cases (Free).

Ambulance Services for Street Accidents (Free).

Ambulance Services for all other medical cases (Rs. 6 for the first hour or fraction thereof and Rs. 3 for each succeeding ½ hour or fraction thereof within the Greater Bombay limit and Rs. 10 for first hour or fraction thereof and Rs. 5 for each succeeding half hour or fraction thereof—tolls and other charges extra—outside the limits of Greater Bombay).

Hours of work :—24 hours.

Telephone No. 011 for street accidents.

Telephone No. 76113 for other purposes.

MUNICIPAL HOSPITALS

Dean, Govardhandas Sunderdas Medical College and King Edward VII Memorial Hospital, Dr. S. G. Vengsarkar, M.D. (Bom.), F.C.P.S. (Bom.).

Medical Supdt., Arthur Road Hospital, Dr. J. K. Thanawala, M.D., F.C.P.S.

Medical Supdt., Group of T. B. Hospitals, Sewri, Dr. M. S. Kavarana, M.B.B.S., L.C.P.S., D.M.R.E. (Cam.), T.D.D. (Wales).

Dean and Supdt., Bai Yamunabai L. Nair Charitable Hospital and Topiwala National Medical College, Dr. L. Monteiro, M.D.

Dean, Nair Hospital Dental College, Dr. H. D. Merchant, D.M.D., F.I.C.D.

Supdt., Municipal General Hospitals, Sion, Dr. S. V. Joglekar, M.S., F.C.P.S. (Bom.).

PRIMARY EDUCATION DEPARTMENT

Municipal Offices, Fort, Bombay 1

The Education officer is the executive Officer of the Department subject to the general supervision and control of the Commissioner and the Education Committee. Under the Education Officer there are Superintendents entrusted with the inspection of schools. There are at present 542 Municipal Schools and 86 classes conducted by the Education Dept. and 382 Aided and Recognised Schools to which the Education Dept. gives grants and recognition. The total number of pupils in all the Primary Schools in Greater Bombay is 3,70,001 out of whom 2,69,101 are in Municipal Schools and 1,00,900 in Aided and Recognised Schools.

Education Officer, Smt. Kapila T. Khandwala, B.A., B.T. (Bom.), M.A. (U.S.A.), J.P.

THE GARDENS DEPARTMENT

Victoria Gardens, Bombay 27

The Corporation maintains a number of gardens, bandstands, public parks and rockeries in the traffic islands of the city; in all there are 105 sites in the care of the Gardens Department within the city limits and 14 sites in the suburbs. The principal Gardens are the Victoria Gardens, the Sir Pherozeshah Mehta Gardens and Kamala Nehru Park on Malabar Hill, the Children's Park along Ridge Road, the Joseph Baptista Gardens on the Bhandarwada Reservoir on the Mazagaon Hill. In all there are 19 gardens, 9 small gardens and open spaces, 58 recreation grounds, 12 play-fields, 4 fountains, 4 Strips of Box Hedges and 9 traffic islands. Among the playgrounds the most important are the Mustan Shah Tank, the Reynolds Road, the Willingdon Memorial Playgrounds and the playground at 2nd Peer Khan Street. They are provided with gymnasium apparatus. An Akhada or Wrestling Pit has also been provided at the Willingdon Playground at Souter Street.

Superintendent, Municipal Gardens, G. S. Hegde.
Asstt. Superintendent (Zoo), Municipal Gardens, B. R. Phanse.
Asstt. Superintendent (Bot.), Municipal Gardens, F. D. Irani.

ELECTION BRANCH (ELECTION AND TOWN DUTY DEPT.)

Improvement Trust Building, Napier Road, Bombay 1

The election branch of the Election and Town Duty Department attends to the work of compiling and publishing the Municipal Election Roll and conducting the Municipal General Elections every four years.

The work of preparing the supplementary Election Roll every year and holding By-elections whenever necessary is also attended to by this branch.

Election and Town Duty Officer, V. G. Sabnis, B E.

B.E.S.T. UNDERTAKING

General Manager, M. G. Monani, I.C.S., J.P.
Deputy General Manager, N. Balkrishna, B.Sc (Elec. & Mech.) (Bangalore), M.I.R.T.E (Lond.), M.I.E (India).
Secretary, D. S. Venkataraman, F.C.C.S
Commercial Manager, M. C. Chudawala, G.D.A., A.C.A.
Controller of Stores, C. T. Shah, B.E. (Mech.) (Bom.), B.Sc. (El. Eng.) (Lond.), A.C.G.I., A.M.I.E.
Chief Engineer (Supply), T. S. Rao, B.E. (Mech.), M.I.E. (India), M.I.E.E. (Lond.).
Transport Manager, Lt.-Col. S. C. Ghosal, M.A., A.I.T. (Eng.), A.I.T.A.
Internal Auditor, N. E. Italia, B.Com.
Distribution Engineer, K. Matthan, B.A. (Madras), B.Sc. (Lond.)
Services Engineer, M. B. Lukmani.
Chief Accounts Officer, K. C. Tijoriwalla.
Traffic Manager (Trams), J. M. Gandevia.
Traffic Manager (Buses), C. D. Jefferels.
Engineer-in-Charge (Way & Works), S. K. Banerji, C.E. (Roorkee), A.M.I.E. (Ind.).
Superintendent, Consumer's: B. J. Dastur, A.M.I.E. (India).
Legal Adviser, R. S. Gavankar, B.A. (Hons.), LL.B.
Personnel Officer, F. P. Fernandes, B.A. (Hons.).
Public Relations Officer, J. D. Joglekar, LL.B.

BOMBAY CHRISTIAN BURIAL BOARD

Sewri Cemetery, Bombay 15

V. L. Gidwani, I.C.S. (Municipal Commissioner), *Chairman*.
K. Matthan, B.A., B.Sc. (Eng.), *Honorary Secretary, BEST House, Fort, Bombay*.
H. V. Laughlin, and T. C. Falcao, *Cemetery Clerks, Sewri Cemetery, Bombay* 15.

OTHER MEMBERS.

The Venerable the Archdeacon of Bombay.
The Chaplain of St. Thomas' Cathedral.
The Minister, the Church of Scotland.
The Chaplain of Byculla.
The Chaplain of Holy Name Church, Wodehouse Road.
The Chaplain of St. Anne's Church, Mazagaon.

ELECTED MEMBERS.

J. S. Pereira, B.A., B.Sc.

The members of this Board are nominated by the three recognised Christian Communities, for the management of Sewri Cemetery viz., the Roman Catholic Church, the Church of India, Burma and Ceylon and the Church of Scotland. The Board has certain powers which include the licensing of Undertakers, Agents, Sculptors and Tomb Builders.

HONORARY PRESIDENCY MAGISTRATES' AND JUSTICES OF THE PEACE FOR GREATER BOMBAY

Shalome Abraham, Jaswant'al Varjivandas Agashivala, Shrimati Deena Ahmedullah.

Anant Narayan Bagwe, Shrimati Meenakshi Dattaprasanna Bakhle, Anant Sakharam Bakre, Dalip Singh Bakshi, S. Benjamin, Shamlal Harilal Bhagwati, Dr. Labhshanker Ambashanker Bhatt, Dr. Survakant Jetha'al Bhatt, Major Nusserwanji Pirojshah Billimoria, Dr. Madhav Narayan Birje, Janardhan Ganpatrao Bodhe.

Thiruvilvamala Venkatakrishna Chidambaran.

Nalini Shantaram Dahanukar, Shrimati Tarunika Venilal Dehejia, Ladkoba Shrirang Desai, Madhusudhan Bhai'al Desai, Shapur Fredun Desai, Dattatraya D. Deshpande, Vaman Hari Deshpande, Dr. Khanderao Anandrao Dhairyawan, Rusi Cooverji Doodhmal, Phiroz Daraibshaw Dubash.

Manmohan Purshottam Gandhi, H. D. Gaokar, Yeshwant Arjoonrao Gole, Dr. Arsene Gomes.

Pestonji Cawasji Hansotia, Dr. Mohan Vasudeo Hindlekar.

Dr. Ganpat Vishram Jadhav, Hindurao Bhaskarrao Jadhav, Natwarlal Bhimbhai Jagtiriar, Shrimati Indira Purshottam Joshi, Keshavlal Dalpatram Joshi, Shrimati Sushila Dattatraya Joshi.

Dattatraya Nagesh Kale, Tribhuwan Damodar Kansara, Pabubhai Motilal Kapadia, Gopaldas Padamsey Kapadia, Dr. Hemant Ramkrishna Karnik, Dr. Gangadhar Subrao Koppikar, Krishnarao Moreshwar Kotasthane, Dr. Manubhai Chotalal Kothary, Atmaram Narayan Kothare, Peshotan Sorabji Kuka.

Behram Kaikobad Marzban, Rustom Phirozeshah Marzban, Dr. Homi Shapurji Mehta, Jasvantray Ghanshyamray Mehta, Rama Rao Venkat Rao Melmane, Shrimati Sulochana Mohanlal Modi, Dr. J. I. C. Moraes, Balkrishna Manikrao Nulgaonkar, Phiroze Rustomjee Mullaferose.

Dr. Balkrishna Ramchandra Nayen, Shrimati Kamala Vishnu Nimbkar, Vishnu B. Nimbkar, Dattatraya Ganesh Nimkar.

Nanabhai Jhaverbhai Patel, Dr. Raghubhai Maganlal Patel, Jehangir Jamshedji K. Patell, Balkrishna Parshuram Phatak, Shrimati Lecchai Vithal Phadke, Shrimati Manorama Gangadhar Phadke, Dr. (Shrimati) Champabai Dattatraya Pradhan, Pratap Bhoglal, Pratapsinh Shoorji Vallabhdas, Dr. Gajanan Dinkar Purandare, Dr. Narayan Raghunath Purandare.

V. V. Ranade, Janardan Mahadeo Rane, Shrimati Lila Mastakar Rele, Shrimati Bridget Leo Rodrigues.

Shrimati Nirmala Manohar Samarth, Amersey Odhavji Sanghvi, Ramanlal Gokaldas Saraiya, Bhikaji Bhujangrao Satdeshpande, Gajanan Waman Sathe, Shrimati Khorshed Minocher Sethna, Bhogilal Chimanlal Shah, Chunilal Jhaverchand Shah, Harshavadan Jivanlal Shah, Motichand Gautamchand Shah, Narandas Mohanlal Shah, Abdul Hussain Kassam Shaikh, Hasan Shaikh, Shrimati Sarala Jayachandra Sheth, Shantichandra Chimanlal Sheth Sahadeo Sitaram Shivatarkar.

Jayantilal Kalyanrai Thakore, Charandas Meghji Mathradas Toprani, Calian Dattatraya Vaidya, Vaman Pundlik Varde.

Shrimati Avabai Romanji Wadia, Laxmikant Narayan Welingkar, Hari Alaji Yevale.

JUSTICES OF THE PEACE (OFFICIALS)

(WITHIN AND FOR THE LOCAL AREA COMPRISED IN GREATER BOMBAY)

Acharekar, Rajaram Kashinath; Adam Adil; Adani, Laxmidas Liladhar; Adenwalla, Nariman Dadabhoy; Adivarekar, Shankar Hari; Aga, Jamshed Burjor; Agarwal, Gopaldas Tulsiram, Agashiwalla, Jaswantlal Varjivandas; Ahirekar, Anant Vithal, Ahuja, G. S.; Ahuja, Kumari Kamala Jesaram; Airan, Dr. J. W., Aiyer, Subbaraya Srinivas; Akshikar, K. G.; Ambalal, Kilachand; Ambardekar, Dr. G. S.; Amrelwala, Gulamhusein Alibhai; Amicha Jal Dhanjishaw; Anandkar, Kumari Pirojbai; Anklesaria, Dhirajlal Tribhuvan; Annigeri, Shrimati Sitabai; Ansari, Abdul Hamid; Antia, Gustasp Pirojshaw; Apte, Shrimati Manorama Laxmanrao Arolkar, Dharamraj Mahadeo; Arsiwalla, Abdul Hussen Esaji, Aver Sayaji Bhumaji.

Badami, Jayantilal Surchandra; Bagwe, Anant Narayan; Bakhle, Shrimati Meenakshi Dattaprasanna; Bakre, Anant Sakharam, Bakshi, Dalip Singh; Bakshi, Ramprasad P.; Bakara, Jal Phiroze; Bandookwala, Eshakbai Abbasbhai; Banerjee, Shib Chandra; Banker, Shrimati Lilavati Dhirajlal; Banerjee, Shrimati Sova Gopalchandra; Bapat, Vasant V.; Barodawalla, Abdul Hussein Salebhoy; Barve, Parshuram Mahadeo; Barve, Raghunath Dattatraya; Bastikar, Kumari Tara Ramkrishna; Bawla, Ismail Mohomed; Bazi, Kantilal Madanlal; Bedi, Awatar Singh Hiraman Singh; Benjamin, S.; Bhabha, Cooverji Hormasji; Bhagwat, Kumari Durga

N.; Bhagwati, Shyamlal Barilal; Bhansali, Dr. Kirtilal Mulukchand; Bharucha, Adam Musa; Bharucha, Maneckshaw Dossabhoy; Bhat, Dinubhai Labhshankar; Bhat, Kamalkant Kantilal; Bhat, Dr. Labhshankar Ambashankar; Bhat, Suryakant Jethalal; Bhate, M. G.; Bhatiekar, M. K.; Bhatt, Prabhashankar Ramchandra; Bhau, Bhaskerbhai Jamnadas Narotamdas; Bhilpodiwalla, Minocher Cawasji; Bhise, Shrimati Snehalata Dattatraya; Bhiwandiwalla, Ardeshir H.; Bhoosrath, Vithal Rajaram; Bhosle, Shankarrao Dhondiram; Bhujpuria, Khimji Madaon; Billimoria, Shrimati Dhanbai Kaikhusroo; Billimoria, Major Nusserwanji Pirojshah; Birje, Madhav Narayan; Birla, Rameshwar Das; Bobade, Pandurang Baburao; Bodhe, Janardhan Ganpatrao; Brown, James Alexandar; Buch, Chandrashankar Amratlal.

Cama, Muncherji Nusserwanji; Captain, Meherwanji Cursetji; Chainani, Satrandas Khusalchand; Chandavarkar, Ganesh Laxman; Chandavarkar, Lady Vatsalabai; Chaphekar, Shrimati Manorama Krishnaji; Chaturbhuj, Gordhandas Valabhdas; Chaves, Joseph; Chheda, Shivji Nathoo; Chellaram, Lokumal Kishinchand; Chidambaran, Tiduvilvamala Venkatakrishna; Chikhalikar, A. M.; Chinai, Babubhai Maneklal; Chitnis, Dr. Vasant Keshav; Chogle, Harivijay Waman; Chudasama, Shrimati Manharkuverbai Mansinhji; Contractor, Framroz Sorobji; Cooper, Peshotan Framji; Crasto, Justin Remi; Currimbhoy, Shrimati Zarina Ebrahim.

Dabholkar, Laxmikant Shantaram; Dahanukar, Shrimati Nalini Shantaram; Dalal, Shrimati Deviben S; Dalal Jayant Shivlal; Dalal, Merwanji Nadirsha; Dani, Jamubhai Vallabhdas; Daruvalla, Jal Khurshedji; Datey, Dr. K. K.; Dave, Bhaishankar Prabhashankar; Dave, Hiralal Aditram; Dawalla, Vithaldas Girdharlal; Dayal, Shrimati Babiben Mulji; Dayal, Khatau Govind; Deena, Shrimati Ahmedullah; Dehejia, Shrimati Tarunica Ventilal; Desai, Amul Maganlal; Desai, Chandrakant Mohanlal; Desai, Ganpatishanker Narayan; Desai, Hasmukhbhai Maganlal; Desai Krishnaprasad Chotalal; Desai, Ladkoba Shrirang; Desai, Madhusudan Bhailal; Desai, Shrimati Maniben N; Desai, Shrimati Nirmala Dhanvantrai; Desai, Shapur Fredun; Desai, Vishnuprasad Nandrai; Deshpande, Dattatraya D.; Deshpande, Madhav Krishna; Deshpande, Waman Hari; Devatia, Shrimati Jollyben Harshidbhai, Dewji, Gulamhussain Haji Ahmed; Dharyawan, Khanderao Anandrao; Dhalla, Burjor Dadabhoy; Dharamdas, Hargovandas; Dhebri, Revtikant Purushottam; Dhoble, Dattatraya Amrit, Dhongde, E R; Dhorajiwalla, Mohamedalli Alijt; Divgi, Bhavanishankar Padmanabh, Diwan, Govind Shrinivas; Dongerkery, Shrimati Kamalabai Sunderrao; Dongerkery, Sunderrao Ramrao; Doodhmal, Rusi Cooverji; Doshi, Dhirubhai Vallabhji Doosa Jamnadas Ramdas; Dubash, Bomanji Ardeshir; Dubash Phiroz Darabshaw; Dubash, Rustomji Darabshaw; Dwarkadas Chapsi

Ebrahim, Ramzanally Peermohamed; Engineer, Hormasji Jehangirji.

Fazalbhoy, Mohamed Akbar; Fazalbhoy, Mohammadali Gulamali; Fazalbhoy, Yusufali Abdulla; Fazelbhoy, Hussein Alimohamed; Ferreira, Dominic Joseph.

Gaikwad, Krishna Kallo; Gandhi, Himatlal Varjivan; Gandhi, karsandas Mohanlal; Gandhi, Manmohan Purshottam; Gandhi, Nalinikant Mulchand; Gandhi, Navnitlal Mohanlal; Gandhi, Pravinchandra Varjivan; Gandhi, Ratilal Mulji, Gandhi, Wadilal Chatrabhuj; Gandhy, Adi Peshotan; Gaonkar, Gangadhar Kakasaheb; Gaonkar, Dr. H. D.; Garware, Bhalchandra Digambar; Gawankar, Shantaram Yeshwant; Ghaswalla, Harkisondas Laxmidas, Gheewala, Ochchhaulal Harkisondas; Ghia, Shrimati Chanchalaben Maganlal; Ghose, Nirendra Nath; Gogate, Manohar Narayan; Gokhale, Shrimati Kamalini Keshav; Gokhale, Ramchandra Ganesh; Gole, Yeshwant Arjoonrao; Gomes, Arsenio; Gramopadhye, Dr. G. B.; Gubby, Nagu Shriniwas; Gumaste, Keshav Balwant; Gupta, Kanahyalal Harichand; Gupta, Tarachand Khushiram; Gurjar, Narayan Pandurang.

Hafizka, Abdul Kader; Haji, Gulam Mohamed Ismail; Haji, Syed Aboo Mohamed; Hamied, Dr. K. A.; Hansotia, Pestonji Cawasji; Hansraj, Rattansey; Hardikar, Ramkrishna Kashinath; Harris, Mohiuddin; Hate, Dr. (Shrimati) Chandrakala Anandrao; Heredia, James Nathaniel; Herwadkar, Dr. R. V.; Hindlekar, Dr Mohan Vasudeo; Hirnandani, Divanmal Hardasmal; Hiranandani, Dr. Lakhumal Hiranand; Hirlekar, Shrimati Yamunabai K.; Hutheesing, Shrimati Krishna Gunottam.

Ibrahim, Burhan Sayed; Irabati, Laxman Balaji; Irani, Kaikhushroo Rustom; Ishar Singh Daya Singh; Ismail, Shrimati Fathema; Ismail, Haji Hasham; Ismail, Mohamed Hassiam.

Jadhav, Dr. Ganpat Vishram; Jadhav, Hindurao Bhaskarrao; Jagirdar, Natwarlal Bhimbhai; Jain, Jagdish Chandra; Jairazbhoy Hassanally Casambali; Jalan, Ghanshamdas Kishanlal; Jalundhwala, Shrimati B. C.; Jambodkar, Gajanan Hari; Jasdenvala, Abdullabhai Adamji; Javeri, Narendra Mangaldas; Javeri, Navinatlal Chunilal; Jawkar, Dattaram Baburao; Jayakar, Madhukar Vishwasrao Balaji; Jeevandas, Kumari Prema; Jehangir, Lady Hirabai Cowasji; Jhabwalla, Shrimati Meherbanoo Shiovax; Jhaveri, Nanubhai Kanjibhai; Jhaveri, Pratap Bhogilal; Jijeebhoy, Sir Jamsetjee; Jog, Ramchandra Ganesh; Joshi, C. B.; Joshi, Shrimati Hirabai J.; Joshi, Shrimati Indira Purshottam; Joshi, Jamiyatram Kashiram; Joshi, Keshavlal Dalpatram; Joshi, Mahadev Dattatraya; Joshi, Manishankar Deoshankar; Joshi, R. B.; Joshi, Shrimati Sushila Dattatraya; Juvale, Yeshvant Mahadeo.

Kabraji, Dosabhoy Hiraji; Kadam, Narayan Dhondu; Kadav, Vishnupant Kashinath; Kajrolkar, Ramchandra Sadoba; Kale, Dattatraya Nagesh; Kalidas, Shrimati Sulochana Amritlal; Kamdar, Bhagwandas Morarjee; Kamat, T. A.; Kanekar, Anant; Kanhere, Laxman Hari; Kanji, Dwarkadas; Kanji, Jaisinh Vithaldas; Kansara, Tribhuvan Damodar; Kapadia, Shrimati Aloo Jamshedji; Kapadia, Babubhai Motiram; Kapadia, Framroze Pestanji; Kapadia, Gopaldas Padamsey; Kapadia, Pranlal Sunderji; Kapadia, Ratanshi Chapsi; Karande, Shrimati Neera Yeshwant; Karandikar, Dr. M. A.; Karanjia, Nariman Kaikhusroo; Karnik, Dr. Hemant Ramkrishna; Karruven, Shrimati Yeshoda Muljii; Katre, Shrimati Vimal Waman; Kavarana, Minocher Rustomji; Kelkar, K. R.; Kerkar, Dr. Vishwanath Mangesh; Kesharwalla, Hirji Keshavji; Khadilkar, Yeshwant Krishna; Khakar, Babubhai Madhavji; Khambata, Dr. Fardoon Sorabji; Khambata, Shrimati Mehru Kaikhshru; Khandalwal, Shrimati Dina Sorab; Khandelwal, Jankidas Bhikkilal; Khandelwal, Ramprasad Ramchand; Khandwala, Shrimati Kanta Dhirajlal; Khandwala, Kumari Kapilaben; Khandwalla, Navinchandra Juliram; Khandke, Dattatraya Narahari; Khata, Dharamdas Bhogilal; Khatau, Dharamsey Mulraj; Khatkhatay, Shaikh Muhammad; Khedekar, Chintaman Bhamboji; Kher, D. G.; Khety, Abdulhusam Bedalbhoy; Khimji, Bhawanji Arjun; Khimji, Karsandas Tulsidas; Khira, Himmatlal Narshidas; Khopkar, Madhusudan Shankar; Khorakiwalla, Fakruddin Tahyrbhai; Kilachand Tulsidas; Kirkire, Shrimati Kusum Gopal; Kirpalani, Shrimati Guli Hiranand; Kolge, Kashiram Sakharam; Kooka, Minochar Darasyaw, Koppikar, Gangadhar Subrarao; Kotasthane, Krishnarao Moreshwar; Kothare, Dr A. N.; Kothari, Dhirajlal Girdharlal; Kothari, Jamnadas Khimji, Kothari, Mansukhlal Chotalal; Kothari, Ratilal Chimanlal; Kothari, Vadilal Amritlal; Kothawala, Lt.-Col. Jamshed Dorabsha; Kshirsagar, Dnyandeo Shantaram; Kubal, Ankush Tukaram; Kudpi, Bhujangrao Nagayya; Kuka, Peshotan Sorabji; Kuka, Rustom Behram F; Kulkarni, K. P.; Kulkarni, Dr Ravindranath Naravanrao; Kulkarni, V H.; Kulkarni, W. L. Ladiwala, Jamnadas Kherajbhai; Lalan, Ranji Ravji; Lalji, Virajlal Vasanji; Lalji, Habib Gulam Hussein; Latif, Mohamed Abdul; Lathi, Jayantilal Laxmishankar; Lele Bhaskar Viswanath; Loke, Gajanan Shankar

Madhavan, M, Madurkar, Balkrishna Vithal; Mafatlal, Arvind Navinchandra; Magar, Shrimati Anjanabai Narhar; Maheshwar, Sakharam Babaji; Mahashabde, Govind Balkrishna; Maheshwari, Sharadchandra Bhavanji; Mahimtura, Mitrasen Gajanan; Mahindra, Harish, Maitra, Jagadish Chandra, Makani, Ibrahim Abdulla; Makawa, Narayan K, Makharia, Ganga Chatrabhuj; Maleiu, John Samuel Shamsunder; Mandvikar, Narayan Chandroji; Mani, Ramswamy Subramanian, Mankar, Jayantilal Naradlal; Mariwalla, Vallabhdas Vasanji; Marzban, Behram Kaikobad, Marzban, Rustom Phirozeshah; Masani, Shrimati Dolly Pherozi F; Masani, Minochar Rustom, Mashelkar, Narayanrao S; Mathalone, Reginold; Mathradas, Haridas; Mathuradas, Dwarkadas; Matkar, Waman Shankar; Mehdi, Rajabally Kassam, Meher-Homji, Dady Rustomji; Mehta, Chamanlal Maneklal; Mehta, Chhotubhai Keshavji; Mehta, Dara Sorabji; Mehta, Dhirajlal Lalshankar; Mehta, Homi Shapurji; Mehta, Jaswantray Chankhyantray; Mehta, Manilal Vijpal; Mehta, Markandrai Balwantrai; Mehta, Navalchand Abhechand; Mehta, Ratilal Bachardas, Mehta, Surendra Maganlal; Melmani, Rama Rao Venkat Rao; Merchant, Haji Mahomed Umal; Merchant, Hansraj Parshottam; Merchant, Haridas Nensey; Merchant, Jamnadas Jagmohandas; Mhatre, Parshuram Atmaram; Miaji, Yusuf; Mirani, Hansraj Jivandas; Mistry, Rahim Karim; Mithalwala, Bhailal Mohanlal, Mittal, Morarilal; Modak, Narayan Vinayak; Modi, Shrimati Jerbai Homi; Modi, Shrimati Sulochana Mohanlal; Modi, Surendra Manilal; Mogre, Shantaram Moreshwar; Mohamed Amin Mohamed Idris; Moraes, C.; Morakhia, Kantilal Ishwarlal; Morarji, Gordhandas Gokuldas; Morarka, Ratanlal; Motilal, Mugatlal (Tapuriah); Motwani, Nanik Gyanchand; Mulgaonkar, Balkrishna Manikrao; Mulji, Ratansi; Mullaferoze, Phiroze Rustomjee; Mydeo, Vasudev Govind

Nadirsha, Erach Ardeshir; Nadkarni, Kumari Anusuya Mahadeo; Nagda, Laxmichand Cooverji; Nagwekar, Vishwas Mahadeo; Naik, P. G.; Naik, Ramrao Narayan; Nair, Govind Parmeshwar; Naravati, Shrimati Maniben; Naravane, Kashirath Ganesh; Narender Singh Mahinder Singh; Narottamdas, Gowardhandas Bhagwandas; Narsi, Muljibhai Vishram; Nathani, Sultan Alladin; Nathani, Sultan Karamali; Navalkar, Kumari Malati Vinayak; Nayen, Balkrishna Ramchandra; Nerurkar, R. S.; Nerurkar, Shrimati Sushila Digambar; Nikaljay, Shrimati Tarabai Ramchandra; Nimbkar, Shrimati Kamala Vishnu; Nimkar, Dattatraya Ganesh; Nimkar, Vishnu R.; Nurie, M. Y.

Oak, Shridhar Vithal; Oke, B. Y.; Oza, Gabharubha Jivabhai; Oza, Indravadan Manmohanrai.

Pai, Nagnath Vasudeo; Pakvasa, Arvind Mangaldas; Pakvasa, Shrimati Purnima Arvind; Palaye, Padmanabh Shastri; Palekar; Gopal Purshottam; Palkar, J. M.; Pandit, Atmaram Bhaskar; Pandey, Ramsahai Shioprasad; Pandya, Chandoolal Shivrao; Panju, Esmail Abdulkarim; Panwala, Manubhai A.; Parekh, Chimanlal Bapalal; Parekh, Khushaldas Kurji; Parekh, Madhusudan Chamanlal; Parekh, Nathalal Manekchand; Parikh, Ambalal C.; Parikh, Chimanlal Motilal; Parikh, G. D.; Parikh, Ramanlal Mohanlal; Parikh, Kumari Vidyaben C.; Parulekar, Anant Vithal; Patankar W. B.; Patel, Dahyabhai Shankarbhai; Patel, Dayabhai Vallabhbhai; Patel, Ishwarbhai Somabhai; Patel, Dr. Jal Ratanji; Patel, Jehangir Jamshedji K.; Patel, Narsibhai Javerbhai; Patel, Dr.

Nathoobhai Dayalji; Patel, Prabhadbhai Keshavlal; Patel, Pramukhalal Manilal; Patel, Dr. Raghubhai Maganbhai; Patel, Rustom Eduljee; Patel, Vallabhbhai Motibhai; Patil, Kanojkumar Gopal; Patkar, Shrirang Jagannath; Patkar, Sitaram Ramchandra; Patki, Janardan Ganesh; Patrao, Dr. Stanislaus; Patuck, Sorab N. C.; Patwa, Venilal Narottamdas; Patwardhan, Shrimati Dayabai; Patwardhan, Dr. Shivram Viswanath; Pavri, Home Framroze; Pavri, Hormusji Framroz; Pavri, Pirojshaw Framroz; Pavri, Ratanshah Kaikhushroo; Pawar, Nathuram Pandurang; Phadke, Shrimati Leelabai Vithal; Phadke, Dr. G. M.; Phadke, Shrimati Manorama Gangadhar; Phatak, Balkrishna Parshuram; Pinto, Frederick Michael; Podar, Ghanshamdas Sitaram; Podar, Ramnath Anandilal; Pooneger, Nasserwan Hosmasji; Poonjiajee, Jehangir Jamshedjee; Popat, Mohanlal Bhavanbhai; Potia, Fidda Ali Mohamed Ali; Prabhudesai, V. K.; Pradhan, Shrimati Champabai Dattatraya; Pradhan, Shantaram Govind; Pratapsing, Visonji Mathuradas; Pratapsing, Shoorji Vallabhdas; Premchand, Shrimati Tarabai Maneklal; Premji, Mohamed Hussain Hasham; Priyolkar, Anant Kakba; Pundole, Hoshir Nowroji; Pupala, Narsingrao Chinappa; Purandare, Gajanan Dinkar; Purandare, Narayan Raghunath; Purandare, V. S.; Purshottam Kanji.

Rahimtoola, Sir Fazal Ibrahim; Raiji, Shrimati Jayashri; Rajpally, Dashrath Bapurao; Rajadhyaksha, Bhalchandra Hari; Rajadhyax, M. V.; Rajpal, Ghanshamdas Narainda; Ramdas, Kilachand Devchand; Ramlingam, A. C.; Ranade V. V.; Rane, Janardhan Mahadeo; Rane, Jayanand Moreshwar; Rane, Shrimati Snehalata Ramrao; Rangoonwala, Zainulabidin Gulamhusain; Rao, Sujir Sanjiva; Rao, Dr. V. D.; Ratanchand, Hirachand; Ratanlal, M.; Rattansey, Devji; Raval, Vasudeo Gulabram; Raw, Kavi Sadashiv Jaganivas; Rege, P. S.; Rege, Shivram Dattatraya; Rele, Shrimati Lila Mastakar; Rodrigues, Leo Navian; Rodrigues, Shrimati Bridget Leo; Ruia, Ranniwas Ramnarain; Rustomjee, Kumari Any B. H. J.

Sabharwal, Harbans Singh Jodh Singh; Safiyuddin, Salebhai Saheb; Salebhoy, Abdul Kadar; Salla, Virji Narsi; Salvey, Gajanan Sadashiv; Salvi, Pandharinath Mahadeo; Samant, Narayan Daji; Samant, Shrimati Sharayu Shamrao; Samant, Yashwant Atmaram; Samarth, Shrimati Nirmala Manohar; Samarth, Raghunath Narayan; Sanghavi, Amersey Odavji; Santos, John; Sapre, Dhondu V.; Sarang, Abdul Kadar Mohamed; Saraiya, Shrimati Padmavati Ramanlal; Saraya, Ramanlal Gokaldas; Sardeshpande, Bhikaji Bhujangrao; Sathe, Gajanan Vaman; Savani, Maganbhai Mangubhai; Savla, Hirji Ghelabhai; Sayani, Shrimati Kulsum Janmohmed; Syed, Mohommed Said; Seth, Shrimati Sarala Jayachandra; Sethna, Shrimati Banu Pirozshah; Sethna, Shrimati Dina Kawasji; Sethna, Shrimati Khurshid Minocher; Sethna, Khushru Shiavax; Sethna, Ratan Shivax; Shah, Bhogilal Chimanlal; Shah, Chandulal Somanlal; Shah, Chandulal Tribhuvandas; Shah, Chandulal Vardhman; Shah, Chunilal Javerchand; Shah, Gambhirchand Oomedchand; Shah, Gangji Devraj; Shah Harshavadan Jivanlal; Shah, Indulal Hiralal; Shah, Jivraj Bhanji; Shah, Khushalbhai Khengar; Shah, Laxmichand Lalji Ramji; Shah, Lakhamsi Ghelabhai; Shah, Liladhar Pasoo; Shah, Madhavlal Hiralal; Shah, Mahendra Jivanlal; Shah Motichand Gautamchand; Shah, Nagindas Nanamal; Shah, Narandra Mohanlal; Shah, Pannalal B.; Shah, Ratilal Dahyabhai; Shah Shantilal Chhonilal; Shah, Shantilal Hiralal; Shah, Shantilal M. Shah, Vithaldas Hakamchand; Shaikh, Abdulhussain Kassam Shaikh, Hassan; Shalome, Abraham; Sharma, Jagdeo Shankar Sharma, Kantilal Mohanlal; Shavaksha, Shrimati Gool Akbarbai Sheode, Shankar Krishna; Shete, Dattaram Ganpatrao; Sheth Shanischandra Chimanlal; Sheth, Dr. Shantilal Chahganlal Shetye, Vasudeo Govind; Shinday, Baburao Nanasaheb; Shivtarkar, Sahadeo Sitaram; Shivtarkar, Sitaram Namdeo; Sindgi, Razal Bandisaheb; Sinha, Bindeshwar Prasad; Sequeira, Victor Frederick Shoda, Hiralal Tribhuwandas; Sohoni, Shrimati Kamla Shankar; Somaya, Gokuldas Velji; Songaonker, Saviaram Gundaji; Soondardas, Morarjee; Soudagar, Gulamnabi Haji Abdul Rehman, Sovani Shankar Vinayak; Sthalekar, Anant Sheshgiri; Subramaniam K. G.; Sukhtankar, Sadanand Ramchandra; Sunkersett, Bhalchandra Raoji.

Taher, Mohamed Habibulla; Talwalkar, Dattatraya Trimbak Tata, J. R. D.; Tata, Naval Hormusji; Telang, Vinayak Dattaram Thacker, Ramji Lavji; Thackersey, Krishanaraj Madhavjee Damodhar; Thackersey, Shrimati Premlila Vithaldas; Thakare, Sahadeo Mukund; Thakore, Jayantilal Kalyanray; Thakore, Kantilal Motilal Thakur, Maheshwar Vishnu; Thar, Shantilal Liladhar; Tope T. K. Tripathi, Ramratan Ayodhyaprasad; Trivedi, Harishankar Nathubheshankar; Tulla, Vishwanath Rajanna; Tyebjee, Dawoodkhan Salebhoy; Toprani, Charandas Megji Mathradas; Trilokekar, Shrimati Manorama K.

Upadhyaya, Purshottamdas Uttamram

Vagal, Shrimati Sumati Balaram; Vahalia, Harisukh Hardas; Vahanvaty, Essufally Mohamedally; Vaidya, Balkrishna Narayan; Vaidya, Shrimati Bhanumati Murarji; Vaidya, Callan Dattatray; Vaidya, Murarji Jadavji; Vaidyanathan, Laigadi Swaminath; Vakharia, Dwarkadas Haridas; Vakharia, Manikial Nathalal; Vakil, Vasantram Jamiatram; Vallabhdas, Peraj; Varadkar, Purshottam Vishwanath; Varde, Vaman Pundalik; Vartak, Purshottam Gajanan; Vatcha, Rustom Sorabji; Vazifdar, Shrimati Shirin Noshir; Vazirali, Nazirhussein; Velingkar, Lakshmikant Natekar Velinkar, Vasant Shrikrishna; Velji, Husseinbhai Abdulla; Vensarkar, Dr. Sawaram Ganpatrao; Vengsarkar, Shrimati Sumati Sawlaram; Verma, Mangaldas Nandlal; Vora, Chhotalal Bhaidevji Vyas, Mulshankar Hirji.

Wadia, Shrimati Avabai Homanji; Wadia, Jamshed Bomanji, Wadia, Neville Ness; Wadia, Sarosh Ratanji Wadia, Wamanrao Wasudeo; Waghchowre, D. P.; Walavalkar, Shrimati Lakshmibai Wasudeo; Walkatti, Sidram Tipanna; Worlikar, Wasudeo Balkrishna.

Yagnik, Bhanushankar Mancharam; Yagnik, Shrimati Premila Bhanushankar; Yewle, Hari Abaji; Yusuf, Abdul Rahiman Mohamad

RAILWAY PERSONNEL IN BOMBAY

BOMBAY PORT TRUST RAILWAY

Manager, J. N. Adaggra, B.A.
Assistant Managers, H. A. Mirza; D. R. S. Basrur, M.A.; N. P. Bapat, B.A. (Hons.), LL.B.
Assistant Managers (Junior), J. A. Vaz, B.A.; H. J. Kajadia.

CENTRAL RAILWAY

Offices :—Victoria Terminus, Bombay

Open 5,635·25 miles—Bombay Harbour Branch and Mahim Connection Chord Line, Bombay to Allahabad, Bhusawal to Nagpur, Kalyan to Raichur, Itarsi to Nagpur, Amla to Parasia, Itarsi to Agra, Bhopal to Ujjain, Bina to Katni, Bina to Baran, Baran to Kotah, Jhansi to Kanpur, Jhansi to Manikpur, Ait to Kunch, Dhond to Manmad, Paisadhari to Khopoli, Kurla to Mankhurd, Chalisgaon to Dhulia, Jalamb to Khamgaon, Badnera to Amraoti, Wardha to Balharshah, Majri to Rajur, Agra to Okhla, Murtijapur-Ellichpur, Murtijapur-Yeotmal, Pulgaon-Arvi, Dhond-Baramati, Matheran Hill, Pachora-Jamner, Manmad to Secunderabad, Secunderabad to Dronachellam, Madkhed to Adilabad, Purna to Hingoli, Ninasamudram to Bodhan, Parbhani to Purli-Vaijnath,* Dornakal to Singareni Collieries, Dornakal to Bhadrachellam Road, Wadi to Secunderabad, Secunderabad to Kazipet, Kazipet to Beswada, Kazipet to Balharshah, Kurduwadi-Latur, Kurduwadi-Miraj, Ujjain-Agar, Gwalior-Shivpuri, Gwalior-Shivpuri-Kalan, Gwalior-Bhind, Dholpur-Mohari, Mohari-Sarbatra, Mohari-Tantpur.

* Vikarabad to Purli-Vaijnath.

GENERAL MANAGER'S OFFICE
V.T., Bombay

General Manager, B. Arora.
Senior Deputy General Manager, M. A. Rao.
Secretary to the General Manager, M. S. Sundra, M.Sc.
Statistical Officer, K. Sambamurthy.
Compilation Officer, G. D. Joseph.
Public Relations Officer, B. Natarajan.
Assistant Public Relations Officer, R. B. Manolkar, B.A.
Assistant Secretary (Complaints), A. P. Iyengar.
Assistant Deputy General Manager, R. G. Bendre.

PERSONNEL ORGANIZATION

Deputy General Manager (Personnel), V. V. Bhide, M.A. (Cantab.)
Personnel Officers, B. G. Ketker (*Engineering*); E. P. Mathew, M.A. (*Transportation*); John Jeffrey (*Commercial*); P. K. Narayanaswami, M.A., B.L. (*Labour*).

ENGINEERING DEPARTMENT
Bombay Division (Headquarters).

Chief Engineer, Bombay, G. Visvanathan, B.E., A.F.P.W.I.
Engineer-in-Chief, Vacant.
Deputy Chief Engineers, Bombay, M. I. Chhaya, B.E. (Hons.), A.M.I.E. (India), A.M.A.S.C.E., F.P.W.I. (*Headquarters*); D. L. Malvankar, B.E., F.P.W.I. (*South*); F. X. Lobo, B.E., F.P.W.I. (*Central*); P. Govinda Rao, B.Sc. (Hons.) (Lond.), A.F.P.W.I. (*North*).
Track Supply Officers, E. S. M. Carlos, B.E., A.F.P.W.I.; T. N. Subramanian, B.Sc. (*Y&N, Planning*); T. S. Rajagopal, M.F.W.I. (A.I.V. *Bridges*); K. K. Rao, B.E., A.M.Struc.E., D.Y.C.E. (*Bridges*), M.I.E. (India), A.F.P.W.I. (*Projects*); D. G. Divji, B.E., A.F.P.W.I., D.Y.C.E. (*K. H. Construction*); K. Sitaraman, B.E. (Hons.), A.M.I.E. (India), A.M.A.S.C.E., A.F.P.W.I., M.A.C.I., D.Y.C.E. (*K. H. Construction*); P. B. Albara, B.A., B.Sc. (Hons.), Manchester, A.M.I.E., D.Y.C.E. (*Special*); J. M. Parikh, B.E., A.F.P.W.I. (*Designs*).
Personnel Asstt. Chief Engineer, F. X. A. Nazareth, B.E.
Executive Engineer, Khandwa-Hingoli Construction, R. M. Ogale, B.E.
Divisional Engineers (HS), G. A. Sheriff, B.E., S. Moinuddin, B.E., A.M.I.E.
Executive Engineer, Special Works at Kurla, P. V. Gole, B.E.

OPERATING DEPARTMENT

Head Office (Bombay), Victoria Terminus.

Chief Operating Superintendent, R. B. Lal, M.Sc.
Deputy Chief Optg. Superintendents, Mohd. Fariduddin, B.Com. (Leeds), Bar-at-Law, F.R.E.S. (Lond.) (*Coaching*); N. Y. Manohar, B.E. (*Goods*).
Divisional Optg. Superintendent (Goods), F. Da Costa, B.A., M.Sc.
Divisional Optg. Superintendent (Coaching), S. Ramaswamy.

Bombay Division

Divisional Supdt., L. D. Panke.
Divisional Optg. Supdt. (Movement), P. Anantha Pai, B.Sc.
Divisional Personnel Officer, K. S. Venkatachalam, B.Sc. (Hons.).
Divisional Mechanical Engineer, Anand Prakash, A.M.I.M.E.

COMMERCIAL DEPARTMENT

V.T., Bombay

Chief Commercial Superintendent, R. K. Bokil, B.A.
Dy. Chief Commercial Superintendents, K. L. Simhan, B.A., LL.B., F.R.Econ., S.F.S.S. (*R. & C.*); A. R. Sundararajan, M.Sc. (*General*).
Divisional Commercial Superintendents, Arjun Pershad (*Developments*); S. P. Ranganathan, B.A., M.Sc. (*Refunds (Rates)*); Shamrao S. Nadkarni (General).
Superintendent of Claims, Byculla, Bombay, K. S. J. Dalal, B.A., LL.B.
Divisional Commercial Superintendent, Bombay Division, K. V. Pandit.

TRANSPORTATION (POWER) AND MECHANICAL ENGINEERING DEPARTMENT

Headquarters Office, Bombay, V.T.

Chief Mechanical Engineer, J. W. E. Gurr, A.M.I. Mech. E., A.M.I. Loco. E.
Dy. Chief Mechanical Engineers, B. P. Hira, B Sc. (Tech.), A M.E.T. (Manch.), A.M.I.E. (India), A.M.I M.E. (Lond.) (*R. & M.*); R. D. Nadirshaw, A.M.I. Mech. E., A.M.I. Loco. E. (*C. & W.*).
Personal Assistant to C.M.E., R. P. Goes, A.M.I. Loco. E.
Dy. Chief Optg. Superintendent, T. C Pant.
Divl. Mechanical Engineer, M. N. Majumdar.
Fuel Officer, R. V. Iyer, A.M.I.L.E., M M E A (India), L M E. (Bombay).

Locomotive Workshops, Parel

Works Manager, A. Balakrishnan, B.E., A M I M.E.
Production Engineer, S. C. Vadera, A.M I M E.

Carriage & Wagon Workshops, Matunga

Works Manager, A. C. Chatterjee, A M.I.M.E.
Production Engineer, M. Matcher.

Laboratory, Parel

Chemist and Metallurgist, Dr. A. S. Bahaduri.

SIGNALS & TELE-COMMUNICATION DEPARTMENT

Chief Signal & Tele-Com. Engineer, M. S. Viswanathan, B.E., D.I.C. (Lond.).
Divisional Signal & Tele-Com. Engineers, A K. Srinivasan, D.S.T.E. (S); M. Susai Raj, A.M.I.E. (India), D S T (*T*); F. A. Vaz, D S.T.E. (*Planning*).

ELECTRICAL BRANCH

Chief Electrical Engineer, J. D. Malhotra, A.M.I.E E., A.M.I.E. (India).
Dy Chief Electrical Engineer, D. S. Mehta.
Traction Engineers, V. J. Nissim, A.M I.E. (India) (*Bombay*); A. A. Hattangadi, B.E. (*M. & B.*) (*Bombay*).
Divisional Electrical Engineers, R. L. Mitra, B Sc. (Hons.), B.Sc. (Eng.), grad. I.E.E.; K. S. Pai, L.E.E. (*Matunga*).

KALYAN POWER HOUSE, THAKURLI

Power House Superintendent, P. C. Bahree, A.M.I.E.E.
Maintenance Engineers, P. Sathiapalan; N. D. Gupta; M. K. Bates.

STORES DEPARTMENT

Head Office:—Victoria Terminus, Bombay

Controller of Stores, S. Gopalan, B.E., M.I.E. (India).
Dy. Controller of Stores, S. Wahabuddin Ahmed, B.Sc. (Aligarh), B.S.O. (Lond.), A.M.I.E., A.C.G.I.
Dy. Controller of Stores (Planning), N. C. Killavala, B.E. (Mech.), A.M.I.E. (India), B.I. (Mech.) E., London.

ACCOUNTS DEPARTMENT

V.T., Bombay and Secunderabad

Financial Adviser and Chief Accounts Officer, S. S. Gore, B.A., Bar-at-Law, M.I.E.A.
Dy. Chief Accounts Officer, Finance, K. V. Kasturi Rangam.
Deputy Chief Accounts Officer (General), M. D. Oza.

MEDICAL DEPARTMENT

Chief Medical Officer, Dr. E. C. Vevaina, M.B.B.S. (Bom.), L.R.C.P. (Lond.), M.R.C.S. (Eng.), D.T.M. & H. (Lond.).

WESTERN RAILWAY

Offices: Churchgate, Bombay. Broad, Metre and Narrow.

HEADQUARTERS OFFICE, CHURCHGATE (GENERAL & PERSONNEL)

General Manager, M. K. Kaul.
Senior Dy. General Manager, M. M. Khan.
Dy. General Manager (General), S. S. Lal, A.M.I.L.E.
Secretary, S. G. Samant, M.Sc.
Public Relations Officer, T. P. Subramanhyan, M.A.
Statistical Officer, C. M. Rees.
Assistant Secretary, L. P. Rangel.
Asstt. Public Relations Officer, H. D. Sethna, M.A. (Hons.).
Divisional Supdt., Bombay, Bombay Central, R. N. Choudharie, D.F.H.

PERSONNEL

Deputy General Manager (Personnel), M. R. Sanjana, M.P.

ACCOUNTS DEPARTMENT

Financial Adviser & Chief Accounts Officer, Bombay, S. G. Pothan, M.A. (Madras).
Dy. Financial Adviser, M. N. Datta.
Dy. Chief Accounts Officer (General), Bombay, D. G. Tere, B.A.
Dy. Chief Accounts Officer (Survey & Construction), G. M. Gidwani, M.A.

ENGINEERING DEPARTMENT

Chief Engineer, G. Y. Mangrulkar, B.E., M.I.E. (India).
Engineer-in-Chief, Surveys and Construction, Churchgate, M. B. Patel, B Sc. (Eng.), A.C.G.I., A.F.P.W.I.
Deputy Chief Engineers, M. J. Patel, B.E. (Bom.), A.M.I. Struc.E. (*South*); N. K. Hazra, B.Sc. (Lond.) (*Centre*); P. N. Zutshi, B.Sc. (Lond.), A.C.G.E. (*North*); Hari Sinha, B E., A.M I.E., F.P.W.Inst. (Lond.), (*West*); A. C. De, B E. (*S. & C.*); V. Giridharadas, B.E. (*Special*); T. R. Vachha, B E. (Bom.) (*Bridges*).

SIGNALS & TELE-COMMUNICATION DEPARTMENT

Chief Signals & Tele-Communication Engineer, Bombay, G. R. Pathak, L.M.E., L.E.E. (Bom.), A M I E.E.E., A.F.P.W. Inst.
Divisional Signal & Tele-Communication Engineer (General), Bombay, P. R. Mullan, A.M I E E., Grad. Inst
Divisional Signal & Tele-Communication Engineers (Technical), M. V. Shankar, B.Sc., M I R.E.; K. Subrahmanyam (*Planning*).
Divisional Tele-Communication Engineer, Bombay Central, D. M. Cruickshank.

ELECTRICAL DEPARTMENT

Chief Electrical Engineer, Bombay, S. C. B. Mazumder, B.Sc. (Elec. & Mech.), Glasgow.
Dy. Chief Electrical Engineer, S. P. Touse, B.E., A.M I.E.E.
Divisinal Electrical Engineers, Bombay, M. D. Rao, B Sc. (Engg.); T. S. Viswanathan.

MECHANICAL DEPARTMENT

Chief Mechanical Engineer, Bombay, J. F. Muncherjee.
Deputy Chief Mechanical Engineer (Loco), Bombay, S. N. Mathur, B Sc (Allahabad), A.M.I.Loco E
Deputy Chief Mechanical Engineer (C. & W.), K. M. Aiana.
Deputy Chief Mechanical Engineer (W), S. R. Woodmore.
Deputy Chief Operating Superintendent (Power), C. H. Sadarangani, D F.H (Lond.)

TRANSPORTATION (TRAFFIC) & COMMERCIAL DEPARTMENT

Chief Operating Supdt., Bombay, D. R. Khanna.
Chief Commercial Supdt., Bombay, D. D. Sethna, B.A.
Dy. Chief Operating Supdt., Bombay, B. N. Wahal.
Dy. Chief Commercial Supdt. (G), Bombay, V. R. Kewalramani, M.A., LL.B. (Bom.), B Sc. (Econ.).
Dy. Chief Commercial Supdt. (Claims), V. J. Daftari.
Dy. Chief Operating Supdt., S. C. Chatterji.

Bombay Division

Divisional Operating Superintendent, K. K. Pooviah, B.A., B Sc. (Hons.) (Madras).
Divisional Commercial Superintendent, G. K. Sathe.

STORES DEPARTMENT

Controller of Stores (Bombay), D. R. Robinson.
Dy. Controller of Stores (Bombay), F. J. Vachha, B.A., B.E., B.Sc. (Lond.), A.M.I.Struc.E., A.M.I. Mech. E.
Dy. Controller of Stores (Planning & Works), Bombay, D. V. Phatarpekar, B.E.

MEDICAL DEPARTMENT

Chief Medical Officer, Bombay, Dr. F. B. Khambatta, M.B.B S. (Bom.), M.R.C.S. (Eng.), L.R.C.P. (Lond.), D.P.H. (Lond.), D.T.M. & H. (Eng.).

RAILWAY PROTECTION FORCE

Chief Security Officer, Bombay, N. V. Babu Reddy, B.A.

RAILWAY SERVICE COMMISSION BOMBAY*

(Churchgate Station Bldg., 1st Floor, Bombay 1).

Chairman, Lala Jagannath.
Member, M. V. Joshi.
Secretary, R. Srinivasan.

* Both Central and Western Railways.

DELHI

ADMINISTRATIVE PERSONNEL

Chief Commissioner, A. D. Pandit.
Chairman, Public Relations Committee, Gopi Nath Aman.
Chairman, Industrial Board, Dr. Yudhir Singh.

Secretariat

Chief Secretary, S. K. Chhibber, I.A.S.
Home Secretary, Prakash Krishan, I.A.S.
Health Secretary, K. G. Mathur.
Development Secretary, Dr. J. C. Ramchandani.
Judicial Secretary, Hans Raj.
Finance Secretary, K. L. Rathi.
Local Self-Govt. and Civil Supplies Secretary, K. G. Mathur.
Deputy Commissioner, C. B. Dube, I.A.S.

Principal Officials

Director of Medical and Public Health, Dr. M. S. Chaddha.
Director of Education, Dr. A. N. Bannerji.
Director of Industries and Labour, Dr. B. R. Seth.
Director of Information, Ramlal Varma.
District and Sessions Judge, Harbans Singh.
Addl. District and Sessions Judges, Rameshwar Dayal, (*Industrial Tribunal*), P. D. Sharma, Ganda Singh Bedi.
Director of Resettlement and Employment, K. B. Sharma.

Delhi Transport Undertaking, Municipal Corporation of Delhi, Scindia House, New Delhi.

General Manager (Transport), B. K. Lall.

DELHI CORPORATION

Elections to the Delhi Corporation took place on March 20, 1958. There were about 9,60,000 voters and the percentage of voters who exercised their franchise was 54. The total number of votes polled was about 12,76,250. About 6,850 votes were declared invalid. Ninety-two candidates forfeited their securities.

The Congress polled 5,05,825 votes, the Jan Sangh 3,34,870, the Independents 2,85,685, the Communist Party 72,170, the P.S.P. 40,208, and the Hindu Mahasabha 30,482.

An estimate of the party position is as follows: Congress 31, Jan Sangh 25, Independents 14, Communists 5, P.S.P. 1, Hindu Mahasabha 1.

The total number of members in the Corporation is 86—Councillors 80, Aldermen 6.

Members

The following are the members of the Corporation. The number in the brackets shows the number of the ward the member represents.

Mayor, Aruna Asaf Ali
Deputy Mayor, R. C. Agarwal.

Members: Kirpa Narain (1), Prahlad Sharan (1), Gian Chand (2), Tilak Raj (2), Moti Ram Aggarwal (3), Parmeshwari Dass (3), Smt. Prakash Vati (4), Roop Narain (4), Janardhan (5), S. D. Malhotra (5), Mirza Ahmed Ali (6), Vidya Rattan (6), Smt. Sarla Devi (7), Sham Nath (7), Ram Charan Aggarwal (8), Shri Krishna (8), Kashmeri Lal (9), Mohd. Sayeed (9), Daroga Mal (10), L. Hari Chand (10), Shiv Charan Gupta (11), Vasu Dev (11), Des Raj (12), Smt. Kartar Devi (12), Des Raj (13), Hans Raj (13), Ram Singh (13), Baldev Singh (14), Mittar Sain (14), Trilok Chand (14), Dev Prakash (15), Kharak Singh (15), Vashishth Kumar (15), Hakumat Rai (16), Tilak Raj (16), Balraj Khanna (17), Vijay Kumar (17), Dhani Ram (18), Prem Sagar Gupta (18), Sher Singh (18), Khub Ram Jajoria (19), Ratton Lal (19), Santokh Singh (19), Roop Lal Batra (20), Smt. Savita Behan (20), Devki Nandan (20), Harish Chandra (21), Rattan Lal (21), Amar Nath Chawla (22), Devi Dass (22), Gobind Ram (22), Abdul Aziz (23), Bansi Lal (23), Dhanpat Rai (23), Bhikuram Jain (24), Om Parkash (24), Makhan Lal (25), Ram Krishan (25), Hari Datt (26), Radha Kishan (26), Dhyan Singh (27), Narain Datt (27), B. N. Aggarwal (28), Kanwar Lal Gupta (28), Bhagwan Datt (29), Sikander Lal (29), Fatch Singh (30), Ganpat Ram (30), Kishan Lal (30), Dara Singh (31), Gobind Sahai (31), Ram Dev (31), Raghbir Singh (32), Tara Chand (32), Chander Singh (33), Kure Mal (33), Prem Singh (33), Harbans (34), Narain Singh (34), Prem Singh (34).

Aldermen: Smt. Aruna Asaf Ali; Kidar Nath, Smt. Leila Smt. Kaushalia Devi; Bachittar Singh Bawa, Bal Krishan.

Officials

Commissioner, P. R. Nayak, I.C.S.
Deputy Commissioners, Ishwar Dayal, R. Bharadwaj.
Health Officer, Col. M. S. Bojarai
Chief Engineer, Water, R. S. Mehta
General Manager, Electricity Undertakings, T. N. Idnani
General Manager, Transport, B. K. Lall.

HIMACHAL PRADESH

Headquarters, Simla 4.

ADMINISTRATIVE PERSONNEL

Lieutenant Governor, Raja Bajrang Bahadur Singh of Bhadri.
Chief Secretary, Financial Commissioner and Secretary, Appointments, Secretariat Administration, General Administration, Revenue and Excise including Registration and Stamps, Planning and Development, Home, Transport and Public Relations and Tourism Departments, K. N. Channa, I.A.S.
Development Commissioner, Additional Secretary (Planning & Development) and Secretary, Industries, Agriculture, Forests, Welfare and Animal Husbandry Departments, A. B. Malik, I.A.S.
Additional Secretary (Home and Transport), A. S. Gupta, I.P.
Finance Secretary to Administration and Secretary, Medical and Public Health Departments, C. D. Sahlani, I.A. & A.S.
Secretary to Administration, Judicial Administration, Law, Evacuee Property, Relief and Rehabilitation and Local Self Government Departments, Legal Remembrancer, Custodian of Evacuee Property and Secretary to the Lieutenant Governor, K. B. Srivastava.
Secretary to Administration, Panchayats, Co-operative, Election, Education and Civil Supplies, P. C. Saxena, I.A.S.
Secretary to Administration, Public Works Department, J. Mukand.
Assistant Secretary to Administration, Social Welfare and Publicity, P. R. Mahajan.
Assistant Secretary to Administration, Local Self Government and Judicial, Lakshman Dass.
Assistant Secretary to Administration, Panchayats, Co-operatives, Election and Education, H. S. Negi.
Assistant Secretary to Administration, G.A.D., S.A.D., and Appointments, M. S. Jandrotia.
Assistant Secretary to Administration, Forests, Development Agriculture and Animal Husbandry, Khidmat Rai Tandon.
Assistant Secretary to Administration, Finance and Medical, R. C. Gupta.
Assistant Secretary to Administration, Reconstruction, Beas Dev.

JUDICIAL ADMINISTRATION

Judicial Commissioner, T. Ramabhadran, I.C.S.

HEADS OF DEPARTMENTS

Development Commissioner, Director of Industries and Controller of Printing & Stationery: A. B. Malik, I.A.S.
Economics and Statistics Department: C. D. Sahlani, I.A. & A.S.
Director of Panchayats, Registrar of Co-operative Societies and Director of Civil Supplies: P. C. Saxena, I.A.S.
Registrar, Judicial Commissioner's Court: H. L. Soni.
Chief Conservator of Forests: D. C. Kath
Inspector General of Police, A. S. Gupta, I.P.
Chief Engineer, Public Works Department, J. Mukand.
Director of Health Services and Inspector-General of Prisons, Lt. Col. Pratap Chandra
Director of Agriculture, Dr. L. S. Negi.
Director of Consolidation of Holdings and Land Records, Basant Rai.
Director of Public Relations & Tourism: Prem Raj Mahajan.
Director of Education, S. L. Sethi.
Deputy Director of Animal Husbandry, G. C. Negi.
General Manager, Himachal Administration Transport, Suraj Singh.

DISTRICT ADMINISTRATION

Deputy Commissioner, Mahasu District, Mahinder Singh.
Deputy Commissioner, Mandi District, Raghubir Singh.
Deputy Commissioner, Bilaspur District, H. R. Mahajan.
Deputy Commissioner, Chamba District, Thakur Sen Negi.
Deputy Commissioner, Sirmur District, C. L. Kapila.

JAMMU AND KASHMIR

ADMINISTRATIVE PERSONNEL

Sadar-i-Riyasat

Sadar-i-Riyasat, Yuvaraj Karan Singh Ji.

MINISTERS

Prime Minister (Holds Finance Portfolio also), Bakshi Ghulam Mohammed.
Health and Education, S. L. Saraf.
Development, C. L. Kotwal
Law and Revenue, Dina Nath Mahajan.
Industries and Commerce, Mir. G. M. Rajpuri.
Agriculture & Community Development, Shams-Ud-Din.

MINISTERS OF STATE

Development, Ghulam Nabi Wani Sogami.
Health & Education, Abdul Gani Trali.
Ladakh Affairs, Kushak Bakula
Forests, Game Preservation, Harbans Singh Azad.
Fisheries, Reception & Tawaza, Social Welfare, Bhagat Chhajoo Ram.
Local Self Government, Amar Nath Sharma.

SECRETARIES

Chief Secretary, Pirzada Ghulam Ahmad.
Legal Adviser, G. K. Nair
Secretary to Sadar-i-Riyasat, Kanwar Mahendra Singh.
Private Secretary to P.M., R. C. Raina.
Law Secretary, M. S. Naqashbandi
Secretary, General Department, Dwarka Nath.
Home Secretary, Ram Lal Nagpal
Education Secretary, A Kazmi.
Finance & Planning Secretary, P N Chaku.
Development Secretary, Hakim Ghulam Safdar.
Revenue Secretary, Ghulam Nabi.
Health Secretary, Ghulam Mohammad.
Secretary, Legislative Assembly, G. N. Naqashbandi.
Secretary, Legislative Council, Mohd. Nizam-Ud-Din.
Secretary, Public Service Commission, B. N. Munshi.
Secretary, Food Supplies & Local Self Government, H. R. Sharma.
Secretary, Industries & Commerce, Mir Ghulam Mohi-Ud-Din.
Secretary, Agriculture & Community Development, A. N. Sapru.
Secretary, Forest, Mir Ghulam Hassan.
Secretary, Ladakh Affairs, S. Teja Singh.
Secretary, Social Welfare, Bhagat Mangat Ram.
Military Secretary, Dewan Iqbal Nath.

HEADS OF DEPARTMENTS

Inspector General of Police, D. W. Mehra.
Accountant General, A A Fazili.
Director of Industries, H. C. Kamili.
Transport Controller, S. K. Raina
Chief Conservator of Forests, R. L. Khajuria.
Registrar of Co-op. Societies and Director, Rural Development, Syed Ahmed Aga.
Director, Tourism, S L Kaul
Chief Engineers, Roads & Bldgs., D N. Gupta
Chief Engineer, Electrical and Mechanical, Kanwar Ranjit Singh.
Director, Health Services, Col. A. N. Chopra.
Development Commissioner, Baldev Singh Sanyal
Director of Education, G. A. Mukhtar.
Director of Agriculture, G. M. Bhat.
Financial & Taxation Commissioner, Syed Nissar Hussain.
Excise and Taxation Commr., Abdul Rashid.
Director of Local Bodies, P. N. Kaul.
Director of Fisheries, G. M. Malik.

Other Officials

Principal Information Officer. G. D. Sharma.
General Manager, Kashmir Arts Emporia, Kh. A. Ullah.

PUBLIC SERVICE COMMISSION

Chairman, Major General Yadu Nath Singh.
Members, A. H Durani, Mian Ghulam Mohd., Brig. Udey Chand.

LEGISLATURE

Speaker, Legislative Assembly, Assad Ullah Mir.
Chairman, Legislative Council, S. N. Fotedar.

TRADE AGENCIES

New Delhi : Sardar Amar Singh.
Bombay : S. S. Nishat.
Pathankot : D. N. Kachroo.
Amritsar : L. Mani Ram.

HIGH COURT

Chief Justice, Justice Janki Nath Wazir.
Judges, Justice Jia Lal Kilam, Justice Saiyid Murtaza Fazal Ali
Registrar, Azim-Ud-Din Mattu.

KERALA

ADMINISTRATIVE PERSONNEL

Governor, Dr. B. Ramakrishna Rao.

Governor's Staff.

Secretary, V. V. Joseph, I A.S.

MINISTERS

Chief Minister, General Administration, Integration, Planning and all subjects not expressly mentioned, E. M. S. Namboodiripad.
Minister for Finance, Insurance, Commercial Taxes, Agricultural Income Tax, Agriculture, Animal Husbandry, C. Achutha Menon.
Minister for Food and Civil Supplies, Forests, K. C. George.
Minister for Industries, Mining and Geology, Cement, Iron and Steel, Community Development, Commerce, K. P. Gopalan.
Minister for Transport, Labour, Municipalities, Sports, and Sport Associations, T. V. Thomas.
Minister for Local Self-Government, Advancement of Backward Communities, Panchayats and District Boards, Housing, Resettlement, Colonisation, P. K. Chathan.
Minister for Land Revenue, Excise and Prohibition, Registration, Devaswoms and Charitable Endowments, Smt. K. R. Gauri.
Minister for Public Works, Buildings, Communications, Ports, Railways, Information and Publicity, T. A. Masjeed.
Minister for Education, Co-operation, Fisheries, Stationery and Printing, Museums and Zoo, Archaeology, Joseph Mundassery.
Minister for Health Services, Ayurveda, Dr. A. R. Menon.
Minister for Law, Legislation, Elections, Administration of Civil and Criminal Justice, Jails, Irrigation, Electricity, Law and Order, V. R. Krishna Iyer.

Secretariat

Chief Secretary, N.E.S. Raghavachari, I.C.S.
Development Commissioner, N.E.S. Raghavachari, I.C.S.
Revenue Secretary, M. K. Devassey, I.A.S.
Finance Secretary, P. S Padmanabhan, I A S.
Law Secretary P. D. Thommen.
Food Secretary C Thomas, I A S
P.W.D Secretary, G Madhavan I A S.
Industries Secretary, M Abdussalam, I A S
Planning Secretary and Additional Development Commissioner, P. M Mathew, I.A.S.
Education Secretary, P K Nambiar, I.A.S.
Labour and Local Self-Govt. Secretary, P. I. Jacob, I.A.S.
Secretary, Anti-Corruption Department, C K. Kerala Varma, I A S.
Joint Secretary, Public Department, C P. Gopalan Nair.
Secretary, Health Department, T. Krishnan Nair, I A S
Additional Secretary and Secretary to the Committee for administrative reforms, K. S. Menon, I A.S

REVENUE BOARD

First Member, K. P. K Menon, I A S
Second Member, S Govinda Menon, I A.S.
Third Member, George Thomas, I.A.S.
Director, Local Bodies, Thomas Manjooran.

PRINCIPAL OFFICIALS

Accountant-General (Central), Y. K. Krishnan (Comptroller).
Chief Conservator of Forests, N. Narayana Menon.
Chief Engineer (General and Irrigation), T. P. Kuttiamma.
Chief Engineer (Buildings and Roads), V. V. Gopalakrishna Iyer.
Chairman, Electricity Board, K. P. Sreedharan Nair.
Chief Inspector of Factories, P. Sitarama Kukillaya.
Commissioner of Labour, A. Kunjukrishna Pillai, I.A.S.
Director of Agriculture, P. D. Nair.
Director of Animal Husbandry and Vet. Services, V. K. Madhava Menon.
Director of Education, Rama Varma.
Supdt. of Govt. Presses, K. Swaminathan.
Director of Industries and Commerce, Dr. P. V. Nair
Director of Govt. Owned Industries, K. P. Viswanathan Nair
Director of Industries (Coir), P. K. Nair.
Jt Dir. of Industries (Small scale), N. K. Rajkumar
Jt. Director of Industries (Handlooms), P. Damodara Menon.
Director of Health Services, Dr. K. Madhavan Nair.
Director of Public Relations, V. R Narayanan Nair.
Director of Statistics, U. Sivaraman Nair.
Director of Transport, T. C. S. Pillai.
Inspector-General of Police (General), N. Krishna Menon, I P
Inspector-General of Police (Special), N. Sreenivasa Iyer, I P S
Inspector-General of Prisons, A. V. John.
Registrar of Co-operative Societies, P. Sivarama Pillai.
Mg. Dir., Finance Corporation, M. G. Achuthan Nair.
Director of Collegiate Education, Dr. C. S. Venketeswaran.
Director of Primary Education, M. K. Raman.
Director of Examinations and Text Books, Paul Varghese.
Director of Technical Education, K. C. Chacko.

HIGH COURT

Chief Justice, K. T. Koshy.
Judges : K. Sankaran ; M. S. Menon ; G. Kumara Pillay ; N. Varadraja Iyyengar ; T. K. Joseph ; P. T. Raman Nair ; C. A. Vaidyalinga Aiyar.
Registrar, M. Balakrishna Menon.
Advocate General, K.V. Suryanarayana Aiyar.

PUBLIC SERVICE COMMISSION

Thulasi Hill, Pattom, Trivandrum 4.
Chairman, V. K. Velayudhan.
Members, N. P. Verghis, T. C. Sankara Menon.
Secretary, Jacob Varugis.

MADHYA PRADESH

ADMINISTRATIVE PERSONNEL

GOVERNOR

Hari Vinayak Pataskar.

PERSONAL STAFF

Military Secretary, Major Harnath Singh.
Secretary, J. S. Dave.
Aide-de-Camp, T. B. Aga.

MINISTERS

Chief Minister, G. A. D., Home, Publicity, Complaints, Planning & Dev., Co-ordination, Dr. Kailash Nath Katju.
Minister, Revenue, Survey & Settlement, Land Records, Land Reforms, Local Self Government, Bhagwantrao Mandloi.
Minister, Commerce & Industry, including Road Transport & State Industries, Agriculture, Takhtmal Jain.
Minister, Forest, Natural Resources, Shambhu Nath Shukla.
Minister, Education, Law, Physical Education, Tourist Traffic, Dr. Shankar Dayal Sharma.
Minister, Finance, Separate Revenue, Economics & Statistics, Registration, Mishrilal Gangwal.
Minister, P.W.D., Roads & Buildings & Irrigation, excluding Chambal Project, Electricity, Shankarlal Tiwari.
Minister, Labour, Rehabilitation, Housing, Chambal Project, V. V. Dravid.
Minister, Tribal Welfare, Raja Naresh Chandra Singh*.
Minister, Jail, Food, Civil Supplies, A. Q. Siddiqui.
Minister, Social Welfare excluding Physical Education, Co-operation, Ganesh Ram Anant.
Minister, Public Health, Rani Padmawati Devi.

DEPUTY MINISTERS

Deputy Minister, Publicity, Planning & Development, Maulana Inayatullah Khan Tarzi Mashriqi.
Deputy Minister, Agriculture, Co-operation, Shyam Sunder Narain Mushran.
Deputy Minister, Tribal Welfare, Labour, Rehabilitation, Social Welfare, excluding Physical Education, Shivbhanu Solanki.
Deputy Minister, Forest, Natural Resources, Jail, Food, Civil Supplies, Sajjan Singh Vishnar.
Deputy Minister, Finance, Separate Revenue, Economics, and Statistics, Registration, Public Health, Mathura Prasad Dube.
Deputy Minister, Home, Narsinghrao Dixit.
Deputy Minister, Commerce & Industry (Including Road Transport and State Industries), Keshoba Gomashta.
Deputy Minister, Revenue, Survey & Settlement, Land Records, Land Reforms, L.S.G., Jagmohan Das.
Deputy Minister, P.W.D. (Roads & Buildings, Irrigation excluding Chambal Project), Electricity, Dashrath Jain.

*Has resigned.

SECRETARIAT

Chief Secretary, H.S. Kamath, I.C.S.
Home Secretary, Mahabir Prasad Shrivastava, I.A.S.
Finance Secretary, B. L. Pandey, I.A.S.
Revenue Secretary, N. D. Gupta, I.A.S.
Local Government Secretary, Rai Poddar, I.A.S.
Agriculture Secretary, R. C. Morab., I.A.S.
Commerce and Industry Secretary, P. D. Chatterjee, I.A.S.
Education Secretary, L. O. Joshi, I.A.S.
Public Works Secretary, N. P. Dixit, I.A.S.
Planning and Development Secretary, P. S. Bapna, I.A.S.
Law Secretary, K. L. Pande.
Secy., Integration, S. P. Mushran, I.A.S.
Food Secretary, M. P. Dube, I.A.S.

BOARD OF REVENUE

President, Brijrajnarain, I.A.S.
Member, K. L. Pancholi, I.A.S.
Member, R. S. Shukla I.A.S.

COMMISSIONERS OF DIVISIONS

Indore, Y. Bhargava, I.A.S.
Bilaspur, M. P. Dwivedi I.A.S.
Jabalpur, R. C. V. P. Noronha, I.C.S.
Rewa, J. K. Chowdhary, I.A.S.
Gwalior, S. P. Mehta, I.A.S.
Bhopal, M. G. Karnikar. I.A.S.
Raipur, C. L. Gupta, I.A.S.

HEADS OF DEPARTMENTS

The location of the Offices is given in brackets.
Inspector-General of Police (Bhopal), B. G. Ghate, I.P.
Director of Health Services (Indore), Dr. G. L. Sharma.
Inspector-General of Prisons (Bhopal), Darshan Singh.
Chief Engineer (Irrigation), P.W.D. (Raipur), M. L. Sood, I.S.E.
Chief Engineer (Buildings and Roads), P.W.D. *(Gwalior)*, H. R. Gupta.
Chief Conservator of Forests (Rewa), R. N. Datta, I.F.S.
Director of Public Instruction (Bhopal), E. W. Franklin.
Director of Geology and Mining (Raipur), S. K. Barooah.
Director of Information & Publicity (Bhopal), I. S. Parihar
Superintendent, Government Printing and Stationery (Bhopal), G. N. Parthasarathy.
Government Architect (Gwalior), D. G. Karajgaonkar.
Director of Economics and Statistics (Bhopal), Dr. M. M. Mehta.
Director of Social Welfare (Indore), G. L. Shukla.
Public Health Engineer (Bhopal), Purtejsingh.
Director of Civil Supplies (Indore), R. N. Bisaria
Director of Food (Bhopal), M. P. Dube, I.A.S.
Examiner of Local Fund Accounts (for the former Madhya Bharat area) (Gwalior), Sitlasahai
Inspector-General of Municipalities (for the former Madhya Bharat Area) (Gwalior), H. N. Sawant
Director of Indian Languages (Bhopal), W. N. Pandit.
Excise Commissioner (Gwalior), M. Q. Khan, I.A.S.
Settlement Commissioner (Gwalior), J. K. Varma I.A.S.
Director of Industries (Indore), P. K. Dave, I.A.S.
Labour Commissioner (Indore), W. V. Oak, I.A.S.
Director of Agriculture (Rewa), Dr. Kulandaiv
Director of Tribal Welfare (Raipur), I. N. Patel, I.A.S.
Sales-Tax Commissioner (Indore), K. C. Tiwari I.A.S.
Registrar, Co-operative Societies (Indore), G. Jagatpati, I.A.S.
Chief Electoral Officer (Bhopal), Y. Bhargava
Director of National Employment Service (Madhya Pradesh), A. B. Vaidya.

HIGH COURT

Judges at Jabalpur: M. Hidayatullah, Chief Justice; V. R. Sen; G. P. Bhutt, I. P. Naik, B. K. Chaturvedi; B. K. Choudhari, P. K. Tare.
Judges at Indore and Gwalior: P. V. Dixit, Abdul Hakim Khan; S. R. Nevaskar, T. C. Shrivatsava; H. R. Krishnan

PUBLIC SERVICE COMMISSION

(Indore)

Chairman, Dr. H. C. Seth.
Members, S. S. Pande; E. M. Joshi; Dhondeo
Secretary, D. N. H. Rao.

MADRAS

ADMINISTRATIVE PERSONNEL

GOVERNOR

Bishnuram Medhi.

PERSONAL STAFF

Comptroller, Governor's Household, A. Ranganathan.
Asstt. Comptroller, C. Viswanathan Nair.
Private Secretary, K. V. Subramanian.
Honorary Surgeon, Dr. G. Chandrasekharan.
Aides-de-Camp, Sq. Ldr. C. Joseph; K. Bhaskara.
Hon. Naval Aide-de-Camp, Commander J. S. Randise, I.N.

MINISTERS

Chief Minister, in charge of Public, Planning and Community Development (including Local Development Works, Women's Welfare, Community Projects and Rural Welfare), K. Kamaraj Nadar.
Minister in charge of Home including Police, Courts and Prisons and Prohibition, Food and Agriculture (including Khadi and Village Industries and Hindu Religious Endowments), Railways, Post and Telegraphs and Civil Aviation, M. Bhaktavatsalam.
Minister in charge of Finance, Education, Information and Law (including Legislature and Engineering Colleges), C. Subramaniam.
Minister in charge of Revenue, Public Health and Medical, M. A. Manickavelu.
Minister in charge of Industries, Labour and Co-operation (including Housing, Commercial Taxes and Nationalised Transport), R. Venkataraman.
Minister in charge of Public Works (excluding Electricity) and Harijan Welfare, P. Kakkan.
Minister in charge of Electricity, Transport (including Registration, Accommodation Control, Stationery and Printing and Government Press), V. Ramaiah.
Minister in charge of Local Administration and Fisheries, Srimathi Lourdhammal Simon.

SECRETARIAT

Chief Secretary, W. R. S. Sathianadhan, I.C.S.
Secretary (Revenue), J. Sivanandam, I.A.S.
Secretary (Home), R. U. Damodaran, I.A.S.
Secretary (Finance), T. A. Varghese, I.C.S.
Secretary (Industries), S. K. Kaiwar, I.C.S.
Secretary (Health, Education and Local Administration), R. A. Gopalaswami, I.C.S.
Secretary (Public Works), S. K. Chettur, I.C.S.
Secretary (Law), A. Alagiriswami.
Secretary (Agriculture), P. P. I. Valdyanathan, I.C.S.
Secretary, Legislature, T. Hanumanthappa M.A., B.L.

BOARD OF REVENUE

First Member and Commissioner of Land Revenue and Food Production, T. N. S. Raghavan I.C.S.
Second Member and Commissioner of Land Revenue, Civil Supplies and Settlement of Estates, S. Venkatewaran, I.C.S.
Third Member and Commissioner of Land Revenue and Commercial Taxes, Custodian of Evacuee Property, R. M. Sundaram, I.C.S.
Secretary, Board of Revenue, P. Sivasankara Pillai, I.A.S.
Additional Secretary, Board of Revenue, R. Subramania Ayyar, I.A.S.

PRINCIPAL OFFICIALS

Regional Director (Food), Dr. P. L. Anand.
Director of Agriculture, A. Venkatesan, I.A.S.
Director of Animal Husbandry, D. Pattabhiraman.
Registrar of Co-operative Societies, A. Palaniappa Mudaliar, I.A.S.

Director of Public Instruction, N. D. Sundaravadivelu.
Director of Information and Publicity, K. Diraviam.
Chief Engineer, Electricity, V. P. Appadurai.
Chief Conservator of Forests, V. S. Krishnaswami, I.F.S.
Director of Harijan Welfare, C. Ramachandran, I.A.S.
Chief Engineer (Highways), K. V. Ekambaram
Commissioner of Hindu Religious and Charitable Endowments, A. Uthandaraman, I.A.S.
Director of Industries and Commerce, T. K. Palaniappan, I.A.S.
Inspector-General of Prisons, M. A. Sheriff, I.A.S.
Commissioner of Labour, V. Balasundaram, I.A.S.
Chief Inspector of Factories, P. V. Viswanathan.
Director of Medical Services, V. R. Thayumanaswami, I.M.S.
Dean, Government General Hospital and Madras Medical College, R. G. Krishnan.
Dean, Stanley Hospital and Stanley College, S. Balasubramaniam.
Director of King Institute, Guindy, Dr. S. Govindarajan.
Hon. Director of Government Transport, J. S. Devasahayam.
Inspector-General of Police, S. Balakrishna Shetty, I.P.S.
Commissioner of Police, Madras City, Frederick V. Arul.
Director of Public Health, N. Parthasarathy.
Chief Engineer, P.W.D. (General and Buildings), J. M. Frederick, I.S.E.
Chief Engineer, P.W.D. (Irrigation), U. Ananda Rao, I.S.E.
Inspector-General of Registration and Registrar General of Births, Deaths and Marriages, K. Gopal.
Chairman, Sales-Tax Appellate Tribunal, P. Ramakrishna Ayyar, I.C.S.
Controller of Stationery and Printing, S. Krishnaswami, I.A.S.
Director of Statistics, D. S. Rajabushanam.

OFFICE OF THE DIRECTOR, NATIONAL EMPLOYMENT ORGANISATION
8, Haddows Road, Nungambakkam, Cathedral, Madras 6.

Director, V. Balasundram, I.A.S.

HIGH COURT

Chief Justice, Rajamannar, Mr. Justice P. V., B.A., B.L., D.Litt.
Judge, Rajagopalan, Mr. Justice P., I.C.S.
Judge, Somasundaram, Mr. Justice N., B.A., B.L.
Judge, Ayyar, Mr. Justice, A. S. P., M.A., I.C.S., Bar-at-Law.
Judge, Balakrishna Ayyar, Mr. Justice A. V., M.A., I.C.S.
Judge, Basheer Ahmed Sayeed, Mr. Justice, M.A., B.L.
Judge, Ramaswami, Mr. Justice P. N., M.A., I.C.S.
Judge, Rajagopala Ayyangar, Mr. Justice, N., M.A., M.L.
Judge, Ramachandra Iyer, Mr. Justice, S., B.A., B.L.
Additional Judge, Subrahmanyam, Mr. Justice V., B.A., B.L.
Additional Judge, Ganapatia Pillai, Mr. Justice S., B.A., B.L.
Registrar, S. K. Gajendram Naidu, B.A., B.L.
Advocate-General, Madras, V. K. Tiruvenkatachari.
Government Pleader, B. V. Visvanatha Iyer, B.A., B.L.
Additional Govt. Pleader, K. Veeraswamy, B.A., B.L.
Editor, Indian Law Reports, K. Chandrasekharan, M.A., B.L.
Public Prosecutor, P. S. Kailasam, B.Sc., B.L.
Sheriff of Madras, M. A. M. Muthiah Chettiar, B.A.
Under Sheriff, T. K. Singaram, M.A., B.Com.

CITY CIVIL COURT

Principal Judge, Balachandra Menon, I.C.S.
Additional Judge, V. Rathna Mudaliar, B.A., B.L.
I Assistant Judge, M. Balakrishna Menon, M.A., B.L.
II Assistant Judge, M. Abdul Anees, B.A., B.L.
III Assistant Judge, P. Lakshmanan, B.A., M.L.
IV Assistant Judge, M. Shama Das, B.A., B.L.
V Assistant Judge, M. P. Singaravadivelu, B.A., B.L.
VI Assistant Judge, Robert Chellaiya, B.A., B.L.
Assistant Judge-cum-Registrar, P. Venugopal, B.A., B.L.

SMALL CAUSES COURT

Chief Judge, G. K. Damodara Row, B.A., B.L.
Second Judge, S. M. Kamaluddin, B.A., B.L.
Third Judge, C. P. Venugopal, B.A., B.L.
Addl Judge, R. L. Srinivasa Mudaliar, B.A., B.L.
Registrar, A. Chidambaram, B.A., B.L.

PRESIDENCY MAGISTRATES' COURTS
Madras.

Chief Presidency Magistrate, S. A. Alyaswamy Chetty, M.A., B.L.
Second Presidency Magistrate, T. N. Govindarajulu Naidu, B.A., B.L.
Third Presidency Magistrate, C. M. Lokesan, B.A., B.L.
Fourth Presidency Magistrate, S. Varadarajan, B.A., B.L.
Fifth Presidency Magistrate, T. R. Narayanan, M.A., M.L.
Sixth Presidency Magistrate, D. Soundara Pandian, B.A., B.L.
Seventh Presidency Magistrate, S. Natarajan, M.A., B.L.
Eighth Presidency Magistrate, A. V. Avudainayagam, B.A., B.L.

PUBLIC SERVICE COMMISSION

Chairman, V. Rathna Mudaliar.
Members, A. F. Mascarenhas, I.A.S. (Retd.); V. R. Nagarajan.
Secretary, T. D. Alyasawmy.; *Dy. Secy.*, M. Subramania Ayyar, *Asst. Secys.*, V. M. Ambrose, C. M. Kuppuswamy.

RAILWAY SERVICE COMMISSION

58, Gopathy Narayanaswamy Chetty Road, Thyagarayanagar, Madras 17
Chairman, K. N. Ranga Rao.
Members, M. B. Kandasamy; K. P. Gopala Menon.
Secretary, O. C. S. Wragg.

ACCOUNTANT-GENERAL
Madras.

Accountant-General, A. Kalyanaraman.

ALL-INDIA HANDLOOM BOARD
Southern Region
98, Mowbrays Road, Madras 18.

Dy. Textile Commissioner (Handlooms), P. Sabanayagam, I.A.S.

ALL-INDIA RADIO
Madras 4.

Station Director, Dr. V. K. Narayana Menon.
Station Engineer, S. S. Kholi.
Chief Producer for Karnataka Music, Semmangudi R. Srinivasa Iyer.
Assistant Station Director (Programmes), T. Sankaran.
Assistant Station Director (Administrator), T. R. Muralidharan.
Assistant Station Engineer, P. B. Chetty.
Listener Research Officer, C. T. Philip.
Assistant News Editor, B. Dharmarajan.
Assistant Editor 'Vanoli', P. Sundararajan.
Assistant Editor 'Vani', A. Janakiram.

COLLECTOR OF CENTRAL EXCISE
Madras.

Collector of Central Excise, Madras, S. P. Kampani, M.Sc. (Tech.) I.R.S.
Deputy Collector of Central Excise, Madras, K. K. Tampy, M.A., I.R.S.
Headquarters Assistant to the Collector of Central Excise, Madras, V. Parthasarathy, M.A., B.L., I.R.S.
Assistant Collector (Technical) of Central Excise, Madras, C. L. Beri, B.A., LL.B., I.R.S.

COMMISSIONER OF INCOME-TAX
Madras.

Commissioner of Income-tax, Madras, Jamuna Prasad Singh, B.A., I.R.S.
Inspecting Assistant Commissioner of Income-tax, Range I, Madras, P. S. Viswanathan, M.A., A.C.A., I.R.S.
Inspecting Assistant Commissioner, Range II, Madras. K. S. V. Raman, A.C.A., I.R.S.
Inspecting Assistant Commissioner, Estate Duty Range, Madras, V. Ramaswami Iyer, B.A., I.R.S.
Inspecting Assistant Commissioner, Madurai Range, Madurai, K. Rama Rao, M.Sc., I.R.S.
Appellate Asst. Commissioner, 'A' Range, Madras, V. D. Sonde, B.A. (Hons.), LL.B., I.R.S.
Appellate Assistant Commissioner, 'B' Range, Madras, V. S. Shetti, B.Com. (IMC), A.C.A., I.R.S.
Appellate Assistant Commissioner, 'C' Range, Madras, V. V. Badami, M.Sc., I.R.S.
Appellate Assistant Commissioner, Madurai Range, Madurai, (Additional Charge) and Tiruchirapalli Range, George E. Joseph, M.A. (Econ.), I.R.S.
Appellate Assistant Commissioner, Salem Range, Salem, P. Sadagopan, B.A. (Hons.), I.R.S.

CUSTOMS COLLECTORATE
Custom House, Madras 1.

Collector of Customs, A. C. Whitcher.
Asst. Collectors of Customs, D. N. Mehta, J. Datta, M. G. Vaidya, S. Narayanan, T. P. S. Iyer

VISAKHAPATNAM CUSTOM HOUSE

Collector of Customs, A. J. B. Lobo.

MADRAS PORT TRUST
Madras.

Chairman, G. Venkateswara Ayyar, I.C.S.
Chief Engineer, K. N. Srinivasan, B.E., A.M.I.E.
Superintending Engineer (Construction), B. K. Kuppuswamy.
Executive Engineer, V. S. Ananthanarayanan
Mechanical Engineer, P. C. Martin.
Electrical Engineer, V. R. Srinivasan
Deputy Port Conservator, W. L. Vangeyzel.
Harbour Master, V. V. Seshadri
Traffic Manager, V. A. Jaywant, B.A.
Financial Adviser and Chief Accounts Officer, K. Ranganswamy, M.A.
Medical Officer, Dr. T. S. Subramanian, M.B.B.S., F.R.F.P.S., D.T.M., D.T.H.
Secretary, T. K. Parameswaran Nambiar, B.A.
Labour Welfare Officer, P. R. Narasimhan, B.A. (Hons.).

REGIONAL METEOROLOGICAL CENTRE
4, College Road, Madras 31.

Regional Director, C. Ramaswamy, M.A., F.A.Sc., F.R.Met.S.
Meteorologist, Forecasting Office, Meenambakkam Aerodrome, Madras-27, D. V. Rao, M.Sc.

REGIONAL TOURIST OFFICE
35, Mount Road, Madras 2.

Regional Tourist Officer, Madras, D. J. D. Sehgal.
Asst. Regional Tourist Officer, Madras, Miss K. C. Annapurna.
Tourist Reception and Information Officer, Bangalore, Mrs. Vibha Pandhi.
Tourist Reception and Information Officer, Cochin, K. T. Naidu.
Tourist Information Officer, Ootacamund, M. Ramaswamy.

TELEPHONES MADRAS DISTRICT
Madras.

District Manager, Telephones, Madras District, Rama Kant, B.Sc. (Engg.), A.M.I.T.E.
Divisional Engineer, Telephones, E. V. Philip.
Administrative Officer, K. S. Doraiswami, B.A.
Accounts Officer, Telephone Revenue Accounting Office, Andhra-Hyderabad Circles, Louis Gonsalvez, M.A.
Accounts Officer, Telephone Revenue Accounting Office, Madras Circle, K. S. Aiyakutty, M.A.
Contract Officer, V. Ramaswamy.
Assistant Engineer, Phones, Central Exchange, P. N. Subbarao.
Assistant Engineer, Phones, Mambalam Exchange, A. K. Viswanath Gowd.

Assistant Engineer, Cables, S. D. Narayanaswamy.
Assistant Engineer, Planning, K. R. Rajagopalan, B.A.
Assistant Engineer, Phones, Mount Road Exchange, T. K. Viswanathan.
Assistant Engineer, Phones, Mylapore Exchange, P. G. Kurup.
Assistant Engineer, Traffic, K. Pattabiraman.

POSTMASTER-GENERAL
Madras Circle, Madras 2.

Postmaster-General, Madras Circle, S. S. Anantakrishnan, M.A.
Directors of Postal Services, M. A. Khan, Lt. Comdr. I. J. Burman, B.Sc.
Director of Telegraphs East, M. B. Sarangapani, B.E.
Director of Telegraphs West, P. A. Sankaranarayana, B.A., A.M.I.E.E.

CONTROLLER OF AERODROMES
Madras Region,
Madras 27.

Controller of Aerodromes, G. S. Subramaniam.
Controller of Communication, A. J. Srivastava.
Aerodrome Officer, N. C. Khanna.
Officer-in-Charge, Aero-Communication Station, M. K. Rai Chand.
Senior Aircraft Inspector-in-charge, S. N. Naigamwalla.

SOUTHERN RAILWAY
(General Manager's Office, Madras.)

ADMINISTRATIVE PERSONNEL

General Manager, Madras, A. C. Mukerjee.
Senior Dy. General Manager (Traffic) Madras, S. N. Barua.
Dy. General Manager (Personnel), Madras, R. Gopalakrishnan.
Dy. General Manager (General), Madras, P. Krishna Raju.
Chief Security Officer, Madras, M. Singaravelu.
Chief Engineer, Madras, D. R. Kohli.
Chief Signal and Tele-Communications Engineer, Madras, W. C. Liebehnals.
Chief Operating Superintendent, Madras, P. H. Sarma.
Chief Commercial Superintendent, Madras, S. K. Mukerji.
Chief Mechanical Engineer, Perambur, S. Chakravarti.
Chief Electrical Engineer, Madras, G. K. Ambady
Controller of Stores, Perambur, P. N. Talati.
Financial Adviser and Chief Accounts Officer, Madras, M. V. Seshadri.
Chief Medical Officer, Madras, Dr. P. A. Menon

MANIPUR

ADMINISTRATIVE PERSONNEL

Chief Commissioner, Jagat Mohan Nath Raina.
Chief Secretary, A. K. Ray, I.A. & A.S.
Judicial Commissioner, J. N. Dutta.
Deputy Commissioner & Development Commissioner, C. H. Naire, I.F.A.S.
Secretary, Development, T. Kipgen.
Secretary, Law, S. C. Bardhan.
Secretary (WF), S. Gourhari Singh.
Secretary (Finance), N. N. Pal.
Additional Deputy Commissioner, S. M. Drishnatry, I.F.A.S.
Addl. District Magistrate, Wazirchand Sikka.
Dist. and Sessions Judge, S. N. Banerjee.
Inspector-General of Police, N. Chowdhury, I.P. (Retd.).
Asstt. Secretary (Education), M. Gojendra Singh.
Asstt. Secretary (Medical), K. Gourkeshore Singh.
Asstt. Secretary (Gil.), Y. Gourmani Singh.
Asstt. Secretary (Co-ordination), B. I. Sharma.
Asstt. Secy. (Stationery & Printing), N. Nilkomal Singh.
Publicity Officer, S. Gopendra Sharma.
Chief Medical Officer, Dr. N. C. Bhowal.
Addl. Supts. of Police, L. Gopal Singh, Rana Harnam Singh.
Commandant, Manipur Rifles, L. H. Hartnett.
Registrar, Co-operative Societies, P. C. Bordoloi.
Director of Agriculture, M. Kanti Raj.
Director of Industries, U. M. Singh (*Offg.*).
Principal, D. M. College, S. N. Kaul.
Chief Forest Officer, R. K. Bijoychandra Singh (*Offg.*).
Taxation Officer, R. K. Sanahal Singh.
Principal Engineering Officer, N. R. Ramchandani.
State Trading Officer, Th. Kalachand Singh
Subordinate Judge, M. Radhamohan Singh
Surgeon, Imphal Hospital, Capt. M. D. Vashi
Officer on Special Duty, M.S.T., Manipur, R. L. Sethi.

TERRITORIAL COUNCIL

Chairman, Dwijamani Dev Sharma
Chief Executive Officer, P. R. Chandra.

MYSORE

GOVERNOR

His Highness Sri Jaya Chamaraja Wadiyar, G.C.B., G.C.S.I.

MINISTERS

Chief Minister, Home, Commerce and Industry excluding Cottage and Rural Industries, Planning and Development Departments, B. D. Jatti.
Finance, T. Mariappa.
Revenue, including all matters pertaining to land and Stamps and registration, Kadidal Manjappa.
Law, Labour, Local Self-Government, including Village Panchayats, Housing and Rural Water Supply, T. Subramanya.
Education, Anna Rao Ganamukhi.
Public Works and Electricity, H. M. Channabasappa.
Social Welfare, Excise, Prohibition, Amelioration of Scheduled Castes, Scheduled Tribes and Backward Classes, N. Rachiah.
Medicine and Public Health, including Indigenous Medicine and Public Health Sanitation, Dr. K. K. Hegde.
Agriculture, Food and Forests, K. F. Patil.
Co-operation, Marketing, Warehousing, Weights and Measures and Cottage and Rural Industries, Mali Mariappa.

Deputy Ministers

Smt. Leelavati Magadi, *Rural Industries*.
J. H. Shamseddin, *Finance*.
M. N. Nagaraor, *Public Works & Electricity*.
Mrs. Grace Tucker, *Education*.
H. C. Linga Reddy, *Planning & Development*.
B. Basavalingappa, *Home*.

SECRETARIAT

Bangalore.

Chief Secretary and Ex-officio Development Commissioner, P. V. R. Rao, I.C.S.
Secretary to Government, Finance Department, G. Mathais, I.A. and A.S.
Additional Development Commissioner and Ex-officio Secretary, Planning and Development Department, G. V. K. Rao, I.A.S.
Secretary to Government, Home Department, R. J. Rego, I.A.S.
Secretary to Government, Local Self-Government and Public Health Department, M. Vasudeva Rao, I.A.S.
Secretary to Government, Commerce and Industries Department, K. Narayanaswamy, I.A.S.
Secretary to Government, Revenue Department, K. Balasubramanyam, I.A.S.
Secretary to Government, Public Works and Electricity Department, D. K. Srinivasachar, I.A.S.
Secretary to Government, Education Department, Mohamed Ahmed, I.A.S.
Secretary to Government, Law Department, R. P. Vasudeo, B.A., B.L.
Additional Secretary to Government, Law Department, T. K. Tukol.
Secretary to Government, Agriculture and Forest Department, M. S. Swaminathan, I.A.S.
Secretary, Mysore Legislature, G. S. Venkataramana Iyer, B.Sc., M.L.
Secretary to the Governor, H. N. Pallegar, I.A.S.
Secretary, Mysore Govt. Insurance Dept., A. Ramachandra Naidu, B.Sc.
Secretary, Stores Purchase Committee, R. Sampath Kumaran.
Deputy Secretary to Government, Public Works and Electricity Department, V. Byrappa, I.A.S.
Deputy Secretaries to Government, Finance Department, M. Venaraj Urs, I.A.S., N. S. Bharath.
Deputy Secretary to Government, Development and Planning Department, G. H. Adhirajiah.
Deputy Secretary to Government, General Administration Department, T. R. Satish Chandran, I.A.S.
Deputy Secretary to Government, Revenue Department, D. S. Raghavendra Char, I.A.S.
Deputy Secretary to Government, Agriculture and Forest Department, M. N. Gundu Rao, B.A., LL.B.
Deputy Secretary to Government, Local Self-Government Department, P. Honnappa, B.A.
Deputy Secretary to Government, Commerce and Industries Department, K. M. Ramakrishnaiya, B.A.
Deputy Secretary to Government, Education Department, B. S. Hanuman, M.A.

DIVISIONAL COMMISSIONERS

Divisional Commissioner, Belgaum Division, S. A. L. Razvi, I.A.S.
Divisional Commissioner, Mysore Division, Safi Darashah, I.A.S.
Divisional Commissioner, Gulbarga Division, G. N. Nagaraja Rao, I.A.S.
Divisional Commissioner, Bangalore Division, R. J. Rebello, I.A.S.

HEADS OF DEPARTMENTS

Commissioner of Excise and Commercial Taxes, N. Puttarangaswamy, I.A.S.
Chairman, Mysore Housing Board, and Commissioner for Religious and Charitable Endowments, M. W. Desai, I.A.S.
Commissioner for Settlement and Land Records, K. Shashagiri Rao, I.A.S.
Director and Vice-Chairman, Mysore Iron and Steel Works and Ex-officio Iron and Steel Controller, T. Shamanna, I.A.S.
Vice-Chairman, Board of Management of the Kolar Gold Mining Undertakings, S. Munisanjappa, I.A.S.
Registrar of Co-operative Societies, P. Venkatashiva Reddy, I.A.S.
Additional Chief Marketing Officer, M. Thammaiah.
Director of Printing, Stationery and Publications, D. S. Gurubasavappa, B.Sc.
Inspector-General of Police, P. K. Monnappa, I.P.
Director of Medical Services, B. Venkatasubba Rao, B.A., M.B.B.S., M.R.C.P. (Lond.).
Director of Public Health, Dr. S. Seshagiri Rao, B.Sc., M.B.B.S., D.P.H., M.P.H.
Chief Engineer (General), G. S. Ganapathi.
Chief Engineer, Major Irrigation (South), C. R. Krishnaswamy Mudaliar, B.E.

Chief Engineer, Major Irrigation (North), T. S. Murthy, B.E. (Mech.), B.Sc. (Belfast).
Commissioner for Labour, Chief Inspector of Factories, Registrar of Trade Unions and Ex-officio Director, National Employment Service in Mysore, B. M. Abu Baker, I.A.S.
Director of Public Instruction, R. Srinivasan, I.A.S.
Joint Director of Technical Education, K. Channabasavappa, B.E., etc.
Director of Agriculture and Commissioner for Food Production, M. Mallaraj Urs, B.Sc., B.Sc. (Edin.).
Superintendent, Government Gardens, Dr. M. H. Mari Gowda, M.Sc. (Lucknow), Ph.D. (Harvard).
Director of Animal Husbandry and Veterinary Services, Dr. K. S. Shetty.
Director of Industries and Commerce, (Vacant).
Additional Director of Industries and Commerce, M. Malleshayya, M.A., LL.B.
Director, Rural Industrialisation, B. Beerappa, I.A.S.
Chief Engineer, Hydro-Electric Construction Projects, H. V. Narayana Rao, B.Sc., B.Sc. (Lond.).
Chairman, State Electricity Board, K. Guru Dutt, B.A., I.A.S. (Rtd.).
Chief Engineer, Electricity Board, J. L. D'Sa, B.E., B.Sc. (Hons.), A.M.I.E.E.
Commissioner for Transport, K. Henjerappa, B.A., B.L.
General Manager, Mysore Government Road Transport Department, P. J. Fernandes, I.A.S.
Director of Social Welfare, K. R. Marudeva Gowda, B.A., LL.B.
Director of Mines and Geology, T. P. Krishnachar, M.Sc., F.G.S.
Chief Conservator of Forests, Dr. K. Kadambi, M.Sc., D.Sc. (Munich).
Director of Sericulture, T. K. Krishnamurthy, B.Sc.
Principal Information Officer, D. R. Ramaya, B.A.
State Statistician, A. Ananthapadmanabha Rao, B.A., M.S. (Iowa).
Director of Archæology, Dr. M. Seshadri.
Director of Fisheries, V. V. Kalyani, M.Sc., B.T.
Adviser to the Govt. of Mysore, T. B. Sanatoria, Dr. P. Somasunder.
Controller of State Accounts Department, H. Ramaraj Urs, B.A.
Chief Electoral Officer, A. M. Shaik.
Director, Literary and Cultural Development, A. N. Murthy Rao, M.A.
Chief Editor, Mysore Gazetteer, B. N. Sri Sathyan, B.A. (Hons.).
Census Superintendent, G. Nanjundiah.
Kannada Translator to Govt., C. R. Anantha Rao.

HIGH COURT

Chief Justice, S. R. Das Gupta, Bar-at-Law.
Judges, N. Srinivasa Rau; Hombe Gowda; A. R. Somnath Iyer; M. Sadasivayya; K. Sadananda Hegde; S. S. Malimath (*Additional*).

REVENUE APPELLATE TRIBUNAL

Chairman, N. S. Hirannayya, I.A.S.
Members, C. S. Deodhar; R. Krishna Setty, B.A., LL.B.; Rahimtulla; S. B. Hubli.

PUBLIC SERVICE COMMISSION

Chairman, K. N. Padmanabiah, B.A., LL.B.
Members, M. K. Appajappa, I.A.S.; Pampan Gowda, B.A., LL.B.

ORISSA

Administrative Personnel

GOVERNOR

V. N. Sukthankar, M.A., LL.B. (Cantab.), Bar-at-Law, I.C.S. (Retd.).

PERSONAL STAFF

Secretary to Governor, Hit Prakash.
Under Secretary to Governor, P. N. Samaddar.
Private Secretary, Balram Baijal.
Aides-de-Camp, S. Senapati, I.P.S., Nand Kedar.

MINISTERS

Chief Minister in-charge of Political & Services Department and Finance Department, Dr. Hare Krushna Mahtab; *Home, Law & Education Department*, Lingaraj Panigrahi; *Development Department*, Radhanath Rath; *Industries & Mining & Geology Department*, Dinabandhu Sahu; *Revenue & Excise and L.S.G. Department*, Satyapriya Mohanty; *Works Department*, Sailendra Narayan Bhanj Deo; *Health (excluding L.S.G.) & Relief & Rehabilitation Department*, Srimati Basantamanjari Devi, *Commerce & Tribal & Rural Welfare Department*, Pabitra Mohan Pradhan; *Transport, Supply & Labour Department*, Nilamani Routray; *River Valley Development*, Rama Chandra Mardaraj Deo.

DEPUTY MINISTERS

Gram Panchayat, Fisheries & Co-operation, Santanu Kumar Das; *Transport and Public Relations*, Kumud Chandra Singh; *All matters in the Tribal & Rural Welfare Department except those relating to educational advancement of Scheduled Tribes and Scheduled Castes and those connected with Tribal Research Bureau*, Bir Bikramaditya Bariha; *Agriculture*, Himansusekhar Padhi.

SECRETARIAT

Chief Secretary and Secretary to Government, Political & Services Department, also Development Commissioner, Community Projects, B. Sivaraman, I.C.S.
Member, Administrative Tribunal, ex-officio Additional Secretary to Government, Political and Services and also Additional Development Commissioner, V. S. Tilak, I.A.S.
Additional Secretary to Government, N. M. Patnaik, I.A.S.
Industrial & Technical Adviser & ex-officio Additional Secretary to Government, Dr. H. B. Mohanty, M.Sc., Ph.D. (Cantab.).
Director of Community Project and National Extension Service and ex-officio Joint Secretary to Government, S. M. H. Burney, I.A.S.
Director of Gram Panchayat and ex-officio Joint Secretary, A. K. Mazumdar, I.A.S.
Deputy Secretaries to Government, V. Natarajan, I.A.S.; B. B. Rath, I.A.S.; L. S. Parija, I.A.S.; T. S. Ramaswami; B. B. Tripathi, M.A.
Deputy Director of Community Project & National Extension Service and ex-officio Deputy Secretary to Government, A. G. Bhatacharya, I.A.S.
Deputy Director of Community Project and National Extension Service & ex-officio Deputy Secretary to Govt., B. K. Mohanty, O.A.S.
Superintendent of Police (Vigilance) and ex-officio Deputy Secretary to Government, G. Das, I.P.S.
Special Officer-cum-Dy. Secretary, Nilamani Mohanty, B.A.
Under Secretary to Government and Secretary to Administrative Tribunal, P. K. Mohapatra, B.A. (Hons.).
Under Secretaries to Government, M. S. Nath, B.L.; G. S. Parija, M.A.; S. Patnaik, M.A., B.L.; R. M. Das, B.A. (Hons.); Gopinath Mohanty, M.A.

HOME DEPARTMENT

Secretary to Government, P. N. Mohanty, I.A.S.
Deputy Secretary to Government, V. C. Agarwalla, I.A.S. (*also Chief Electoral Officer*).
Under Secretaries to Government, S. Nayak, M.A., B.L., N. Tripathy, B.Sc.
Under Secretary (Ex-officio) and P.R.O., Sudhir Chandra Ghosh.

FINANCE DEPARTMENT

Secretary to Government, M. Ramakrishnayya, I.A.S.
Deputy Secretaries to Government, S. M. Patnaik, I.A.S.; D. Mohapatra M.A.
Audit Officer & ex-officio Deputy Secretary to Government, D. S. Mohanty, B.Com.
Under Secretaries to Government, N. K. Panda, I.A.S.; T. Prusty, B.A.
Budget Officer-cum-Under Secretary to Government, R. B. Patnaik.
Administrative Officer-cum-Under Secretary to Government, J. K. Misra, M.A.

SUPPLY DEPARTMENT

Secretary and Controller of Supplies, V. S. Mathews, I.A.S.
Deputy Director of Supplies and ex-officio Deputy Secretary to Government, N. R. Patnaik, B.L.

TRANSPORT AND WORKS DEPARTMENT

Secretary to Government, K. Singh, I.A.S.
Deputy Secretary to Government, B. K. Mishra, I.A.S.
Financial Adviser and ex-officio Deputy Secretary to Government, G. Swain, B.A.
Under Secretaries to Government, P. S. Habib Mohammed, I.A.S.; M. M. Sheriff, B.A.; A. M. Rao, B.Sc.

TRIBAL & RURAL WELFARE DEPARTMENT

Director of Tribal & Rural Welfare and ex-officio Secretary to Government, H. K. Ghosh, I.A.S.
Deputy Director of Tribal & Rural Welfare and ex-officio Deputy Secretary to Government, P. Misra, B.Sc.
Under Secretary to Government, G. D. Bhattamisra, B.L.

DEVELOPMENT DEPARTMENT

Secretary to Government, J. Mohapatra, I.A.S.
Additional Secretary, S. S. Murty, I.A.S.
Deputy Secretary to Government, U. N. Rath, I.A.S.
Under Secretaries to Government, N. S. Padhi, M.A.; L. K. Sen, M.A., B.L.; R. K. Garnaik, B.A.

RELIEF & REHABILITATION DEPARTMENT

Secretary, Director of Relief and Rehabilitation and Custodian of Evacues Property, R. N. Saletore, I.A.S.
Under Secretary to Government and ex-officio Dy. Director, K. C. Das, M.A.

LAW DEPARTMENT

Secretary to Government, G. B. Misra, M.A., B.L.
Superintendent & Remembrancer of Legal Affairs and ex-officio Additional Secretary to Govt., A. Misra, B.L.

COMMERCE DEPARTMENT

Secretary to Government, V. S. Mathews, I.A.S.
Deputy Secretary to Government, B. B. Babu, B.A.

LABOUR DEPARTMENT

Secretary to Government, H. K. Ghosh, I.A.S.
Deputy Secretary to Government, B. B. Babu, B.A.
Under Secretary, M. S. Patnaik, B.A.

REVENUE & EXCISE DEPARTMENT

Secretary to Government, R. P. Padhi, I.A.S.
Deputy Secretaries to Government, R. N. Das, I.A.S.; B. K. Mohanty, I.A.S.; M. P. Nanda, B.A., Jagannath Das, M.Sc., *also Secretary, Administration Enquiry Committee.*
Under Secretaries to Government, B. C. Deo, M.A.; M. D. Patnaik, M.A.; K. C. Misra, B.A.

EDUCATION & HEALTH DEPARTMENT

Secretary to Government, P. N. Mohanty, I.A.S.
Deputy Secretary to Government, S. D. Bahuguna, M.A.
Under Secretary to Government, S. K. Mohanti, B.A.
Under Secretary to Government, Kailash Ch. Misra, B.A.

INDUSTRIES, MINING & GEOLOGY DEPARTMENT

Secretary to Government, A. G. Menon, I.A.S.
Joint Secretary to Government, D. L. Purukayastha, I.A.S.
Deputy Secretary, K. M. Patnaik, M.A., B.L.
Under Secretaries to Government, S. C. Panigrahi, M.Sc.; Harihar Mohapatra, B.L.

HEALTH DEPARTMENT

Secretary to Government, R. N. Saletore, I.A.S.
Deputy Secretary, V. N. Patnaik.
Under Secretary, S. S. Roy, B.A.

PRINCIPAL OFFICIALS

Director of Forests, G. N. Mathur.
Chief Engineer, Public Works, C. M. Bennett, I.S.E.
Chief Engineer, Electricity, R. L. Narayanan, B.Sc. (Hons.) (Lond.), B.E., M.I.E. (Lond.).
Labour Commissioner-cum-Inspector of Factories, also Chief Inspector of Boilers, Trinath Mohapatra, B.A., B.L.
Director of Agriculture and Food Production, G. C. Das, I.A.S.
Director of Veterinary Services, G. B. Singh, B.A., M.R.C.V.S. (Sweden).
Director of Public Instruction, B. C. Das, M.A. (Pat.), B.A. (Hon.) (Lond.).
Controller, State Transport, Col. S. K. Roy, I.A. (Retd.).
Superintendent of Government Press, Md. S. H. Khan, M.A., B.S.A., A.R.P.S.
Director of Industries, B. Venkataraman, I.A.S.
Director of Fisheries, G. N. Mitra, M.Sc.
Director of Health Services, S. N. Gantayat, M.B.B.S.
Inspector-General of Police, B. Roy, I.P.
Registrar of Co-operative Societies, K. Ramamurthy, I.A.S.
Inspector-General of Prisons, Dr. D. R. N. Sahu, M.B.B.S.
Member, Arbitration Tribunal, B. Misra, I.A.S.
Director, National Employment Service, P. M. Samantaray.
Commissioner of Commercial Taxes, Ratnakar Sarangi, I.A.S.

BOARD OF REVENUE

President, V. Ramanathan, I.C.S.
Members, A. K. Barren, I.A.S.; V. S. Tilak, I.A.S.
Secretary, N. Sahu, B.A. (Hons.), O.A.S.

HIGH COURT

Mr. Justice R. L. Narasimham, I.C.S., *Chief Justice.*
Mr. Justice Souri Prasad Mohapatra, M.A., B.L., *Puisne Judge.*
Mr. Justice P. V. B. Rao, B.A., B.L., *Puisne Judge.*
Mr. Justice G. C. Das, B.A., B.L., *Puisne Judge.*
Mr. Justice S. B. Barman, Bar-at-Law, *Additional Judge.*
K. C. Nanda, M.A., B.L., *Registrar.*
S. K. Patro, B.L., *Deputy Registrar.*
C. S. Misra, B.L., *Assistant Registrar.*

PUBLIC SERVICE COMMISSION

Chairman, S. N. Mahapatra, I.A.S. (Retd.)
Member, P. S. Sundaram, B.A. (Oxon.).
Member, H. P. Deb.
Secretary, U. Das, B.A. (Hons.), Dip.-in-Ed.
Asstt. Secy., K. S. Padhi, B.A.

PUNJAB

ADMINISTRATIVE PERSONNEL

GOVERNOR

Chandreshvar Prasad Narain Singh.

PERSONAL STAFF

Secretary, S. D. Bhambri.
Military Secretary, Major A. K. Nag.
A.D.C., Capt. P. N. Anand.

MINISTERS

General Administration (including publicity), Law and Order (excluding Jails and Justice), Anti-Corruption, and Integration, Chief Minister, S. Partap Singh Kairon.
Planning and Community Projects, Social Welfare, Jails, Justice, Excise and Taxation and Cottage Industries, Dr. Gopi Chand Bhargava.
Finance, Industries (excluding Cottage Industries), Food and Supplies, Mohan Lal.
Revenue, Local Government, Relief and Rehabilitation, Capital Project, Giani Kartar Singh.
Irrigation, Electricity and Panchayats, Gian Singh Rarewala.
Labour, Labour Co-operatives, Education, Printing and Stationery, Language, Amar Nath Vidyalankar.
Forests, Animal Husbandry, Fisheries, Scheduled Castes and Backward Classes, Agriculture, S. Gurbanta Singh.
Public Works Department (Buildings and Roads), Housing, Transport, Sports and Game Department, Rao Brinder Singh.
Consolidation, Health (Health and Medical), Suraj Mal.

DEPUTY MINISTERS

Local Government, Scheduled Castes and Backward Classes, Welfare among Harijans, Yashwant Rai.
Health (Health and Medical), Social Welfare, Dr. Parkash Kaur.
Community Projects, Dalbir Singh.
Education and Publicity, Harbans Lal.
Jails, Food and Supplies, Banarsi Dass.
Development of Hilly Backward Areas and Forests, Bakshi Pratap Singh.

SECRETARIAT

Chief Secretary, E. N. Mangat Rai, I.C.S.
Home Secretary, N. N. Kashyp, I.C.S.
Financial Commissioner, Nakul Sen, I.C.S.
Development Commissioner and Planning Secretary, R. S. Randhawa, I.A.S.
Election Commissioner, Sarup Krishan, I.C.S.
Health and Local Government Department and Panchayats, R. S. Kang, I.A.S.
P.W.D., B. & R. and Capital Project, D. P. Nayar.
Finance, S. R. Verma.
Legislative Department and Legal Remembrancer, Shamsher Bahadur, Bar-at-Law.
Chief Engineer, South, C. L. Handa.
Chief Engineer, North, A. S. Kalha.
Chief Engineer, Central, Irrigation Branch, S. N. Kapur.
Chief Engineer, Construction, R. L. Khanna.
General Manager, Bhakra Dam, S. D. Khungar.
Secretary, Labour Housing, Co-operative, R. I. N. Ahuja, I.A.S.
Secretary, Irrigation, N. N. Mukerji.
Secretary, Education, B. S. Manchanda, I.A.S.

PRINCIPAL OFFICIALS

Chief Conservator of Forests, S. Partap Singh.
Commissioner of Labour, C. A. Ahuja.
Director, Food, Harkishan Singh Achreja, P.C.S.
Director of Agriculture, Dr. Arjun Singh.
Director of Animal Husbandry, S. Harnam Singh Malhi.
Director of Education, I. M. Verma.
Director and Deputy Secretary, Industries, J. N. Thandani, I.A.S.
Director of Health Services, Dr. Jagdish Singh.
Director of Public Relations, Kanwar Mohinder Singh Bedi.
Director, Land Records and Registrar of Marriages, Deaths and Births, Bhim Singh, P.C.S.
Director, Consolidation of Holdings, Kishan Partab Singh, P.C.S.
Director, Social Services, S. C. Pandit
Director of Languages, Ranjit Singh Gill
Controller of Printing and Stationery, [illegible] Kuriyan.
Inspector-General of Police, D. C. Lal, I.P.
Inspector-General of Prisons, B. C. Kaushish
Registrar of Co-operative Societies, S. S. Pa[illegible]
Director of Panchayats, S. N. Vasudeva, I.C.S.
Provincial Transport Controller, S. [illegible] Singh, I.A.S.
Jt. Provincial Transport Controller, P. N. Sahi
Excise and Taxation Commissioner and Deputy Secretary to Govt., Sardar J. S. Basur
Officer in-Charge, Special Enquiry Agency, Chand Lal Mehta, I.P.S.
Director, National Employment Service, J. [illegible] Lal.
Keeper of Records, Vidya Sagar Suri
Chairman, Public Service Commission, S. [illegible] Singh, I.A.S.
Members, Public Service Commission, Bhagat Ram Sharma, Achhra Singh, R. S. Mehta, Hardwari Lal.
Secretary, Public Service Commission, M. [illegible] Das, P.C.S.
Chairman, Subordinate Services Selection Board, Ch. Bhim Singh, I.P.S.
Advocate-General, S. M. Sikri.

HIGH COURT

Mr. Justice A. N. Bhandari, I.C.S.	Chief Justice
Mr. Justice G. D. Khosla, I.C.S.	Puisne Judge
Mr. Justice D. Falshaw, I.C.S.	Do
Mr. Justice S. S. Dulat, I.C.S.	Do
Mr. Justice Bishan Narain	Do
Mr. Justice Gurnam Singh	Do
Mr. Justice Girdhari Lal Chopra	Do
Mr. Justice Mehar Singh	Do
Mr. Justice Tek Chand	Do
Mr. Justice A. N. Grover	Do
Mr. Justice R. P. Khosla	Do
Mr. Justice Kundan Lal Gossain	Do
Mr. Justice S. B. Capoor, I.C.S.	Do

RAJASTHAN

ADMINISTRATIVE PERSONNEL

Governor : Gurumukh Nihal Singh.
Secretary to Governor : R. D. Khanna, I.A.S.
A.D.Cs : Capt. Sumer Singh, Capt J. N. Singh

Ministers

Chief Minister in charge of General Administration, Political, Appointments, Planning and Development (Co-ordination), Community Projects, Education (excluding Basic Education) and Industries and Mines, Mohanlal P. Sukhadia.

Minister for Finance, Excise and Taxation, Basic Education, Khadi and Village Industries and Social Welfare : Hari Bhau Upadhyaya.

Minister for Home (except Transport, Stationery and Printing and Government Presses), Law and Legal Remembrancer's Office, Judicial and Irrigation and Power : Ram Kishore Vyas.

Minister for Revenue (including Jagir Resumption), Devasthane, Relief and Rehabilitation and Famine Relief, Damodar Lal Vyas.

Minister for Local Self-Government, Printing and Stationery and Government Presses, Legislative Assembly and Elections, Medical, Food and Civil Supplies and Labour, Badri Prasad Gupta.

Minister for Agriculture, Co-operation, Forests, Public Works Department and Transport, Nathu Ram Mirdha.

Dy. Minister for Revenue, Excise and Community Projects, Sampat Ram.

Dy. Minister for Irrigation, Power and Medical, Bhika Bhai Bhil.

Dy. Minister for Education and Planning, Poonam Chand Vishnoi.

Dy. Minister for Finance, Industries and Mines, Rikhab Chand Dhariwal

Dy. Minister for Agriculture, Co-operation & Panchayats, Daulat Ram Saran.

Secretariat

Chief Secretary, K. N. Subramanian, I.C.S.
Addl. Chief Secretary and Development Commissioner, Bhagwat Singh Mehta I.A.S.
Finance Secretary, Ganga Sahai Purohit I.A.S.
Home Secretary C. S. Gupta I.A.S.
Revenue Secretary, R. N. Bawa, I.A.S.
P.W.D. Secretary, Z. S. Jhala, I.A.S.
Industries Secretary, A. K. Roy, I.A.S.
Agriculture Secretary, Balwant Singh, I.A.S.
Law Secretary, P. D. Lowal I.A.S.
Education Secretary, Satya Prassan Singh Bhandari, I.A.S.
Addl. Secretary, Appointments, Mohan Mukerjee, I.A.S.
Addl. Secretary, Finance, K. N. Bhargava I.A.S., I.A.S.

Principal Officials

Director of Education J. S. Mehta I.A.S.
Director of Agriculture, Samarth Raj, I.A.S.
Director of Local Bodies, Hari Singh
Director of Medical and Health Services, Dr. B. N. Sharma.
Director of Public Relations, Rajendra Shankar Bhatt
Director, Social Welfare, Parmanand
Inspector General of Police, Gowardhan I.P.S.
Director of Transport, B. Sinha
Chief Engineer, Buildings and Roads, Kishori Lal,
Chief Engineer Irrigation, Moti Ram.
Chief Conservator of Forests, N. N. Sen.
Commissioner, Excise and Taxation, Gulzari Lal.
Commissioner, Labour C. Isar
Commissioner, Jagir, Daulat Singh
Accountant-General R. K. Khanna
Registrar Co-operative Societies L. P. Sood
Director Mines and Geology M. L. Sheth
Engineer Electrical and Mechanical Pahwa.

Board of Revenue

Chairman K. L. Patni I.A.S.
Members Shyam Lal I.A.S., Iqbal Bahadur, I.A.S., J. N. Kaushik I.A.S.
Registrar Chandra Sekhar I.A.S.

Public Service Commission

Chairman M. M. Verma.
Members Laxmi Lal Joshi, Raghuvar Das
Secretary R. B. Mather

High Court

Jodhpur.

Chief Justice, Kailas Nath Wanchoo, I.C.S.
Judges, Durga Shankar Dave, Inder Nath Modi, Jasat Narayan Kanwar Lal Lapna, Jawan Singh Ranawat Kumar Krishna Sharma and Daulat Mal Bhandari
Registrar, G. M. Mehta
Dy. Registrars, M. J. Mardia (Jaipur) and Dayal Singh Sia (Jodhpur)
Advocate-General Gulab Chand Kashwal
Editor, Law Reports (Rajasthan Series), M. L. Razdan

TRIPURA

ADMINISTRATIVE PERSONNEL

Chief Commissioner, K. P. Bhargava I.C.S.
Chief Secretary, S. K. Sarkar, I.A.S.
District Magistrate and Collector, Lt.-Col. H. S. Butalia, I.P.A.S.
Addl. District Magistrate, H. S. Dubey I.P.A.S.
Senior Dy. Magistrate, N. N. Choudhury.
Secretaries, R. K. Dev Barma, Bishan Chandra, K. B. Mathur; P. K. Dev Barma (*Off. Deputy Commissioner*, Vacant.
Dy. Secretaries, H. K. Dev Barma; G. N. Srivastav.
Secretary to the Chief Commissioner, B. K. Bhowmik.
Director of Education, G. N. Chatterjee.
Director of Agriculture, A. N. Choudhury, M.Sc.
Director of Land Records, P. R. Purohit.
Div. Forest Officer, N. C. Bhattacharjee.
Principal Engg Officer, M. M. Patel, B.E., A.M.I.E.
Superintendent of Police H. N. Sarkar.
Commandant, Armed Police, Major H. K. Dev Barma.
Legal Remembrancer, Vacant.
Registrar, Tripura Secretariat, B. K. Sen and S. B. K. Dev Barma
Superintendent of Press, B. K. De
Inspectors of Schools, M. C. Bhattacharjee; H. Dutt Choudhury.
Statistical Officer, C. R. Paul.
Labour Officer, B. C. Halder.
Publicity Officer, S. C. Bhattacharyya.
Judicial Commissioner, J. N. Dutt
Dt and Sessions Judge, S. C. Talukdar.
Subordinate and Assistant Sessions Judge, Chandrahas Singha.
Co-operative Officer, R. N. Bhattacharjee
Tribal Welfare Officer Naresh Chandra, M.Sc.
Project Executive Officer, Community Project, S. Bhowmik
Principal, M.B.B. College, S. K. Choudhury.
Principal, Basic Training Institute, S. K. Banerjee
Superintendent of Survey, R. Sankaranarian.
Superintendent of Central Jail, N. G. Kar Bhowmik.

TRIPURA TERRITORIAL COUNCIL

Chairman Sachindra Lal Singh
Chief Executive Officer, N. L. Dev Barma.
Principal Officer (Education), P. K. Roy
Principal Officer (Health), A. C. Bhattacharjee.
Principal Officer (Engineering), A. K. Sen.

UTTAR PRADESH

ADMINISTRATIVE PERSONNEL

Governor, V. V. Giri.

Personal Staff

Secretary to the Governor, Rajkumar Talwar, I.A.S.
Hon. Aides-de-Camp, Ris. Major and Hon. Capt. Maninder Nath; Capt. Bhagwan Din.
Under Secretary, Governor's Secretariat, Prem Ballabh Pande.
Superintendent, Govind Ballabh Pant.
P.A. to the Governor, K. R. Nagappa.

MINISTERS

Chief Minister, Industries, Planning and General Admn., Dr. Sampurnanand.
Health, Power, Relief, Rehabilitation, Hukum Singh Visen.
Public Works, Girdhari Lal.
Food & Civil Supplies, Justice and Forests, Syed Ali Zaheer.
Local Self-Government, Vichitra Narayan Sharma.
Finance and Revenue, Charan Singh
Information, Home, Education, Estate Department, Kamalapati Tripathi.
Labour, Social Welfare, Acharya Jugal Kishore.
Agriculture, Co-operation, M. L. Gautam.

MINISTERS OF STATE

Harijan Welfare, Mangla Prasad.
Social Security and Waqfs, Muzaffar Hasan.
Irrigation, Ram Murti.
Excise and Transport, Dr. Sita Ram.

DEPUTY MINISTERS

Heavy Industries, Jagmohan Singh Negi
Small Industries, Rauf Jafri.
Health, Dr. Jawahar Lal Rohatgi.
Revenue, Parmatmanand Singh.
Justice, Laxmi Raman Acharya.
Education, Kailash Prakash
Social Welfare, Mrs. Prakashwati Sood.
Planning, Sultan Alam Khan.

PARLIAMENTARY SECRETARIES

Parliamentary Secretaries attached to Chief Minister, Kripa Shankar; Raj Behari Singh.
Parliamentary Secretary attached to Minister for Health, Power, Relief and Rehabilitation Baldeo Singh Arya.
Parliamentary Secretary attached to Minister for Finance, Industries and Power, Dharam Singh.
Parliamentary Secretary attached to Minister for Local Self-Government, Ram Swarup Yadav.
Parliamentary Secretary attached to Minister for Home, Education and Information, Istifa Husain.

Parliamentary Secretary attached to Minister for Labour and Social Welfare, Hemwati Nandan Bahuguna.
Parliamentary Secretary attached to Minister for Harijan Welfare and Legislative Affairs, Shanti Prapanna Sharma.
Parliamentary Secretary attached to Minister for Public Works, Mahabir Singh.
Parliamentary Secretary attached to the Minister for Finance & Revenue, Dharam Singh.

U. P. Public Service Commission

Chairman.

Nafisul Hasan, M.A., LL.B.

Members.

Tejasvi Prasad Bhalla, M.A., LL.B.
Radha Krishna, M.A., LL.B.
Surath Narain Mani Tripati, M.A., LL.B.
Girish Chandra, M.A., LL.B.
Ram Naresh Lal, M.A., LL.B. (*Secretary*).

SECRETARIAT

Chief Secretary, and Information Secretary, Govind Narayan, I.C.S.
Finance Secretary, B. B. Lal, I.C.S.
Secretary, Public Works (B. & R.) and Transport Deptts., Kehar Singh, I.A.S.
Secretary, Irrigation and Power Deptts., Habib Ahmad Siddiqi, I.A.S.
Secretary, Home Department, M. G. Kaul, I.C.S.
Revenue Secretary, Zahurul Hasan, I.A.S.
Judicial Secretary and Legal Remembrancer, Mithan Lal, B.Sc., LL.B., H.J.S.
Secretary, Legislature, Rup Chandra, B Sc., LL.B., H.J.S.
Secretary, Education Department, Jai Karan Nath Ugra, I.A.S.
Secretary, Development Commissioner and Addl Secretary, Planning Deptt., Satish Chandra, I.C.S.
Secretary, Local Self-Government, B. D. Sanwal, I.C.S.
Secretary, Industries and Excise, Pai, I.A.S.
Secretary, Labour, Social Welfare and Harijan Sahayak, Amba Datt Pande, I.A.S.
Secretary, Agriculture, Animal Husbandry, Forests, Economics and Statistics Deptts., also Director, Small Savings, B. S. Seth, I.A.S.
Secretary, Medical, Public Health and Food and Civil Supplies Deptts., also Commissioner, Food and Civil Supplies, Lalit Mohan Bhatia, I.A.S.
Secretary, Relief and Rehabilitation and Evacuee Property Deptts., also Commissioner, Relief and Rehabilitation and Regional Settlement Commissioner, Raghubir Saran Das, I.A.S.
Commissioner for Reorganisation and Director, Organisation and Methods Division and Addl. Secretary, Chief Secretary's Branch, K. K. Das, I.C.S.
Secretary, Co-operative Department and Addl. Development Commissioner, S. Dikshit.

HEADS OF DEPARTMENTS

Accountant-General, O. K. Ghosh, I.A. & A.S.
Commissioner of Income-tax (Central), Pyarelal Agarwal.
Postmaster-General (Central), S. Swarup.
Chief Conservator of Forests, Rameshwar Sahai, I.F.S.
Chief Engineers, Madhab Singh Bisht, C.B.E. (*P.W.D.*); Akhil Chandra Mitra, B.Sc., M.I.E., M.A., S.O.C., C.E., I.S.E. (*Irrigation Department*); G. S. Mathur (*Electricity Department*).
Commissioner of Labour, Onkar Nath Misra, I.A.S.
Commissioner for Food and Civil Supplies, Lalit Mohan Bhatia, I.A.S.
Custodian of Evacuee Property, H. C. Asthana.
Director of Agriculture, Ram Surat Singh.
Director of Animal Husbandry, P. G. Pande.
Director of Education, Chandra Mohan Nath Chak, M.Sc., B.A. (Cantab.).
Excise Commissioner, Bindeshwari Prasad Joshi, I.A.S.
Director of Government Printing and Stationery, Moni Gopal Shome.
Director of Industries, Mahabir Saran Das, I.A.S.
Director of Public Health, Dr. Krishna Murari Lal.
Director of Information, Bhagwati Sharan Singh.
Inspector-General of Police, M. S. Mathur, I.P.
Inspector-General of Prisons, Dr. Chandrika Prasad Tandon.
Inspector-General of Registration, Jwala Prasad Singh.
Superintendent of Census, Rajeshwari Prasad, I.A.S.
Transport Commissioner, D. S. Rathore, I.A.S.
Sales Tax Commissioner, Harish Chandra Saxena, I.A.S.
Registrar, Co-operative Societies, Nrisingha Prasad Chatterji, I.A.S.
Land Reforms Commissioner, Siddique Hasan, I.C.S.
Cane Commissioner, B. C. Chak, I.A.S.
Director of Social Welfare and Harijan Sahayak, Anand Kumar Singh, I.A.S.
Director of Panchayats, Bhagwat Singh, I.A.S.
Director of Consolidation, Pran Nath Kapoor, I.A.S.
Director of Organisation and Methods Division, K. K. Das, I.C.S.
Director, National Employment Service, G. R. Nagar.

North-Eastern Railway

General Manager, S. S. Ramasubban
Dy. General Manager (W), H. L. Khanna
Secretary to General Manager, N. D. Ahluwalia
Dy. General Manager (Personnel), H. P. Verma
Chief Security Officer, N. C. Misra.
Chief Engineer, Civil Engineering, A. C. Khastgir
Chief Operating Superintendent, D. B. Patel
Chief Commercial Superintendent, M. G. Iyer
Chief Mechanical Engineer (Gorakhpur), T. G. Kotiswaran.
Chief Signal and Tele-Communication Engineer (Gorakhpur), P. S. Bennett.
Chief Electrical Engineer (H.Q.), S. L. Narayana Iyer.
Controller of Stores (Gorakhpur), P. Hoon
Chief Medical Officer (Gorakhpur), Dr. I. B. Chaudhury.
F. A. and Chief Accounts Officer, C. D. Dharkar

RAILWAY SERVICE COMMISSION

Chairman, R. R. P. Sinha.
Member, K. P. Modwel.
Secretary, M. K. Menon.

Judicial Department

(HIGH COURT OF JUDICATURE AT ALLAHABAD.)

Mr. Justice O. H. Mootham, Bar-at-Law (E.D.)	Chief Justice.
Mr. Justice Raghubar Dayal, I.C.S.	Judge.
Mr. Justice Manu Lal Chuni Lal Desai, B.A. (Cantab.), I.C.S.	Do.
Mr. Justice Vashistha Bhargava, I.C.S.	Do.
Mr. Justice Ram Narain Gurtu, B.A. (Oxon.), Bar-at-Law	Do.
Mr. Justice Nasrullah Beg, M.A. (Cantab.), Bar-at-Law	Do.
Mr. Justice Basudeva Mukerji, M.A., LL.B.	Do.
Mr. Justice Misri Lal Chaturvedi, B.A., LL.B.	Do.
Mr. Justice Har Nath Prasad Asthana, M.A., LL.B., Bar-at-Law	Do.
Mr. Justice Dwijendranath Roy, M.A., LL.B.	Do.
Mr. Justice Basil Reginald James, I.C.S.	Do.
Mr. Justice Anand Narain Mulla, M.A., LL.B.	Do.
Mr. Justice Radha Krishna Chowdhry, M.A., LL.B.	Do.
Mr. Justice Sri Narain Sahai, B.A., LL.B.	Do.
Mr. Justice Vishnu Dutta Bhargava, B.A., LL.B.	Do.
Mr. Justice Balaram Upadhya, M.A., LL.B.	Do.
Mr. Justice Vidyadhar Govind Oak, I.C.S.	Do.
Mr. Justice Ambika Prasad Srivastava, M.A., LL.B.	Do.
Mr. Justice Jagbans Kishore Tandon, B.A., LL.B.	Do.
Mr. Justice Jagdish Sahai	Do.
Mr. Justice Bishambhar Dayal	Do.
Mr. Justice Jawaharnath Takru	Do.
Mr. Justice Bishan Narain Nigam, M.A., LL.B., I.C.S.	Do.
K. P. Mathur, M.A., LL.B.	Registrar.
R. P. Dikshit, B.Sc., LL.B.	Joint Registrar.
Kanhaiya Lal Misra, B.A. (Hons.), LL.B.	Advocate-General.
Dr. M. H. Faruqi, M.A., LL.B. (Ph.D.), Bar-at-Law	Govt. Advocate.
Prithvi Nath Chandhuri, B.A., LL.B.	Additional Govt. Advocate.
Jagdish Kishore Srivastava, B.A., LL.B.	Administrator-General and Official Trustee.

WEST BENGAL

ADMINISTRATIVE PERSONNEL

Governor

Shrimati Padmaja Naidu.

Secretaries

S. Dutt **Mazumdar**, I.A.S. (*Secy. to Governor, Raj Bhavan, Calcutta*).
P. R. Sinha, (*Special Officer to Governor, Raj Bhavan, Calcutta*).
S. N. Sen (*Dy. Secy. to Governor and Director of Hospitality, Raj Bhavan, Calcutta*).
P. B. Sengupta (*Dy. Secy. to Governor, Raj Bhavan, Calcutta*).

Ministers

Chief Minister, Minister-in-charge of Home, (excluding Police, Defence), Finance, Co-operation, Cottage & Small-scale Industries, and Development Deptt., Dr. B. C. Roy.
Minister-in-charge of Irrigation and Waterways Deptt., Ajoy Kumar Mukherjee.
Minister-in-charge of Works and Buildings and Housing Deptts., Khagendra Nath Das Gupta.
Minister-in-charge of Law, Local Self-Government and Panchayat Deptts., Iswar Das Jalan.
Minister-in-charge of Food, and Supplies and Refugee, Relief and Rehabilitation Deptts., Profulla Chandra Sen.
Minister-in-charge of Agriculture, Dr. Rafiuddin Ahmed.
Minister-in-charge of Home (Police and Defence), Kalipada Mookherjee.
Minister-in-charge of Commerce and Industries, and Tribal Welfare, Bhupati Majumdar.
Minister-in-charge of Fisheries and Forests Deptt., Hem Chandra Naskar.
Minister-in-charge of Labour, Abdus Sattar.
Minister-in-charge of Excise Deptt., Shyama Prosad Burman.
Minister-in-charge of Land and Land Revenue, Bimal Chandra Sinha.
Minister-in-charge of Education, Rai Harendra Nath Chowdhuri.

Ministers of State

Minister-in-charge of Refugee, Relief and Rehabilitation, Smt. Purabi Mukherjee.
Minister-in-charge of Development, Tarun Kanti Ghosh.
Minister-in-charge of Health, Dr. Anath Bandhu Ray

Deputy Ministers

Home (Transport), Satish Chandra Roy Singha.
Tribal Welfare, Tenzing Wangdi.
Relief and Supplies, Rajani Kanta Pramanik.
Cottage and Small-scale Industries, S. Kazem Ali Meerza.
Refugee Relief and Rehabilitation, Shrimati Maya Banerjee.
Home (Publicity), Jagannath Kolay.
Education, Sourindra Mohan Misra.
Agriculture, Animal Husbandry and Forests, Smarajit Banerjee.
Co-operation, Chittaranjan Roy.
Health, Ziaul Huq.
Food, Charu Chandra Mohanti.
Labour, Narbahadur Gurung.
Chief Government Whip, Jagannath Kolay.

Secretariat

Chief Secretary, S. N. Ray, I.C.S.
Secretary, Home Dept., M. M. Basu, I.C.S.
Secretary, Finance Dept., B. Das Gupta, I.A.S.
Secretary, Refugee Relief and Rehabilitation Dept., and Commsnr., R. R. & R., N. K. Roychowdhuri, I.C.S.
Secretary, Agr., Animal Husbandry, and Forests C. K. Roy, I.A.S.
Secretary, Commerce and Industries, Fisheries, Cottage and Small-scale Industries and Co-operation Deptt., A. Mitra, I.C.S.
Secretary, Education Deptt., Dr. D. M. Sen.
Secretary, Medical and Public Health and Director of Health Services, Lt.-General D. N. Chakravarty.
Admn. Officer, Mayurakshi Project, G. B. Mondal.
Secretary, Law Dept., K. K. Hajara, I.C.S.
Secretary to the Chief Minister, S. K. Chatterjee, I.C.S.
Special Officer and ex-Officio Secretary, Finance Dept., N. N. Mazumdar, I.A.A.S. (Retd.).
Transport Commissioner, R. Gupta, I.C.S.
Secretary, Board of Revenue, S. Banerjee, I.C.S.
Secretary, Irrigation and Waterways and Fisheries Depts., A. D. Khan, I.C.S.
Member, Board of Revenue and ex-Officio Secy., Land and Land Revenue and Tribal Welfare Deptts., S. Banerjee, I.C.S.
Jt Secretary, Works and Bldgs. Dept., K. K. Ray, I.A.S.
Jt Secretary, Labour Dept., S. K. Banerjee, I.A.S.
Spl. Officer, Anti-Corruption and Enforcement, Deptt., Dr. N. Das, I.C.S.
Dir.-Genl. of Transportation & ex-Officio Secy., Home Dept., J. N. Talukdar, I.C.S.
Jt. Secretary, Local Self-Govt. Dept., A. Neogi, I.A.S.
Secy., Legislative Assembly, Ajita Ranjan Mukherjee.
Financial Adviser, Food, Relief & Supplies, and ex-Officio Secy., Finance Dept., S. K. Ghosh, I.A.S. (Retd.).
Jt. Secy., Food and Supplies, B. R. Gupta, I.A.S.
Joint Secretary, Relief, S. K. Gupta, I.A.S. (Retd.).
Development Commsnr. and ex-Officio Secy., Development Dept., H. Banerjee, I.C.S.
Jt. Development Commsnr. and ex-Officio & Jt. Secy., Development Dept., S. B. Ray, I.A.S.

Board of Revenue

Writers' Buildings, Calcutta 1.

Member, S. Banerjee, B.A. (Cal.), M.A. (Cantab.), I.C.S.
Land Reforms Commissioner, R. K. Ray, I.C.S.
Jt. Land Reforms Commissioner, B. Sengupta, I.A.S.
Dy. Land Reforms Commissioner, P. Banerjee, I.A.S. (Retd.)
Secretary, P. M. Datta, M.Sc., B.L.
Registrar, S. C. Pal, B.Sc., B.L.
Special Officer, S. K. Chatterjee, M.Sc.

DEPARTMENTAL OFFICIALS

Advocate-General, S. M. Bose.
Commissioner of Income-Tax, Calcutta, M. N. Wagh.
Collector of Customs, Calcutta, D. P. Anand.
Inspector-General of Police, H. N. Sircar, J.P., I.P.
Commissioner of Police, H. S. Ghosh Chowdhury, I.P., J.P.
Inspector-General of Prisons, Dr. P. K. Biswas, M.B.
Labour Commissioner and Registrar of Trade Unions and also Chief Inspector of Shops and Establishments, Calcutta, S. M. Bhattacharjee, I.A.S.
Registrar of Co-operative Societies, A. K. Dutt, I.A.S.
Commissioner, Workmen's Compensation, J. N. Mallik.
Registrar, Workmen's Compensation, P. C. Maitra, M.A., B.L.
Conservator-General of Forests, V. S. Rao, I.F.S.
Chief Inspector of Factories, G. C. Roy, B.Sc. (Cal.), B.Sc., C.P.E. (Glas.), A.M.I.Mech.E.
Administrator-General and Official Trustee, A. K. Dutta, Attorney-at-Law.
Postmaster-General, P. B. Lahiri.
Presidency Postmaster, T. N. Parikh.
Senior Electrical Engineer, Posts and Telegraphs, Sitanshu K. Roy, B.E.
Collector of Central Excise and Land Customs, R. N. Misra.
Collector of Land Customs, K. Narasimhan.
Commissioner of Excise, West Bengal, M. P. Sen.
Chief Engineer, Irrigation, A. L. Das, I.S.E.
Chief Engineer, Works and Buildings, J. K. Banerjee.
Chief Inspector of Boilers, S. C. Roy.
Chief Electrical Engineer and Electrical Adviser to Government, A. K. Bhaumik, B.Sc. (Cal.), B.Sc. (Engg.) (London), M.I.E.E.
Superintending Engineer, (State Electricity Board), Dr. M. Dutta, M.Sc. (Cal.), M.Sc. (Tech.) (Manch.), Ph.D. (Edin.), M.I.E.E.
Director of Land Records and Surveys, R. Banerjee, I.A.S.
Special Officer and ex-Officio Director of Land Records and Surveys, Dinesh Chandra Gupta, I.A.S.
Director, West Bengal Fire Services, C. M. Gogerly, A.M.I. Fire E.
Chairman, Calcutta Improvement Trust, S. K. Gupta, I.C.S.
Chief Engineer, Calcutta Improvement Trust, N. R. Das.
Secretary and Chief Accountant, Calcutta Improvement Trust, T. K. Roy Chowdhury.
Superintendent, Govt. Printing, S. Mukherjee, B.A.
Director of Agriculture, Dr. H. K. Nandy.
Milk Commissioner, Dr. S. C. Ray.
Director of Industries, B. C. Mullick.
Director of Public Instruction, D. M. Sen.
Director of Publicity, P. S. Mathur, M.Sc.
Director of Fisheries, Dr. K. C. Saha.
Chairman, Minority Commission, K. P. Mookerji.
Director of Social Welfare and Ex-Officio Jt. Secretary, K. S. Mitra.
Chief Engineer, Construction Board, S. Bandyopadhyaya.
Chairman, Industrial Tribunal, M. Banerjee.

Chief Presidency Magistrate's Court

2, Bankshall Street, Calcutta.

Chief Presidency Magistrate, Chairman, Advisory Board, Vagrancy, D. N. Das Gupta.
Addl. Chief Presidency Magistrate, S. P. Ghose.
Presidency Magistrates, R. Roy Chowdhuri, P. S. C. Roy, T. K. Mutsuddi, F. M. Sanyal, S. K. Ganguli, G. B. Ghosh, S. M. Guha.
Presidency Magistrate and Registrar, S. K. Chakrabarti.
Presidency Magistrate in charge of Central Children's Court, S. N. Ganguli.
Hony. Presidency Magistrates, D. L. Dutt; T. K. Roy; A. B. Mukherjee; Dr. B. C. Law; J. Kabir; S. S. Ali; S. K. Khanna; S. C. Roy; N. K. Dastur; A. M. Tayabali; Braj Mohan Bagri; T. M. Zarif; Dr. B. Mukerji; P. N. Roy; M. K. Mukerji; S. Mookerji; S. P. Banerjee.
Hon. Presidency Magistrates (Ladies), Central Children's Court, Smt. Olive Pemantle; Smt. Tarulata Sen; Smt. Mira Dutta Gupta; Smt. Swarnaprova Sen, Smt. Afzal Jahan Begum; Smt. Jyotiprova Das Gupta.
Head Assistant, S. P. Mallik.

House of Detention, Calcutta

Chief Presidency Magistrate, ex-Officio Chairman, Visiting Board, D. N. Das Gupta.
Presidency Magistrate, Central Children's Court, ex-Officio Secretary, Visiting Board, S. N. Ganguli.
Superintendent, House of Detention, ex-Officio Jt. Secretary, Visiting Board, A. P. Ghosh.

Court of Small Causes, Calcutta

Chief Judge, Sourindra Mohan Banerjee, M.A., LL.B.
Judge, 2nd Bench, Bhabatosh Pal, M.A., LL.B.; *Judge, 3rd Bench*, Subodh Ch. Talukdar, M.A., LL.B.; *Judge, 4th Bench*, Jitendra Nath Mondal, M.A., LL.B.; *Judge, 5th Bench*, Sourindra Mohan Chatterji, M.A., LL.B.; *Judge, 6th Bench*, Krishnapada Mukherjee, M.A., LL.B.
Registrar and Chief Ministerial Officer, Hirendra Nath Sen, M.A., LL.B.
Deputy Registrar, Bhabesh Ch. Chakravorty, M.A., LL.B.

Industrial Tribunal

New Secretariat Building, 1, Hastings Street, Calcutta.

Judges, M. C. Banerjee (*Chairman*), G. Palit, J. N. Maitra.
Judge, Labour Court, N. C. Chatterjee.

GOVERNMENT OF WEST BENGAL,

Office of the Director of
National Employment Service, West Bengal,
28, Theatre Road, Calcutta-16.

Director, D. N. Ghose, M.A.
Deputy Director, S. K. Mukerjee.
Assistant Director, Vacant.
Employment Liaison Officer, B. C. Ray, M.Sc.

Public Service Commission
Anderson House, Alipore,
Calcutta 27.

Chairman, Dr. A. T. Sen, M.Sc., Ph.D. (Lond.).
Members, N. C. Chakrabarti, M.A., LL.B., W.B.E.S. (Retd.); T. Mitra, I.S.E. (Retd.); M. A. Haque, M.A., LL.B., Bar-at-Law.
Secretary, B. K. Sinha, I.A.S. (Retd.).
Dy. Secretary, J. C. Ghosh, W.B.C.S. (Retd.).
Asstt. Secretaries, S. Bose, B.A., R. N. Guha, M.A., B. K. Sen, B.Sc.
Registrar, S. Panerjee.

Regional Office, Central Board of Film Censors
12, Palhousie Square, Calcutta 1.
Regional Officer at Calcutta, A. K. Sen.

ACCOUNTANT-GENERAL
Treasury Bldgs, Calcutta.
Accountant General, West Bengal, A. K. Mukherji.
Senior Deputy Accountant General, (Works), West Bengal, G. Ramachandran.
Deputy Accountant General (Admn.), West Bengal, P. C. Haldar.
Deputy Accountant General (O.A), West Bengal, K. P. Joseph.
Deputy Accountant General (Central T.A.D.), Y. P. Pasi.
Examiner, Local Accounts, S. P. Naryan Chetty

COMMISSIONER OF INCOME-TAX
3, Govt. Place West, Calcutta.
Commissioner of Income-tax, West-Bengal, V. V. Subramanian, M.A.
Commissioner of Income-tax, Calcutta, M. N. Wagh, A.C.A.
Commissioner of Income-tax (Central), Calcutta, V. S. K. D. Nadar, M.A.

REGIONAL METEOROLOGICAL CENTRE
Alipore, Calcutta 27.
Director, Dr. S. N. Sen, M.Sc., D.Phil.
Meteorologists, M. Gangopadhyaya, M.Sc., N. C. Lahiri, M.A.

OFFICE OF THE COLLECTOR OF CUSTOMS
Custom House, Calcutta.
Collector of Customs, D. P. Anand, B.A. (Hons.), S.H. (G.H.), (G.I.) (H.H.).
Additional Collector of Customs, Jasjit Singh, M.A. (Hons.).
Deputy Collector of Customs, M. Panchapya, M.A.
Deputy Chief Chemist, Monohar Lal, M.Sc.

CALCUTTA TELEPHONES
Telephone Bhavan, Calcutta 1.
General Manager, Uma Shanker, B.Sc., C.E., M.I.T.E.
Deputy General Manager (A), B. K. Anantharaman.
Deputy General Manager (D), V. P. Kenethar.
Director of Telegraphs, P. K. Verghese.

ALL-INDIA RADIO
Post Box 696, Calcutta.
Station Director, P. C. Chatterji.
Assistant Station Director (Administration), B. P. Sharma.
Assistant Station Director (Programme), S. C. Basu.
Station Engineer, M. R. Rao.
Listener Research Officer, P. C. Datta.
Engineer-In-Charge, High Power Transmitter, K. Venkata'aman.

Eastern Railway
General Manager & Chief Operating Superintendent, Krijal Singh.
Chief Engineer, S. N. Wadhwa.
Chief Commercial Superintendent, Anand Mohan.
Chief Mechanical Engineer, A. K. Mullick.
Financial Adviser & Chief Accounts Officer, S. S. Gopalakrishnan.
Chief Electrical Engineer, S. K. Gopinath.
Chief Signal & Tele. Com. Engineer, K. N. Khra.
Controller of Stores, C. D. Ebbett.
Chief Medical Officer, Dr. A. Lakshminarayanan.
Chief Security Officer, T. N. Ghose.
Dy. General Manager (P), R. B. L. Mathur.
Dy. General Manager, (G), J. N. Roy.
Public Relations Officer, K. K. Das.

South-Eastern Railway
Garden Reach, Calcutta 23.
General Manager, A. K. Basu.
Sr. Dy. General Manager, V. K. Ramaswami.
Financial Adviser and Chief Accounts Officer, S. P. Sahni.
Financial Adviser & Chief Accounts Officer, (Constn.), S. S. Gopalakrishnan.
Chief Operating Superintendent, J. S. Math
Chief Commercial Superintendent, B. Mazu
Chief Engineer D. N. Chopra.
Chief Engineer (Construction), D. N. Cho
Chief Signal and Telecom. Engineer, B. C
Controller of Stores, D. R. Mukherjee.
Chief Medical Officer, Dr. A. S. Arora.
Chief Security Officer, D. G. Bhattacharyy
Chief Mechanical Engineer, P. S. Venkat
Chief Electrical Engineer, H. R. Dogra
Dy. Chief Electrical Engineer, V. S. Gu

Railway Service Commission
Clem Browne Railway Institute, S
Calcutta 14.
Chairman, M. C. Pradhan; *Member*, P
Secretary, T. Sadasivan.

HIGH COURT
Chief Justice, Phani Bhusan Chak
M.A., LL.B.
Puisne Judges, Kulada Charan Das Gupt
I.C.S., Bar-at-Law; Surajit Chandra
M.A., LL.B.; Prasanta Bihari M
Bar-at-Law; Jyoti Prakash Mit
(Oxon), Par at-law; Binja K
I.C.S.; Himansu Kumar Bose, Par at
S. Pachawat, Par at-law, Deepa
Sinha, Par at-law; Paresh Nath M
M.A., LL.B.; Sailendra Nath Gupta B
Sisir Kumar Sen, M.A. (Pun), I.C.S., B
Mukherjee, M.A., LL.B.; Debabrata M
M.A., LL.B.; Gopendra Krishna Mu
Bar-at-Law; Prokash Chandra Mallick M.A.,
LL.B.; Panchkari Sarker, M.A., LL
Kumar Sen M.A., LL.B.; Sushil Kumar
B.A. (Com.), Par at-law; Uma Cha
Bar at-law
Additional Judges, Bimal Kumar Bha
M.A., LL.B., Ph.D. (Lond.), Bar
Binayak Nath Panerji, M.A., LL.B., Bar-at-
Ray, B.A. (Oxon), M.A. (Cal.), Bar-at-
Sankar Prosad Mitra, M.A. (Cantab), Bar-at-
Law.
Sheriff, S. C. Ray.
Registrar (Original Side), Sachindranath
Banerjee, M.A., LL.B.
Registrar (Appellate Side), K. C. Sen, M.A., LL.B.
Official Assignee and Official Receiver, M. M. Chakraburty.

PONDICHERRY

ADMINISTRATIVE PERSONNEL

Secretariat
Chief Commissioner : L. R. S. Singh.
Chief Secretary : A. Krishnaswami, I.A.S.
Secretary, General Administration : T. K. Ramakrishnan.
Secretary, Development Departments : C. S. Seshadri, I.A.S.
Secretaire aux Affaires Politiques Legislation et Sante : E. Tetia.
Finance Secretary : R. Subrahmanian.
Legal Secretary : B. R. Chakravarti.
Deputy Secretary (G.A.) & Chef du Cabinet : K. S. Seshan.
Under Secretary (G.A.) : C. Ramon.
Under Secretaries (Development Department) : R. Krishnaswamy; P. K. Mahalevan.
Under Secretary (Finance) : S. Subramaniam.
Registrar : K. Venkataraman.

Principal Officials
Chief of Judicial Service : R. Mariadasson.
Inspector General of Police : S. Palaniappan.
Chief of Political Affairs : Marcel Saint Andre.
Controller of Imports & Exports : J. K. Sarkar.
Collector of Customs and Central Excise : S. B. Palekar.
Director of P.W.D. : Mathai Jacob.
Director of Electricity : P. K. Narayana Rao.
Revenue Officer: Amir Mohamed.
Director of Medical Services : Dr. P. Soucou.
Director of Public Instruction : Rollin Parandjody.
Registrar of Co-operative Societies, A. Pushparaj.
Pay and Accounts Officer, T. K. Krishna Ayyar.
Port Officer : A. Sivaraman.
Director of Agriculture : P. Syed Mohamed.
Director of Fisheries : E. K. Mathavan.
Director of Industries, Dr. M. I. Mathews.
Block Development Officer : P. Lurdswamy.
Asstt. Development Officer : C. D. Dayal.
Director of Animal Husbandry : Dr. Sandou.
Director of Government Press : S. Ananda Dom.
Resident Engineer (New Pier Project) : G. S. Ramanathan.
Public Relations Officer: Lokenath Bhattacharya.
Asstt. Employment Officer : D. Muniswami.
Public Prosecutor : Abel Clovis.
President of Labour Tribunal : A. Davi
Superintendent of Police, Karaikal : A
swamy.
Conservateur des Hypotheques : A. Cattou
Principal, School of Arts : A. Narayanas
Field Publicity Officer : V. Krishnamurt
Harijan Welfare Officer : N. Doraiswam
Controller of Prison, Pondicherry : S
Statistical Officer : Ajaib Singh.

JUDGES
Judges : A. Tamby, L. Caillard, S. Siva Ko
dattin, J. Gnany, Abraham Mou
Michel, Ramalingame, Francois Andr
Soundiramourty.

ADMINISTRATORS
Administrator of Karikal : G. B. Deshpand
Administrator of Mahe : G. P. Mathur.
Administrator of Yanam : S. Sundaramurt

MEDICAL COLLEGE
Principal : H. N. Bhatt.

GOVERNMENT OF INDIA PERSONNEL

PRESIDENT

Dr. Rajendra Prasad

OFFICE OF THE SECRETARY TO THE PRESIDENT

Secretary, A. V. Pai, I.C.S.
Under Secretary, V. J. Moore.

PERSONAL STAFF

Press Attache, R. L. Handa.
Addl. Private Secretary, V. Verma.
Personal Secretary, Gyanvati Darbar.

OFFICE OF THE MILITARY SECRETARY TO THE PRESIDENT

Mil Secretary, Maj.-Gen. Harnarain Singh.
Dy. Mil. Secretary, Lt.-Col. M. Ghufran, A.S.C.
Surgeon, Lt.-Col. S. S. Maitra.
Comptroller of the Household, Lt.-Col. Harnath Singh.
Under-Secretary, B. Chatterjee.
Aides-de-Camp, Flt. Lt. B. R. Kapoor; Capt. (Ag.) P. S. Lama; Lieut. M. Pratap, I.N.; Capt S. A. Sawhney.
A.D.C., Sub-Maj. & Hony. Capt. Motilal Gurmung, M.C., 2nd Bn., 4th Gorkha Rifles; Sub-Maj. & Hony. Lt. Harak Singh, M.C., 15 Bn., The Kumaon Regt.; Ris.-Maj and Hony. Lt. Ganpat Singh, M.C., 2nd Lancers (Gardner's H.).

PRESIDENT'S BODYGUARD

Chief Commandant, Maj.-Gen. Yadunath Singh, M.V.C.
Commandant, Maj. M. Mirza.
Second-in-Command, Capt. M. K. Bhawani Singh, 3rd Cavalry.

Press of the President of India, Rashtrapati Bhavan, New Delhi.

Superintendent, S. S. Malhotra.
General Foreman, Munshi Ram.
Senior Readers, Hari Mohan, Banerjee.

VICE-PRESIDENT

Vice-President, Dr. Sarvepalli Radhakrishnan.

VICE-PRESIDENT'S SECRETARIAT

Assistant Private Secretary to the Vice-President, S. Natesa Sastry, B.A.

Personal Assistant to the Vice-President, K. R. Gupta.

MEMBERS OF THE CABINET

Prime Minister and Minister of External Affairs and also in-charge of the Department of Atomic Energy, Jawaharlal Nehru.
Minister of Home Affairs, Govind Ballabh Pant.
Minister of Commerce & Industry, Lal Bahadur Shastri.
Minister of Railways, Jagjivan Ram.
Minister of Labour & Employment and Planning, Gulzari Lal Nanda.
Minister of Finance, Morarji R. Desai.
Minister of Transport and Communications, S. K. Patil.
Minister of Steel, Mines & Fuel, Sardar Swaran Singh.
Minister of Works, Housing & Supply, K. C. Reddy.
Minister of Food & Agriculture, Ajit Prasad Jain.
Minister of Defence, V. K. Krishna Menon.
Minister of Irrigation & Power, Hafiz Mohammad Ibrahim.
Minister of Law, A. K. Sen.

MINISTERS OF STATE

Minister of Parliamentary Affairs, S. N. Sinha.
Minister of Information and Broadcasting, Dr. B. V. Keskar.
Minister of Health, D. P. Karmarkar.
Minister of Co-operation, Dr. P. S. Deshmukh.
Minister of Mines & Oil, K. D. Malaviya.
Minister of Rehabilitation and Minority Affairs, Mehr Chand Khanna.
Minister of Commerce, Nityanand Kanungo.
Minister of State in the Ministry of Transport and Communications, Raj Bahadur.
Minister of State in the Ministry of Home Affairs, B. N. Datar.
Minister of Industry, Manubhai Shah.
Minister of Community Development, S. K. Dey.
Minister of Education, Dr. K. L. Shrimali.
Minister of Scientific Research and Cultural Affairs, Humayun Kabir.
Minister of Revenue & Civil Expenditure, B. Gopala Reddi.

DEPUTY MINISTERS

Deputy Minister of Defence, Sardar S. S. Majithia.
Deputy Minister of Labour, Abid Ali.
Deputy Minister of Works, Housing and Supply, Anil Kumar Chanda.
Deputy Minister of Agriculture, M. V. Krishnappa
Deputy Minister of Irrigation & Power, Jaisukhlal Hathi.
Deputy Minister of Commerce & Industry, Satish Chandra.
Deputy Minister of Planning, Shyam Nandan Mishra
Deputy Minister of Finance, Bali Ram Bhagat.
Deputy Minister of Scientific Research and Cultural Affairs, Dr. Mono Mohan Das.
Deputy Minister of Railways, Shah Nawaz Khan
Deputy Minister of External Affairs, Shrimati Lakshmi N. Menon.
Deputy Minister of Home Affairs, Shrimati Violet Alva.
Deputy Minister, Defence, K. Raghuramaiah.
Deputy Minister, Food, A. M. Thomas.
Deputy Minister of Law, R. M. Hajarnavis
Deputy Minister of Railways, S. V. Ramaswamy.
Deputy Minister of Civil Aviation, Ahmed Mohiuddin.
Deputy Minister of Finance, Shrimati Tarkeshwari Sinha.
Deputy Minister of Rehabilitation, Purnendu Sekhar Naskar.

PARLIAMENTARY SECRETARIES

External Affairs, J. N. Hazarika, Sadath Ali Khan.
Information and Broadcasting, G. Rajagopalan.
Planning, Labour, Employment, L. N. Mishra.
Defence, F. P. Gaekwad.
Community Development, B. S. Murthy.
Information & Broadcasting, A. C. Joshi.
Steel, Mines & Fuel, G. P. Sinha.

PRIME MINISTER'S SECRETARIAT

Principal Private Secretary, K. Ram, I.C.S.
Private Secretary (Administration), M. L. Bazaz.
Private Secretary (Public), S. P. Khanna.
Private Secretary (Personal), C. R. Srinivasan.
Asst. Private Secretaries, N. K. Seshan; R. K. Goel.

CABINET SECRETARIAT

CIVIL WING

Secretary, Vishnu Sahay, I.C.S.
Hon. Statistical Adviser to the Cabinet, Prof. P. C. Mahalanobis, F.R.S.
Dy. Secretary, S. K. Bose, I.A.S.
Under Secretaries, Raja Ram; Hit Prakash; Ramesh Chandra, I.A.S.

MILITARY WING

Deputy Secretary, Captain N. Krishnan, D.S.C., I.N. (Commodore 2nd Class).
Staff Officers, Commander Satyindra Singh, I.N.; Lt.-Col. A. M. Vohra; W/Cdr. K. G. Raman.
Joint Intelligence Planning Staff, Lt.-Col. Gurbaus Singh, W/Cdr. J. S. Bolarya; W/Cdr. K. S. Bhatt, Lt.-Col. H. S. Kapur; Commander N. P. Patta.

JOINT COMMUNICATIONS ELECTRONICS COMMITTEE

Major K. S. Gill.
Captain P. N. Kapoor,
Lt. (I.N.) G. K. Nadkar.
S/Ldr. S. P. Singh.

CENTRAL STATISTICAL ORGANISATION

Jt. Dir. (Co-ordination), S. Subramanian.
Jt. Dir. (Standards), S. K. Bose, I.A.S.
Deputy Directors, M. P. Srivastava; Jagdish Prasad.

NATIONAL INCOME UNIT

Research Officer, K. N. C. Pillai.

NATIONAL SAMPLE SURVEY

Chief Director, S. P. Sinha.

RAJYA SABHA SECRETARIAT

Chairman, Dr. S. Radhakrishnan.
Deputy Chairman, S. V. Krishnamoorthy Rao.
Secretary, S. N. Mukerjee.
Deputy Secretary, B. N. Banerjee.
Under Secretaries, P. N. Krishna Mani; I. Krishna; L. M. Dutt; M. S. Panigrahi.
Hony. Secretary and Welfare Officer, M. A. Amladi.
Pay and Accounts Officer, D. S. Bist.

LOK SABHA SECRETARIAT

Speaker, Ananthasayanam Ayyangar.
Deputy Speaker, Hukam Singh.
Secretary, M. N. Kaul.
Joint Secretary, S. L. Shakdher
Deputy Secretaries, N. C. Nandi, V. Subramanian; N. N. Mallya; H. N. Trivedi; A. R. Surali; A. S. Rikhy, V. Narasimhan.
Under-Secretaries, Babu Mal; E. Andrews; Chand Narain; A. L. Rai; P. K. Patnaik; C. S. Swaminathan; B. B. Tewari; R. C. Ghei; R. P. Kaushik; P. N. Dadlani.

SECRETARIAT

DEPARTMENT OF ATOMIC ENERGY, APOLLO PIER ROAD, BOMBAY 1

Minister, Jawaharlal Nehru.
Secretary, Dr. H. J. Bhabha, D.Sc., F.R.S.
Joint Secretary, V. M. Parulekar
Geological Adviser, Dr. D. N. Wadia, D.Sc., F.R.S.
Director, Atomic Minerals Division, Dr. P. K. Ghosh.

Atomic Energy Commission (Bombay)

Chairman (ex-officio), Dr. H. J. Bhabha, D.Sc., F.R.S.
Member for Finance and Administration, Dr. P. N. Thapar, I.C.S.
Member, Dr. K. S. Krishnan, F.R.S.

DEPARTMENT OF PARLIAMENTARY AFFAIRS, 90, PARLIAMENT HOUSE, NEW DELHI 2

Minister-in-Charge, Satya Narayan Sinha.
Secretary, N. K. Bhojwani, B.A., B.Sc. (Econ.).
Under Secretary, Kailash Chandra.
Private Secretary to the Minister, R. P. Sinha.

MINISTRY OF COMMERCE AND INDUSTRY

Minister, Lal Bahadur Shastri.
Minister of Commerce, Nityanand Kanungo.
Minister of Industry, Manubhai Shah.
Deputy Minister, Satish Chandra.
Secretary, S. Ranganathan, I.C.S.
Special Secretary, L. K. Jha, I.C.S.
Jt. Secretaries, K. B. Lall, I.C.S.; C. S. Ramachandran, I.C.S.; N. Subrahmanyam, I.C.S.; A. Zaman, I.C.S.; C. S. D. Sandilya; B. B. Saksena; K. V. Venkatachalam.

DEVELOPMENT WING

Chief Industrial Adviser, Dr. A. Nagaraja Rao.

CHEMICAL DIVISION

Industrial Adviser, Dr. G. P. Kane.

ENGINEERING DIVISION

Industrial Adviser, Dr. B. D. Kaleikar.

DEVELOPMENT OFFICERS

Development Officers : Dr. A. N. Kapur, Dr. S. P. Varma, Dr. A. Seetharamiah, R. K. Gejji, K. Srinivasa Rao, V. P. S. Menon, F. V. Badami, N. Srinivasan, S. K. Sinha, S. C. Nundy, N. Krishnaswami, M. M. Vadi, C. J. Shah.

ADMN. & CO-ORDINATION

Deputy Director (Admn.), V. Natesan *(on leave)*; P. V. B. Menon *(Offg.)*.

Deputy Director (Co-ordination), M. L. Srivastava.

Department of Company Law Administration

Deputy Minister, Satish Chandra.

Secretary, D. L. Mazumdar, I.C.S.

Chairman, Company Law Advisory Commission, Tenetti Viswanathan.

Joint Secretary, K. R. P. Aiyangar, I.A. & A.S.

Deputy Secretaries, C. P. Gupta, I.C.S.; J. L. Kundu, I.A.S.; K. M. Hanbarhatty.

Northern Region

Regional Director, Kanpur, I. Ram Chandra Rao, I.A.S.

Registrar of Companies, Uttar Pradesh, Lucknow, M. A. Rasheed.

Registrar of Companies, Punjab and Himachal Pradesh, Des Raj Nanda.

Registrar of Companies, Delhi, B. P. Roy.

Registrar of Companies, Rajasthan, A. R. Khari.

Western Region

Regional Director, Bombay, H. Nanjundiah, I.A.S.

Registrar of Companies, Bombay, S. Venkataraman, B.A., A.C.A.

Registrar of Companies, Madhya Pradesh, Gwalior, K. M. Bhonsle, M.A., LL.B.

Eastern Region

Regional Director, Calcutta, V. Satyamurti, I.R.S.

Registrar of Companies, West Bengal, Calcutta, M. V. Vererkar.

Registrar of Companies, Assam, H. S. Kamlani.

Registrar of Companies, Orissa, M. B. Rao.

Registrar of Companies, Bihar, P. K. Majumdar.

Southern Region

Regional Director, Madras, K. Srinivasan, I.A.S.

Registrar of Companies, Madras, C. S. Vidyasankaran.

Registrar of Companies, Andhra Pradesh, P. K. Sahani.

Registrar of Companies, Kerala, Trivandrum, T. J. Ghondalekar.

Registrar of Companies, Mysore, K. K. Syed Mohd.

Office of the Economic Adviser to the Government of India, Udyog Bhavan, King Edward Road, New Delhi.

Dy. Economic Adviser to Govt., V. K. Ramaswami.

Asstt. Economic Advisers, Dr. A. K. Ghosh, B. Sitaraman.

Deputy Statistician, G. D. Mathur.

Chief Research Officers, N. K. Das; A. S. L. Rao.

Administrative Officer, R. R. Agarwal.

Office of the Chief Controller of Imports and Exports, New Delhi.

Chief Controller, S. N. Bilgrami, I.A.S.

Joint Chief Controllers, S. K. Sinha, I.A.S.; M. P. Alexander.

Director (Administration), D. R. Sundaram, I.A.S.

Deputy Chief Controllers, Mela Ram Bharadwaj; P. S. Veeraraghavan; A. S. Sethi; M. L. Gupta; Lt.-Col. Dharampal Singh; Ram Murti Sharma; P. C. Nanda.

Statistical Officers, K. L. Saxena, B. C. Sharma.

Controllers, Ganga Singh; M. R. Baveja; M. B. Lall; Hargundass; S. R. Banerjee; S. M. Banerjee; M. Veeraraghavan; E. M. Jayarajan; S. P. Chopra; H. S. Sahni; S. Ganguli; O. N. Anand; Mahavir Singh; Sardul Singh; Kanwar Lal.

OFFICE OF THE DY. CHIEF CONTROLLER OF IMPORTS AND EXPORTS, CENTRAL LICENSING AREA, NEW DELHI.

Dy. Chief Controller, J. S. Bakshi.

Controllers, Sarvashri P. M. Nair, D. P. Agrawal, Dharam Vir, Sampuran Singh.

OFFICE OF THE JT. CHIEF CONTROLLER OF IMPORTS AND EXPORTS.

Gulam Mohamed Bldg., Nicol Road, Ballard Estate, Bombay.

Jt. Chief Controller, S. G. Varadkar.

Dy. Chief Controllers, N. H. Nagarwalla; K. V. Dave; I. R. Kalkar; G. H. Hatalkar; J. S. Bedi.

Controllers, B. M. Nair, Smt. M. D. Costa, K. N. R. Pillai, Capt. H. P. Dube, D. S. Kaluskar, K. Jayaraman, M. V. Khanolkar, K. J. Cheriyan, R. R. Kripalani, M. I. Patel, H. L. Mansukhani, D. D. Bhargava, G. S. Sharma, S. K. Guha, K. G. Narainsinghai.

OFFICE OF THE JOINT CHIEF CONTROLLER OF IMPORTS AND EXPORTS

4, Esplanade East, Calcutta 1.

Joint Chief Controller of Imports and Exports, A. P. Mathur.

Deputy Chief Controllers of Imports and Exports, V. C. Naidu; I. Chatterjee; Mohinder Singh.

Controllers of Imports and Exports, J. Mukherji; P. K. Biswas; S. K. Bhattacharya; K. S. Nagarkatti; A. L. Bhalla; J. Chatterjee; J. P. Mullick; P. K. Ghosh.

Export Promotion Officer (Sr.), Mica and Controller of Imports and Exports, N. C. Banerjee.

OFFICE OF THE DY. CHIEF CONTROLLER OF IMPORTS AND EXPORTS, COCHIN 3.

Dy. Chief Controller of Imports and Exports, Cochin, K. I. Thomas.

Assistant Controller of Imports, Cochin, B. K. Biswas.

Asstt. Controller of Exports, R. K. Krishnan.

OFFICE OF THE JOINT CHIEF CONTROLLER OF IMPORTS AND EXPORTS, POST BOX NO. 1842, 19/20, LINGHI CHETTY STREET, MADRAS 1.

Joint Chief Controller of Imports and Exports, K. Rangaswami.

Dy. Chief Controller of Exports & Imports, Nawal Kishore.

Controllers of Imports and Exports, K. V. Baskaran; H. Natesan; T. V. J. Pillai; G. Murlidhar Rao; V. N. Pillai; T. S. Menon.

Asstt. Controller (Administration), S. Rajagopalan.

OFFICE OF THE IMPORT TRADE CONTROLLER, RAJKOT.

Import-Export Trade Controller, A. G. Joshi, B.A.

Asstt. Controller of Imports & Exports, H. D. Bakhai, B.Com.

OFFICE OF THE EXPORT TRADE CONTROLLER, AMRITSAR.

Assistant Controller of Exports, H. D. Gupta.

OFFICE OF THE EXPORT TRADE CONTROLLER, SHILLONG.

Export Trade Controller for Assam & Manipur in Ex-Officio capacity as Collector of Central Excise & Land Customs for Assam, Tripura and Manipur, Headquarters, Shillong, A. K. Roy, B.Sc., Hons. (Alld.), I.R.S.

Office of the Controller of Patents & Designs, 214, Lower Circular Road, Calcutta.

Controller of Patents & Designs, H. N. Ghosh, B.E. *(on leave preparatory to retirement)*.

Deputy Controllers of Patents & Designs, Dr. N. N. Chatterjee, D.Sc. *(Offg.)*; B. N. Atrishi, M.Sc., LL.B.

Office of the Custodian of Enemy Property

Kaiser-I-Hind Bldg., Currimbhoy Road, P. B. No. 669, Bombay 1.

Controller of Enemy Firms and Enemy Trading and Custodian of Enemy Property, E. N. Philips.

Assistant Custodian of Enemy Property, M. K. Rangachari.

Superintendent, K. E. Movdawala.

Office of the Director of Industrial Statistics, 1, Council House Street, Calcutta 1.

Director, Prof. H. Ghosh.

Deputy Directors, M. V. Nilakanta Ayyar; I. C. Mittra; S. G. Rao.

Asstt. Director, Harish Chandra.

Office of the Iron & Steel Controller, 33, Netaji Subhas Road, Calcutta

Iron & Steel Controller, A. S. Bam, I.C.S.

Price & Accounts Officer, D. D. Dingra.

Dy. Iron & Steel Controller (Co-ordination), S. Banerjee.

Officer on Special Duty & Ex-Officio Dy. Iron & Steel Controller, S. C. Mukherjee.

Dy. Price and Accounts Officers, R. Srinivasan, K. N. Murthi.

Dy. Director (Admn.), C. B. Mathur.

Office of the Deputy Iron and Steel Controller, Bombay

Deputy Iron and Steel Controller, Lt.-Col. O. G. Rajen.

Asstt. Iron and Steel Controller (Grade I), S. S. Vishwanathan.

Asstt. Iron and Steel Controller (Grade II), Vacant.

Office of the Deputy Iron and Steel Controller, Madras

Deputy Iron and Steel Controller, Vacant

Asstt. Iron and Steel Controller (Grade I), K. Senthiappan.

Forward Markets Commission, 'Everest', 3rd Floor, 100, Marine Drive, Bombay-2

Chairman, W. R. Natu, B.A. (Ben.), B.Sc. (Econ.) (London) *(on leave)*.

Chairman, R. Doraiswamy, B.A. (Hons.) (Madras), M.Sc. (Econ.) (London), I.A.S.

Members, A. S. Rao, M.A., LL.B.; M. V. Mulky, M.A., LL.B., M.Sc. (Econ.) (London).

Secretary, A. D. Dave, B.Com., A.C.A., I.A.S.

The National Small Industries Corp. Private Ltd., Rani Jhansi Road (M. M. Road), New Delhi

Managing Director, A. S. E. Iyer

Manager (Government Purchase Division), P. C. Basu.

Manager (Projects Division), Sagar Chand.

Manager (Industrial Estates Division), Col. V. Nehra.

Additional Manager (Hire Purchase Division), S. J. Rege.

Manager (Marketing Division), Baldev Singh.

Secretary, S. K. Chakraborty.

Small Scale Industries, Block No. 5, Shahjehan Road Hutments, New Delhi

Development Commissioner, Sayad Ashfaque Husain.

Joint Development Commissioner, Dr. A. S. Sharma.

Joint Development Commissioner (Industrial Estates), M. Bhatnagar.

Development Officers, L. N. Renu, K. L. Nanjappa, R. V. Ramiah.

Regional Director, Small Industries Service Institute, New Delhi, P. L. Sahgal.

Regional Director, Small Industries Service Institute, Madras, P. Govinda Menon.

Regional Director, Small Industries Service Institute, Calcutta, K. S. Roychowdhury.

Joint Development Commissioner, New Delhi, H. K. Mathur, I.A.S.

Joint Development Commissioner, Bombay, N. Swami, I.A.S.

Joint Development Commissioner, Secunderabad, E. P. Raju.

Joint Development Commissioner, Calcutta, D. K. Bhattacharya, I.A.S.

Joint Development Commissioner, Madras, P. Sabhyanayagam, I.A.S.

Small Industries Service Institute, 56, Sunder Nagar, New Delhi

Director, P. L. Sahgal.

Industrial Designer, P. Kallanpur.

Deputy Director (Industrial Investigation), V. Sawhney.

Deputy Director (*Business Management*), Harkishen Singh.
Deputy Director (*Industrial Investigation*), N. R. Bannerjee.
Deputy Director (*Ancillary Industries*), Major S. K. Kaycee.
Deputy Directors, D. S. Mahule (*Machinist*); H. N. Gupta (*Leather*); M. Narain Swamy (*Foundry*); Hari Dutt (*Ceramics*); R. Guha (*Industrial Colonies & Construction*).

Central Silk Board, Triangular Motors Bldgs., No. 15, Queen's Road, Bombay 4

Chairman D. S. Joshi, I.C.S.
Secretary, A. T. Janakiraman, B.Sc.
Assistant Secretary (*Administration*), A. R. Takyar, B.A.
Assistant Secretary (*Technical*), S. R. Ullal, B.Sc.

The Rubber Board, Kottayam (Kerala State)

Chairman, N. Sankara Menon, I.A.S.
Rubber Production Commissioner, K. N. Kaimal.
Secretary, N. Krishna Pillai.

Tea Board, 27 & 28, Brabourne Road, Calcutta 1

Chairman, U. K. Ghoshal, I.C.S.
Vice-Chairman, B. C. Ghosh.
Dy. Chairman, B. R. Vohra, I.A.S.
Secretary, Amar Kanta Sen.
Director of Propaganda, J. Mukerjee.
Finance Officer, J. C. Mukherjee.

Coffee Board, Bangalore

Chairman, K. Srinivasan, I.A.S. (Retd.).
Director of Research, Dr. B. T. Narayanan.
Development Officer, C. B. Shankra Iyer, I.A.S.
Chief Coffee Marketing Officer, M. R. Parthasarathy.
Secretary, M. P. Appu Menon.
Accounts Officer, C. R. Subramanian.
Deputy Chief Coffee Marketing Officer, C. V. Subramanian.
Deputy Director of Propaganda, C. Subramanya Sastry.

Office of the Textile Commissioner, Bombay

Textile Commissioner, D. S. Joshi, I.C.S.
Dy. Textile Commissioner, V. Subramanian, M.A., LL.B., I.A.S.

BRANCH SECRETARIAT, ADMINISTRATION AND CO-ORDINATION BRANCHES

Under-Secretaries to the Government of India, P. S. Nayar, M.A., T. S. Ramaswami.

CONTROL BRANCH

Asstt. Director (*Grade I*), A. N. Ramachan[illegible], B.A.

PRODUCTION & DEVELOPMENT BRANCH

Industrial Adviser (*Textile Production*), N. Majumder, B.Sc. (Hons.), M.Sc. (Tech.) (Manch.).
Directors, Dr. S. R. Ramachandran, M.Sc., Ph.D.; I. B. Dutt, B.Sc., L.T.M., M.Sc. (Tech.) (Manch.).

CLOTH & YARN BRANCH

Dy. Director, H. A. G. Bagalkot, M.A.

ECONOMICS BRANCH

Dy. Directors, P. K. Bhaumick, M.Sc.; R. Seshadri, B.Sc., A.C.W.A.; R. G. Zalani, B.A., L.T.M.

TRANSPORT BRANCH

Asstt. Director, V. K. Kale, B.A., LL.B.

WOOL AND ART SILK BRANCH

Deputy Director, Dharam Dev, B.A., D.L.U. (Textile) (Leeds).

COTTON BRANCH

Director, R. D. Shah, B.Com.

REGIONAL DIRECTORATE OF PRODUCTION, BOMBAY

Deputy Director, H. L. Dutt, A.B.T.I.

REGIONAL DIRECTORATE OF PRODUCTION, AHMEDABAD

Director, N. M. Mukerjee, L.T.M., A.T.I. (Manch.).

REGIONAL DIRECTORATE OF PRODUCTION, INDORE

Asstt. Director, B. B. Majumdar.

REGIONAL DIRECTORATE OF PRODUCTION, KANPUR

Asstt. Directors, M. P. Avasthy; J. N. Mukerji.

REGIONAL DIRECTORATE OF PRODUCTION, CALCUTTA

Deputy Director, A. K. Das Gupta, B.Sc. (Cal.), B.Sc. (Tech.) (Manch.), A.T.I. (Manch.).

REGIONAL DIRECTORATE OF PRODUCTION, COIMBATORE

Dy. Director, M. C. Dutt.
Asstt. Director, R. Jagannathan, B.Sc. (Tech.).

All-India Handloom Board

REGIONAL OFFICE, NEW DELHI

Assistant Director (*Grade I*), D. N. Nandy.
Assistant Director (*Grade II*), E Shri Ram.

SUB-REGIONAL OFFICE, INDORE

Assistant Director (*Grade I*), V. N. Moralwar, L.T.M.

REGIONAL OFFICE, CALCUTTA

Assistant Director (*Grade II*), H. K. Bhattacharya.

REGIONAL OFFICE, MADRAS

Joint Development Commissioner-cum-Deputy Textile Commissioner (*Handlooms*), P. Sabhyanayagam, B.A., I.A.S.

REGIONAL OFFICE, BOMBAY

Dy. Director, R. Viswanathan.

REGIONAL OFFICE, SECUNDERABAD

Deputy Director, M. P. Madar.

SUB-REGIONAL OFFICE, KANPUR

Deputy Director, N. N. Tikku.

SUB-REGIONAL OFFICE, AMRITSAR

Assistant Director (*Grade I*), S. S. Aggarwal, B.A.

SUB-REGIONAL OFFICE, GAUHATI

Assistant Director (*Grade II*), B. N. Basu, B.Sc.

SUB-REGIONAL OFFICE, PATNA

Assistant Director (*Grade II*), S. K. Chatterjee, B.Sc.

SUB-REGIONAL OFFICE, JAIPUR

Asstt. Director, M. M. Saini.

SUB-REGIONAL OFFICE, BHUBANESWAR

Assistant Director (*Grade II*), K. K. Domnic.

SUB-REGIONAL OFFICE, TRIVANDRUM

Dy. Director, K. P. Ra[illegible]akrishna Menon.

SUB-REGIONAL OFFICE, RAJKOT

Assistant Director (*Grade II*), S. L. Parajia.

SUB-REGIONAL OFFICE, NAGPUR

Assistant Director (*Grade I*), P. R. Chaukar.

SUB-REGIONAL OFFICE, BANGALORE

Assistant Director (*Grade II*), B. V. T. Iyengar, B.A., LL.B.

SECRETARIAT, BOMBAY

Chairman, D. S. Joshi, I.C.S.
Deputy Textile Commissioner (*Handlooms*) *on Foreign Service*, A. S. E. Iyer.
Deputy Textile Commissioner (*Handlooms*) (*on leave preparatory to retirement*), K. A. Padmanabhan, M.A.
Deputy Director, N. Ramaswamy.
Deputy Director, N. K. Vinayakam, B.A., B.L.
Assistant Directors (*Grade I*), S. R. Ramakrishnan, B.A., B.L.; M. Padmanabhan, B.A. (Hons.).
Exhibition Officer, V. V. Deo.
Senior Accounts Officer, T. N. Chari.
Accounts Officer, K. B. Menon.

CENTRAL WEAVING INSTITUTE, BANARAS

Research Officer, J. C. Seth, L.T.M. (Hons.).

DESIGNS, BOMBAY

Honorary Industrial Advisor (*Textile Designs*), Smt. Pupul Jayakar.
Director, M. S. Ramnath.
Deputy Director, Kumari Shona Ray.

DESIGNS, MADRAS

Deputy Director, U. B. Hanumantha Rao,

The State Trading Corporation of India (Private) Limited, Post Box No. 79, New Delhi 1

Chairman, K. B. Lall, I.C.S.
Managing Director, D. Sandilya, I.R.A.S.
Directors, Satish Chandra, I.C.S; N. Subrahmanian, I.C.S.; V. N. Rajan, I.C.S.; Nagendra Singh, I.C.S.; H. D Singh; K. L. Ghei, I.R.A.S.
Secretary, Harbans Singh, I.A.S.
Regional Managers, E. C. Sankar (*Madras*), R N. Samarth (*Bombay*), B. C. Mallik (*Calcutta*).

Department of Commercial Intelligence and Statistics, 1, Council House Street, Calcutta 1

Director-General of Commercial Intelligence and Statistics, C. R. B. Menon.
Deputy Directors-General, Vacant; P. C. Kurian; V. Bhanukoli.
Asstt. Directors, B. K Sen; P. Bishayee.
Research Officers, A. S. K. S. V. S. Prakasa Rao; R N Ghosh, M. Majumdar; A. K. Ray; G. P Bhattacharji.

Tariff Commission, Central Govt. Offices Bldgs., 101, Queen's Road, Bombay 1

Chairman, C Ramasubbiah, M.A.
Members, Dr. S K. Muranjan, D.Sc. (Lond.); J. N. Dutta; R. S Bhat, M.A. (Lond.).
Secretary, Dr. Rama Varma, Ph.D.

Khadi and Village Industries Commission: Royal Insurance Bldg., 4th Floor, Jamshedji Tata Road, Bombay 1

Members of the Commission:
Chairman, Vaikunth L. Mehta.
Member-Secretary, Pranlal S. Kapadia.
Member-in-charge (*Khadi*), Dwarkanath V. Lele.
Member-in-charge (*Village Industries and C.P.A. Affairs*), R. Srinivasan.
Member, Shriman Narayan.
Members of the Khadi Board:
Member-in-charge (*Sales Development*), Vithaldas V. Jerajani.
Member-in-charge (*Intensive Area Schemes and Village Oil Industry*), Jhaverbhai Patel.
Member-in-charge (*Cottage Match Industry and Central Village Industries Research Institute*), Satish Chandra Das Gupta.
Member-in-charge (*Processing of Cereals*), Raojibhai N. Patel.
Important Officials of the Commission:
Chief Executive Officer, K. T. Satarawala, I.A.S.
Dy. Chief Executive Officer, B. P. Umarji.
Director of Economic Research, Dr. J. D. Sundram.
Director of Training, Dhirubhai Manibhai Desai.
Director of Publicity, C. K. Narayanaswami.

Trade Marks Registry, New Marine Lines, Bombay

Registrar of Trade Marks, C. V. Nagaraja Sastri, M.A. (Oxon.), M.A. (Edin.), Barrister-at-Law.
Deputy Registrar of Trade Marks, M. L. Kapoor, B.A. (Hons.), LL.B.

Assistant Registrars of Trade Marks, A. P. Maitra, M.A., B.L.; K. V. Narasinga Rau, M.A., B.L.; S. K. Das, B.A. (Hons.), B.L.; V. G. Nair, B.A., LL.B.; A. B. Acharya, B.A., LL.B. (*Offg.*).
Administrative Officer, V. S. Krishnaswami, B.A. (*on leave*); P. Narayanan, M.A., LL.B., A.I.A. (*Offg.*).

BRANCH, CALCUTTA

Deputy Registrar of Trade Marks, S. M. Banerjee, B.Sc. (Hons.).

BRANCH, BANGALORE

Examiner & Ex. Officio Deputy Registrar of Trade Marks, V. R. Keshavaraj, B.A.

Heavy Electricals Private Limited, "Junagarh House", Post Box No. 46, Bhopal

Managing Director, S. Sarangapany.
Deputy Chief Engineer (Training), B. K. Mitter.
Deputy Chief Engineer (Mechanical), H. K. Ramanujam.
Deputy Chief Engineer (Electrical & General), N. D. M. Appa.
Deputy Chief Engineer (Civil), M. F. Beg.
Assistant Works Manager, E. J. De Sanges.
Secretary, A. P. Hariharan.
Controller of Accounts, C. S. Venugopal Rao.

Hindustan Cables Private Ltd.
P.O. Hindustan Cables.

DIST. BURDWAN, W. BENGAL.

Managing Director, K. N. R. Pillai.
Deputy General Manager, G. D. Saha.
Accounts Officer, A. K. Basu.
Administrative & Personnel Officer, B. H. Rao.
Asstt. Works Manager, K. P. Pillay.
Chief Inspector, J. Das Gupta.
Plant Supdt. & Project Engineer, S. Raghavan.
Asstt. Chief Engineer, S. P. Banerjee.
Stores & Transport Officer, M. S. Das Gupta.
Operating Superintendents, S. Roy; B. S. Prasanna, E. Asokan.
Medical Officer, Dr. S. R. Dutta Chowdhury.
Security Officer, B. R. Ghosh.

Hindustan Insecticides Private Limited, Industrial Area, Rohtak Road, New Delhi 15

Managing Director, S. S. Jaggia.
Works Manager (Delhi), S. D. Bhasin.
Works Manager (Alwaye), Vacant.
Accounts Officer-cum-Secretary, Atam Chand.
Works Engineer, S. P. Shivani.

Hindustan Machine Tools (P) Limited, Jalahalli P.O., Bangalore.

Chairman, N. R. Pillai, I.C.S.
Managing Director, M. K. Mathulla.

Hindustan Shipyard Limited.

GANDHIGRAM P. O., VISHAKAPATNAM.

Managing Director, C. R. Reddy, I.A.S.
Technical Director, J. M. Carpentier.
Chief Shipyard Manager, P. G. Morais.
Jt. Chief Shipyard Manager, H. C. Raut.
Controller of Stores, A. R. Kamala.
Chief Accountant, M. P. Gupta.
Administrative Officer, Y. S. Narayanan.
Asstt. Secretary, K. Y. Krishnamoorthy.

Hukam Foundry Private Limited, Hukam.

General Manager & Chief Engineer, C. S. Shukla, B.Sc., B.Sc. (Met.), (B.H.U.), M.I.I.M.
Manager, Ramchand Misra.
Secretary, P. K. Somanadhan.
Organiser, Agencies, Surat Ram.
Asstt. Engineer, Gurcharan Dass.

National Instruments Factory Private Ltd., 18, Wood Street, Calcutta 16.

General Manager, P. C. De, B.Sc. (Glasgow), C.P.E.
Works Manager (Prod.), L. M. De, B.Sc. (Eng.).
Works Manager (Project), A. N. Sen, M.Sc.
Commercial Manager, P. S. Paul, A.M.I.P.E., A.M.I.W.W. (London).
Secretary and Financial Controller, S. Natarajan, B.A.

Asstt. Works Managers, D. C. Roy, M.Sc., D.I.C. (London); K. R. Krishnaswamy, B.Sc. (Hons.); N. K. Ghose, B.Sc., B.E.; S. K. Sen, B.M.E., A.M.I.E.; R. R. Chakraborty, B.M.E.
Accounts Officer, S. K. Dutta, B.A. (Hons.).
Labour Officer, O. Maheepathi, M.A., D.S.W. (Cal.).

Office of the Salt Commissioner, Factory Road, New Delhi.

Salt Commissioner, R. N. Vasudeva, I.A.S.
Deputy Salt Commissioner, N. G. Mitra.
Assistant Salt Commissioners, C. L. Malhotra; U. S. Sekhon.
Accounts Officer, H. R. Ramasubbu.
Supdt. of Salt, E. S. Phadatre.

OFFICE OF THE DEPUTY SALT COMMISSIONER, EXCHANGE BLDG., SPROTT ROAD, BALLARD ESTATE, BOMBAY 1.

Deputy Salt Commissioner, K. L. Gambir, M.Sc. (Tech.).
Asstt. Salt Commissioner, B. K. Roy (Jamnagar); K. L. Sahni (Thana); Ghulam Anwar Ghulam Alli (Kharagola).

OFFICE OF THE DEPUTY SALT COMMISSIONER, NO. 1, HENSMAN ROAD, THEOGAROYANAGAR, MADRAS.

Deputy Salt Commissioner, M. K. Chatterjee (*Posted*); R. K. Das (*Offg.*).
Executive Engineer, S. Viswanathan.
Assistant Salt Commissioners, R. K. Das (*Posted*); H. N. Banerjee (*Offg.*) (Tuticorin); S. R. Bose (Kakinada).

OFFICE OF THE ASSISTANT SALT COMMISSIONER, 11, CHITTARANJAN AVENUE, CALCUTTA.

Assistant Salt Commissioner, S. K. Das Gupta.

OFFICE OF THE GENERAL MANAGER, SAMBHAR LAKE (RAJASTHAN).

General Manager, H. J. Everden.
Assistant General Manager, Joginder Singh.
Electrical & Mechanical Engineer, M. Rama Rao.
Treasury Officer, A. K. Sen Gupta.
Labour Officer, R. P. Sikka.
Assistant Civil Engineer, L. R. Mahajan.

MANDI SALT MINES, MANDI (HIMACHAL PRADESH).

Mining Engineer, R. K. Jaggia.

Hindustan Antibiotics (Private) Ltd., Pimpri (Near Poona).

Managing Director, S. T. Raja.
General Superintendent, Dr. G. Sankaran.
Superintendent (Research), Dr. K. Ganapathy.
Superintendent (Production), C. N. Chari.
Superintendent (Engineering), B. V. Raman.
Chief Mycologist, Dr. M. J. Tirumalachar.
Chief Bio-Chemist, Dr. D. Ghosh.
Purchase Officer, S. C. Das Gupta.
Asstt. Supdt. (Maintenance), B. S. Rajan.
Asstt. Supdt. (Services), S. L. Panday.
Asstt. Supdt. (Civil), H. K. Master.
Medical Officer, Dr. R. T. Khaladkar.
Accounts Officer, M. Gopalakrishna.

Sindri Fertilisers and Chemicals Limited, Sindri P.O., Dhanbad District, Bihar.

Board of Directors.

Chairman, Shri Ram.

Directors, J. J. Ghandy; B. C. Mukharji, I.C.S.; Dr. A. Nagaraja Rao (Joint Secretary, Ministry of Commerce & Industry); K. L. Ghei (Joint Secretary, Ministry of Finance); T. C. Puri, I.C.S. (Joint Secretary, Ministry of Food & Agriculture); K. Raman (Commissioner, Chotanagpur Division, Ranchi); S. K. Vaswada; Digvijaya Narain Singh, M.P.; Dr. Husain Zahir (Director, Regional Research Laboratory, Hyderabad); V. Nilakantan (Managing Director).

Administrative Staff.

Managing Director, V. Nilakantan.
Controller of Accounts, R. Srinivasan.
Officer on Special Duty (Transportation), J. N. Das.
Personnel Manager, P. C. Chakravarti.
Town Administrator, P. Das.
Public Relations Officer, S. M. Wasi.
Purchase & Sales Officer, V. Seshadri.
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Asstt. Comptroller & Auditor-General (P), Amrita Grover.
Asstt. Comptroller & Auditor-General (N), T. B. Nagarajan.
Asstt. Comptroller & Auditor-General (Report), N. C. Khanna.
Asstt. Director of Railway Audit, P. Bhattacharjee.
Officer on Special Duty, A. K. Srivastava.

India Government Mint, Bombay.

Mint Master, B. S. D. Aiyar, M.A., B.Sc. (Hons.), D.I.I.Sc. (Tech.), A.M.I.E.
Asstt. Mint Master, D. C. Mukherjee, G.I.Mech.E. (Lond.).
Accountant, D. R. Rele.
Bullion Registrar, M. R. Tanksalvala, B.Com., J.P.
Works Manager, B. M. Mistry, B.E. (Electrical), B.E. (Mech.).
Dy. Works Manager (E. & M.), H. N. Rao, B.E. (Mech.), (Mysore), A.M.I.E. (India).
Dy. Works Manager (Melting), C. E. Clarkson
Engineers, S. G. Lay; S. M. Tahseen; H. W. Travao; F. E. Hyderabadwalla, G. K. Malkani; H. Natarajan, B. S. Ransole.
Labour Officer, S. M. Dikhale, B.A.
Senior Artist Engraver, P. W. M. Brindley.

INDIA GOVERNMENT ASSAY DEPARTMENT, C/O INDIA GOVERNMENT MINT, FORT, BOMBAY

Chief Assayer, B. K. Bose, M.Sc., D.I.C., A.M.I.M.M.

India Government Mint, Calcutta 27.

Master of the Mint, A. A. J. Gomez, B.Sc. (Hons.), Eng. (London), A.C.G.I., D.I.C., A.M.I.E.
Dy Master of the Mint, P. K. Tikku, B.Eng (Sheffield).
Works Manager, N. Sinclair Jones.
Bullion Registrar, G. E. Belchambers.
Offg. Accountant, K. B. Mukherjee.
Labour Officer, S. K. Mitra, B.A.

India Government Mint, Saifabad, Hyderabad

Deputy Mint Master, V. J. Joshi, B.Sc (Eng.), M.S. (Met. Eng.), U.S.A.
Accountant, V. G. Nabar, B.Sc.
Bullion Registrar, Rasheed Ahmed.
Dy. Works Manager, H. W. Harding.

India Security Press, Nasik Road.

(INCLUDING CENTRAL STAMP STORE, AND CURRENCY NOTE PRESS)

Master, India Security Press and Ex-Officio Controller of Stamps, J. C. Dutta Gupta, B.Sc. (Engg.).
Deputy Master, India Security Press, N. D. Prabhu, B.Sc. (Engg.), A.M.I.E. (India).
Assistant Master, India Security Press, P. M. Rau, B.Sc. (Engg.), A.M.I.E. (India).
Asstt. Master (on probation), N. P. Sarnaik, L.M.E. (Hons.), L.E.E. (Hons.), Grad. I.E. (India).
Labour Officer, India Security Press, M. W. Warty, B.Com.
Head Engraver, P. B. Chitnis.
Head Engineer, V. B. Chinmulgund.
Chief Inspector, Control, D. B. Didmishe.
Senior Supervisor, S. K. Bose.

CENTRAL STAMP STORE

Deputy Controller of Stamps, R. S. Bery, B.Com.
Assistant Controller of Stamps, Janardan Datta.

CURRENCY NOTE PRESS

Deputy Master, Currency Note Press, M. S. Pathak, B.Sc., B.E. (Elec.) & B.E. (Mech.).
Assistant Master, Currency Note Press, M. B. Kapur, A.M.I.Mech.E., A.M.I.E. (India).
Chief Inspector, T. N. Advani, B.Sc.
Senior Supervisor, Technical, V. R. Godbole.

Industrial Finance Corporation of India, Reserve Bank Building, Parliament Street, New Delhi

Directors on the Board of the Corporation, L. K. Jha, I.C.S.; B. Venkatappiah; S. K. Basu; S. P. Virmani; M. Ct. Muthiah; S. V. Ramamurthy; S. C. Roy; L. S. Vaidyanathan; V. P. Varde; G. D. Ambekar; R. M. Deshmukh, M.P.
Chairman, K. R. K. Menon.
Secretary, Dalip Singh.
General Manager, H. V. Venkatasubbiah.
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Calcutta Office:—P-11, Mission Row Extension, 3rd floor, Calcutta.
Madras Office:—38, Whites Road, Royapettah, Madras 14.

Rehabilitation Finance Administration, Church Road, New Delhi-2

Chief Administrator, P. C. Das Gupta.
Dy. Chief Administrator, N. L. Chatterjee.
Chief Accountant, D. L. Sondhi.
Law Officer, S. Saran Singh.

Office of the Accountant-General, Central Revenues, Curzon Road Barracks, New Delhi

Accountant-General, S. Venkataramanan.
Sr. Deputy Accountants-General, K. C. Nayar; R. Joshi.
Dy. Accountants-General, R. Ganapati; T. C. Puri; M. N. Patnaik, H. S. Samuel.
Assistant Accountants-General, R. R. Gupta; V. R. Ramamurthi; Kumari Prem Lal; T. P. Khosla; A. K. Jain.

Office of the Accountant-General, Posts and Telegraphs, Simla

A. G., Kali Charan, I.A. & A.S.
D.A.G., V. Devidas Acharya, I.A. & A.S.
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Dy. Accountant-General, P. R. Mukherji.

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Office of the Deputy Accountant-General, Posts and Telegraphs, Nagpur

Deputy Accountant-General, R. T. Chari, I.A. & A.S.

Office of the Assistant Accountant-General, Posts & Telegraphs (Hyderabad)

Asstt. Accountant-General, J. Veeraraghavan, I.A. & A.S.
Asstt. Accounts Officers, T. Raghunathan; V. Krishnaswamy.

Office of the Director of Audit, Defence Services, New Delhi

Director of Audit, S. Natarajan.

Railway Audit Offices

Northern Railway

Chief Auditor, J. R. Suri, I.A. & A.S.
Deputy Chief Auditors, L. C. Nayar, I.A. & A.S.; R. N. Srivatsava, I.A. & A.S.

Western Railway

Chief Auditor, G. Narayanaswamy.
Dy. Chief Auditor, S. L. Brahmachary, I.A. & A.S.
Asstt. Chief Auditor, R. S. Gupta, I.A. & A.S.

Eastern Railway

Chief Auditor, S. Sundaram, I.A. & A.S.
Deputy Chief Auditors, S. Ramachandran, I.A. & A.S.; C. R. Mukherjee, I.A. & A.S.

South-Eastern Railway

Chief Auditor, E. R. Allen Dent, I.A. & A.S.
Dy. Chief Auditor, Amitabha Ghosh, I.A. & A.S.

North-Eastern Railway

Chief Auditor, K. J. Chandwani, I.A. & A.S.
Dy Chief Auditor, H. M. S. Bhatnagar, I.A. & A.S.

Central Railway

Chief Auditor, S. Sankaran.
Deputy Chief Auditors, S. Jayaraman, I.A. & A.S.; K. R. Baliga, I.A. & A.S.

Southern Railway

Chief Auditor, S. Srinivasan, I.A. & A.S.
Dy. Chief Auditors, C. Venkataraman, I.A. & A.S. (*Madras*); A. G. Narayanaswami, I.A. & A.S. (*Trichinopoly*).

National Savings Commissioner for India, Post Box No. 96, Nagpur

National Savings Commissioner for India, N. V. Nayudu
Secretary, Office of the National Savings Commissioner, Nagpur, R. G. Khedekar.

Narcotics Department, Cleremont, Simla 4

Narcotics Commissioner, Tilak Raj, B.Sc., I.R.S.
Deputy Narcotics Commissioner, Ghazipur (U.P.), J. Banerjee, M.A., LL.B., B.Sc., I.R.S.
Assistant Narcotics Commissioner, Neemuch, B. S. Chawla, A.I.S.M., I.R.S.
Intelligence Officer (Senior Scale), N.I.B., Simla (Punjab I), V. J. Manerikar, B.A. (Hons.), I.R.S.

Uttar Pradesh Unit, Ghazipur

Deputy Narcotics Commissioner (Opium), J. Banerjee, M.A., LL.B., B.Sc., I.R.S.
Superintendent, Dy Narcotics Commissioner's Office, Sri Nath Prasad.

GOVT. OPIUM AND ALKALOIDS WORKS, GHAZIPUR

Manager, P. L. Karna, B.A., LL.B., I.R.S.
Sales Manager, K. Ahluwalia, B.Sc.
Factory Engineer, Bishambhar Dayal Verma, M. & E.E.
Works Manager, Y. D. Gautam, M.E.E. (Punjab), M.Mech.E.A (India), A.M.I.I.Chem.E.
Labour Welfare Officer, P. A. Bhaskaran.
Medical Officer, K. S. Misra, M.B.B.S.

Reserve Bank of India

CENTRAL OFFICE, POST BOX 406, BOMBAY 1

Governor, H. V. R. Iengar.
Deputy Governors, K. G. Ambegaokar; Ram Nath; B. Venkatappiah.
Chief Accountant, C. S. Divekar.
Principal Adviser, Dr. B. K. Madan.
Secretary, K. N. Mehta.
Officer-in-Charge, Legal Division, B. N. Metha.
Chief Officer, Department of Banking Operations, M. S. Naikarni.
Chief Officer, Department of Banking Development, N. D. Nangia.
Chief Officer, Industrial Finance Department, T. K. Ramasubramaniam.
Chief Officer, Agricultural Credit Department, J. C. Ryan.
Deputy Controller, Exchange Control Department, D. N. Malsute (*Offg.*).
Statistical Adviser, Dept. of Research & Statistics, Dr. N. S. R. Sastry.
Dy. Economic Adviser to the Reserve Bank of India, Department of Research and Statistics, D. S. Savkar.

Manager, Bombay, B. V. Desai.
Manager, Calcutta, D. D. Pai.
Manager, Madras, J. S. Jaspal.
Manager, New Delhi, M. M. Mehra.
Manager and Currency Officer, Kanpur, M. M. Mehra.
Manager and Currency Officer, Bangalore, P. C. Sood (*Offg.*).
Manager and Currency Officer, Nagpur, R. M. Mathur.
Manager, Lucknow, J. S. Narula (*Offg.*).
Manager, London, D. K. Tembe (*Offg.*).

State Bank of India
(Successors to the Imperial Bank of India)

Incorporated in India under the State Bank of India Act, 1955. The Liability of the Members is Limited.

Constituted on 1-7-1955 under the State Bank of India Act, 1955.

Central Board of Directors: P. C. Bhattacharyya, *Chairman*; N. V. Gadgil, *Vice-Chairman*; B. P. Patel, I.C.S., *Managing Director*; S. P. Puri, *Managing Director*; *Directors elected under clause (c) of sub-section (1) of section 19 of the Act*: J. D. Choksi, Pratapsinh Mathuradas. *Directors nominated by the Reserve Bank of India under the proviso to clause (c) of sub-section (1) of section 19 of the Act*: D. P. Goenka, Sir Owain Trevor Jenkins, Satya Paul Virmani, Maddi Sudarsanam. *Directors nominated by the Central Government under clause (d) of sub-section (1) of section 19 of the Act, in consultation with the Reserve Bank of India*: M. H. Hasham Premji, Ramnath A. Poddar, Prof. D. R. Gadgil, Sachindra Chaudhuri, Dr. Triguna Sen, K. Ramunni Menon, G. L. Bansal, V. S. Tyagaraja Mudaliar. *Director nominated by the Central Government under clause (e) of sub-section (1) of section 19 of the Act*: M. V. Rangachari. *Director nominated by the Reserve Bank of India under clause (f) of sub-section (1) of section 19 of the Act*: B. Venkatappiah.

Members of Local Boards, Bombay: P. C. Bhattacharyya, *Chairman*; J. D. Choksi, *President*; Pratapsinh Mathuradas, *Vice-President*; M. H. Hasham Premji, Ramnath A. Poddar, Prof. D. R. Gadgil, Prof. D. G. Karve, S. L. Kirloskar, Purushottam Kanji, J. P. Patel.

Calcutta:—P. C. Bhattacharyya, *Chairman*; Sachindra Chaudhuri, *President*; Sir Owain Trevor Jenkins, *Vice-President*; D. P. Goenka, Dr. Triguna Sen, Dhirendra Nath Mitra, Dhirendra Nath Sen, K. K. Birla, Suresh Chandra Roy.

Madras:—P. C. Bhattacharyya, *Chairman*; K. Ramunni Menon, *President*; V. S. Tyagaraja Mudaliar, *Vice-President*; Maddi Sudarsanam, Kasturi Srinivasan, R. E. Castell, M. A. Chidambaram Chettiar, T. M. Chinnaiya Pillai.

New Delhi:—P. C. Bhattacharyya, *Chairman*, Satya Paul Virmani, *President*; G. L. Bansal, *Vice-President*; Bharat Ram, Kirpa Narain, Bhai Mohan Singh, Dr. P. S. Lokanathan.

Authorised Capital: 20,00,000 shares of Rs. 100 each—Rs. 20,00,00,000; Issued, Subscribed and Paid-up: 5,62,500 shares of Rs. 100 each—Rs. 5,62,50,000. Accounts made up yearly. Dividend meeting in January.

The State Bank of India was constituted for the purpose of taking over the undertaking of the Imperial Bank of India (Established in 1921) and came into existence on 1st July 1955. The local head offices are in Bombay, Calcutta, Madras and New Delhi and the Bank has over 600 branches and sub-offices throughout India, Pakistan, Burma and Ceylon; the London Office is at 25, Old Broad Street, E.C. 2.

MINISTRY OF FOOD AND AGRICULTURE

Minister for Food & Agriculture, Ajit Prasad Jain.
Minister for Co-operation, Dr. Panjabrao S. Deshmukh.
Deputy Minister of Agriculture, M.V. Krishnappa.

DEPARTMENT OF AGRICULTURE.

Secretary, K. R. Damle, I.C.S.
Vice-President, I.C.A.R. & ex-Officio Additional Secretary, M. S. Randhawa, I.C.S.
Agricultural Production Adviser, Raja Surinder Singh of Nalagarh.
Joint Secretaries, M. Lal, I.C.S.; T. C. Puri I.C.S.; Kishan Chand, I.C.S.
Managing Director, Central Warehousing Corporation, L. G. Rajwade, I.C.S.
Inspector General of Forests, G. G. Takle, I.F.S.
Deputy Inspector General of Forests, C. A. R. Bhadran, I.F.S.
Deputy Secretaries, M. K. Kidwai, I.A.S., Prakash Krishan, I.A.S., D. Ramiah, P. L. Malhotra, S. Mukherjee, K. C. Chetty, T. S. Krishnamurti, P. N. Suri.
Secretary, I.C.A.R. & ex-Officio Deputy Secretary, S. K. Mirchandani.
Economic & Statistical Adviser & ex-Officio Deputy Secretary, Dr. S. R. Sen.
Co-operation Commissioner, R. H. Chishti, I.A.S.
Extension Commissioner, J. V. A. Nehemiah.
Tubewell Projects Administrator, Balwant Singh, I.A.S.
Irrigation Adviser, Mahabir Prasad.
Fisheries Development Adviser, N. K. Panikar.
Co-operation Adviser, M. P. Bhargava.
Dairy Development Adviser, L. C. Sikka.
Addl. Secretary, I.C.A.R. & Ex. Officio Deputy Secretary, F. C. Gerau.
Livestock Adviser, M. R. Mahajan.

DEPARTMENT OF FOOD

Deputy Minister, A. M. Thomas.
Secretary, B. B. Ghosh.
Joint Secretary & Director General (Food), C. A. Ramakrishnan, I.C.S.
Joint Secretary, B. P. Bagchi, I.C.S.
Officer on Special Duty & Deputy Secretary, S. K. Sen.
Officer on Special Duty (Engineering), K. M. Bhatia, I.S.E.
Deputy Secretaries, S. N. Bhalla, A. C. Bhatia, I.A.A.S., B. L. Sahney.
Chief Director of Movement, B. C. Deshkachari.
Chief Director of Purchase, Col. Prithi Pal Singh.
Chief Director (Sugar & Vanaspati), T. Prasad.
Special Director (Procurement), A. Bose, I.A.S.
Director (Budget & Finance Co-ordination), M. L. Sinha.
Director of Storage & Insp., Dr. S. V. Pingale.
Director of Ports & Depots, O. N. Bajpai.
Directors of Purchase, S. N. Sikand, S. Swarup.
Director (Sugar Technical), K. P. Jain.

OFFICE OF THE REGIONAL DIRECTOR (FOOD), SOUTHERN REGION, No. 20, LUZ AVENUE, MYLAPORE, MADRAS 4.

Regional Director (Food), P. L. Anand.
Joint Director, P. R. Dabak.
Deputy Directors, Madras, P. N. Mathur; H. G. V. Reddy; T. N. Gopalakrishnan; *Hyderabad*, G. Vaswaney; *Cochin*, R. Rajagopalan.

OFFICE OF THE DEPUTY DIRECTOR (FOOD), CENTRAL STORAGE, GREEN GATES, SAIFABAD, HYDERABAD (Dn.).

Deputy Director (Food): G. Vaswaney.
Asstt. Directors: Abdul Rashid, Shah Nawaz Khan, V. C. Gupta, D. A. Uttam Singh.
Tech. Officers: Ahmed Husain, Joginder Nath Sarid, Hariram Lokchand.

OFFICE OF THE REGIONAL DIRECTOR (FOOD), WESTERN REGION, MOHATTA MARKET BLDG., 4th FLOOR, PALTON ROAD, BOMBAY 1.

Regional Director (Food), P. K. Samal.
Joint Director, K. D. Narayan.
Deputy Directors, Sarvashri G. S. Puri; M. Kesavan Nair; P. S. Roy; C. K. B. Menon; Naval Mehta.

OFFICE OF THE ASSISTANT DIRECTOR, CENTRAL STORAGE, P.B. No. 34, LASKAR, GWALIOR.

Asstt. Director, B. B. Dhawan.

OFFICE OF THE ASSTT. DIRECTOR, CENTRAL STORAGE, ROSHANARA GODOWNS, SHAKTINAGAR, DELHI 6.

Asstt. Director, B. S. Kapoor.

Central College of Agriculture, I.A.R.I., New Delhi

Principal, Dr. E. S. Narayanan, M.A., Ph.D. (Lond.), D.I.C., F.R.E.S., F.E.S.I., F.N.I.
Lecturer in Chemistry, Dr. V. Iswaran, M.Sc. Ph.D.
Lecturer in Agriculture, Dewan Singh, M.Sc.
Lecturer in Horticulture, N. Nath, M.Sc.
Lecturer in Veterinary Science, Gian Singh L.V.P. (Hons.), F.G. (Mukt.).
Lecturer in Mycology, S. D. Gara, M.Sc.
Lecturer in English & Hindi, S. L. Vachhar, M.A.
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Lecturer in Botany, B. S. Fozdar, M.Sc.

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Chief Research Officer, Dr. B. S. Bhimachar, D.Sc. F.A.Sc., F.N.I.
Research Officer (Estuarine), Dr. T. V. R. Pillai M.Sc., Ph.D.
Research Officer (Hilsa), Dr. K. K. Sarojini M.A. Ph.D.
Administrative Officer, J. M. David, B.A.

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Research Officer (Pond Culture), K. H. Alikunhi M.Sc.
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Central Marine Fisheries Research Station, Mandapam Camp P.O. (S. India)

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Administrative Officer, G. G. Suralkar B.A.

Central Potato Research Institute
(MAIN INSTITUTE, SIMLA)

Director, Dr. Pushkarnath, M.Sc., Ph.D. (Ass. I.A.R.I.
Botanist, M. L. Khanna, B.Sc., Assoc. I.A.R.I.
Cytogeneticist, Dr. D. Srinivasachar, M.Sc. Ph.D., Assoc. I.A.R.I.
Virus Pathologist, B. L. Dutt, M.Sc.
Assistant Plant Pathologist, Dr. C. S. Rao murthi, M.Sc., Ph.D., Assoc. I.A.R.I.
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CENTRAL POTATO RESEARCH STATION PATNA

Agronomist, Vacant.
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Agricultural Entomologist, Dr. K. K. Nair M.Sc., Ph.D., Assoc. I.A.R.I.
Agricultural Chemist, K. Swaminathan, B.Sc. (Hons.).

POTATO BREEDING & CERTIFICATION STATION, KUFRI

Assistant Botanist, P. N. Mathur, M.

POTATO EXPERIMENTAL AND TRIAL CENTRE, BABUGARH

Assistant Botanist, Hari Kishore, M.Sc. (A) I.A.R.I.

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POTATO EXPERIMENTAL AND TRIAL CENTRE, DARJEELING

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SECOND FIVE YEAR PLAN SCHEMES

Seed Development Officer, M. B. Pathak, B.Sc., Assoc. I.A.R.I.
Plant Physiologist, Dr. Rajat De, M.Sc., Ph.D.
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Central Rice Research Institute, Cuttack 4, Orissa

Director, R. L. M. Ghose, M.Sc., F.A.Sc.
Mycologist, S. Y. Padmanabhan, B.Sc. (Hons.), M.A., Assoc. I.A.R.I.
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Statistician, M. P. Jha, M.Sc.
Agricultural Chemist, C. T. Abichandani, M.Sc., I.A.I.C.
Research Officer in Plant Pathology, D. Ganguly, M.A., D.Phil.
Farm Superintendent, M. Subbiah Pillai, B.A., B.Sc. (Agri.).

Central Tractor Organisation, New Pusa, New Delhi 12

Chairman & Chief Engineer, V. P. Kapur, O.M.E.C., M.I.E., A.M.I.E.E.
Chief Accounts Officer, K. S. Murthy, I.A. & A.S.
Deputy Chief Engineer, C. P. Srivastava, Licentiate in Engg.
Labour Welfare Officer, R. C. Chowdhary.
Agricultural Officer, Dr. A. S. Sandhu, M.Sc., Ph.D. (Kansas), U.S.A.

Directorate of Economics and Statistics, New Delhi

Economic & Statistical Adviser, Dr. S. R. Sen.
Director (Economics) & Dy. Economic & Statistical Adviser, Dr. R. N. Poduval.
Director (Intelligence) and Dy. Economic & Statistical Adviser, S. C. Chaudhri
Director (Plan Co-ordination) and Dy. Economic & Statistical Adviser, J. S. Sarma.
Director (Research) and Dy. Economic & Statistical Adviser, Dr. K. S. Rao.
Production Economist, Dr. G. D. Agrawal
Administrative Officer, T. S. Ahluwalia.

Directorate of Marketing and Inspection, 'P' Block, Hutments, Raisina Road, New Delhi

Agricultural Marketing Adviser to the Government of India, Dr. M. B. Ghatge, B.Ag., Ph.D. (Wales).
Dy. Agricultural Marketing Adviser, R. T. Mitchandani, B.A.

OFFICE OF THE SENIOR MARKETING DEVELOPMENT OFFICER

Tobacco Grading, 'Sampath Villas,' Koretapad Road, Guntur.

Senior Marketing Development Officer, Guntur, Partap Singh, B.Sc. (Ag.).
Marketing Development Officer, on other duty with the Ministry of Commerce and Industry as Higher Executive Officer, High Commission of India in U.K., London, S. K. Viswesvara Rao, B.Sc. (Hons.).
Marketing Development Officers, Guntur, S. V. Krishnaswamy, L.Ag., N. V. Srikantaiah, B.Sc. (Hons.).
Deputy Marketing Development Officer, on deputation as Second Secretary (Commercial), Office of Commissioner for India in Hong Kong, T. V. Gopalaswamy, B.A.
Deputy Marketing Development Officer, on deputation as Vice-Consul for India in Antwerp, H. S. Gopal Rao, B.Sc.
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SEAMEN'S MEDICAL EXAMINATION ORGANISATION, GULAM MOHAMED BLDG., NICOL ROAD, BALLARD ESTATE, BOMBAY.

Medical Officers, Dr. G. L. Banerjee, M.B. (Cal.), D.P.H. (Cal.); Dr. P. C. Biswas, M.B.B.S. (Cal.), D.P.H. (Cal.).

INDIAN SEAMEN'S CLINIC, THANA STREET, BOMBAY 9.

Medical Officer, Dr. M. U. Hasrajani, M.B.B.S. (Mad.)

YELLOW FEVER INOCULATION SECTION, HAFFKINE INSTITUTE, BOMBAY.

Asstt. Port Health Officer, Dr. M. D. Karamchandani, M.B.B.S. (Cal.).

Office of Serologist & Chemical Examiner to the Government of India, No. 3, Kyd Street, Calcutta 16

Serologist and Chemical Examiner to the Government of India, Dr. K. V. Venkatraman, M.D.
1st Assistant to Serologist and Assistant Chemical Examiner to the Government of India, Dr. A. R. Roychowdhury, M.B.B.S.
2nd Assistant to Serologist and Assistant Chemical Examiner to the Government of India, Dr. D. K. Ghoshal, M.B.B.S., D.T.M., D.P.H.
3rd Assistant to Serologist and Chemical Examiner to the Government of India, Dr. D. N. Majumder, M.B.B.S.
4th Assistant to Serologist and Chemical Examiner to the Government of India, Dr. A. K. Bhattacharyya, M.B.B.S.

Office of the Antigen Production Unit, 3, Kyd Street, Calcutta 16

Biochemist, Dr. B. N. Ghosh, M.Sc, Ph.D, F.R.I.C.
Assistant Serologist, Dr. A. K. Mitra, M.B.B.S., D.T.M.

MINISTRY OF HOME AFFAIRS

Minister, Govind Ballabh Pant.
Minister in the Ministry of Home Affairs, Balwant Nagesh Datar.
Dy. Minister of Home Affairs, Smt. Violet Alva.
Secretary, B. N. Jha I.C.S.
Special Secretary for Kashmir Affairs, Vacant.†
Special Secretary, V. Viswanathan, I.C.S.
Development Adviser for Kashmir and Ex-Officio Additional Secretary, Datar Singh.
Joint Secretaries, R. C. Dutt, I.C.S.; N. Sahgal, I.C.S.; M. Gopal Menon, I.C.S.; Ranchor Prasad, I.A.S.; Hari Sharma; Fatch Singh.
Officer on Special Duty, Administrative Vigilance Division, M. V. Rajwade, I.A.S.*
Establishment Officer and Director, Administrative Vigilance Division, R. C. Dutt, I.C.S.
Officer on Special Duty, Director, Directorate of Man Power, also Member-Secretary, Pay Commission, L. P. Singh, I.C.S.
Chief Welfare Officer, P. G. Zachariah.
Special Officer, Administrative Vigilance Division, G. C. L. Joneja, I.A.S.
Special Officer, Linguistic Minorities (Stationed in Allahabad), B. Malik
Deputy Secretaries, B. N. Maheshwari, I.A.S.; H. K. Tandon, I.A.S. (*Special Assistant to Home Minister*), R. N. Madhok, I.A.S.; Raja Roy Singh, I.A.S.; T. C. A. Ramanujachari, I.A.S.; Raj Kumar, I.A.S.; P. Prabhakar Rao, I.A.S.; T. C. A. Srinivasavaradan, I.A.S.; P. N. Shinghal, I.A.S.; A. S. Gill, I.A.S.; J. N. Dhamija, I.F.S; S. Narayanaswamy; B. Shukla; P. Sitaraman; L. G. Mirchandani; L. W. Dhume; K. R. Prabhu; C. P. S. Menon; K. N. V. Nambisan; S. L. Mathuria.

Indian Administrative Service Training School, Ministry of Home Affairs, Metcalfe House, Delhi 8.

Principal & Director of Trg., K. Radhakrishnan, I.C.S.
Vice-Principal, R. K. Trivedi, I.A.S.
Law-Lecturer, A. M. Pathak.
Professor of Economics, T. N. Ramaswamy.
Reader-in-Economics, K. N. Bhattacharyya.
Lecturer on Constitution, S. P. Jagota.
Asstt. to the Director of Training, S. B. Mahipal.
Administrative Officer, G. L. Agarwal.

Office of the Commissioner for Scheduled Castes and Scheduled Tribes.

Commissioner for Scheduled Castes and Scheduled Tribes, L. M. Shrikant.
Assistant Commissioner for Scheduled Castes and Scheduled Tribes, Vimal Chandra.
Private Secretary to Commissioner, Mrs. S. Bhanot.
Section Officers, Mul Chand Gupta; N. C. Kapur; S. N. Dewan; B. T. Vazirani; S. D. Singh.
Research Officers, H. S. Saksena; U. B. Mehta.
Asstt. Commissioner for S. C. and S. T., Assam, Manipur & Tripura, Shillong, I. Shahlmeren Aier.
Asstt. Commissioner for Bihar, West Bengal, Orissa, Bhubaneswar and Ranchi, K. K. Leuva.
Asstt. Commissioner for Madhya Pradesh, Raipur, Gian Chand.
Asstt. Commissioner for Bombay, Baroda, P. C. Dave.
Asstt. Commissioner, Mysore, and Madras Region, Madras, V. Kalyanan.
Asstt. Commissioner for Andhra, Visakhapatnam, Sonarem Soren.
Asstt. Commissioner for Punjab, U.P., Delhi, Himachal Pradesh and Jammu & Kashmir, Delhi, S. K. Kaul.

* It is reported he has been appointed Chief Commissioner, Andamans.
† It is reported that Mr. Shankar Prasada at present Dir. Genl. of Posts and Tels. is to take this place.

Assistant Commissioner for Rajasthan, Jaipur, Fatehbir Bahadur.
Assistant Commissioner for Kerala (Trivandrum), N. P. Damodaran.

Secretariat Training School, 'B' Barracks, Janpath, New Delhi 1.

Director, R. K. Behl.

Special Police Establishment

NEW DELHI HQRS. OFFICE.

Inspector-General of Police, D. P. Kohli, I.P.
Dy. Inspectors-General of Police, P. Kandaswamy, I.P.S.; D. Sen, I.P.S.
Asstt. Inspector-General of Police, M. P. Singh, I.P.S.
Legal Adviser, V. S. Deshpande.
Administrative Officer, S. D. S. Jain.
Deputy Supdt. of Police Hqrs., S. S. Roberts.
Superintendent of Police (C.I.A.), K. S. Sase.

BOMBAY BRANCH.

Supdt. of Police, B. B. Gudi; R. M. Desai (Ahmedabad).
Deputy Supdts. of Police, Bhojraj Daya Ram; D. R. Salunke.
Public Prosecutor, R. R. Kini.

DELHI BRANCH.

Supdt. of Police, Bhawani Mal, I.P.S.
Deputy Supdts. of Police, Roshan Lal; Iftikhar Husain.
Public Prosecutor, Ram Lal Mehta.

BIHAR BRANCH.

Supdt. of Police, G. Narayan.

ORISSA BRANCH.

Deputy Supdt. of Police, N. Chand.

AMBALA BRANCH.

Supdt. of Police, C. L. Malhotra.
Public Prosecutor, Avtar Singh.

JAIPUR BRANCH.

Supdt. of Police, A. R. Khan.

MADRAS BRANCH.

Supdt. of Police, C. V. Narasimham.
Public Prosecutor, M. S. Menon.

PUNJAB BRANCH.

Supdt. of Police, L. S. Darbari.

UTTAR PRADESH BRANCH.

Supdt. of Police, Arjun Singh.
Deputy Supdt. of Police, Rattan Singh.
Public Prosecutor, Jia Lal.

MADHYA PRADESH BRANCH.

Supdt. of Police, C. S. Tiwari.
Dy. Supdt. of Police, B. L. Shrivatsava.
Public Prosecutor, K. P. Bhatt.

ASSAM BRANCH.

Supdt. of Police, A. K. Misra.

WEST BENGAL BRANCH.

Supdt. of Police, J. Mukherji.
Deputy Supdts. of Police, S. M. Ray; S. Mukherjee.
Public Prosecutor, N. K. Biswas.

HYDERABAD BRANCH.

Supdt. of Police, S. Balakrishna Naidu.
Public Prosecutor, B. Venkatagatnam.

MINISTRY OF INFORMATION AND BROADCASTING

Minister, Dr. B. V. Keskar.
Secretary, R. K. Ramadhyani, I.C.S.
Deputy Secretaries, V. Kumar, I.C.S.; R. P. Naik, I.C.S.; B. S. Dasgrathy.
Officer on Special Duty, K. N. Pannai.
Private Secretary to Minister, V. T. Ghorpade.
Private Secretary to Secretary, V. Lakshmikantham.
Registrar of Newspapers, M. L. Bhatdwaj.

PUBLICATIONS DIVISION

Director, U. S. Mohan Rao.
Deputy Director (Editorial), Vacant.
Deputy Director (Production), Vacant.

FILMS DIVISION, BOMBAY

Controller of Administration, D. L. Kothari.
Chief Producer (Documentaries), Ezra Mir.
Dy. Chief Producer, S. L. Balani.
Officer-in-Charge of Distribution, S. Krishnamurti.
Administrative Officer, Ratneshwar Dayal.
Assistant Chief Producer, P. N. V. Rao.
Senior Directors, K. L. Khandpur; A. Bhaskar Rao.
Director of Music, V. Shirali.
Chief Sound Engineer, B. R. Prahlad.
Central Board of Film Censors, Bombay, Chairman, M. D. Bhat, I.C.S.

MOBILE UNITS

Regional Officer, Five-Year Plan Publicity (North-West), Delhi, R. L. Verma.
Regional Officer, Five-Year Plan Publicity (U.P.), Lucknow, V. S. Verma.
Regional Officer, Five-Year Plan Publicity (M.P.), Indore, Y. R. Mehta.
Regional Officer, Five-Year Plan Publicity (East), Burdwan, A. K. Sarkar.
Regional Officer, Five-Year Plan Publicity (Madras), Coimbatore, J. Thangavel.
Regional Officer, Five Year Plan Publicity (Bombay), P. V. Damodar.
Regional Officer, Five Year Plan Publicity (Central), G. Satyanarayana.
Regional Officer, Five Year Plan Publicity (Bihar), Patna, B. R. K. Bhatnakar.
Regional Officer, Five Year Plan Publicity (Orissa), Bhubaneswar, Biswanath Rath.
Regional Officer, Five Year Plan Publicity (Rajasthan), Jaipur, M. M. Lal.

DIRECTORATE OF ADVERTISING & VISUAL PUBLICITY, SHAHJAHAN ROAD HUTMENTS, BLOCK NO. 2, NEW DELHI 2.

Director, L. R. Nair.
Deputy Director, V. Padmanaban.
Dy. Director (Admn.), K. A. Iyer.

ADVERTISING WING

Media Executive, K. B. Nair.
Asstt. Media Executive, C. S. Grewal.
Section Officer (Classified Release), Pratap Singh.
Assistant Director (Space Selling), Rattan Chopra.
Section Officer (Display Release), A. N. Daweaar.
Campaign Officer (I), G. Venkataraman.
Campaign Officer (II), S. P. Mehta.
Copy Writer (I), R. Thukral.
Copy Writer (II), Kuldip Singh.

VISUAL PUBLICITY

Art Executive, S. C. Paul.
Assistant Art Executive, P. D. Abhyankar.
Photographer, T. C. Jain.
Production Manager, Vacant.
Asstt. Production Manager (I), H. C. Sharma.
Asstt. Production Manager (II), K. R. Ramakrishnan.
Asstt. Production Manager (III), Yogeshwar Dayal.
Outdoor Publicity Officer, A. Seshagiri Rau.
Distribution Officer, Madan Gopal.
Exhibition Officer, M. S. Samant.
Regional Exhibition Officers, A. K. Sarkar, P. V. Damodar, S. V. S. Sastry, R. K. Anand.
Commercial Artist, P. D. Chandwadkar.

ADMINISTRATION WING

Accounts Officer (I), Tej Ram Nayyar.
Accounts Officer (II), S. Rajagopalan.
Section Officer (Establishment), T. K. Venkataraman.
Section Officer (General Branch), R. P. Gupta.

Central Board of Film Censors "Bharat Bhavan," 91, Walkeshwar Road, Bombay 6.

Chairman, M. D. Bhat.
Regional Officers, D. L. Kothari, P. P. Rakhshwary (Bombay); S. C. Patil (*Additional*).
Secretary to the Chairman, V. G. Bapat.
Research Officer, N. L. Tikyal.

Regional Office, Dalhousie Square, Calcutta.
Regional Officer, A. K. Sen.

Regional Office, Agurchand Mansions, Mount Road, Madras 2.

Regional Officer, G. T. Sastri.

Directorate-General, All-India Radio

Broadcasting House, Parliament Street, New Delhi.

Director-General, J. C. Mathur, I.C.S.
Chief Engineer, A. C. Ramchandani.
Deputy Director-General (Prog.), B. P. Bhatia.
Deputy Director-General (Admn.), S. Parameswaran.
Deputy Director-General (Inspection), Vacant.
Deputy Chief Engineers, A. C. Ramchandani; M. L. Sastry.
Director of Programmes, Dr. R. M. Marathe.
Director, Frequency Assignment, S. Tiruvenkatachari.
Director of Staff Training, B. S. Anand.
Director of Programme Planning, H. R. Luthra.
Officer on Special Duty, S. C. Parasher.
Director of Virodh Bharati, Gopal Dass.

SONG AND DRAMA DIVISION

Director, Lt.-Col. H. V. Gupte.

PLANNING AND DEVELOPMENT UNIT.

Planning Officers (Transmitters), N. I. Sahi; V. Balasubrahmanyam; Chaman Lal.
Planning Officer (Studios), R. L. Suri.

NEWS SERVICES DIVISION

(*Telegraphic Address:* "AIRNEWS", New Delhi.)

Director of News Services, M. Sivaram.
Senior Deputy Director of News, A. N. Bhatt.

EXTERNAL SERVICES DIVISION

(*Telegraphic Address:* "AIRFORLIGN", New Delhi.)

Director, External Services, Miss Mehra Mir.
Deputy Director (Middle East), M. A. Anam.
Deputy Director (Far East), K. P. Shunglu.
Station Engineer, A. K. Banerji.
Listener Research Officer, S. M. Mazumdar.
Asstt. Station Directors, K. G. Nag; G. K. M. Shrimati S. R. Venkataraman.

TRANSCRIPTION SERVICES

Transcription Officer, P. K. Basu.

RESEARCH DEPARTMENT

(*Telegraphic Address:* "AIRSEARCH", New Delhi.)

Research Engineer, T. Rajamanikam.
Asstt. Research Engineers, P. R. Tasker; S. N. Mitra; N. K. D. Chowdhury.

MAINTENANCE DEPARTMENT (CURZON ROAD)

(*Telegraphic Address:* "AIRWORKS", New Delhi.)

Maintenance Engineer, Keshava Chandra.
Sr. Dy. Maintenance Engineers, D. W. Pai; S. R. Biswas.

THE INDIAN LISTENER, AWAZ, SARANG (CURZON ROAD)

(*Telegraphic Address:* "LISTENER", New Delhi.)

Editor, Indian Listener, R. S. Sharma.
Assistant Editor, The Indian Listener, B. Paul.
Assistant Editor, Awaz, Vacant.
Assistant Editor, Sarang, J. L. Birmani.

HIGH POWER TRANSMITTERS, KINGSWAY, DELHI

(*Telegraphic Address:* "AIRBEAMS", Delhi.)

Engineer-in-Charge, K. B. Karve.
Deputy Engineers-in-Charge, B. R. Kapur; V. P. Goyal.

PLANNING AND DEVELOPMENT UNIT, CENTRAL PROJECT CIRCLE

Project Officer, S. S. Aiyar.
Asstt. Project Officers, K. Shamanna; R. K. Khanna.

PLANNING AND DEVELOPMENT UNIT, WESTERN CIRCLE, BOMBAY

(*Telegraphic Address:* "AIRWORKS", Bombay.)

Project Officer, B. Y. Nerurkar.
Asstt. Project Officers, K. G. Pendse; R. A. P. Iyengar.

MONITORING SERVICE, SIMLA

(*Telegraphic Address:* "AIRMONITOR", Simla.)

Director, Surjeet Singh.
Assistant Director, A. N. Kaul.

PLANNING AND DEVELOPMENT UNIT, EASTERN CIRCLE, CALCUTTA

(*Tel.:* "AIRWORKS", Calcutta.)

Project Officer, T. D. Chatterjee.
Asstt. Project Officers, P. S. Wagarkar; N. K. Banerji.

ALL-INDIA RADIO STATIONS

Station Director, Delhi, S. N. Murti.
Station Director, Calcutta, P. C. Chatterji.
Station Director, Bombay, K. S. Mullick.
Station Director, Madras, V. K. Narayana Menon.
Station Director, Lucknow, V. Krishnamurti.
Station Director, Patna, Uma Shankar.
Asstt. Station Director, Nagpur, S. K. Bose.
Asstt. Station Director, Cuttack, P. V. Krishnamurthy.
Station Director, Jullundur, D. K. Sen Gupta.
Asstt. Station Director, Allahabad, G. K. Mathur.
Asstt. Station Director, Vijayawada, G. P. S. Nayar
Station Director, Gauhati, Dr. A. M. Natesh.
Station Director, Ahmedabad, D. N. Dixit.
Station Director, Hyderabad, B. Jaipal Rao.
Station Director, Trivandrum, M. V. Rajagopal.
Station Director, Tiruchirapalli, B. C. Ishwardas.
Station Director, Indore, S. V. Natrajan
Station Director, Jaipur, Ramesh Chandra.
Station Director, Srinagar, P. S. Bhatia
Station Director, Bangalore, B. K. Nandi
Asstt Station Director, Kozhikode, N. S. Ramachandran.
Asstt. Station Director, Poona, N. L. Chowla.
Asstt Station Director, Rajkot, G. H. Vyas.
Asstt Station Director, Jammu, Pratap Kishen.
Asstt. Station Director, Simla, Kumari L. Sen Gupta.
Asstt Station Director, Dharwar, W. Iqbal Singh
Asstt Station Director, Ranchi, S. P. Kaushal.
Asstt Station Director, Bhopal, N. N. Kapoor.

HIGH POWER TRANSMITTERS, MALAD, BOMBAY

Engineer-in-Charge, P. R. Khanna.
Dy Engineer-in-Charge, D. M. Bhatt.

HIGH POWER TRANSMITTERS, AVADI, MADRAS

Engineer-in-Charge, B. C. Sil.
Dy. Engineer-in-Charge, K. Krishnaswamy.

Press Information Bureau

'N' Block Hutments, Raisina Road, New Delhi.

Principal Information Officer, T. R. V. Chari.
Deputy Principal Information Officers, A. R. Vyas; Madho Prasad; P. D. Murti; B. Mukhopadhyay; M. J. B. Pritchard; G. G. Mirchandani.
Asstt. Principal Information Officer, H. K. Kapoor.
Public Relations Officer, Vacant.
Information Officers, K. C. Saraswat; S. Lakshminarasu; G. Trivedi; Ashokaji; S. C. Bhat; S. R. Gupta; Kuldip Nayar; I. P. Tewari; Pratap Kapur; P. N. Khosla; J. N. Asad; Harishchandra; S Kumar Dev; C. V. H. Rao; R. S. Sharma; P. K. Ramanujam; B. R. Bowry; S. S. Narula.
Administrative Officer, J. D. Jain.
Section Officer (Accounts), Kartar Singh.
Officer-in-Charge, Photo Studio, D. Nanda.
Campaign Officers, P. N. M. Menon; U. C. Tiwari.
Feature Writer, K. P. Damija.

DEFENCE WING, NEW DELHI

Armed Forces Information Officer, Col. R. Sreenivasan.
Information Officer, S. Sundar Rajan.
Photographer, Captain G. S. Pablay.

BOMBAY OFFICE

(UNITED INDIA BUILDING, SIR PHIROZSHAH MEHTA ROAD, FORT, BOMBAY)

Deputy Principal Information Officer, C. L. Bhardwaj.
Information Officer, A. M. Abdul Hamid.

CALCUTTA OFFICE

(8, ESPLANADE EAST, CALCUTTA)

Deputy Principal Information Officer, H. J. D'Penha.
Information Officer, R. Raina.

MADRAS OFFICE

('CATHEDRAL HOUSE,' 122, MOUNT ROAD, CATHEDRAL P.O., MADRAS 6)

Information Officer, K. K. Nair.

JULLUNDUR OFFICE

(G. T. Road, Opp. Nehru Garden)

Information Officer, Madan Gopal.

BANGALORE OFFICE

(28, First Main Road, Bangalore.)

Asstt. Information Officer, N. S. Venkoba Rao.

LUCKNOW OFFICE

(Mayfair Extension Bldg., First Floor, Lal Bagh, Lucknow.)

Assistant Information Officer, R. P. Sood.

ERNAKULAM OFFICE

(Opp. Perumanoor Police Station, Post Box-cum-Bag 47.)

Asstt Information Officer, M. V. Subrahmanyam

GAUHATI OFFICE

(No. 4, Bhuban Chandra Road, Uzan Bazar, Gauhati.)

Assistant Information Officer, M. N. Barkatali.

CUTTACK OFFICE

(No. 3, Cantonment Road, Cuttack 1.)

Assistant Information Officer, S. B. Misra.

SRINAGAR OFFICE

(The Bund, Srinagar.)

Information Officer, A. J. Zaidi.

PATNA OFFICE

(Sikander Manzil, First Floor, Fraser Road, Patna.)

Asstt. Information Officer, S. G. Purohit.

VARANASI OFFICE

(C. K. 36 7, Chowk, Varanasi.)

Asstt Information Officer, R. C. Sharma.

NAGPUR OFFICE

(Theatre Panchsheel Building, 1st Floor, Jail Road, Nagpur.)

Asstt. Information Officer, V. S. Varkhedkar.

SHILLONG OFFICE

(Press Information Bureau, Govt. of India, Shillong.)

Information Officer, R. B. Mathur.

PROJECT INFORMATION UNIT

(Bhakra Nangal, Nangal Township.)

Assistant Information Officer, Vishnu Dutt.

PROJECT INFORMATION UNIT

(P. O. Hirakud, District Sambalpur.)

Assistant Information Officer, S. M. Sahukar.

MINISTRY OF IRRIGATION AND POWER

Minister, Hafiz Mohammed Ibrahim.
P. S. to Minister, M. H. Zinjani.
Deputy Minister, Jaisukhlal Hathi.
Secretary, T. Sivasankar, I.C.S.
Joint Secretary, B. B. Bahl, I.C.S.
Chief Engineer, K. K. Framji, I.S.E.
Officer on Special Duty, Dr. J. K. Malhotra, M.A., Ph.D.
Consultant and Special Commissioner (Canal Waters), D. D. Jaini, I.S.E. (Retd.).
Hon. Public Co-operation Adviser, M. D. Mithal, I.S.E. (Retd.).
Officer on Special Duty, N. S. Vasant.
Deputy Director, M. L. Madan.

Central Board of Irrigation and Power, Curzon Road Barracks, New Delhi.

Secretary, Baleshwar Nath, B.Sc., C.E. (Hons.), M.I.E.

Assistant Secretaries, L. C. Gupta; M. V. Hanumantha Rao, B Sc., B.E., A M.I.E. (Ind.); V. R. Narasimhan, B.Sc. (Hons), D.I.I.Sc., A.M.A. I.E.E.; Kailash Narayan, B.A., B.Sc. (Eng.); K. S. Sarma, B.Sc. (Eng.).

Central Water and Power Commission (Water, Power, Flood Wing), New Delhi.

Chairman, Kanwar Sain, I.S.E., C.E. (Roorkee), M.Am.Soc.C.E., M.Am. C.Inst., M.I.E. (India).

Member, Dr. K. L. Rao, M.Sc., Ph.D., M.Inst. C.E., M.I. Struct. E., M.I.E. (India), M.I.E. (London).

Chief Engineers, R. D. Dhir, C.E. (Roorkee), I.S.E.; R. Singh, I.S.E., C.E. (Hons.) (Roorkee).

Directors, Dr. R. C. Hoon, M.Sc., Ph.D.; S. R. Vasudeva, B.A., C.E., M.I.E., M.Am.Soc.C.E., P.S.E.(I); P. R. Ahuja, B.Sc. (Engg.) (Lond.), A.C.G.I.; M. G. Hiranandani, B.Sc. (Engg.) (Lond.); K. C. Khatri, B.Sc. (Punjab), B.Sc. (Engg) (Lond.), A.C.G.I.; P. N. Kumra, A.M.I E., C.E., P.S.E.; K. B. Khushalani, B.E. (Civil), Bombay; George Oommen, B.Sc. (Hons.), A.M.I.E., A.M.A.Sec., M.I.E.; J. E. Vaz, B.E. (Mech.), Madras.

Superintending Engineers, B. B. Shori, B.Sc. (Engg) (Rangoon); Kehar Singh, B.Sc. (Civil) (Engg.) (Rangoon,) A.M.I.C.E.; C. K. Keswani, B.E. (Civil); Iftekhar Ahmed, B.E. (U.S.A.); B. S. Johri, Diploma in Civil Engineering, Roorkee; A. P. Mathrani, Diploma from D. J. Sind College, Karachi; N. D. Tekchandani, Diploma from D. J. Sind College, Karachi; S. Raghavachari, B.E. (Mechanical, Madras).

Central Water and Power Commission (Power Wing), Bikaner House, Shahjahan Road, New Delhi.

Member (Hydro-Electric), M. Hayath, B.E. (Mech.), B.S.E.E., M.I.E. (Ind.).

Member (Utilization), S. S. Kumar, B.Sc. (Hons.) (Physics), M Sc. (Physics), B.Sc. (Hons.) (Engg.), M Sc. (Engg.), D I.C., A.C.G.I.

Directors (Selection Grade), S. Bose, D.F.H., A.M.I.E. (London); K. L. Vij, B.Sc. (Hons.), (Elec. Engg.), D.M.E.C. (Hons.), City & Guilds of London Exam. (Final) Grade, L.E.E. (Lond.), M.I.E. (Ind.).

Directors (Ordinary Grade), V. Venugopalan, B.A. (Hons.), Cert. of Prof. in Elec. Tech. I.I.Sc.; V. R. Raghavan, M.A., Cert. of Prof. in Elec. Tech. (I.I.Sc.), A.M.I.E., Mem. A.I.E.E.; R. L. Butail, D.M.E.C. (Elec.), Mech., B.Sc., Elec. Engg.; H. R. Verma, D.M.E.C.; A. P. Seethapathy, B.E., Dip. in Engg.; M. Aswath.

Thermal Specialist Engineer, J. B. Singh.

Officer on Special Duty, S. Swayambu, M.A., Cert. of Prof. in Elec. Tech., A.M.I.E.E.

Liaison Officer, M. B. P. Sarathy, B.Sc., B.E. (Elec.).

CENTRAL WATER AND POWER COMMISSION (POWER WING), PLANNING CELL, 13, McNICHOLS ROAD, MADRAS-10.

Director (Ordinary Grade), M. Aswath, B.Sc. in Elec. Engg., Mech. Engg., Civil Engg., Post Graduate study in Aeronautical Engg. at the Indian Institute of Science (equivalent to Masters).

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Hirakud Dam Project

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Dy. Coal Mines Welfare Commissioner, N. M. Khan Warsi.

Dy. Coal Mines Welfare Commissioner, M.P., B. N. Waughray.

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Superintendent, Central Hospital, Asansol, Dr. K. Damodaran.

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Asstt. Director of Establishment, Harish Chand

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Dy Regional Director, B. D Chopra

Medical Referees, Dr. Chandra Mohan, Dr S. R. Goil; Dr. B. K. Ghosh, Dr M N Sen

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REGIONAL OFFICE, 7/202, SWARUP NAGAR, KANPUR

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Medical Referee, Dr. K. R. Mahajan.

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Medical Referee, Dr. Iqbal Singh.

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Medical Referee, Dr. M. L. Kapur.

REGIONAL OFFICE, XXIV/273, MACHINGAL LANE, TRICHUR

Dy. Regional Director Incharge, A. V. Subrahmanyan.

REGIONAL OFFICE, 13, KUMARA PARK EXTENSION, BANGALORE

Dy Regional Director-in-Charge, R. K. Aggarwal

Labour Appellate Tribunal of India, City Ice Building, 298, Bazargate Street, Fort, Bombay 1

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Deputy Chief Inspector of Mines in India, G. S. Jabbi, A.I.S.M. (Min.), F.C.C., M.M.G.I.
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Regional Inspector of Mines, S. L. Chakravorty, B.Sc., A.I.S.M. (Min.), F.C.C., M.Sc. (B'ham), M.I.Min.E., M.M.G.I., F.G.M.S., Pickering Medallist (*with West Bengal Government, as Director of Mines and Minerals*).
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Mica Mines Labour Welfare Fund, Jagjivan-Nagar P. O., Dhanbad.

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Office of the Chief Labour Commissioner, Gurdwara Road, New Delhi.

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Private Secretary to the Deputy Minister, D. Y. Pingle.
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Director, Establishment, Vacant.
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Director, J. C. Ross, A.R.I.C.S., M.I.S. (Ind.).
Geodetic and Research Branch, Dehra Dun.
Dy. Director, Lt.-Col. S. K. S. Mudaliar, B A., A.M.I.E., M.I.S. (Ind.), M.R.S H.

Air Survey and Training Directorate, Hathibarkala, Dehra Dun.
Director, E. R. Wilson, B.A., M.I.S. (Ind.).

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Director, Dr. M. L. Roonwal, M.Sc., Ph.D. (Cantab.), F.N.I., F.Z.S.I.; *Deputy Director*, Dr. M. S. Mani, M.A., D.Sc., F.R.E.S., F.L.S.
Asst. Superintendents, Dr. B. S. Chauhan, D.Sc., Ph.D., F.Z.S., F.A.Sc., F.Z.S.I., F.A.Z.; Dr. K. K. Tiwari, M.Sc., Ph.D.; Dr. A. P. Kapur, M.Sc., Ph.D. (Lond.), D.I.C., F.R.E.S.; Dr. B. Biswas, M.Sc., D.Phil.
Curator, B. S. Lamba, M.Sc.
Asst. Zoologists, M. N. Acharji, M.Sc., F.Z.S.I.; Dr. H. C. Ray, M.Sc., D.Phil.; Dr. A. G. K. Menon, M.A., M.Sc., Ph.D.; H. Khajuria, M.Sc. (Hons.); B. K. Tikader, M.Sc.

MINISTRY OF STEEL, MINES AND FUEL

Minister, Sardar Swaran Singh.
Minister for Mines and Oil, K. D. Malaviya.
Parliamentary Secretary to the Minister for Steel, Mines & Fuel, Gajendra Prasad Sinha.

DEPARTMENT OF MINING AND FUEL

Secretary, S. S. Khera, I.C.S.
Jt. Secretaries, N. S. Mani, I.C.S.; K. N. Kaul.
Officer on Spl. Duty and Ex-Officio Jt. Secretary, K. K. Sahni.
Mining Adviser, C. H. Johnson.
Coal-Mining Adviser, A. B. Guha.

DEPARTMENT OF IRON AND STEEL

Secretary, S. Boothalingam, I.C.S.
Resident Representative of Consulting Engineers, H. M. Crowe.

Hindustan Steel Private Ltd., Parliament Street, New Delhi.

Chairman, G. Pande.
Director, Hindustan Steel Private Ltd., and General Manager, Bhilai Steel Project, Durg (M.P.), N. C. Srivastava, I.C.S.
Resident Director, Rourkela Steel Project, M. Ganapathi.
Director, Hindustan Steel Private Ltd., and General Manager, Rourkela Steel Project, Rourkela (Orissa), P. G. Bhagat.
Director, Hindustan Steel Private Ltd., and General Manager, Durgapur Steel Project, Durgapur, Dt. Burdwan (W. Bengal), K. S. I.C.S.
Directors, K. C. Mahindra; S. S. Khera, I.C.S.; Dr. A. Nagaraja Rao; M. John; N. Padmanabha Ayyar; V. Narayanan.
Secretaries, Sudhir Ghosh; P. N. Bhalla, I.A.S.

National Coal Development Corporation (Private) Ltd., Darbhanga House, Ranchi.

Managing Director, R. S. Krishnaswamy, I.C.S.
Deputy General Manager, K. K. Dass, I.C.S.
Chief Mining Engineer (B & O), D. R. Bagrov
Chief Mining Engineer (MP), S. N. Sahgal.
Chief Mining Engineer (K), R. N. Singh.
Chief Excavating Engineer, B. D. Sahi.
Chief Engineer (Civil), M. N. Das.
Senior Electrical & Mechanical Engineer, V. B. Murthy.
Chief of the Planning Section, B. R. Tooley
Mining Adviser, L. J. Barraclough.
Director of Administration, K. P. Narayan.
Law Officer, J. K. Prasad.
Financial Adviser, R. N. Basu.
Information Officer, T. V. Jayraman.
Chief Purchase Officer, S. K. Ghosh.
Dy. Chief Accounts Officer, S. Venkateswaran
Administrative Officer, N. K. Jha.
Senior Revenue Officer, G. N. Johari
Superintendents of Collieries, B. R. Pal (*Korba*) B. L. Ohri (*Giridih*); C. R. Sharma (*Karanpura*); S. C. Dey (*Kargali*).

Coal Controller. 1, Council House Street, Calcutta.

Coal Controller, P. M. Nayak, I.C.S.
Dy. Coal Controller (Production), B K Ghosh
Dy. Coal Controller (Distribution), S. V. Y Sundaram.
Secy. to Coal Controller, S. S. Garga
Chief Combustion Engineer, P. B. Purkayastha.
Asstt. Coal Controller (Statistics), P V Raghavan
Coal Supdt., Dhanbad, G. D. Ghatak

MINISTRY OF TRANSPORT & COMMUNICATIONS

Minister, S. K. Patil.

Department of Communications and Civil Aviation

Dy. Minister for Civil Aviation, Ahmed Mohiuddin.
Secretary, M. N. Philip, I.C.S.
Chairman, Air Transport Council, S. Lal, I.C.S (Retd.).
Joint Secretary, D. C. Das, I.C.S.
Chief Govt. Inspector of Railways, R. C. Sood.
Adviser, W.P.C., Dr. M. B. Sarwate.
O.S.D., C. V. Rajan.
Dy. Secretaries, V. M. Bhide, K. K. Saran, T. R. Mantan, K. K. Unni.

Civil Aviation Department, Talkatora Road, New Delhi.

Director-General of Civil Aviation, K. M. Baha.
Deputy Director-General (A), Vacant.
Deputy Director-General (T), M. G. Pradhan
India's Representative on the Council of the I.C.A.O., Montreal, D. Chakraverti.

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Dy. Director of Administration, S. P. Joshi, I.A.S
Assistant Directors of Administration, G. W. Baikhandani; M. Akber; R. A. Misra; Dina Nath.

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Deputy Directors, G. D. Nanda; A. D. Mehta; S. G. Deshpande; P. B. Bagchi.
Assistant Director (Operations), V. K. Tampi
Assistant Directors (Estates), Manohar Singh; V. Sethuraman.
Assistant Director (Insp.), J. N. Dhar.

INSPECTORATE OF FLYING

Chief Inspector of Flying, G. C. Arya (*on deputation to I.A.C.*).

TRAINING AND LICENSING DIRECTORATE

Director of Trg. & Licensing, M. C. Dikshit.
Dy. Director, J. C. Puri.
Asstt. Director (Training and Education), D. B. Kashyap.
Assistant Director (Examination & Licensing), P. S. Sanghvi.
Gliding Adviser, F. H. Irani.
Examiner of Personnel (Training & Licensing), Sq. Ldr. Piyara Singh.

AIR TRANSPORT DIRECTORATE

Director of Air Transport, R. N. Kathju.
Dy. Director of Air Transport, L. K. Dey.
Assistant Director of Air Transport, J. J. Kaka.
Senior Statistical Officer, Dr. M. K. Ganguli.

INFORMATION AND REGULATIONS DIRECTORATE

Director of Information and Regulations, S. C. Sen.
Dy. Director, Baher Mirza.
Asstt. Director, Conventions, Agreements & Legislation, G. A. Shiroor.
Asstt. Director, Information & Publications, Jugindar Singh.

AERONAUTICAL INSPECTION DIRECTORATE

Director of Aeronautical Inspection, K. L. Puri.
Deputy Directors of Aeronautical Inspection, M. H. Paranjpe; N. C. Banerji.

ACCIDENT INVESTIGATION BRANCH

Chief Inspector of Accidents, Y. R. Malhotra.

AERONAUTICAL COMMUNICATION DIRECTORATE

Director of Communication, C. R. Rao.
Deputy Directors of Communication, S. C. Bose; Saroj Datta.
Assistant Directors of Communication, R. Misra; K. R. Bharucha.

RESEARCH AND DEVELOPMENT DIRECTORATE

Deputy Director of Research and Development, S. Ramamritam.

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Controllers of Aerodromes, Santokh Singh (*Bombay*); G. S. Subramaniam (*Madras*); G. D. Singh (*New Delhi*); D. S. Jung (*Dum Dum*)

AERONAUTICAL INSPECTION

Dir., Inspection Office, Bangalore, M. L. Sodhi.
Controller of Aeronautical Inspection, J. B. Bayas (*New Delhi*); J. Sen (*Bombay*); M. N. Sitaram (*Dum Dum*); G. C. Dutta (*Bangalore*).

COMMUNICATION ORGANIZATION

Controllers, G. M. McSweeny (*Dum Dum*); A. R. Ramanathan (*Bombay*); A. J. Srivastava (*Madras*); C. L. Ahuja (*Delhi*).
Controller, Central Radio Stores Depot, New Delhi, I. S. Ahuja.
Controller, Radio Constr. and Dev. Units, New Delhi, A. R. Ravi Verma.
Principal, Civil Aviation Training Centre, Allahabad, B. M. Gupta.

CONTROLLER OF AERONAUTICAL INSPECTION, BOMBAY AIRPORT, SANTACRUZ, BOMBAY 29

Controller, J. Sen.
Senior Aircraft Inspectors, R. K. Koratkar; M. D. Naik.

CONTROLLER OF COMMUNICATION, BOMBAY REGION, JUHU AIRPORT, BOMBAY 28

Controller of Communication, Bombay Region, A. R. Ramanathan.
Controller of Aerodromes, Bombay Region, Santokh Singh.
Controller of Aeronautical Inspection, Bombay Region, J. Sen.

CONTROLLER OF AERODROMES, BOMBAY REGION, BOMBAY 23

Controller of Aerodromes, Bombay Region, Santokh Singh.
Aerodrome Officer, B. N. Kacker.
Assistant Electrical & Mechanical Officer, S. Venkaswamy.
Assistant Aerodrome Officers, B. G. Sindhi; K. K. Kurup.

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Director, Radio Meteorology, Dr. L. S. Mathur, M.Sc., D.Phil. (Allahabad).
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METEOROLOGICAL COMMUNICATION CENTRE, COLABA OBSERVATORY, BOMBAY

Assistant Meteorologist, K. M. Madhavan, B.A.

OFFICE OF THE DY. DIRECTOR-GENERAL (Climatology & Geophysics), METEOROLOGICAL OFFICE, GANESHKHIND ROAD, POONA 5

Dy. Director-General of Observatories (Climatology and Geophysics), Dr. B. N. Sreenivasiah, M.Sc., F.A.Sc.

CENTRAL SEISMOLOGICAL OBSERVATORY, SHILLONG

Seismologist, Dr. A. N. Tandon, M.Sc., D.Phil. (Allahabad).

OFFICE OF THE DIRECTOR, AGRICULTURAL METEOROLOGY, METEOROLOGICAL OFFICE, GANESHKHIND ROAD, POONA 5

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OFFICE OF THE DIRECTOR, REGIONAL METEOROLOGICAL CENTRE, ALIPORE, CALCUTTA

Regional Director, S. K. Das, M.Sc. (London), D.I.C. (London), F.R. Met. Soc.

OFFICE OF THE DIRECTOR, REGIONAL METEOROLOGICAL CENTRE, BOMBAY

Regional Director, K. N. Rao, M.Sc.

OFFICE OF THE DIRECTOR, REGIONAL METEOROLOGICAL CENTRE, MADRAS

Regional Director, C. Ramaswamy, M.A. (Hons.).

OFFICE OF THE DIRECTOR, REGIONAL METEOROLOGICAL CENTRE, CIVIL AERODROME, SONEGAON, NAGPUR

Regional Director, Dr. C. G. Pendse, M.A., Ph.D. (Cantab.).

OFFICE OF THE DIRECTOR, COLABA AND ALIBAG OBSERVATORY, BOMBAY

Director, S. L. Malurkar, M.Sc. (Cantab.).

OFFICE OF THE DY. DIRECTOR-GENERAL, SOLAR PHYSICS OBSERVATORY, KODAIKANAL

Dy. Director-General, Dr. A. K. Das, M.Sc., D.Sc. (Paris), F.R.A.S., F.N.I.

CIVIL AVIATION TRAINING CENTRE, BAMRAULI, ALLAHABAD

Meteorologist, Dr. D. N. Moghe, M.Sc., D.Sc. (Bombay).

Posts & Telegraphs

Director-General of Posts & Telegraphs, Shankar Prasada, I.C.S.*

Postal

Sr. Dy. Director-General, C. V. Cunningham.
Dy. Directors-General, R. V. Marathe (*S*); S. C. Jain (*SB*).
Dy. Director-General (P & P), Ramakrishna.
Director of Complaints, H. C. Mahindroo.
Director, Postal Life Insurance, S. B. Velankar.
Director of Staff, R. P. Singh.
Director of Planning & Establishment, H. K. Rao.
Director (Postal Technical), L. K. Narayanaswami.
Officer on Special Duty (in the grade of Director, Postal Services), K. Gopalakrishna.
Director of Accounts, P. Srinivasan.

Telegraphs

Chief Engineer, R. C. Vaish.
Chief Engineer (Plg.), P. M. Agerwala.
Dy. Director-General, Telegraphs, S. K. Kanjilal.
Director, Research, C. P. Vasudevan.
Dy. Chief Engineers, G. U. Menon, B. S. Rau, N. V. Shenoi, M. M. Kini, D. F. D. Joshi.
Director, Telephones, S. M. Agarwal.
Controller of Telegraph Traffic, S. R. Banerjee.
Director, Wireless, K. R. D. Iyengar.

Heads of Circles

Post-master-General, Central Circle, M. Dayal.
Postmaster-General, West Bengal Circle, P. B. Lahiri.
Postmaster-General, Bihar Circle, S. C. Sen Gupta.
Postmaster-General, Madras Circle, S. S. Anantha-krishnan.
Postmaster-General, Punjab Circle, M. A. J. Vasnaik.
Director, Posts & Telegraphs, Assam Circle, I. K. Gupta.
Director, Posts & Telegraphs, Orissa Circle, K. L. Bhola.
Director, Posts & Telegraphs, Rajasthan Circle, G. N. Rebello.
Director, Posts & Telegraphs, Hyderabad Circle, D. N. Ramchandani.
Director, Posts & Telegraphs, Andhra Circle, A. Swaminathan.
Director, Postal Services, Delhi Circle, S. M. Ghosh.

Heads of Administrative Offices

General Manager, P. & T. Workshops, Calcutta, B. D. Sud.
General Manager, Calcutta Telephone District, and General Manager, Calcutta Automatisation, Uma Shankar.
General Manager, Bombay Telephone District, S. R. Bhashyam.
District Manager, Telephones, Madras, Ramakant.
District Manager, Telephones, Delhi, M. De Lima.
Addl. Chief Engineer, T. & D. Circle, C. A. Cornelius.

Directors

West Bengal, Calcutta, A. N. Biswas, C. O. Thornton, T. N. Ranga Rao.
Director, Foreign Post, Bombay, S. N. Das Gupta.
Punjab Circle, P. A. Sankaranarayan; T. N. Parikh.

* Is likely to be Special Secretary for Kashmir Affairs in the Ministry of Home Affairs. Mr. V. Shanker, I.C.S., is likely to take this place.

U.P. Circle, M. N. Basu; Rama Varma; G. S. Bhatia; P. Mukundan.
Central Circle, Rabi Ray; S. G. K. Reddi.
Madras Circle, M. B. Sarangapani, C. J. Clement, I. J. Burman, M. A. Khan.
Bombay Circle, T. D. Subramanian; S. B. Krishnamoorthy; S. Ramchandra Ayyar, B. Rajagopalan; C. S. S. Rao.
Bihar Circle, M. R. Krishnan; M. S. Muthamma.

CHIEF CONTROLLER OF TELEGRAPH STORES

5, Council House Street, Calcutta 1.

Chief Controller of Telegraph Stores, S. N. Ranganathan.
Deputy Chief Controller of Telegraph Stores, P. A. M. Sastri.
Divisional Engineer, Telegraphs, Purchase, S. Rajan.
Divisional Engineer, Telegraphs, Control, P. Sen Gupta.
Divisional Engineer, Telegraphs, Disposals, P. H. Sankaranarayanan.

CONTROLLER OF TELEGRAPH STORES, SEWRI, BOMBAY 15

Controller of Telegraph Stores, Bombay, S. Rajan.
Asstt. Engineer, P. S. Menon.

CONTROLLER OF TELEGRAPH STORES, MADRAS 6

Controller of Telegraph Stores, Madras, K. R. Raghunathan, M.A.
Assistant Engineer, Stores, Madras, C. Thomas, B.Sc.
Assistant Engineer-in-charge, Branch Telegraph Store Depot, Duraisani Nagar P.O., Bangalore Dist., K. V. Durgadoss, M.A.
Assistant Engineer-in-charge, Branch Telegraph Store Depot, Trichy, R. Lakshmanan, B.Sc.

CONTROLLER OF TELEGRAPH STORES, ALIPORE, CALCUTTA 27

Controller of Telegraph Stores, Alipore, R. B. Malhotra.
Assistant Controller of Telegraph Stores, Alipore, A. K. Gupta.
Administrative Officer, G. N. Muthuswamy.
Assistant Engineer (Instrument), K. C. Kinariwala.
Assistant Engineer (Wires & Cables), S. S. Mathur.
Labour Officer, Mrs. Mukul Chakraborty.

THE GENERAL MANAGER, P. AND T. WORKSHOPS, 5, COUNCIL HOUSE STREET, CALCUTTA

General Manager, B. D. Sud.
Dy. General Manager, S. Krishnan.

OFFICE OF THE DIRECTOR OF POSTAL LIFE INSURANCE

9, Chittaranjan Avenue, Calcutta 13

Director, S. B. Velankar, I.P.S., M.A., LL.B.

OFFICE OF THE DIVISIONAL ENGINEER, WIRELESS, P. & T., ALIPORE, CALCUTTA

At Alipore

Divisional Engineer, Wireless, K. R. Nayar.
Asstt. Divisional Engineer (Wireless), V. N. Warhadkar, B.Sc., B.E. (Hons.), Tele-com.

THE SENIOR ELECTRICAL ENGINEER, TECHNICAL AND DEVELOPMENT CIRCLE TESTING SECTION, CALCUTTA-27

At Calcutta

Senior Electrical Engineer, A. K. Banerji, B.E.
Asst. Engineers (Bombay), V. Annaswamy, B.Sc. (Hons.), N. Krishnamurthy, B.A.
Asstt. Engineer (Jabalpur), S. K. Gupta, B.Sc.
Asstt. Engineer (New Delhi), D. R. Bahl, A.M.I., B.E. (Allocation).
Senior Electrical Engineer's Cable Test Room at Hindustan Cables Ltd., Asstt. Engineer, T. V. Kalyanasundaram, B.Sc.

TELEGRAPH WORKSHOPS, ALIPORE, CALCUTTA

Manager, S. Das, B.Sc. (Eng.).
Asstt. Managers, D. C. Ganguli, B.M.E., A.M.I.E. (Ind.); K. K. Banerji, B.M.E., A.M.I.E. (Ind.).

OFFICE OF THE MANAGER, TELEGRAPH WORKSHOPS, JABALPUR

Manager, N. R. Banerjee.

TELEPHONES, BOMBAY DISTRICT PLOT NO. 19-O, OFF ARTHUR BUNDER ROAD, COLABA, BOMBAY-5

General Manager, S. R. Bhashyam.
Superintending Engineer, S. D. Mital.
Directors of Planning, M. V. Dunn; K. V. Srinivasan.
Executive Engineers, W. E. Misquitta, J. P. Mattos, N. S. V. Subramaniam, B. C. Sham Maiya (Ahmedabad); S. Rama Iyer; A. S. Banavalikar.

Planning Organisation

General Manager, S. R. Bhashyam.
Directors of Planning, M. V. Dunn, K. V. Srinivasan.
Executive Engineers, I. R. Mahajan, V. Kuppa Rao, S. K. Dhandarphale, N. D. Kirpalani, A. Subramaniam, S. N. Banerjee, T. B. Shelat, S. K. Guha.

TELEPHONES, CALCUTTA DISTRICT 'TELEPHONE BHAVAN', 34, DALHOUSIE SQUARE

General Manager, Uma Shankar, B.Sc., C.E., A.M.I.T.E.
Dy. General Managers, B. K. Anantharaman (*A*); V. P. Kanetkar (*D*).

THE DISTRICT MANAGER, TELEPHONES MADRAS DISTRICT, MADRAS-1

District Manager, Rama Kant, B.Sc. (Engg.), A.M.I.T.E.
Divisional Engineer, E. V. Philip.
Administrative Officer, K. S. Doraiswamy, B.A.
Contract Officer, V. Ramaswamy.

Overseas Communications Service
Radio House, Apollo Bunder, Bombay 1.

Director-General, P. J. Rodgers, Dip. Faraday House (Lond.), A.M.I.E.E. (London).
Dy. Director-General (Tfc.), S. N. Kaira, M.I.T.E. (India).
Director (Administration) and Secretary, Board of Management, M. V. Pai, B.Sc. (Eng.), A.M.I.E.E., A.M.I.E. (India), A.M.I.T.E.
Dy. Director (Tfc.), G. D. Gokarn, B.Sc. (Bom.), Sr. M.I.E.E., A.M.I.T.E. (India).
Chief Engineer, H. N. Mukerjee, A.M.I.E.E., A.M.I.T.E. (India).

CENTRAL TRAFFIC OFFICE, O.C.S., BOMBAY

Engineer-in-Charge, J. B. F. DeSa, L.E.E., A.M.I.E.E. (Lond.).
Deputy Engineer-in-Charge, C. B. Misquitta, Dip. L.E.E.
Sr. Traffic Manager, P. E. Kouwen.

BRAM WIRELESS STATION
Dighi (Kirkee), Poona-6.

Director, V. B. Sujan, Dip. Faraday House (Lond.), A.M.I.E.E. (Lond.).
Engineer-in-Charge, M. J. Gandhi, M.Sc., Dip. I.I.Sc.

BRAM WIRELESS STATION, DHOND.

Engineer-in-Charge, P. M. Kakodkar, Dip. Faraday House (Lond.).

OFFICE OF THE DIRECTOR, O.C.S., A-BARRACKS, JANPATH, NEW DELHI

Director, G. M. Patel, B.Sc., Dip. I.I.Sc., A.M.I.E.E.
Engineer-in-Charge, B. S. Dutt, L.E.E.

MADRAS STATION (ADMINISTRATIVE OFFICE, 30, MUKER MALLAMUTHU STREET, MADRAS)

Engineer-in-Charge, V. P. Oldfield, Member, A.I.E.E., Dip. Elect. Engg. (U.S.A.).

CALCUTTA STATION (ADMINISTRATIVE OFFICE, NARAYANI BLDG., 4TH FLOOR, BRABOURNE ROAD, CALCUTTA)

Director, B. V. Rao, B.Sc., A.M.I.E.E. (Lond.), A.M.I.E.E. (India).
Engineer-in-Charge, K. M. Balchandani, B.E. (Mech.), A.M.I.E. (India), A.M.I.T.E. (India).

Department of Transport.

Minister of State, Raj Bahadur.
Secretary, R. L. Gupta, I.C.S.
Jt. Secretary & Director-General of Shipping, Dr. Nagendra Singh, I.C.S.
Development Adviser & Ex-Officio Joint Secretary, H. P. Matharani, I.S.E.
D.G., Tourist Department and Ex-Officio Joint Secretary, S. N. Chib.
Consulting Engineer (R.D.) and Jt. Secretary, H. P. Sinha, I.S.E.
Dy. Secretaries, T. S. Parasuraman; S. K. Ghosh; D. D. Suri, I.A.S.; K. Ranganathan; K. Narayanan.

Directorate General of Shipping.

'Commerce House', Ballard Estate, Bombay.

Director-General of Shipping, Dr. Nagendra Singh, I.C.S.
Deputy Director-General of Shipping (Sr.), P. R. Subramanian.
Dy. Directors-General, S. V. Kailasapathy, Govind H. Seth; S. C. Chhabra.
Assistant Directors-General of Shipping, D. P. Thakur; T. K. Sarangan; N. K. Gopalan Nair; D. N. Phull.
Nautical Adviser to the Government of India, Capt. W. B. Piggot.
Dy. Nautical Adviser, Capt. Gur Saran Singh
Chief Surveyor, Capt. T. B. Bose.
Dy. Chief Surveyor with the Government of India, K. Parthasarathy.
Engineer & Ship Surveyor, J. M. Trindade.
Ship Surveyor, D. B. Irani.
Nautical Surveyor, O. J. D'Souza

NAUTICAL & ENGINEERING COLLEGE
Azad Maidan, Fort, Bombay 1.

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Vice-Principal, S. Kasthuri.
Lecturers in Navigation, Capt. M. G. Parar; Capt. P. M. Sarma; Capt. I. C. Miller, Capt. Trilok Singh; Capt. P. D. Gupta.
Lecturer in Mathematics and Science, K. V. Sastry.
Lecturer in Mathematics (Engg.), C. B. C. Rao.
Lecturer in Applied Science, R. N. Krupa
Lecturer in Engineering, R. D. Rage

TRAINING SHIP "DUFFERIN", OFF MAZGAON PIER, BOMBAY 10.

Captain Superintendent, Captain M. F. S. C. Harvey, R.D., F.R.G.S., M.I.N., Assoc.I.N.A., J.P.
Chief Officer, N. K. Kershaw, Master Mariner (*Offg.*).
Executive Officers, Indrajit Singh, M.I Mar Tech, Master Mariner; H. K. D. Patel; A. P. Kothurkar; I. D. Hyams.
Medical Officer, Dr. E. St. C. Wilkinson.
Lecturer-in-Charge, P. N. Verma, M.Sc.

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Lecturers in Engineering, K. S. Subramaniam, B. D. Marchant, R. A. Kamath.
Lecturer in Applied Science, K. C. Pal
Supervisor in Workshop Training, P. N. Mathur.
Medical Officer, Dr. P. B. Pramanick.

Azad Maidan, Wandby Road, Bombay, 1.

Dy. Director, S. Kasthuri.
Lecturer in Engineering, B. S. Rawal.
Lecturer in Applied Science, M. S. Tambe
Supervisor of Workshop Training, B. N. Guha Biswas.

MERCANTILE MARINE DEPARTMENT

Bombay—Commerce House, Ballard Estate, Bombay.
Principal Officer, T. Berry.
Calcutta—Marine House, Hastings, Calcutta.
Principal Officer, B. K. Gupta.
Madras—Old High Court Bldgs., Madras.
Principal Officer, S. K. Kumarhia.

DECK PASSENGER WELFARE OFFICE

Secretary, N. C. Trivedi.

TRAINING SHIP "BHADRA"

H-Berth, King George's Dock, Calcutta 24.

Captain Superintendent, Captain J. D. Mody, I.N.
Executive Officer, O. Langan.
Engineer Officer, J. Pestonjee.

TRAINING SHIP 'NAU LAKSHI', NAVLAKHI (BOMBAY STATE)

Captain Superintendent, Captain D. G. Hazari, M.I.Mar.Tech.

TRAINING SHIP "MEKHALA", VIZAGAPATAM PORT

Captain Superintendent, Captain R. J. Sampson.
Executive Officer, D. P. Srivastava.
Engineer Officer, O. P. Saini.

MAJOR PORT AUTHORITIES

Chairman, Commissioners, Calcutta, R. K. Mitra.
Chairman, Madras Port Trust, G. V. Ayyar, I.C.S.
Chairman, Bombay Port Trust, L. T. Gholap, I.C.S.
Adm. Officer, Cochin, M. S. Venkataraman.
Dep. Commissioner, Kandla, P. N. Saxena.
Administrative Officer, Vishakapatnam, S. Nanjundiah.

GOVERNMENT SHIPPING OFFICES

Calcutta—Marine House, Hastings, Calcutta.
Shipping Master, K. C. Ray.
Bombay—Gulam Mohammed Bldg., 10, *Nicol Road, Ballard Estate, Bombay.*
Shipping Master, T. V. Rajagopalan.

SEAMEN'S EMPLOYMENT OFFICE, BOMBAY

Director, S. C. Chabbra.
Joint Director, Lt.-Commander (S), P. G. Gokhale.

SEAMEN'S EMPLOYMENT OFFICE, CALCUTTA

Director, K. C. Ray

SEAMEN'S WELFARE OFFICE

Bombay—Gulam Mohammed Bldg., Ballard Estate, Bombay.
Principal Seamen's Welfare and Civilian Passage Officer, S. Bannerjee.
Calcutta—Marine House, Hastings, Calcutta.
Seamen's Welfare Officer, D. Ghosh.

REGIONAL OFFICE (SAILS)

Regional Officer, Bombay, M. S. Dadarkar.
Regional Office, 155, *Beach Road, Tuticorin*
Regional Officer, V. Ranganathan.
Regional Office, 53/10, *Beswad Road, Masulipatam.*
Regional Officer, R. Srinivasan.

Lighthouse and Lightships Department

Director-General of Lighthouses and Lightships and Chief Inspector of Lighthouses in India, New Delhi, S. K. Lahiri.
Executive Engineer & P.A. to the Director-General, S. L. Kapoor.
Administrative Officer, M. L. Chopra.
Executive Officer, Raghu Nath.
Executive Officer (Admn.), Mohinder Singh.
Accounts Officer, C. V. S. Murty.
Engineer, Department of Lighthouses & Lightships and Inspector of Lighthouses in India (Bombay), M. C. Chaudhuri.
Engineer (Radio), Department of Lighthouses & Lightships, Calcutta, B. Y. Wad.
Engineer, Department of Lighthouses & Lightships, and Director of Lighthouses & Lightships, Madras, M. D. Narasimhachari.
Installation Engineer, M. Dyminski.
Executive Engineer (Electrical), B. S. Srivathsan.
Marine Officer, M. M. Kaul.
Executive Engineer (Civil), N. R. Gopalaswami.
Director of Lighthouses & Lightships, Saurashtra Kutch, Jamnagar, P. K. Dave.
Director of Lighthouses & Lightships, Calcutta, K. R. Bose.
Director of Lighthouses & Lightships, Bombay, T. C. Seth, I.R.S.
Deputy Director of Lighthouses & Lightships, Bombay, S. J. Israel.
Resident Engineer, Madras, P. T. N. Nair.
Resident Engineer, Calcutta, R. Swaminathan.
Resident Engineer, Bombay, D. B. Desai.
Resident Engineer, Jamnagar, C. V. Chauhal.
Master, 'M.S. Pradeep', T. E. Kelso.
Chief Engineer, 'M.S. Pradeep', S. Miskeith.
Chief Officer, 'M.S. Pradeep', M. A. Adam.

MINISTRY OF WORKS, HOUSING AND SUPPLY

Minister, K. C. Reddy.
Deputy Minister, A. K. Chanda.
Secretary, M. R. Sachdev, I.C.S.
Joint Secretaries, R. F. Isar, I.C.S.; K. S. Krishnaswami, I.D.A.S.
Housing Commissioner, N. P. Dube.
Deputy Secretaries, S.P. Saxena; I. S. Sundarajan, I.A.S.; D. P. Karnik, R. Ananda Krishna, I.A.S.; K. G. S. Pisharody, I.A.S.; J. G. Kumaramangalam; P. K. Sen; J. S. Mongia.
Technical Officers, S. N. Sen Gupta (*Tech. Adviser, Boilers*); L. S. Selvam (*Chief Technical Examiner*); M. S. Bhatia (*Housing Adviser*).
Private Secretary to Minister, D. R. J. Naidu.
Assistant Private Secretary to Minister, P. Lakshmanan.
Private Secretary to Secretary, K. R. S. Acharya.

Central Public Works Department

(Central Office, New Delhi).

Chief Engineer, J. M. Righwani, I.S.E.
Director of Administration, I. C. Puri.
Deputy Directors of Administration, R. Rajagopalan; H. K. Bansal; N. R. Verma.
Standing Counsel, G. T. Gajaria.
P. As. to Chief Engineer, T. J. Makhijani, C. Rama Rao, S. K. Bose.
Additional Chief Engineers, (*Central Zone*), M. L. Nanda; (*Northern Zone*) B. K. Guha; (*Southern Zone*), N. G. Dewan, I.S.E.
Superintending Engineer (V), O. Muthachen.
Additional Chief Engineer, Union Territories, D. N. Endlaw.
Superintending Engineer, Arbitration, O. P. Mittal.

ARCHITECT BRANCH, CENTRAL PUBLIC WORKS DEPARTMENT

Chief Architect and Town Planner, S. K. Joglekar, F.R.I.B.A., A.M.T.P.I.

Department of Explosives, Travancore House, Hutments, Canning Road, New Delhi.

Chief Inspector of Explosives, New Delhi, B. N. Pal, M.Sc.
Deputy Chief Inspectors of Explosives, New Delhi, T. K. Lahiri, M.Sc., A.R.I.C.; S. N. Lahiri, M.Sc.
Inspector of Explosives, West Circle, Bombay, M. P. Mukherjee, M.Sc.
Inspector of Explosives, East Circle, Calcutta, S. C. Roy, M.Sc.
Inspector of Explosives, North Circle, Agra, K. S. Subramanyam, B.Sc.
Inspector of Explosives, South Circle, Madras, I. N. Murthy, M.Sc. (Tech.).
Inspector of Explosives, Central Circle, Nagpur, J. K. John, M.Sc. (Tech.).
Inspector of Explosives, East Circle, Calcutta, V. A. Chandrasekharan, M.Sc.
Inspector of Explosives, Chemical Laboratory, Calcutta, B. N. De, M.Sc.
Inspector of Explosives, New Delhi, K. Sankaran, M.Sc.
Inspector of Explosives, New Delhi, S. N. Gupta, B.Sc.
Administrative Officer, B. M. Banerji.

Directorate General of Supplies and Disposals

(Headquarters Office)
Shahjehan Road, New Delhi.

Director-General of Supplies & Disposals, V. N. Rajan, I.C.S.

ADMINISTRATION BRANCH

Director (Administration and Co-ordination), T. Gonsalves.
Deputy Directors, G. L. Gupta; S. Thyagarajan.
Vigilance & O. M. Officer, Jagdish Chandra.

CO-ORDINATION & STATISTICS DIRECTORATE

Director, Co-ordination & Statistics, S. C. Murgai.
Dy. Director (Import & Shipping), B. Sengupta.
Dy. Directors (Cdn.), N. R. Barat; A. R. Iyer.
Dy. Director (Registration), Ratan Singh.
Dy. Director (Statistics), P. B. Brahma.
Secretary, Standing Advisory Committee on Central Purchase, B. D. Kumar.

SUPPLIES WING

Deputy Director-General (Supplies & Disposals), Qurban Singh.
Dy. Director-General (Supplies), S. T. Thadani.
Dy. Director-General (Progress), K. C. Khosla.
O.S.D. (Litigation), Kali Sharan.
O.S.D. (Arbitration), H. C. Daga.

RAILWAY STORES DIRECTORATE

Director of Supplies, K. Krishna.
Deputy Directors (Supplies), P. L. Chopra; S. C. Agarwal; V. Subramaniam.

ENGINEERING STORES DIRECTORATE

Director of Supplies, I. N. Khanna.
Deputy Directors (Supplies) S. P. Chatterjee; K. J. Shenoy; S. B. Sudame; Lt.-Col. K. J. M. Jadela.

MISCELLANEOUS & CHEMICAL STORES DIRECTORATE

Director of Supplies, K. N. Rao.
Deputy Directors (Supplies), P. B. Sarkar; B. R. R. Iyengar.

TEXTILE, LEATHER AND VEHICLES STORES DIRECTORATE

Director of Supplies, J. Manekshа.
Deputy Director (Supplies), P. G. Barde; Dr. Om Prakash.

WORKS PROGRAMME DIRECTORATE

Special Director of Supplies (Works Programme), P. N. Batra.
Dy. Director (Steel & Rly. Cell), G. P. Kapur.
Dy. Directors, F. W. Stevens; K. S. Rajagopalan.

PROGRESS WING

Director (Progress), J. L. Chopra.
Deputy Directors, B. C. Sharma (*Progress*); B. C. Muzumdar; C. J. A. F. Lobo (*Supplies*).
Disposals Wing—

FINALIZATION DIRECTORATE

Control Officer, V. V. Chandrasekharan.
O.S.D. (Accounts), P. S. Sundaram.
Deputy Director, I. S. Ahuja.

DISPOSALS WING

Director of Supplies, A. R. R. Deshpande.
Dy. Directors, C. L. Katial; Avtar Singh.

DIRECTORATE OF SUPPLIES AND DISPOSALS

6, Esplanade East, Calcutta

Director of Supplies and Disposals, H. V. Karve.
Deputy Directors of Supplies, I. S. Sud; K. K. Nag.
Deputy Director of Disposals, A. K. Balasubramanian.
Deputy Director (Progress), H. H. Ahuja.
Asstt. Director (Administration), P. N. Barry.
Asstt. Directors of Shipping, P. V. Ramanathan; B. C. Sen Gupta.

Asstt. Directors (Supplies), K. L. Bhala; P. K. Bose; R. C. Das Gupta; S. N. Niyogi; H. T. Elias; R. N. Sethi; P. K. Mukherjee; S. K. Mullick; K. C. Mittra; S. C. Banerjee.

Asstt. Directors (Progress Wing), S. K. Dutt; S. K. Roy; S. K. Ganguly.

Asstt. Directors (Disposals), S. Joyaraman; A. D. Sharma; P. S. Rajagopalan.

DIRECTORATE OF SUPPLIES AND DISPOSALS

Sapt Building, Graham Road, Ballard Estate, Bombay.

Director of Supplies & Disposals, S. S. Venkatakrishnan.
Deputy Director of Supplies, K. H. Cama.
Asstt. Director of Shipping, V. K. Kamath.
Asstt. Director (Administration), J. F. Fernandes.

DIRECTORATE OF SUPPLIES (TEXTILES), SHAHIBAG HOUSE, WITTET ROAD, BALLARD ESTATE, BOMBAY

Director of Supplies (Textiles), Dr. S. K. Mitra.
Deputy Directors of Supplies, S. P. Kaura; S. S. Puri.
Asstt. Director (Administration), Makhan Singh.

DIRECTORATE OF SUPPLIES AND DISPOSALS, INDIAN MUTUAL BLDGS., 10, MOUNT ROAD, MADRAS.

Director of Supplies and Disposals, A. D. Rao.
Asstt. Director of Shipping, M. A. B. Chugtai.
Asstt. Director (Disposals), S. T. Singarachari.
Asstt. Director (Supplies), N. Venkataraman.
Asstt. Director (Progress), K. S. Pattabhiraman.

GOVERNMENT TEST HOUSE, 11/1, JUDGES' COURT ROAD, ALIPORE, CALCUTTA

Director, S. N. Mukherji.
Deputy Directors (Chem./Phy.), K. K. Chatterji; K. D. Bhattacharya.
Dy. Director (X-Ray), N. C. Bagchi.

INSPECTION WING
(Headquarters Office)
Shahjahan Road, New Delhi.

Dy. Director-General (Inspection), J. S. Mathur.
Directors of Inspection, S. S. Roy, J. M. Marathe.
Dy. Director of Inspection, G. K. Ahuja.

NORTH WEST INDIA INSPECTION CIRCLE
Shahjahan Road, New Delhi.

Deputy Director (Inspection), S. N. Das Gupta.
Inspecting Officers, Kartar Singh, P. C. Kapoor.

CALCUTTA INSPECTION CIRCLE
1, Ganesh Chandra Avenue, Calcutta 13.

Director of Inspection, R. N. Mookerjee.
Dy. Directors of Inspection, B. R. Barua; N. Gupta; B. N. Majumdar; U. S. Savakoor; H. S. Grewal; S. N. Mukherjee; Syed Jan; M. M. Bose.
Inspecting Officers, C. D. Dandekar; H. D. Balhar; B. Banerjee; K. K. Das; M. L. Dutta Roy; G. N. Gidwani; R. N. Gupta; S. R. Gupta; S. R. Kochhar; M. L. Mukherjee; C. S. Rao; U. P. Rao; L. M. Ray (*on deputation to Japan*); P. G. Sinha.

BOMBAY INSPECTION CIRCLE
New Marine Lines, Bombay.

Director of Inspection, E. T. Ramachandra.
Dy. Directors of Inspection, A. K. Bakshi; G. Kuppuswamy; S. R. Rao; P. R. Parkar.
Inspecting Officers, R. C. Chaturvedi; G. S. Athavale; D. P. Chatterjee; R. C. Mathur; A. K. Pramanick; K. G. Sastri; H. B. Neale; G. S. Subbaraman.

MADRAS INSPECTION CIRCLE

Indian Mutual Bldgs., 10, Mount Road, Madras.

Dy. Director of Inspection, I. L. Patel.
Inspecting Officers, P. L. Kathuria; A. S. Nagarkatti; P. C. Roy.

METALLURGICAL INSPECTORATE
TATANAGAR

Director of Inspection, S. C. Lahiry.
Deputy Directors of Inspection, S. K. Lahiri; E. K. N. Nambiar; S. C. Bose; T. K. Warrier.

BURNPUR METALLURGICAL INSPECTORATE

Deputy Directors of Inspection, G. T. Athavale; G. S. Pandya.

KANPUR INSPECTION CIRCLE
4/286, Nawabganj, Kanpur

Deputy Director of Inspection, S. N. De (*on leave*), Randhir Singh (*Offg.*).
Inspecting Officers, G. M. Gadre; S. Krishnan.

Government of India Forms Press, Civil Lines, Aligarh.

Manager, D. P. Mukerji.
Assistant Manager (Tech.), V. O. Oomman.
Assistant Manager (Admn.), V. N. Khullar.
Labour Officer, G. P. Srivastava.
Medical Officer, Dr. Pearey Lal.

Government of India Photo Litho Press, Minto Road, New Delhi.

Manager, C. Biswas.
Chief Process Officer, A. K. Gavaskar.
Chief Production Officer, N. C. Sen.

Government of India Forms Store, 166, Dharamtala Street, Calcutta.

Manager of the Forms Press and Forms Store, B. C. Sen Gupta
Assistant Managers, Forms Store, K. L. Mitra; N. K. Ghosh.
Officer in Charge, Central Paper Store, Santragachi, J. Banerjee.

Government of India Forms Press, 1, Temple Street, Calcutta.

Asstt. Managers, S. K. Chakrabarti, B.A., B.L., L. E. Thomas.

Government of India Press, 8, Hastings Street, Calcutta 1.

Manager, B. K. Roy.
Asstt. Manager (Administration) (I), S. P. Ghosh.
Asstt. Manager (Administration) (II), S. N. Bhattacharjee.
Assistant Manager (Technical), R. B. Mitra.
Labour Officer, S. P. Das Gupta.

Government of India Press, New Delhi.

General Manager, M. K. Majumdar.
Works Manager, Chas. E. James.
Assistant Managers (Administration), Hans Raj Jain; J. P. Kudesia.
Asstt. Managers (Technical), K. C. Paul; H. Sambamurthi; K. Janakiramnan.
Assistant Manager (Printing Instructor), K. C. Paul.
Labour Officer, P. P. Balakrishnan.

Government of India Press, Simla.

Manager, Chas. E. James.
Asstt. Manager (Tech.), N. Das Gupta.
Asstt. Manager (Admn.), K. C. Chatterji.

Printing and Stationery Department, New Delhi.

Chief Controller of Printing and Stationery, C. V. Subrahmanyam.
Controller of Printing, A. C. Sen.
Deputy Controller (Administration), V. S. Vaid
Deputy Controller (Planning), A. N. Sen.
Deputy Controller General, S. R. Sethi.
Assistant Controllers (Printing), N. Visvanathan; A. Bhawani Shanker; Jivan Das; V. Ramachandran; H. S. Jain; Dharam Singh Sethi, D. P. Puri.

Government of India Press, Nasik.

Manager, R. Ramaswamy.
Asstt. Manager (Tech.), E. Misal.
Asstt. Manager (Admn./Estate), Dina Nath
Labour Officer, H. N. Pande.

Government of India Stationery Office, 3, Church Lane, Calcutta.

Controller of Stationery, Manmohan Singh
Dy. Controller of Stationery, P. Banerjea
Dy. Controller Inspection, Dr. P. N. Sahai

SUPREME COURT OF INDIA, PARLIAMENT HOUSE, NEW DELHI

Chief Justice of India, The Hon'ble Mr Justice Sudhi Ranjan Das.
Judges, The Hon'ble Mr. Justice N. H. Bhagwati; The Hon'ble Mr. Justice B. Jagannadhadas (appointed Chairman, Pay Commission since 8-9-'1957); The Hon'ble Mr Justice T. L. Venkatarama Aiyar; The Hon'ble Mr Justice B. P. Sinha; The Hon'ble Mr. Justice Syed Jafer Imam; The Hon'ble Mr. Justice S. K. Das; The Hon'ble Mr Justice J. L. Kapur, The Hon'ble Mr. Justice P. B. Gajendragadkar, The Hon'ble Mr. Justice Amal Kumar Sarkar, The Hon'ble Mr. Justice Vivian Bose, The Hon'ble Mr. Justice K. Subba Rao.
Registrar, Arindam Dutt.
Dy. Registrars, S. N. Sharma, Guru Dutta.
Asstt. Registrars, Kedar Nath Gupta; C. M. Rao; M. P. Saxena; V. Krishnan, S. K. Gupta
Officer on Special Duty: K. K. Krishnaswami Ayar.
Editor, Supreme Court Reports, K. B. Bagchi.

UNION PUBLIC SERVICE COMMISSION

Dholpur House, P. Box 186, Shahjahan Road, New Delhi 2.

Chairman, V. S. Hejmadi, I.C.S.
Members, S. V. Kanungo; J. Sivashanmugam Pillai; C. V. Mahajan; Dr. G. S. Mahajani; Dr. J. N. Mukherjee; P. L. Varma, S. H. Zaheer, I.C.S.
Secretary, C. Ganesa Aiyar.

INDIAN POLITICAL REPRESENTATIVES ABROAD

Country	Name	Designation	Address	Station
	EMBASSIES			
AFGHANISTAN.	S. N Haksar.	Ambassador	Embassy of India, Shahr-e-Arad, Kabul.	Kabul.
ARGENTINA.	N. Raghavan.	Ambassador	Embassy of India, Lavalle 462 (5th floor), Buenos Aires.	Buenos Aires.
BELGIUM.	M. A. Rauf.	Ambassador (Concurrently Minister to Luxembourg).	Embassy of India, 62, Avenue Franklin Roosevelt, Brussels.	Brussels.
BRAZIL.	M. K. Kirpalani.	Ambassador	Embassy of India, Rua Barao de Flamengo 22, Apt. 801-802, Rio de Janeiro.	Rio de Janeiro.
BURMA.	Lalji Mehrotra.	Ambassador	Embassy of India, Randeria Buildings, Phayre Street, P. Box No. 751, Rangoon.	Rangoon.
CAMBODIA.	V. M. M. Nair.	Ambassador	Embassy of India.	Pnom Penh.
CHILE	R. S. Mani.	Ambassador	Embassy of India.	Santiago de Chile.
CHINA.	G. Parthasarathy.	Ambassador (Concurrently accredited to Mongolia) ..	Embassy of India, 32. Tung Chiao Min Hsiang, Peking.	Peking.
CZECHOSLOVAKIA.	J. N. Khosla.	Minister (Charge d'Affaires) ..	Embassy of India 22, Thunovska, Prague III.	Prague.
DENMARK.	K. S. Chowdhry.	Ambassador (Also Ambassador to Sweden and Minister in Finland. Resident in Stockholm).	——	Stockholm.
ETHIOPIA.	Niranjan Singh Gill.	Ambassador	P.O. 528, Addis Ababa.	Addis Ababa.
FRANCE.	K. M. Panikkar.	Ambassador	Embassy of India, 15, Rue Alfred Dehodeneq, Paris.	Paris.
GERMANY (Federal Republic).	B. F. H. B. Tyabji.	Ambassador	Embassy of India, 262, Koblenzerstrasse, Bonn.	Bonn.
GREECE	Ali Yavar Jung.	Ambassador	Indian Embassy.	Belgrade.
INDONESIA.	Arthur S. Lall.	Ambassador	Embassy of India, P. Box No. 118, 44 Kebon Serih, Djakarta.	Djakarta.
IRAN.	T. N. Kaul	Ambassador	Embassy of India, Avenue Shah Raza, Tehran.	Tehran.
IRAQ.	I. S. Chopra.	Ambassador (Concurrently accredited to Jordan as Minister).	6/8, Safi-ul-Deen el-Hilly Street, Waziriah, Baghdad.	Baghdad.
IRELAND.	Shrimati Vijayalakshmi Pandit.	Ambassador (Also High Commissioner in U.K. Resident in London).	——	London.
ITALY.	Khub Chand.	Ambassador	Embassy of India, *via* Francesco Dense, 86, Rome.	Rome.
JAPAN.	Vacant.	Ambassador	Embassy of India (Naigai Building), 5th Floor, No. 13-20, Chome Marunouchi, Chiyodaku, Tokyo.	Tokyo.
LAOS.	Raja Bahadur Sardar Singh of Khetri.	Ambassador	Indian Embassy.	Vientiane.
MEXICO.	Vacant.	Ambassador (Also Ambassador in U.S.A. Resident at Washington. First Secretary acts as C.D.A. during absence of Ambassador from Mexico).		
	J. K. Ganju.	First Secretary.		
MONGOLIA.	G. Parthasarathy.	Ambassador	Indian Embassy.	Peking.
MOROCCO.	R. G. Rajwade.	Charge d'Affaires	——	Rabat.
NEPAL.	Bhagwan Sahay.	Ambassador	Embassy of India, Kathmandu.	Kathmandu.
NETHERLANDS.	J. A. Thivy.	Ambassador	Embassy of India, Buitenrustweg 2, The Hague.	The Hague.
NORWAY.	Maharao Radan Singhjiof Kutch.	Ambassador	Embassy of India.	Oslo.
PHILIPPINES.	Maj.-Gen. M. S. Chopra.	Ambassador	Embassy of India, 914, Nebraska, Manila.	Manila.
POLAND.*	S. K. Roy.	Charge d'Affaires	Embassy of India.	Warsaw.
RUMANIA.	Ali Yavar Jung.	Ambassador (Also Ambassador to Yugoslavia and Minister in Bulgaria. Resident in Belgrade).		Belgrade.
SAUDI ARABIA.	M. K. Kidwai.	Ambassador	Embassy of India	Jedda.
SPAIN.	Shrimati Vijayalakshmi Pandit.	Ambassador (Concurrently accredited to U.K. as High Commissioner).	——	London.
SUDAN.	C. P. Matthen.	Ambassador	——	Khartoum.
SWEDEN.	Kewal Singh.	Ambassador. (Concurrently Ambassador to Denmark and Minister to Finland). ..	Embassy of India, Strandvagen 47 IV, Stockholm.	Stockholm.
SWITZERLAND.	M. K. Vellodi.	Ambassador (Concurrently accredited as Minister to the Vatican and Austria).	Embassy of India, 50, Thurtrasse, Berne.	Berne.
THAILAND.	A. M. Sahay.	Ambassador	Embassy of India, 37, Phyathai Road, Bangkok.	Bangkok.
TUNISIA.	R. G. Rajwade.	Charge d'Affaires (Resident in Rabat, Morocco)	——	Rabat.

* Ambassador to Russia is concurrently accredited to Poland as Ambassador (Residence: Moscow).

Country or Town	Name	Designation	Address	Station
TURKEY.	V. H. Coelho.	Charge d'Affaires	Embassy of India, No. 44, Kizilirmak Sokak, Kocatepe, Ankara.	Ankara.
UNITED ARAB REPUBLIC.	R. K. Nehru.	Ambassador	Embassy of India, No. 29, Sharia Hassan Pasha (Flat 7), Zamalak, P.O. Box 718, Cairo.	Cairo.
UNITED STATES OF AMERICA.	Vacant.	Ambassador (Concurrently accredited to Mexico).	Embassy of India, 2107 Massachusetts Avenue, N.W. Washington 8, D.C.	Washington.
U.S.S.R.	K. P. S. Menon.	Ambassador (Concurrently accredited to Hungary as Minister and Poland as Ambassador).	Embassy of India, No. 6 and 8, Ulitsa Obukha, Moscow.	Moscow.
YUGOSLAVIA.	Ali Yavar Jung.	Ambassador (Concurrently accredited as Ambassador to Rumania and Minister in Bulgaria).	Embassy of India, Hotel Majestic, Belgrade.	Belgrade.
		HIGH COMMISSIONS		
AUSTRALIA.	P. A. Menon.	High Commissioner (Concurrently accredited to New Zealand).	Civic Centre, Canberra.	Canberra.
CANADA.	C. S. Venkatachar.	High Commissioner	200, McLaren Street. Ottawa, Ontario.	Ottawa.
CEYLON.	Y. D. Gundevia.	High Commissioner	Gaffoor Building, Fort, Colombo; P.O. Box No. 47, Colombo.	Colombo.
GHANA.	B. K. Kapur.	High Commissioner (also Commissioner in Nigeria).	Accra.	Accra.
MALAYA.	S. K. Banerji.	High Commissioner (Also Commissioner in Singapore).	——	Kuala Lumpur.
NEW ZEALAND.	P. A. Menon.	High Commissioner (Also High Commissioner in Australia. Resident in Canberra).	——	Canberra.
PAKISTAN.	Rajeshwar Dayal.	High Commissioner	Valika Mahal, Jehangir Sethna Road, New Town, Karachi 5.	Karachi.
	D. N. Chatterjee.	Dy. High Commissioner.		
DACCA.	S. N. Maitra.	Dy. High Commissioner ..	Baitul Aman, Mymensing Road, P.O. Ramna, Dacca.	Dacca.
RAJASHAHI (E. Bengal).	S. C. Nandi.	Assistant High Commissioner.	——	Rajshahi.
UNITED KINGDOM.	Shrimati Vijayalakshmi Pandit.	High Commissioner (Concurrently Ambassador to Ireland and Spain).	India House, Aldwych, London, W.C.2.	London.
	M. Azim Hussain.	Deputy High Commissioner.		
		LEGATIONS		
ALBANIA.	Khub Chand.	Minister.	Indian Embassy.	Rome.
AUSTRIA.	M. K. Vellodi.	Envoy Extraordinary & Minister Plenipotentiary (Also Ambassador in Switzerland and Minister to the Vatican. Resident in Berne).	Legation of India, 17, Geyergasse (Entrance 2, Spitzeggasse), Vienna.	Berne.
BULGARIA.	Ali Yavar Jung.	Minister (Also Ambassador in Yugoslavia and Rumania. Resident in Belgrade).	——	Belgrade.
CUBA.	Vacant.	Minister (also Ambassador in U.S.A.).	Embassy of India.	Washington.
FINLAND.	Kewal Singh.	Minister (Also Ambassador to Sweden and Denmark. Resident in Stockholm).	——	Stockholm.
HUNGARY.	K. P. S. Menon.	Minister (Also Ambassador in U.S.S.R. and Poland. Resident in Moscow).	——	Moscow.
	M. A. Rahman.	Charge d'Affaires	Legation of India.	Budapest.
JORDAN.	I. S. Chopra.	Minister (Also Ambassador to Iraq. Resident in Baghdad).		
LEBANON.	R. K. Nehru.	Minister (Also Ambassador to United Arab Republic and Minister in Libya. Resident in Cairo).	——	Cairo.

Country or Town	Name	Designation	Address	Station
LIBYA.	R. K. Nehru.	Minister (Also Ambassador to United Arab Republic and Minister in Lebanon. Resident in Cairo).	Information Service of India, Rue-Bliss, Opposite American University on Tram Line, Beirut.	Cairo.
LUXEMBURG.	M. A. Rauf.	Minister (Also Ambassador to Belgium. Resident in Brussels).	——	Brussels.
VATICAN.	M. K. Vellodi.	Minister (Concurrently accredited Ambassador in Switzerland and Minister in Austria. Resident in Berne).	——	Berne.
		SPECIAL MISSIONS		
BHUTAN.	Apa B. Pant.	Political Officer (Also Political Officer in Sikkim. Resident in Sikkim).	——	Gangtok.
LAOS.	Dr. S. Ansari.	Chairman, International Supervisory Commission.	——	Vientiane.
SIKKIM.	Apa B. Pant.	Political Officer in Sikkim (Also Political Officer in Bhutan).	Gangtok *via* Siliguri (West Bengal).	Gangtok.
UNITED NATIONS.	C. S. Jha.	Permanent Representative of Government of India at the United Nations Headquarters (with rank of Envoy Extraordinary & Minister Plenipotentiary).	India Delegation to the United Nations, New India House, 3-East 64th Street, New York.	New York.
		COMMISSIONS		
ADEN.	A. S. Dhawan.	Commissioner for the Government of India.	Office of the Commissioner for the Government of India, Aden.	Aden.
BRITISH EAST AFRICA.	Prem Kishen.	Commissioner for the Government of India (Accredited to Southern Rhodesia, Northern Rhodesia and Nyasaland as Commissioner and the Belgian Congo and Ruanda Urundi as Consul-General).	India House, Duke Street, P.B. No. 2274, Nairobi (Kenya).	Nairobi.
BRITISH WEST INDIES (Including British Guiana).	N. V. Rajkumar.	Commissioner for the Government of India.	Hajal Building, Port of Spain, Trinidad, B.W.I.	Port of Spain.
FIJI.	Devi Dayal Bhatia.	Commissioner for the Government of India.	Vishal Bharteeya Buildings, Waimanu Road, Suva.	Suva.
HONG KONG.	B. P. Adarkar.	Commissioner for the Government of India.	Dina House, Duddel Street, Hong Kong.	Hong Kong.
MAURITIUS.	Maj.-Gen. B. Chatterji.	Commissioner for the Government of India.	Camp-de-Mars, Port Louis, Mauritius.	Port Louis.
NIGERIA.	B. K. Kapur.	Commissioner (Also High Commissioner in Ghana. Resident in Accra).	——	Accra.
NYASALAND.	Prem Kishen.	Commissioner (Also Commissioner in British East Africa, Southern Rhodesia, Northern Rhodesia and Consul-General in Belgian Congo and Ruanda Urundi. Resident in Nairobi).	——	Nairobi.
NORTHERN RHODESIA.	Prem Kishen.	Commissioner (Also Commissioner in British East Africa, Nyasaland, Southern Rhodesia and Consul-General in Belgian Congo and Ruanda Urundi. Resident in Nairobi).	——	Nairobi.
SINGAPORE.	S. K. Banerji.	Commissioner (Also High Commissioner in Malay).	——	Kuala Lumpur.
SOUTHERN RHODESIA.	Prem Kishen.	Commissioner (Also Commissioner in British East Africa, Nyasaland and Northern Rhodesia and Consul-General in Belgian Congo and Ruanda Urundi).	——	Nairobi.
UGANDA.	K. B. P. Singh.	Asstt. Commissioner	——	Kampala.

Country or Town	Name.	Designation.	Address.	Station.
		CONSULATES-GENERAL & CONSULATES		
ALEXANDRIA.	Vacant.	Consul-General.		Alexandria.
ANTWERP.	H. S. Gopal Rao.	Vice-Consul	43 Rudes Tannerus.	Antwerp.
BASRA.	Puran Singh.	Consul (Hony.)		Basra.
BELGIAN CONGO.	Prem Kishen.	Consul-General (Also Commissioner in British East Africa, Nyasaland, Northern Rhodesia and Southern Rhodesia and Consul-General in Ruanda Urundi. Resident in Nairobi).	——	Nairobi.
BERLIN.	A. R. Sethi.	Consul	Joachimstaler Strasse, 28, Berlin 15.	Berlin.
COPENHAGEN.	Victor B. Strand.	Honorary Consul-General for India.	Consulate-General of India, c/o Legation of India, Strandvagen 47 IV, Stockholm.	
GENEVA.	K. V. Padmanabhan.	Consul-General	Consulate-General of India, 1-3, Rue Chantepoulate, Geneva.	Geneva.
HAMBURG.	B. Sitaraman.	Consul	14 Burchardstrasse, Hamburg.	
HELSINKI.	Juho Savio.	Consul-General (Hony.) ..	Strandvagen, 471 V, Stockholm.	
KOBE.	A. N. Subramaniam.	Consul	Consulate of India, 45/1, Kitanocho 4, Chome.	Kobe.
KHORRAMSHAHR.	R. S. Husain.	Consul	Consulate of India, Khorramshahr.	Khorramshahr.
LHASA (Tibet).	Major S. L. Chhiber.	Acting Consul-General for India.	Consulate-General of India, Lhasa, P.O. Gyantse, Tibet.	Lhasa.
MADAGASCAR.	S. N. Chopra.	Consul-General..	Consulate-General of India, P.O. Box No. 1108, Tananarive, Madagascar.	Tananarive.
NEW YORK.	M. Gopala Menon.	Consul-General for India (with personal rank of Minister).	Consulate-General of India, 3-East, 64th Street, New York.	New York.
PEKING.	K. M. Kannan Pillai.	Consul-General for India ..		Peking
RUANDA URUNDI.	Prem Kishen.	Consul-General (Also Commissioner in British East Africa, Nyasaland, Northern and Southern Rhodesia and Consul-General in Belgian Congo. Resident in Nairobi).		Nairobi.
SAIGON.	S. S. Gupta.	Consul-General	Consulate-General of India, 213 Rue Catinat, Saigon.	Saigon.
SAN FRANCISCO.	Raghunath Sinha.	Consul-General for India ..	Consulate-General of India, 417 Montgomery Street, San Francisco.	San Francisco.
SHANGHAI.	V. S. Charry.	Consul-General for India ..	Consulate-General of India, 219/12 The Bund, Shanghai (China), *via* Hongkong.	Shanghai.
SOURABAYA.	P. L. Bhall	Consul	Djalan Rajr Gubong 32, Sourabaya.	Sourabaya.
SPAIN.	Mohamed Yunus.	Consul-General for India ..	——	Madrid.
SURINAM.	N. V. Rajkumar.	Consul-General	——	Port of Spain.
VIET NAM (Democratic Republic of).	M. P. Mathur.	Consul-General (with personal rank of Counsellor).		Hanoi.
MUSCAT.	M. Bhavandas.	Consul	——	Muscat.
MEDAN.	Mehar Singh.	Consul	Consulate of India, 46, Dajalan Djokia, Medan (Indonesia).	Medan.
		VICE-CONSULATES		
JALALABAD (Afghanistan).	D. Sareen.	Vice-Consul for India ..	Vice-Consulate of India, Jalalabad.	Jalalabad.
KANDAHAR (Afghanistan).	A. K. Bakshi.	Vice-Consul for India ..	Vice-Consulate of India, Kandahar.	Kandahar.
MANDALAY.	K. L. S. Pandit.	Vice-Consul	Vice-Consulate of India.	Mandalay.
ZAHIDAN.	S. D. Kapoor.	Vice-Consul for India ..	Vice-Consulate of India, Zahidan (East Iran), *via* Tehran.	Zahidan.
		AGENCIES*		
MALAYA.	Pirthi Singh.	Asst. Commissioner for the Government of India.	Post Box No. 59, Oriental Building, 2nd Floor, Kuala Lumpur.	Kuala Lumpur.
GYANTSE.	Mia Gyur Tempo.	Indian Trade Agent & Assistant to the Political Officer in Sikkim.	Indian Trade Agency, Gyantse (Tibet), *via* Siliguri (West Bengal).	Gyantse.
GARTOK.	Lakshman Singh.	Indian Trade Agent and Assistant to the Political Officer in Sikkim.	Indian Trade Agency, Gartok (West Tibet). (This is a touring office and as such communications intended for this office may be forwarded to the address :—c/o The P.O. in Sikkim, Gangtok (Sikkim)).	Gartok.
YATUNG.	Capt. K. C. Johnsey.	Indian Trade Agent and Assistant to the Political Officer in Sikkim.	Indian Trade Agency, Yatung (Tibet).	Yatung.

INDIAN GOVERNMENT TRADE REPRESENTATIVES ABROAD

Designation and address.	Tel. Address.	Sphere of activities.
Europe.		
T. SWAMINATHAN, I.C.S.—The Minister (Economist) to the High Commissioner for India in the U.K., "India House", Aldwych, London, W.C. 2.	HICOMIND London.	The United Kingdom and Eire.
H. K. KOCHAR.—The First Secretary (Commercial) to the Embassy of India, 15, Rue Alfred Dehodeneq, Paris XVI ème (France).	INDATRACOM Paris.	France and Norway.
P. N. MENON.—First Secretary to the Embassy of India, *via* Francesco Denze 36, Rome (Italy).	INDEMBASSY Rome.	Italy, Greece and Yugoslavia.
DR. S. P. CHHABLANI.—The Minister (Commercial) to the Embassy of India in Germany, 262, Koblenzorstrasse, Bonn.	INDEMBASSY Bonn.	Germany.
S. V. PATEL, I.F.S.—Consulate of India, 603/5, Sprinkenhof, Hamburg-1 (Germany).	INDIA Hamburg.	States of Hamburg, Bremen and Schleswing Holstein.
H. C. HOGG.—Second Secretary (Commercial) to the Embassy of India in Belgium, 585, Avenue Louise, Brussels.	INDEMBASSY Brussels.	Belgium.
H. S. GOPALA RAO.—Vice-Consul, 43, Hindeve Herstra 4, Antwerp.	CONSINDIA Antwerp.	
K. S. SEHGAL.—Second Secretary (Commercial) to the Embassy of India, Strandvagen 47, IV, Stockholm (Sweden).	INDEMBASSY Stockholm.	Sweden, Finland and Denmark.
M. V. DEO, I.A.S. —First Secretary (Commercial) to the Embassy of India, Berne.	INDEMBASSY Berne	Switzerland.
C. SIVA RAO, Second Secretary (Commercial) to the Embassy of India, 22, Thunovaska, Prague 111.	INDEMBASSY Prague.	Czechoslovakia.
Second Secretary (Commercial) to the Embassy of India, No. 6 and 8, 22, Ulitsa Obukha, Moscow.	INDEMBASSY Moscow.	U.S.S.R.
A. N MEHTA.—First Secretary (Commercial) to the Legation of India, 17, Geyergasse (Spitzergasse), Vienna.	INDLEGATION Vienna.	Austria and Hungary.
America.		
M. K. ROY.—Second Secretary (Commercial) to the High Commissioner for India in Canada, 200, McLaren Street, Ottawa, Ontario (Canada).	HICOMIND Ottawa.	Canada.
DR. T. G. MENON, I.F.S.—The First Secretary (Commercial) to the Embassy of India, 2107, Massachusetts Avenue, N. W. Washington-8, D.C. (U.S.A.).	INDEMBASSY Washington.	U.S.A. and Mexico.
Africa.		
F. M. DEMELLO KAMATH, I.F.S. —The Indian Government Trade Commissioner, Jubilee Insurance Building, Post Box No. 614, Mombasa (Kenya).	INDOCOM Mombasa.	East Africa (Kenya, Uganda & Tanganyika), Zanzibar, Northern and Southern Rhodesia and Nyasaland.
K. R. F. KHILNANI, I.F.S. -Counsellor (Commercial) to the Embassy of India, 1, Suliman Pasha Street, Cairo.	CONGENDIA Cairo.	Egypt, Lebanon, Cyprus and Libya.
Australia and New Zealand.		
H. A. SUJAN.—The Indian Government Trade Commissioner, Prudential Building, 39-49, Martin Place, Sydney (Australia).	AUSTRIND Sydney.	Australia and its overseas territories including Norfolk and Nauru.
S. K. CHOWDHRY, I.F.S.—The First Secretary (Commercial) to the High Commissioner for India in New Zealand, Windsor Building, 49, Willis Street, Wellington (New Zealand).	TRACOMIND Wellington.	New Zealand.
Asia.		
D. HEJMADI.—The First Secretary (Commercial) to the Embassy of India in Japan, Empire House (Naigai Building), Marunouchi, Tokyo (Japan).	INDEMBASSY Tokyo.	Japan.
V. C. VIJAYA RAGHAVAN.—The First Secretary (Commercial) to the High Commissioner for India in Ceylon, Gaffoor Building, P.O. Box No. 47, Fort, Colombo (Ceylon).	HICOMIND Colombo.	Ceylon.
N. KESAVAN.—The First Secretary (Commercial) to the Embassy of India, Randeria Building, Phayre Street, Post Box No. 751, Rangoon (Burma).	INDEMBASSY Rangoon.	Burma.
H. N. VISHAKAR, I.F.S.—The First Secretary (Commercial) to the High Commissioner for India in Pakistan, Chartered Bank Chambers, 'Valika Mahal,' N. J. Setna Road, New Town, Karachi-5.	INTRACOM Karachi.	Pakistan.
B. M. GHOSH. —The First Secretary (Commercial) to the High Commissioner for India in Pakistan, 3, Ramakrishna Mission Road, Dacca (East Pakistan).	GOODWILL Dacca.	East Pakistan.
A. K. DAR, I.F.S.—The First Secretary (Commercial) to the Commissioner of India in Malaya, India House, 31, Grang Road, P.B. No. 836, Singapore (Malaya).	REPINDIA Singapore.	Malaya.
N. P. JAIN, I.F.S.—Third Secretary to the Embassy of India, 37, Phyathai Road, Bangkok (Thailand).	INDEMBASSY Bangkok.	Thailand.
Commercial Section.—Legation of India, 914, Nebraska, Manila (Philippines).	INDLEGATION Manila.	Philippines. (Under the Minister, Legation of India at Manila).
B. R. ABHAYANKER.—The Second Secretary (Commercial) to the Embassy of India, P.B. No. 178, 44, Lebon Sirih, Djakarta (Indonesia).	INDEMBASSY Djakarta.	Indonesia.
JAGAT SINGH.—The Commissioner (Designate) for the Government of India in Aden, Aden.	COMIND Aden.	Aden, British Somaliland and Italian Somaliland.
R. AXEL KHAN.—Second Secretary (Commercial) to the Embassy of India, Avenue Shah Reza, Tehran (Iran).	INDEMBASSY Tehran.	Iran.
Commercial Attachie to the Embassy of India, 8/8, Safi-ul-Deen-el Hilly Street, Waziriah, Baghdad.	INDEMBASSY Baghdad.	Iraq, Jordan (Amman), Persian Gulf (Kuwait, Bahrein, Basrah), Arab Sheikdoms, Qatar and Trucial Oman.
P. DAS GUPTA.—First Secretary (Commercial) to the Embassy of India, 32, Tung Chiao Min, Leiang, Peking.	INDEMBASSY Peking.	China.
T. V. GOPALAPATHY.—Second Secretary (Commercial) to the Commissioner for the Govt. of India, Tower Court, 11th Floor, Hysan Avenue, Hongkong.	COMIND Hongkong.	Hongkong.
D. J. SEN GUPTA.—Second Secretary (Commercial) to the Embassy of India, Phnom Penh.	INDEMBASSY Phnom Penh.	Cambodia.

Designation and address.	Tel. Address.	Sphere of activities.
M. R. THADANI.—First Secretary (Commercial) to the Embassy of India, Khartoum (Sudan).	INDEMBASSY Khartoum.	Sudan.
N. K. NIGAM.—First Secretary (Commercial) (designate) to the Embassy of India, Belgrade (Yugoslavia).	INDEMBASSY Belgrade.	Yugoslavia, Bulgaria and Rumania.
The Second Secretary (Commercial) to the Embassy of India, Warsaw (Poland).		Poland.
P. T. B. MENON.—Second Secretary (Commercial) to the Embassy of India, Santiago (Chile).	INDEMBASSY Chile.	Chile.

N.B. 1.—The following officers are looking after India's trade interests in Tibet :
(i) Commercial Secretary to the Indian Political Officer in Sikkim, Gangtok.
(ii) Indian Trade Agent, Yatung (Tibet).
N.B. 2.—In places where there are no separate Commercial Representatives, Diplomatic and Consular Officers look after India's trade interests.

EMBASSIES IN INDIA

Country.	Station.	Designation.	Name.	Address.
AFGHANISTAN.	New Delhi.	Ambassador Extraordinary and Plenipotentiary.	His Excellency Sardar Ala General Mohamed Omer.	42, Friend's Colony, Mathura Road, New Delhi.
		First Secretary	Gulab Shah.	80, G.S.S. Park, New Delhi.
		Press Attache	Amir Khan Gran.	52, E.S.S. Park, New Delhi.
ARGENTINA.	New Delhi.	Ambassador Extraordinary and Plenipotentiary.	H. E. Prof. Vicente Fatone.	Claridge's Hotel, 12, Aurangzeb Road, New Delhi.
		Counsellor	Osvaldo C. Falco.	
		Second Secretary	Rafael M. Vazques.	
		Third Secretary	Marcelo E. P. Alta Sandoval.	
BELGIUM.	New Delhi.	Ambassador Extraordinary and Plenipotentiary.	His Excellency Count Geoffroy d'Aspremont-Lynden.	24, Hardinge Avenue, New Delhi
BRAZIL.	New Delhi.	Ambassador Extraordinary and Plenipotentiary.	His Excellency Jose Cochrane de Alencar.	8, Aurangzeb Road, New Delhi.
BURMA.	New Delhi.	Ambassador Extraordinary and Plenipotentiary.	His Excellency Thado Maha Thray Sithu U Thang Aung.	No. 2, Kitchner Road, New Delhi
		First Secretary (Consul General)	U. Maung Maung Soe.	
		First Secretary (Commercial) ..	U. Aung Gyaw.	
		Military, Naval and Air Attache	Col. Tin Gyi	
CAMBODIA.	New Delhi.	Ambassador Extraordinary and Plenipotentiary.	Var Kamel.	25, Golf Links, New Delhi
CHILE.	New Delhi.	Ambassador Extraordinary and Plenipotentiary.	Miguel Serrano Fernandes.	Swiss Hotel, Delhi.
CHINA.	New Delhi.	Ambassador Extraordinary and Plenipotentiary.	His Excellency Pan Tzu-li.	28, Prithviraj Road, New Delhi
		Counsellor	Fu Hao.	
		Counsellor	Yeh Cheng-chang.	
		Commercial Counsellor	Tu Yu-yun.	
		Cultural Counsellor	Lin Lin.	
		Military Attache	Senior Col. Chang Tung.	
		First Secretary	Chang Chih-Yi.	
		First Secretary	Ma Mu-ming.	
		First Secretary	Fang Chieh-hsin.	
CZECHOSLOVAKIA.	New Delhi.	Ambassador	His Excellency Ing J. Nosek.	22/39, Kautilya Marg, Chanakya Puri, New Delhi.
		Counsellor	Dr. Jan Benes.	
		Commercial Counsellor and Trade Representative.	J. Vesely.	
		First Secretary	Jan Pec.	
		Second Secretary	L. Smid.	
		Third Secretary	B. Laska.	
		Commercial Attache and Dy. Trade Representative.	R. Stolar.	
DENMARK.	New Delhi.	Ambassador Extraordinary and Plenipotentiary.	His Excellency Viggo Thelsen.	1, Humayun Road, New Delhi.
		First Secretary	Kaj Repsdorph.	
ETHIOPIA.	New Delhi.	Ambassador	His Highness Ras H. S. Imru.	29, Prithviraj Road, New Delhi
FRANCE.	New Delhi.	Ambassador Extraordinary and Plenipotentiary.	H.E. Count Stanislas Ostrorog.	2, Aurangzeb Road, New Delhi.
		Minister Counsellor	Gaspard De Villelume.	
		Counsellor (Commercial) ..	Serge de Tscheikowsky.	
		Military, Navy & Air Attache ..	Col. Jenny Clark.	
		Second Counsellor	Yves Delahaye.	
GERMANY, FEDERAL REPUBLIC OF.	New Delhi.	Ambassador	H. E. Dr. Wilhelm Melchers.	90, Sundar Nagar, Mathura Road New Delhi.
		First Secretary (Commercial Counsellor).	Rolf von Keiser.	
		First Secretary	H. G. Stoltzer.	
		First Secretary (Cultural Affairs).	Dr. Karl Pfuster.	
		First Secretary (Press Affairs) ..	Dr. W. A. Ritter.	
		Second Secretary	Dr. Henry Bornemann.	
		Second Secretary	Bernhard Hedtoth.	
		Second Secretary (Commercial)	Hans Tiebe.	
		Second Secretary (Cultural Affairs).	Alred Wenzel.	

Country.	Station.	Designation.	Name.	Address.
GREECE.	New Delhi.	Ambassador Extraordinary and Plenipotentiary.	His Excellency Nicholas Hadji Vassiliou.	Ashoka Hotel, New Delhi.
		First Secretary	Dimitri Papadakis.	
		Second Secretary ..	George Papoulias.	
		Second Secretary (Administrative).	Athanase Couzopoulos.	
INDONESIA.	New Delhi.	Ambassador Extraordinary and Plenipotentiary.	H.E. R. H. Abdul Kadir.	50-A, Chanakya Puri, New Delhi.
		Minister Counsellor .	Dr. S. H Tajibnapis.	
		Counsellor for Economic Affairs	Haroen Al Rasjid Saleh.	
		Press Attache	Soemarno Sosrohardjono.	
		Air Attache	Colonel R Iskandar.	
		Military Attache	Lt.-Col. A. Thalib.	
		Cultural Attache	Soejono Kromodimoeljo.	
IRAN.	New Delhi.	Ambassador Extraordinary and Plenipotentiary.	Mochfegh Kazemi.	5, Barakhamba Road, New Delhi.
		Counsellor .. .	A. Mirfenderesk.	
		Counsellor (Cultural Affairs and Information).	T. Moqtaderi.	
IRAQ.	New Delhi.	Ambassador Extraordinary and Plenipotentiary.	His Excellency Mohammad Salim Al-Radi.	21, Prithviraj Road, New Delhi.
		Third Secretary	Yasoub Rafiq.	55-A, Jor Bagh, New Delhi.
		Third Secretary	Adnan Raouf.	175, Golf Links Road, New Delhi.
ITALY.	New Delhi.	Ambassador Extraordinary and Plenipotentiary.	His Excellency Count Justo Giushi Del Giardino.	17, York Road, New Delhi.
		Counsellor	Dr. E. Mizzau.	
JAPAN.	New Delhi.	Ambassador Extraordinary and Plenipotentiary.	His Excellency Dr. Shiroshi Nasu	Plot No. 4 & 5, Block 50-G, Chanakyapuri, New Delhi.
		Counsellor	Akira Shigemitsu.	
		First Secretary	Junso Mori.	
		First Secretary	Masami Ota.	
		First Secretary (Commercial) ..	Hirosuke Hiraoka.	
		First Secretary (Agricultural) ..	Heijiro Yoshihara.	
LAOS.	New Delhi.	Ambassador Extraordinary and Plenipotentiary.	His Excellency Khompan Panya.	4, Lower Circular Road, Diplomatic Enclave, New Delhi.
MEXICO.	New Delhi.	Charge d'Affaires *ad interim* ..	Luis Fernandez MacGregor.	30, 75/76, Theatre Communication Bldg., Connaught Place, New Delhi.
MONGOLIAN PEOPLE'S REPUBLIC.	New Delhi.	Ambassador Extraordinary and Plenipotentiary	His Excellency Puntsagyn Shagdarsuren.	26, Golf Links Area, New Delhi.
NEPAL.	New Delhi.	Ambassador	H.E. Lt.-Gen. Daman S. J. B. Rana.	Barakhamba Road, New Delhi.
		First Secretary	B. B. Bhandary.	
		Military Attache	Col. B. N. Rana.	
		Second Secretary .. .	R. P. Sharma.	
		Second Secretary	G. M. Singh.	
NETHERLANDS.	New Delhi.	Ambassador Extraordinary and Plenipotentiary	His Excellency H. A. Helb.	4, Hatsdone Road, New Delhi.
		First Secretary	G. J. A. Veling.	
NORWAY.	New Delhi.	Ambassador Extraordinary and Plenipotentiary	His Excellency Hans Olav.	21, Sunder Nagar, New Delhi.
		Second Secretary .. .	Bjorn Kristvik.	
PHILIPPINES.	New Delhi.	Ambassador Extraordinary and Plenipotentiary.	Dr. Melquiades J. Gamboa.	210-11, Claridge's Hotel, New Delhi.
		Second Secretary	Eutiquio O. Sta. Romana.	29, Golf Links, New Delhi.
		Armed Forces Attache ..	Lt.-Col. Filemon C. Reodica.	55, Kautilya Marg, Chanakyapuri, New Delhi.
		Attache (Administrative) ..	Conrado de Castro.	Malden's Hotel, Delhi.
		Assistant Press Attache	Paul Katigbak.	E-22, Jangpura Extn., New Delhi.
POLAND.	New Delhi.	Ambassador Extraordinary and Plenipotentiary	H. E. Dr. Juliusz Katz-Suchy.	22, Golf Links Area, New Delhi.
		Counsellor	B. Musielak.	
		Cultural Counsellor	W. Zukrowski.	
		Counsellor (Press)	K. Dunin-Keplicz.	
		First Secretary	S. Soltysiak.	
		Second Secretary	I. Fachs.	
		Commercial Counsellor ..	J. Drobot.	
		Attache	A. Gradziuk.	
RUMANIA.	New Delhi	Ambassador Extraordinary and Plenipotentiary	Nicolae Ciorciu.	48, Golf Links Road, New Delhi.
SAUDI ARABIA.	New Delhi.	Ambassador Extraordinary and Plenipotentiary	H.E. Shaikh Yusuf Alfozan.	6, Hardinge Avenue, New Delhi.
		Attache	Mohammed Khalil Debbagh.	
		Adm. Official (Records) ..	Shaikh Hussein Suleman.	
		Adm. Official (Hal)	Ahmed A. Alkazi.	
SPAIN.	New Delhi.	Ambassador Extraordinary and Plenipotentiary	His Excellency Count de Artaza.	12, Prithviraj Road, New Delhi.
		Counsellor	Mario Ponce De Leon.	
SUDAN.		Ambassador	H.E. S. E. Abdulla.	147, Sundar Nagar, New Delhi.
SWEDEN.		Ambassador Extraordinary and Plenipotentiary	Her Excellency Mrs. Alva Myrdal.	27, Prithviraj Road, New Delhi.
		Counsellor	Bo Gunnar Jarnstedt.	
		Attache	Helge Berg.	
SWITZERLAND.		Ambassador	His Excellency Dr. C. A. Bonnefon.	Connaught Place, Radial Road, No. 1, New Delhi.
THAILAND.		Ambassador Extraordinary and Plenipotentiary.	His Excellency Bun Chanpeshal	Chanakyapuri, New Delhi.

Country.	Station.	Designation.	Name.	Address.
TURKEY.	New Delhi.	Ambassador Extraordinary and Plenipotentiary.	H.E. Kadri Ressen.	No. 27, Jor Bagh, New Delhi.
		Second Secretary	Samim Sahin.	
		Press Attache	Sekip Engnieri.	
		Assistant Press Attache ..	Munir Berik.	
UNION OF SOVIET SOCIALIST REPUBLICS.	New Delhi.	Ambassador Extraordinary and Plenipotentiary.	His Excellency Panteleimon Kondratyevich Ponomarenko.	6, Canning Road, New Delhi
		Minister Counsellor	Tulegen T. Tazhibaev.	
		Commercial and Trade Representative of the U.S.S.R. ..	V. P. Migunov.	
		Counsellor for Economic Affairs	Vasili A. Sergeev.	
		Counsellor	Nikolai N Kryukov.	
		Counsellor for Cultural Affairs .	Joseph P. Baikov.	
		Counsellor	Leonid P. Vladimirov.	
		Counsellor	Veniamin A. Romanovsky.	
		Counsellor for Agricultural Affairs.	Prof Dr. S C. David Ter-Avanesyan.	
		Military Attache .. .	Col. Georgi N. Pavlov.	
		Naval Attache	Commandore L. N Balyakin.	
		First Secretary	Ivan M Khartchenko.	
		First Secretary	Peter M. Petrov.	
		First Secretary (Cultural) ..	Vladimir S. Moskalev.	
		First Secretary and Head of the Information Department.	Grigory G. Efimov.	
		First Secretary	Alexander N. Postnikov.	
		First Secretary	Alexei K. Kryukov	
		First Secretary	Boris S Romanov	
UNITED ARAB REPUBLIC.	New Delhi.	Ambassador Extraordinary and Plenipotentiary.	His Excellency Omar Abou-Richeh.	6, Ratendone Road, New Delhi
		Counsellor	Dr Adib Daoudy.	
		Counsellor	Salah El Abd.	
		Military Attache	Brig Moustapha Tawfik	
		Commercial Counsellor ..	Mohammed Ismail Ezzat	
		Second Secretary ..	Ezz El-Din El Sayed Issa.	
		Second Secretary	Sayed Hamwi.	
		Labour Attache .	Mohamed Abou Elnasr	
		Attache	Gamil Abd El-Aziz Mattar	
		Press Attache	Galal El-Rashidi	
UNITED STATES OF AMERICA.	New Delhi.	Ambassador Extraordinary and Plenipotentiary	His Excellency Ellsworth Bunker.	Bahawalpur House, Sikandra Road, New Delhi
		Minister-Deputy, Chief of Mission.	Winthrop G. Brown.	
		Counsellor (Public Affairs) ..	W. Kenneth Bunce.	
		Counsellor for Economic Affairs	J. Robert Fluker.	
		Counsellor for Administrative Affairs	Leo F. Gentner.	
		Counsellor for Political Affairs	Edward P. Maffitt.	
		Army Attache	Col. Kenneth I Curtis.	
		Air Attache	Col. James Lazenby.	
		Naval Attache and Naval Attache for Air	Captain Anton J. Sintic, Jr.	
		First Secretary (Administrative)	Richard E. Morrissey.	
		First Secretary (Political) ..	Alfred E. Wellens.	
		First Secretary (Economic)	Warren Silver.	
YUGOSLAVIA.	New Delhi.	Ambassador	His Excellency Dusan Kveder	18, Sunder Nagar, Mathura Road, New Delhi.

LEGATIONS IN INDIA

Country.	Station.	Designation.	Name.	Address.
AUSTRIA.	New Delhi.	Envoy Extraordinary and Minister Plenipotentiary.	H.E. Dr. Arno Halusa.	2-5, Theatre Communication Building, Connaught Place New Delhi.
		Attache	Klaus R. Ziegler.	
BULGARIA.	New Delhi.	Charge d'Affaires*	I. Moutafchiev.	196, Golf Links Area, New Delhi
		Commercial Counsellor and Trade Representative.	Asparuh Mladenov.	
		Head of the Press Department.	N. Kolyovsky.	
CUBA.	Berne.	Envoy Extraordinary and Minister Plenipotentiary.	H.E. Jorge Govantes Y. Aguirre.	Cuban Embassy, Berne (Switzerland); Ashoka Hotel, New Delhi
FINLAND.	New Delhi.	Envoy Extraordinary and Minister Plenipotentiary.	His Excellency Aaro Pakaslahti.	1, Humayun Road, New Delhi 2
		Secretary of the Legation ..	Erkki Heinonen.	
HOLY SEE.	New Delhi.	Apostolic Internuncio	The Most Rev. James R. Knox.	Chanakyapuri, New Delhi 2
		First Secretary	The V. Rev. Monsignor Constant Mahieu.	
		Second Secretary	The Very Rev. Monsignor E. Cassidy.	
		Attache	The Rev. Patrick J. Daly.	
HUNGARY.	New Delhi.	Envoy Extraordinary and Minister Plenipotentiary.	His Excellency Mr. Alajos Tamas.	10/11, Pusa Road, New Delhi
		First Secretary	Thomas Kiss.	
		Attache	Emmanuel Kasonta.	
LEBANON.	New Delhi.	Envoy Extraordinary and Minister Plenipotentiary.	H.E. Hussein Abou-Hussein.	Room 33, Ashoka Hotel, New Delhi.

* An Envoy Extraordinary and Minister Plenipotentiary was appointed on 30th March 1966 to succeed H.E. Vasilen Popov.

HIGH COMMISSIONS IN INDIA

Country.	Station.	Designation.	Name.	Address.
AUSTRALIA.	New Delhi.	High Commissioner	His Excellency W. R. Crocker.*	Australian High Commission, Connaught Place, New Delhi.
		Counsellor	W. G. A. Landale.	
		Press Attache	A. F. Cleaver.	
CANADA.	New Delhi.	High Commissioner	His Excellency C. A. Ronning.	4, Aurangzeb Road, New Delhi.
		Counsellor (Commercial) ..	B. A. Macdonald.	
		Counsellor	J. M. Teakles.	
		First Secretary	A. S. McGill.	
		Second Secretary	J. H. Taylor.	
		Third Secretary (Commercial) ..	J. H. Nelson.	
		Third Secretary	R. S. MacLean.	
		Attache (Administrative) ..	W. M. Agnes.	
		Attache (Immigration) ..	A. Graham.	
	Bombay.	Trade Commissioner	T. F. Harris.	Gresham Assurance House, Mint Road, Bombay.
		Asstt. Trade Commissioner ..	W. J. Collett.	
CEYLON.	New Delhi.	High Commissioner	His Excellency Sir Richard Aluwihare.	224, Jor Bagh, New Delhi.
		Counsellor	Vacant.	
		Secretary-Public Relations ..	E. L. F. de. J. Seneviratne.	
		Third Secretary	P. M. D. Fernando.	
		Third Secretary	G. D. I. G. Seneviratne.	
GHANA.	New Delhi.	High Commissioner	His Excellency J B. E. Erzuah.	New Delhi.
MALAYA.	New Delhi.	High Commissioner . ..	His Excellency S Chelvasingham MacIntyre.	Malaya House, 48 50, Kautilya Marg, Chanakyapuri, New Delhi.
		Second Secretary . ..	Hashimbin Sultan.	
PAKISTAN.	New Delhi.	High Commissioner	His Excellency Mian Zia-ud-Din.	8-B, Hardinge Avenue, New Delhi.
		Deputy High Commissioner ..	Sajjad Hyder.	
		Military Adviser	Colonel Mohammed Nawaz.	
		Air Adviser	Wing/Comdr. S. A. Aziz.	
		Commercial Secretary	Vacant	
		Press Attache	S. N. Qutb.	
		Cultural Attache	Khalid Ali.	
		Welfare Attache	Mohamed Latif Malik.	
		Liaison Officer . ..	Wilayat Husain.	
	Calcutta.	Deputy High Commissioner ..	Kamruddin Ahmed.	9, Circus Avenue, Calcutta 17.
	Shillong.	Assistant High Commissioner ..	Ataullah.	Dahlia House, Kench's Terrace Shillong.
UNITED KINGDOM.	New Delhi.	High Commissioner	His Excellency The Rt. Hon. Malcolm John MacDonald.	Tees January Marg, New Delhi.
		Deputy High Commissioner (Minister).	W. A. W. Clark, C.M.G., O.B.E.	
		Economic Adviser to the High Commissioner and Senior U.K. Trade Commissioner in India (Minister).	H. Bailey.	
		Financial Adviser to the High Commissioner and United Kingdom Treasury Representative in South Asia (Minister).	G. B. Blaker.	
		Counsellor (Commercial) and Principal Trade Commissioner.	R. R. D. McIntosh.	
		Counsellors	J. V. Rob, H. Smedley, M.B.E.	
		Naval Adviser	Capt. J. C. A. Ingram, D.S.C.	
		Military Adviser	Brigadier J. A. C. D'Apice, O.B.E.	
		Air Adviser	Group Captain J. H. Chaplin, D.S.O., D.F.C.	
		Counsellor (Information) and Director, British Information Services.	J. T. Hughes.	
		Senior Secretary	V. C. Martin.	
		Labour Adviser	J. S. P. Mackenzie.	
		Adviser on Works and Services.	R. W. R. Adams.	
		First Secretary (Commercial) and Trade Commissioner.	W. Nicoll.	
		First Secretary	J. R. Williams.	
		First Secretary	J. Dobbs, C.B.E.	
		First Secretary	R. Walker.	
		First Secretary	J. A. Allen, M.B.E.	
		First Secretary (Commercial) and Trade Commissioner.	H. O'Brien.	
		First Secretary (Information and Dy. Director, British Information Services	A. C. Hall.	
		First Secretary (Information)..	G. d'Arnaud Taylor.	
		First Secretary (Information)	S. E. D. Barff, O.B.E.	
		First Secretary	W. R. Lythgo.	
	Calcutta.	Deputy High Commissioner ..	Major General W. H. A. Bishop, C.B., C.B.E.	1, Harrington Street, Calcutta 22.

*Appointment was announced as this book went to Press. Predecessor was : Mr. P. R. Heydon.

Country.	Station.	Designation.	Name.	Address.
		Counsellor	G. S Whitehead.	
		First Secretary	R. H. Wimble.	
		Second Secretary	J. Saul	
	Bombay.	Deputy High Commissioner ..	E. G. Norris.	Mercantile Bank Building, Mahatma Gandhi Road, Bombay
		First Secretary	R. G Britten.	
		First Secretary	R. C. Cox.	
		First Secretary (Information)..	J. C. E Hyde.	
		Second Secretary	R. W S. Carr.	
		Second Secretary (Information)	T. J. Sigsworth.	
	Madras.	Deputy High Commissioner ..	R. G. Chisholm.	No. 6, Armenian Street, Madras
		First Secretary	K. R. Crook.	

FOREIGN CONSULAR OFFICES IN INDIA

Country.	Station.	Designation.	Name.	Address.
AFGHANISTAN.	Bombay.	Consul-General	Abdul Raouf Nasir Ziai.	116, Walkeshwar Road, Bombay
AUSTRIA.	Calcutta.	Honorary Consul .. .	Dr. W. Weissel.	52/5, Ballygunge Circular Road, Calcutta 19.
	Bombay	Hon Consul	Murarji J Vaidya.	Industrial Estate, Ltd., Bombay 12
BELGIUM.	Bombay: Consulate General for Belgium with jurisdiction over Bombay State, Mysore State, Kera'a State, Andhra Pradesh and Madras State	Hon Chancellor . .	Mrs Alice S Khan.	
		Consul-General	F Standaert	"Morena", 11, Carmikha Road, Cumballa Hill, Bombay 26. Telephone . 41824 Telegrams "BELSULAT".
		Vice-Consul	Th. De Greeff.	
	Calcutta: Consulate General for Belgium with jurisdiction over West Bengal State, Assam State, Orissa State and Bihar State.	Consul-General	W. Labeye.	6, Camac Street, Calcutta 17 phone 443886 Telegrams "BELSULAT"
	Madras.	Consul (Honorary)	M. Nevens.	1-E Spurtank Road Chetpet Madras
BRAZIL.	Calcutta.	Consul	Raul de Fa Farbosa	8,6, Alipore Park Road Calcutta 26
		Vice-Consul	J R. Antonio Viegas.	
BURMA.	Calcutta.	Consul-General	U Ba Set	12, Dalhousie Square East Calcutta.
		Consul	U Tin Maung.	
		Vice-Consul	U Tin Nyunt.	
		Vice-Consul . .	Saw Charles Pru.	
	Madras.	Vice-Consul	U Aung Thet.	6, Rutland Gate (1st Street) Nungambakam, Madras
CHINA.†	Calcutta.	Consul-General	Lu Hai.	237, Lower Circular Road Calcutta.
	Bombay.	Consul-General	Chang Chi-ping.	10, Bomanji Petit Road, Bombay 26
COLOMBIA	Madras	Consul	A. Tavera Garcia.	Adyar, Madras 20
COSTA RICA.	Bombay	Consul-General	I A Mathani.	Standard Bldg., 346 D. Naoroji Road, Bombay 1
	Madras	Vice-Consul	Roy E Chambers.	8, Waddel Road, Madras 1
CZECHOSLOVAKIA	Bombay.	Consul-General	Jan Suchanek.	"Maroopia", 5, Peddar Road Cumballa Hill, Bombay
		Vice-Consul	Miloslav Peresty.	
DENMARK.	Bombay.	Hon. Consul General .. .	E. B. Mogensen.	Eros Cinema Building Jamshedji Tata Road 1
	Calcutta.	Ag. Consul	F. Sommer.	72, Clive Building, Netaji Subhas Road, P.O. Box No. 364, Calcutta
	Cochin.	Hon. Consul	Archibald Allan Henry Campbell.	C/o Pierce Leslie & Co Ltd Cochin.
	Madras.	Ag. Consul	G. Rizon.	Mercantile Bank Building 1st Floor Beach, Madras.
DOMINICAN REPUBLIC.	Bombay.	Consul-General	A. R. H. Ismail.	208, D. Wachha Road, Marine Court, Opp. C.C.I, Bombay 1
		Vice-Consul	Abdul Rashid Ismail.	
EL SALVADOR.	Calcutta.	Consul	Kanailabha Banerjee.	12, P. K. Tagore Street, Calcutta
ETHIOPIA.	Bombay.	Hon. Consul	Ismail M. Kanga.	Crescent Chambers, Ist Lane, Fort, Bombay
FINLAND.	Bombay.	Consul	C. H. Campbell.	Chartered Bank Building Post Box No. 79, Mahatma Gandhi Road, Bombay 1.
		Trade Commissioner	O. J. Vihma.	Chartered Bank Building, Post Box No. 79, Mahatma Gandhi Road, Bombay 1.
	Calcutta.	Consul	E. E. Regnell.	P.O. Box 199, 3, Netaji Subhas Road, Calcutta.

† There is also a trade agency at Kalimpong (10½ miles, Kalimpong).

Country.	Station.	Designation.	Name.	Address.
FRANCE.	Bombay.	Consul-General	Henri Dumont.	Vulcan Insurance Building, 5th Floor, Churchgate Reclamation, Bombay 1.
	Calcutta.	Consul-General	Jacques Clostermann.	26, Park Mansion, Park Street, Calcutta 16.
	Madras.	Consul	Roger London.	7, Cenotaph Road, Teynampet, Madras.
GERMANY (FEDERAL REPUBLIC).	Bombay.	Consul-General	Dr Hellmuth Dietmar.	Rusi Mansion, 29, Wodehouse Rd., Bombay 1.
		Consul	Reichsfreiherr Friedrich von Dungern	
		Consul	Ernst Kunisch.	
		Consul	Dr Werner Ungerer.	
		Vice-Consul	Friedrich Doell.	
		Vice-Consul .	Heiny Scheither.	
	Calcutta.	Consul First Class in Charge of the Consulate General.	Alfred L. Ries.	59 C, Chowringhee Road; Calcutta 20.
		Consul	Dr. Heinrich Pohris	
	Madras.	Consul	Dr. Philipp Koenigs.	Bombay Mutual Bldg , 378, Netaji S. Bose Road, Madras 1. P.O. Box 102.
GREECE.	Bombay.	Consul-General	G. Loucatos.	Mercantile Chambers, 1st Floor, Graham Road, Ballard Estate, Bombay.
	Calcutta.	Consul General	B. Matthews.	Wellesley House, 7, Wellesley Place, Calcutta
HAITI.	Calcutta.	Consul	Murari Churn Law.	No. 2, Cornwallis Street, Calcutta 6.
INDONESIA.	Bombay.	Consul	R Tarmoedji.	17, Altamont Road, Cumballa Hill, Bombay 26.
IRAN.	Bombay.	Consul General . ..	G. H. Moftah.	Pradip (former Dorchester), Queen's Road, Bombay. Tel. No. 242118.
IRAQ.	Bombay.	Ag Consul General	Yaoub Rafiq.	"Panorama", 203, Walkeshwar Road, Bombay 6.
		Chancellor	Ayub Al Haidari.	
ISRAEL.	Bombay.	Consul	A. Caspi.	50, Pedder Road, Cumballa Hill, Bombay 26.
ITALY.	Calcutta.	Consul-General	Dr. Ettore Di Vittorio.	3, Raja Santosh Road, Alipore, Calcutta 27
	Bombay.	Consul	Dr. Vittorio Lavison.	Dinshaw Wachha Road, Fort, P.O. Box No. 1521, Bombay 1.
JAPAN.	Calcutta	Consul-General	H. Takenchi.	12, Pretoria Street, Calcutta 16
		Consul	K. Kaneko.	
	Bombay.	Consul-General . ..	T Ozawa	"Megh Doot", 95B, Netaji Subhas Road, Bombay 2.
		Consul	R. Ishikawa.	
JORDAN.	Bombay.	(Interests being looked after by the Iraqi Consulate-General.)		
LIBERIA.	Calcutta.	Consul	P K Banerjee.*	7-2-P, Jamir Lane, Calcutta 19.
LUXEMBURG.	Bombay.	Vice-Consul	R. C. L. Van Damme.	2nd Floor, Taj Building, Hornby Road, Fort, Bombay.
MONACO	New Delhi.	Consul-General	R Chattaram.	14 15F, Connaught Place, New Delhi.
NEPAL.	Calcutta.	Consul-General	J. B. Shah.	19, Woodlands, Sterndale Road, Alipore, Calcutta 27.
		Vice Consul	D. B. Basnyat.	
NETHERLANDS.	Bombay.	Consul-General	Vacant	296, Bazargate Street, City Ice Building, P.O. Box 260, Fort, Bombay 1. (Tel. Nos 251576, 251577, 251578).
		Vice-Consul	J J Derksen.	
	Calcutta.	Consul	Ph. H. Rogaar.	5 & 7, Netaji Subhas Road, Calcutta.
	Cochin.	Consul	C. Hardebeck.	P.O. Box 28, Cochin.
	Madras.	Consul	A. Sinclair Rose.	North Rly. Terminus Road, Royapuram, Madras.
NICARAGUA.	Bombay.	Consul	C. H. Hardcastle.	Alice Building, Dr. Dadabhoy Naoroji Road, Bombay. (Tel. No. 252542).
		Vice-Consul	J. K. Rege.	
	Calcutta.	Consul	K. C. Dey.	Gillander House, Netaji Subhas Road, Calcutta 1. Tel. No. 224231/25.
NORWAY.	Bombay.	Consul-General	C. O. Jörgenson.	Imperial Chambers, Wilson Road, Ballard Estate, Bombay.
		Trade Commissioner	Vacant.	
	Calcutta.	Consul-General	S. Gyiseth.	14, Netaji Subhas Road, Calcutta.
		Vice-Consul	C. Gyiseth.	
	Cochin.	Vice-Consul (Ag)	W. E. Northey.	P.B. No. 1, Cochin.
	Madras.	Consul	J. R Galloway.	Post Box No. 42, Madras.
PANAMA.	Bombay.	Consul-General	Olmedo E. Arias.	Imperial Chambers, Wilson Road, Ballard Estate, Bombay 1. (Tel. No. 262125).
		First Secretary	Aloisio Da Cruz.	
PERU.	Calcutta.	Consul-General	Carlos A. Tarje B.	Suite 918/919, Great Eastern Hotel, Calcutta 1
SPAIN.	Bombay.	Consul	J. Paniego Ecay.	"Oceana", 152, Marine Drive, Churchgate Reclamation, Bombay
	Calcutta.	Vice-Consul	Pritindra Nath Ray Chowdury.	10, Old Post Office Street, Calcutta.
	Madras.	Vice-Consul	Gilbert Augustine Pais.	"Lawdale", 5, Nimmo Road, San Thome, Mylapore, Madras.

* Jurisdiction extends to Nepal also.

Country.	Station	Designation	Name	Address.
SWEDEN.	Bombay.	Consul-General	S G Gothberg	Indian Mercantile Chambers, M Road, Ballard Estate, Bomb
		Vice-Consul	T. Knutsson.	
	Calcutta.	Consul General	W Tham	7, Wellesley Place, Calcutta
	Madras.	Consul	C Blomquist.	8/9, Thambu Chetty Street, George Town, Madras.
SWITZERLAND.	Bombay.	Consul General	J Piffaretti	Manekji Wadia Building, 125 Mahatma Gandhi Road, Fort Bombay.
		Vice Consul	J D. Saurer.	
	Calcutta	Consul	E Breuleux	16, Old Court House Str Calcutta.
	Cochin.	Consular Agent	F Wichser	C/o Volkart Brothers, P.O B x No. 8, Cochin.
	Madras.	Consular Agent	R D Walter	C/o Binny & Co. Ltd , P B No 60, Madras
THAILAND	Calcutta	Consul General	Luang Ratanadeb	1, Moore Avenue, Tollyg Calcutta 40
TURKEY.	Bombay.	Consul General	Rahim Karim Mistry	208, Dinshaw Wachha Road Ba bay Reclamation (Tel Office. 37277 Residence
U S S R	Bombay	Consul General	Vasily A Rybakov.	'Palm Beach', 42 N Road, Malabar Hill, B
		Vice Consul	Victor P Sychev	
		Vice Consul	Ivan I Khlimenko	
	Calcutta	Consul General	V S Kozlov	31, Theatre Road Calcutta
		Consul (Designate)	V B Koshelev	
		Consul (Designate)	Anatoli V Borodin	
UNITED ARAB REPUBLIC.	Bombay.	Consul General	Mohamed Raouf Fahmy	Cambatta Building, 124D, Qu s Road, Churchgate Reclamat , Bombay
UNITED STATES OF AMERICA	Bombay.	Consul General . .	William T Turner	Construction House, Nicol Roa Ballard Estate, Bombay 1
		Consul .	Leslie C Tihany	
		Consul	Rovert J Barnard	
		Consul	Joyce R Herrmann	
		Consul	David T Schneider	
		Consul	Henry C Palm, Jr	
		Consul	N Marbury Efimenco.	
		Vice Consul	Albert A Lakeland, Jr.	
		Vice-Consul	Spiros A Siafacas	
		Vice-Consul . .	Charles W Bass	
		Vice Consul	Craig Baxter	
		Vice Consul . .	R Harden Smith	
	Calcutta	Consul-General	Gordon H Mattison	5 1, Harrington Street, Calcutta 16
		Consul (Executive Officer)	Katherine W Bracken	
		Consul (Administrative Officer)	Daniel I Williamson, Jr	
		Consul (Economic Officer) .	James J. Blake	
		Consul (Consular Officer)	Frank D Collins	
		Consul (Pub Affairs Officer)	Chester R Chartrand	
		Consul (Pol Officer)	Charles W Naas	
	Madras.	Consul-General .. .	Dr Thomas W Simons.	150-B, Mount Road Madras
		Public Affairs Officer .	John Wiggin.	
YUGOSLAVIA	Bombay.	Consul-General . .	A. Djomparin.	120, Dinshaw Vachha Road, Churchgate Reclamation Bom bay 1

U. N. BODIES IN INDIA

UNITED NATIONS INFORMATION CENTRE FOR INDIA, BURMA, CEYLON AND NEPAL

Address .—21, Curzon Road, New Delhi.

Dissemination of objective information on the aims and activities of the United Nations through all information media is the main function of the New Delhi Centre of the United Nations.

Director : Eugenio Soler-Alonso

Deputy Director : Purnendu Basu.

Regional Films Officer for Asia & the Far East : Maurice T. Lin.

Regional Radio Officer : Mrs. Ma-Than-E-Fend.

U. N. CHILDREN'S FUND (UNICEF)

Address :—Area Office for India, Afghanistan and Ceylon, Patiala House, Hardinge Avenue, New Delhi.

The UNICEF was brought into being as a U.N. Agency to meet the emergency needs of children, particularly in the war-devastated countries. The UNICEF, which is now a permanent part of the U.N. Organisation, has as its principal objective the furtherance of mother and child health through long-range programmes, in which its assistance is requested by the Governments and countries concerned.

Chief of Area Office : T. G. Davies.

Field Representatives : Alan E. McBain ; Poul F Larsen , Ratko Pleic , H. L Shapiro , Fredrick C Collins , C Kondapi and Stein P. Moss (New Delhi).

OTHER U. N. BODIES

International Labour Office (India Office) : Mandi House, New Delhi.

The Branch Office was established in 1928. It maintains close relations with the Government authorities, and employers' and workers' organisations, and acts as a clearing house of information on questions concerning labour and social policy.

It publishes every month a "News Service" in English and Hindi, dealing with the current activities of the International Labour Organisation. It also issues from time to time a Bulletin containing digests of important documents and studies of the I.L.O. The Office has also a good reference library. It also undertakes the sale of I.L.O. publications.

Director : V. K. R. Menon.

United Nations Educational, Scientific and Cultural Organisation : South Asia Science Co-operation Office : 21, Curzon Road, New Delhi.

Director: W. J. Ellis.

Deputy Director : Vacant

Office of the FAO Representative in India and Director, Regional Information Centre 21, Curzon Road, New Delhi.

F.A.O. Representative in India and Dir r, Regional Information Centre . P. V Acharya

World Health Organisation Regional Office for South-East Asia : Patiala House, Princes Park, New Delhi.

Regional Director : Dr. C. Mani.

Director, Office of Health Services Dr A Berkhuus.

Chief, Office of Administration & Fin ce A. G. B. Sutherland.

Regional Public Health Administrator Dr L G. Bibby.

Regional Public Health Administrator Dr R M. Bland.

TRADE COMMISSIONS

UNITED KINGDOM

Delhi :—H. Bailey, United Kingdom Senior Trade Commissioner in India and Economic Adviser to the U.K. High Commissioner.
R. R. D. McIntosh, United Kingdom Trade Commissioner, at New Delhi.
W. Nicoll, United Kingdom Trade Commissioner.
H. O'Brien, United Kingdom Trade Commissioner.
Address : Eastern House, Man Singh Road, New Delhi 2.
Telegrams : "TRADCOM"

Calcutta :—G. W. Brazendale, C.M.G., United Kingdom Trade Commissioner In Charge at Calcutta.
R. H. Edmondson, United Kingdom Trade Commissioner.
Address : 1, Harrington Street, Calcutta 16.
Telegrams : "TRADCOM".

Bombay :—C. H. Baylis, United Kingdom Trade Commissioner In Charge at Bombay.
F. F. D. Ward, United Kingdom Trade Commissioner.
Address : Mercantile Bank Building, Mahatma Gandhi Rd., Fort, Bombay.
Telegrams : "TRADCOM".

Madras :—L. A. C. Newns, United Kingdom Trade Commissioner.
Address : 2, Armenian Street, Madras 1.
Telegrams : "BRITRACOM".

AUSTRALIA

Bombay :- D. R. McPhee, O.B.E., E.D., Trade Commissioner; D. M. Walker, Assistant Trade Commissioner; P. F. Davison, Assistant Trade Commissioner (Public Relations).
Address : Mercantile Bank Building, 52/66, Mahatma Gandhi Road, Bombay. P.O. Box 217.
Calcutta :—J. L. Chapman, Trade Commissioner; S. Maliphant, Assistant Trade Commissioner. *Address :* 2, Fairlie Place, Calcutta, P.O. Box 803.

CANADA

New Delhi :—Bruce A. Macdonald, Commercial Counsellor.
J. H. Nelson, Asstt. Commercial Secretary
Address : Office of the High Commissioner for Canada, 4, Aurangzeb Road, P.O. Box 11.
Cable Address : "CANADIAN."
Bombay : -T. F. Harris, Trade Commissioner.
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CEYLON

Ceylon Trade Commissioner, Bombay : Vacant.
Officer-in-Charge : K. B. Rajapaks.
Ceylon House, Bruce Street, Fort, Bombay.

JAMMU AND KASHMIR

Trade Agent : Dr. S. S. Nishat.
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Trade Commissioner, 5, Prithviraj Road, New Delhi : S. Amar Singh.
Trade Agent, Kashmir House, Court Road, Amritsar : Mani Ram.
Trade Agent, Pathankot : D. N. Kachroo.

NEW ZEALAND

Trade Commissioner in India : John B. McGuire
Asstt. Trade Commissioner : C. C. Petersen.
Address : 2nd Floor, Mercantile Bank Bldg., Mahatma Gandhi Road, Bombay.
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AFGHANISTAN

Commercial Attache, Royal Afghan Consulate-General : M. S. Kazmi. (Tel. No. 40677).
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AUSTRIA

Austrian Trade Representative in India : Robert Schmidt.
Address : Queen's Mansions, Bastion Road, Bombay, P. O. Box 1385.
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BELGIUM

Consulate General for Belgium with Jurisdiction over commercial matters.
Bombay : *Consul-General :* F. Standaert.
Vice-Consul : Th. De Greeff.
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CZECHOSLOVAKIA

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Deputy Trade Representative : R. Stolar.
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Trade Commissioner : J. C. Jaks
Deputy Trade Commissioner : Dr. V. J. Novotny.
Address : Kasturi Bldgs., Jamshedji Tata Road, Bombay 1.
Trade Commissioner : J. J. Kopecky.
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Trade Commissioner : J. Krumel.
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DENMARK

Trade Commissioner : K. Packness.
Assistant Trade Commissioner : Henning Meldgaard Winkel.
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FINLAND

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FRANCE

New Delhi :—The Commercial Counsellor to the French Embassy, 63, Cornwallis Road.
Bombay :—The Trade Commissioner for France, "Adelphi," 4th Floor, 3, Queen's Road.
Calcutta :—The Trade Commissioner for France, 13, Park Mansions, Park Street.
Madras :—The Trade Commissioner for France, Paradise Building, 36, Mount Road.

GERMAN DEMOCRATIC REPUBLIC

Dy. Trade Representative : Curt Fabian.
Address : 122, Dinshaw Wachha Road, Backbay Reclamation, Bombay *Residence :* "Vasundhara", Bhulabhai Desai Road, Bombay 26.

GERMANY (FEDERAL REPUBLIC)

Chief Economic Officer : Consul Ernst Kunisch.
Deputy Economic Officer : Vice-Consul Heiny Scheither
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HUNGARY

Trade Commission of the Hungarian People's Republic : R. Schutz (Trade Commissioner).
Deputy Trade Commissioner : M. Totisz.
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Trade Representative of the Hungarian People's Republic in India : O. Kallos.
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INDONESIA

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ISRAEL

Consul for Israel : A. Caspi.
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ITALY

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Telephone : 36877-78.
Commercial Counsellor, New Delhi : Dr. Ernesto Toti Lombardozzi.
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Consul-General (Commercial) : Dr. Ettore Di Vittorio.
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Italian Trade Commissioner : Dr. Giovanni Curto, 10, Esplanade Mansions, Calcutta.

JAPAN

Consul General : Takeo Ozawa.
Consul : Ryoko Ishikawa.
Vice-Consul : Masahiro Sasaki.
Consul elect : Hiroshi Uchida.
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NETHERLANDS

Consulate-General of the Netherlands :
Vice-Consul : J. J. Derksen.
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NORWAY

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PANAMA

Trade Commissioner : Olmedo E. Arias. Aloisio Da Cruz, *First Secretary.*
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POLAND

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Calcutta :—*Trade Representative :* W. Mikiszko.
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RUMANIA

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SPAIN

Assistant Spanish Trade Commissioner : I. Ali Prados.
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SWEDEN

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Calcutta : Ingvar Blom : 7, Wellesley Place, Calcutta.

SWITZERLAND

Swiss Trade Commissioner : Dr. E. W. Dutschler.
Secretary to the Swiss Trade Commissioner : F. Schraner.
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UNITED ARAB REPUBLIC

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U.S.S.R.

Trade Representation of the U.S.S.R. in India, House 21, Block 48, Panch Sheel Marg, Chanakyapuri, New Delhi 2. *Cables :* 'Vneshtorg,' New Delhi. *Calcutta Branch and Calcutta Showrooms of the U.S.S.R. Machinery and Equipment :* 1, Bishop Lefroy Road (Larger Bldg.), Calcutta 20. *Cables :* 'Vneshtorg,' Calcutta.
Bombay Branch : "Avantica," 46, Pedder Road, Bombay 26. *Cables* 'Vneshtorg', Bombay.
Bombay Showrooms of the U.S.S.R. Machinery and Equipment : Vasundhara House, Bhulabhai Desai Road, Bombay 26.

GENERAL ELECTIONS (1957)

TABLES

Below we give statistical tables showing particulars about the 1957 general election returns.

LOK SABHA

Party	1951-52 Votes polled	Percentage	Seats contested	Seats won	1957 Votes polled	Percentage	Seats contested	Seats won
Congress	4,74 46 170	45 0	489	364	5,40,56,646	46 5	483	365
P.S P.	1,73 29 189	16 4	400	20	1,16,59 225	10 0	175	19
C P I	52 99 095	5 0	69	26	1,14 47,345	9 8	115	29
Jan Sangh	31 94,059	3 1	91	3	67,31,098	5 7	103	4
Others	3,22 62,927	30 5	946	83	3,05,96,260	28 0	580	71
Total ..	10,55,31,440	100	—	486	11,44,90,574	100	—	488

Note : There were ten uncontested returns in 1952 and twelve in 1957 The Communist figures for 1957 include the votes polled and seats won by the People's Democratic Front in Hyderabad and the United Front of Leftists in Travancore-Cochin The P.S P total for 1952 is the aggregate of its two constituents, namely, the former Indian Socialist Party and the Kisan Mazdoor Praja Party The electorate was a little over 173 000 000 in 1952 and a little over 199,000 000 in 1957

The statistics do not include those for four seats from Himachal Pradesh and two from the Punjab

The particulars in regard to the other parties are shown below.

Party	Votes polled	Seats won
Scheduled Castes Federation	24,30 324	6
Socialists ..	13,00,000 to 15 00,000	6
Ganatantra Parishad (Orissa)	13,92,136	7
Hindu Mahasabha	10 43,094	1
Forward Bloc	10,06,351	5
Jharkhand (Bihar)	8,99,835	6
Revolutionary Socialist Party	8,43,007	1
Peasants and Workers Party (Bombay)	7,93,978	4
Dravida Munnetra Kazhagam (Madras)	7,44,128	2
Janata Party (Bihar)	5,02,777	3
Ram Rajya Parishad	4,28,183	nil
Congress Reforms Committee (Madras)	3,96,140	2
Muslim League	1,86,227	1
Independents	—	27

STATE ASSEMBLIES

The Congress put up for the States Legislature 2,871 candidates, won 47,632,427 votes (42·20%); The P.S.P. 1,328 candidates, won 11,392,500 votes (10 10%); the Communists, 730 candidates won, 9,963,290 votes (8 87%); Jan Sangh 700 (approximately), won 4,883,211 votes (3 99%)

The position in regard to the State Assemblies is shown below :

		Congress A	Congress B	P.-S.P. A	P.-S.P. B	Communist A	Communist B	Other Parties A	Other Parties B
Andhra Pradesh	301	111	215 (4)	28	2	26	36	153	48
Assam	108	101	71 (4)	36	8	22	4	147	24 (2)
Bihar	318	312	210	220	31	61	7	575	70
Bombay	396	374	232	104	36	35	18	402	105
Kerala	126	124	43	62	9	108	60	60	14
Madhya Pradesh	288	288	231 (2)	149	12	24	2	550	43
Madras	206	200	151 (3)	22	2	53	4	504	48
Mysore	208	208	150	67	15	16	1	232	39
Orissa	140	98	56 (1)	40	11	31	9	169	63
Punjab	154	142	118	11	1	59	6	256	29
Rajasthan	176	176	119	25	1	24	1	261	55
Uttar Pradesh	430	430	286	256	44	99	9	624	91
West Bengal	252	247	152	64	21	90	46	498	38

Figures in column A show the number of constituents and in column B the seats won, including the unopposed returns of each party given in brackets. In Andhra, the Congress figure in column B includes 116 from the old Andhra State and four uncontested returns from Telangana, in which the legislative elections were confined.

The second General Elections started on Feb, 1957 and ended on 9th June The States to go to the polls were Orissa a Punjab and the last was the Union Ter of Himachal Pradesh where the elections on 24th May and ended on 7th June last mentioned State the elections began after they ended elsewhere (March 14) of heavy snow during the earlier part year. Almost all election returns were by the 31st of March.

There were a little over 199 million (199,519,188) and 12,477 candidates number of seats for which the election place were 494 for the Lok Sabha and the State Legislative Assemblies

There were 1,502 candidates for the Sabha and 10,885 for the State Assem as against 1,864 and 15,310 respectively previous election.

Out of the 199,519,188 voters for the 120,493,915 exercised their franchise 173,213,635 and 88,612,171 respectively previous election

The respective percentages of the per voted are 60 39 and 51 15

For the State Assemblies, out of voters 113,221 969 cast their votes the centage being 60 70.

The country was divided into parliamentary constituencies of which single-member and 91 double member

For the State legislature elections the was split into 2,518 constituencies of which were single member and 584 double 3,102 M L As included 470 represented Scheduled Castes and 221 of the Tribes

There were about 200,000 polling The number of ballot boxes and were respectively 2,875,000 and 300

Below we give the Calendar of the

Andhra February 25, March 1 and (In Andhra Pradesh, the Assembly were confined to the Telangana and Prodattur and Bhadrachalam constituencies the old Andhra State)

Assam : February 25, March 2 and 11

Manipur February 25 March 4 and 11

Bihar : February 25-26, 28, March 1 and 11 and 12.

Bombay : February 25, March 2 and 11

Kerala . February 28, March 2 and 11

Madras March 1, 4, 6, 8 and 11

Madhya Pradesh February 25, March 1-10.

Mysore : February 25, 26, 28 March 1 and 11

Orissa : February 24, 25, 28, March 1 and 12.

Punjab : February 24, 26-28, March 1 and 14. (Polling in the snowbound area of Kangra was held in June)

Himachal Pradesh Owing to heavy snow polling was delayed. It began on May 4 and ended on June 7.

Rajasthan : February 25, 27, 28 March 1 and 12.

Uttar Pradesh : February 25, 28 March 1 and 12.

West Bengal : March 1-14

The Election Commission recognises four parties at the national level They are Congress, the Praja-Socialist Party the Communist Party and the Jan Sangh Five parties were recognised at the State level besides, more than 80 parties or groups fought elections on their own or in a coalition with one or the other in different States

The number of rejected nominations in 1957 was 982 (Parliament 93, Assembly 889) as against 1,685 in 1952.

Excepting the P.S.P., all the other recognised all-India parties put up a larger number of candidates in 1957 than in 1952 The Congress put up 486 against 489 in 1952. The Communist

ASSAM LEGISLATIVE ASSEMBLY

Party	1951–52 Votes polled	Per-centage	Seats won	1957 Votes polled	Per-centage	Seats won
Congress	10,75,831	43·9	74	13,94,372	56·6	71
P.-S.P.	4,72,482	19·1	5	2,49,842	10·1	8
Communist	69,431	2·8	1	2,44,437	9 9	4
Independents & Others ..	13,31,646	34·2	—	5,74,811	23 4	21
Total	24,48,890	100	—	24,63,462	100	—

BIHAR LEGISLATIVE ASSEMBLY

Party	Candidates Set Up	Seats Won	Valid Votes Polled	Percentage of Total
Congress	313	210	44 45,393	42·04
Praja Socialist	221	31	16,99,339	16·07
Communist	59	7	5,37,037	5 09
Jan Sangh	30		1,30,052	1·23
Janta	110	23	8,13,109	7·68
Jharkhand	71	32	7,76,630	7·34
Independents	524	15	21,72,420	20 55
Total	1,334	318	1,05,74,880	100·00

BOMBAY LEGISLATIVE ASSEMBLY

Party	1951–52 Votes polled	Per-centage	1957 Votes polled	Per-centage	Seats con-tested	Seats won
Congress	73,83,757	52 8	78,97,050	48·2	392	233
P.-S.P.	21,27,940	15·0	15,07,040	9·1	100	36
P.W.P.	7,45,345	5 2	11,47,303	7 0	57	31
C.P.I.	3,62,832	2·8	7,02,732	4·7	38	18
S.C.F.	3,20,345	2 3	10,86,479	6 6	61	15
J.S.	1,23,403	0 9	2,91,692	1·8	25	4
Others	30,05,257	21 0	36,03,307	22 6	184	55
Total	1,40,68,879	100·0	1,63,55,603	100 0	—	392

Some regional tables for Bombay State are given below :

Saurashtra-Kutch

Party	1951-52 Votes polled	Per-centage	1957 Votes polled	Per-centage	Seats won
Congress	6,79,768	63·5	7,99,340	72·5	40
P.-S.P.	70,147	6·6	1,07,893	9·0	1
Independents	3,16,996	29 9	2,12,245	18·5	—
Total	10,66,911	100·0	11,19,478	100·0	41

Gujarat

Congress	15,56,089	46 0	19,16,641	51·2	57
P.-S.P.	6,41,048	19·0	2,26,14.	6·0	3
Independents	11,84,148	35·0	15,95,055	42·8	29
Total	33,81,285	100·0	37,37,839	100 0	89

Note : In both Saurashtra and Gujarat, parties other than the Congress and the P.-S.P. polled under two per cent of the total votes in both elections. The Jan Sangh polled 24,252 votes in Saurashtra-Kutch in the 1957 elections. In Gujarat the Communists polled 37,862 votes and the S.C.F. a little over 35,000 votes.

The 1957 totals for the Independents include 45,749 and 11,60,344 votes polled by candidates sponsored by Mahagujarat Janata Parishad in these two areas respectively.

The Parishad polled about 13 lakh votes in all the Gujarati-speaking areas of the State. It won 30 seats in Gujarat and none in Saurashtra. The Congress won 97 out of the 130 seats in the two Gujarati regions.

Party 115 against 49 and the Jan Sangh 103 against 91. The P.-S.P. put up 175 against 256 on the last occasion.

The number of independents was, however, about the same. It was 524 in 1952 and 522 in 1957.

The maximum number of contestants for an Assembly seat was 11 in a single-member constituency and 16 in a two-member one, the corresponding figures for Lok Sabha being eight and 11 respectively.

The single-member Assembly constituencies of Gaya in Bihar, Jodhpur City I and Fatehpur in Rajasthan, Chillupar in Uttar Pradesh and Sandeshkhali in West Bengal had 11 candidates each, while the two-member constituencies of Jahanabad in Bihar and Sirsa in the Punjab had each 16 contestants in the field.

In the elections to the Lok Sabha, there were eight contestants in the Rewa (Madhya Pradesh) single-member constituency and 11 in the Nawada (Bihar) two-member constituency.

Repolling had to be ordered in 30 polling stations. The number of constituencies affected was 22 in six States. The re-polling arose because of the mistakes of the polling staff.

PARTIES, SYMBOLS

Four parties were recognized as all-India parties :

The Indian National Congress, the Praja Socialist Party, the Communist Party, the Bharatiya Jan Sangh. These parties had the same symbols as in the previous general election. Congress (two bullocks with a yoke), Communists (ears of corn with sickle), P.-S.P. (hut), Jan Sangh (oil lamp with wick).

The State parties and their symbols :

(1) All-India Scheduled Castes Federation (Andhra Pradesh, Bombay, Madhya Pradesh, Mysore, Punjab, Delhi and Himachal Pradesh —Elephant). (2) All-India Forward Bloc—Marxist (West Bengal—standing lion). (3) All-India Ganatantra Parishad (Orissa—bow and arrow). (4) Akhil Bharat Hindu Mahasabha (Bombay, Madhya Pradesh and West Bengal—horse and rider). (5) Akhil Bharat Ram Rajya Parishad (Bombay, Madhya Pradesh, Rajasthan and Uttar Pradesh—rising sun). (6) Chota Nagpur and Santhal Parganas Janata Party (Bihar—cycle). (7) Jharkhand Party (Bihar—cock). (8) Peasants' and Workers' Party (Andhra Pradesh, Bombay and Mysore—cycle). (9) The People's Democratic Front (Andhra Pradesh—human hand). (10) Revolutionary Socialist Party (Kerala—Spade and stoker). (11) Tripura Ganatantrik Sangha (Tripura—ladder).

The standard for recognition as a party was a minimum of three per cent of the valid votes polled in the Assembly or the electoral college elections.

Out of 474 election petitions filed before the Election Commission after the general elections, 269 were disposed of upto January 31, 1958. Out of these 16 were dismissed by the Election Commission, two were withdrawn before the Commission, 194 were dismissed by the Tribunals, 38 were allowed by the Tribunals and 17 were withdrawn before the Tribunals, while two other petitions abated due to the death of the petitioners.

Ninety-four Tribunals were functioning in the various States at the end of January 1958.

Uncontested returns were :

Lok Sabha : Twelve, all Congressmen. (Andhra Pradesh four, Assam two, Bihar two, Madhya Pradesh one, Mysore two and Madras one).

State Assemblies : Andhra four Congressmen, Assam four Congressmen and two others, Bombay three Congressmen, Kerala one Independent, Madhya Pradesh six Congressmen, Madras three Congressmen, Mysore seven Congressmen and one Independent, Orissa one Congressman, the Punjab one Congressman, Rajasthan five Congressmen and Uttar Pradesh five Congressmen.

Twenty-seven women were elected to the Lok Sabha and 195 to the various State Assemblies in the second general elections as compared with 21 and 80 respectively in the first general elections.

Maharashtra

Party	1951–52 Votes Polled	1951–52 Percentage	1957 Votes Polled	1957 Percentage	1957 Seats Won
Congress	27,37,213	55·9	22,50,657	38·9	34
P.W.P.	6,28,108	12·8	8,40,879	14·5	26
P.-S.P.	6,63,169	13·5	6,23,047	10·8	23
C.P.I.	96,450	1·9	4,15,681	7·2	13
S.C.F.	2,53,478	5·2	4,00,264	3·1	4
Jan Sangh	—	—	1,80,134	3·1	4
Others	5,26,011	12·5	10,71,710	18·6	20
Total	49,04,429	—	57,82,372	—	134

Marathwada

Congress	5,61,188	43·5	6,82,205	51·9	35
P.W.P.	2,06,879	16·0	1,54,450	11·7	4
C.P.I.	1,91,598	14·9	1,07,877	8·2	2
P.-S.P.	1,16,488	9·0	1,07,484	8·1	1
S.C.F.	—	—	1,03,441	7·8	—
Others	2,13,961	16·6	1,59,755	12·3	—
Total	12,90,114	100·0	13,15,212	100·0	42

Vidarbha

Congress	14,66,389	48·7	18,20,893	52·3	55
S.C.F.	2,30,999	7·8	4,11,139	11·8	2
P.-S.P.	3,79,976	12·9	2,70,698	7·8	1
P.W.P.	—	—	1,51,974	4·4	1
C.P.I.	19,774	0·7	99,037	2·8	1
Jan Sangh	1,18,748	4·0	75,241	2·2	—
Others	7,34,312	24·9	6,56,499	18·7	3
Total	29,50,198	100·0	34,85,481	100·0	63

Note : Two more results were yet to be declared from Maharashtra. The Samyukta Maharashtra Samiti contested all the 134 seats in Maharashtra and won 100. It polled 30,61,161 votes. In Marathwada and Vidarbha, the Samiti put up fewer candidates and won 3 and 2 seats respectively.

Bombay City

Party	1951–52 Votes Polled	1951–52 Percentage	1957 Votes Polled	1957 Percentage	1957 Seats Won
Congress	3,93,110	39·7	5,49,374	46·5	12
P.-S.P.	2,57,112	30·1	1,71,775	14·6	3
S.C.F.	39,857	4·9	1,36,510	11·6	3
C.P.I.	32,381	3·8	1,02,265	8·6	2
Others	1,31,139	21·5	2,21,324	18·7	3
Total	8,53,629	100·0	11,81,248	100·0	23

Note : The Samyukta Maharashtra Samiti contested all the 23 seats in the elections. It won 11 seats and polled 6,08,405 votes.

The following table shows the number of seats won by the Congress and the Samiti respectively in each of the 12 districts of Maharashtra :

District	Congress	Samiti	District	Congress	Samiti
Thana	5	7	North Satara	3	7
Kolaba	—	8	Sholapur	9	3
Poona	1	15	Ahmednagar	1	9
Ratnagiri	1	13	Nasik and the Dangs ..	3	10
Kolhapur	—	11	West Khandesh	3	6
South Satara	2	6	East Khandesh	7	5
			Total	34	100

Twenty-three women elected to the Lok Sabha belonged to the Congress Party, two to the Communist Party and two to the Chota Nagpur Santhal Parganas Janata Party.

Of those elected to the State Assemblies, 176 belonged to the Congress, four to the Communist Party, one to the People's Democratic Front, two to the Chota Nagpur Santhal Parganas Janata Party, three to the Ganatantra Parishad and the remaining six are Independents.

The Bihar Assembly had 32 women members, the largest for any State, followed by Madhya Pradesh with 27, Uttar Pradesh with 26, Bombay with 25 and Mysore with 18.

Seventeen Scheduled Castes and Tribes candidates were elected to general seats.

Of these four were elected to the Lok Sabha (one each in Andhra, Kerala, W. Bengal and Tripura) and 13 to the State Assemblies (one each in Andhra, Bombay, Madras, Orissa and U.P.; two in Assam and three each in Kerala and W. Bengal).

A COMMENTARY

Below we give brief notes on points brought out in the tables.

ASSAM

With one exception in the Mikir and North Cachar Hills, the Congress failed to win a single tribal seat in the Hill districts of Assam. This is perhaps the most significant aspect of the elections to the State Assembly.

In an unbroken chain from the Garo, the Khasi and Jaintia Hills, through the Naga Hills to the Lushai Hills, the tribes largely voted for parties that favour a separate eastern Hill State, a demand examined and rejected by the States Reorganisation Commission. The Congress even lost the Shillong seat which it held previously.

The following was the position in the various Hill areas which return 18 members :

Lushai Hills : United Mizo Freedom Organisation (2), and Mizo Union (1).

Garo Hills : Garo National Council (6) and an Independent (1).

Khasi and Jaintia Hills : Eastern India Tribal Union (3), and Independents (2).

Naga Hills : Independents (2 both unopposed) and there were no aspirants for the seat.

Mikir and North Cachar Hills : Independents (2) and Congress (1). The Congress has lost its seat here.

In addition the Congress contested and won the tribal seat in Panery (Darang district).

The Congress however, won some half a dozen tribal seats in the plains and foot hills at Mangaldai, Goalpara, Jorhat, Kokrajhar (Goalpara district), Laharighat (Nowgong district), North Lakhimpur and Patacharkuchi (Kamrup district).

The unexpected defeat of the then Deputy Minister for Public Works Mr. Joybhadra Hagjer in the North Cachar Hills was a blow. He was a source of strength in the hill area. This left the Congress with only one successful tribal MLA : Mr. Chatrasingh Teron in the Mikir Hills seat. He joined the Congress leaving the Revolutionary Communist Party.

The leftist opposition in the State Assembly comprised 13 members—eight Praja Socialists, four Communists and one Revolutionary Communist.

The Hills representatives in the opposition consisted of four Garo National Conference members, four Eastern India Tribal Union members (all from Khasi Jaintia Hills), and two United Mizo Freedom Organisation members. One Mizo Union representative and two Independents from Mikir, North Cachar Hills were expected to join the tribal opposition group.

The Congress secured a very comfortable majority in the 108-member House, but its prestige suffered in comparison to the last elections. Not only did it secure a lesser number of seats, but also lost several prestige seats

KERALA LEGISLATIVE ASSEMBLY

Party	1951-54 Votes Polled	1951-54 Percentage	1957 Votes Polled	1957 Percentage	1957 Seats Contested	1957 Seats Won
Congress	22,27,025	42·3	22,56,712	38·2	124	43
C.P.I.	9,22,539	17·5	21,56,012	36·5	100	60
P.-S.P.	10,69,126	20·3	6,39,586	10·8	62	9
R.S.P.	2,12,354	4·0	1,78,431	3 0	28	NIL
Muslim League	1,70,933	3 2	2,36,323	4·0	18	8
Others	0,74,797	12·7	4,40,738	7·5	48	6
Total	52,71,663	100	59,07,802	100	—	126

Note: The votes polled in the Ma'alar area in the 1951 elections to the Madras Assembly and the votes polled in Travancore-Cochin, less Nagercoil, in the second general election in that state in 1954 have been added together to give the total 1951-54 vote for Kera'a.

MADHYA PRADESH LEGISLATIVE ASSEMBLY

Party	1951-52 Votes Polled	1951-52 Percentage	1957 Votes Polled	1957 Percentage	1957 Seats Contested	1957 Seats Won
Congress	31,44,424	45 2	36,03,778	47·9	287	231
P.-S.P.	9 52,339	13·7	9,66,613	12·9	148	12
Jan Sangh	4,03,243	7·2	7,19,305	9 6	121	10
R.R.P.	3,44,560	5 0	2,17,412	2 9	46	5
Mahasabha	2,81,090	4 0	3,17,697	4 0	40	7
C.P.I.	44,286	0 6	1,10,822	1·5	22	2
Others	16,87,712	24 3	15,47,093	21 2	238	20
Total	68,57,654	100	74,82,720	100	—	287

Note: The 1951-52 figure is for the area comprising the present State of Madhya Pradesh. The 20 Independents returned in 1957 include six Socialists (Lohia) and a Communist trade union leader elected from Indore city.

MADRAS LEGISLATIVE ASSEMBLY

Votes polled	1951-52 Percentage	1957 Seats Contested	1957 Seats Won	1957 Votes Polled	1957 Percentage
Congress : 33,36,054	35 5	201	151	40,13,375	42
Communists : 9,09,022	10·0	53	4	8,65,941	7
P.-S.P. : 10,88,173	12 0	22	2	2,69,437	2·3
D.M.K. : —	—	117	15	15,84,706	13 8
C.R.C. : —	—	55	16	9,03,175	7·7
Independents and others : —	—	—	17	—	—
Total Votes Polled in 1951 : 92,12,078.				1,16,36,902.	

Note: The 1951-52 figures have been adjusted for the territories comprising the present State of Madras (*i.e.* less Andhra, Malabar and South Kanara and plus Nagercoil. There was an increase in the electorate for the State over the five years, the figure for 1957 being nearly 1·8 crores.

The P.-S.P. vote for 1951 includes those secured by the Socialist Party and the K.M.P.P.

Two Ministers, one Deputy Minister, two members of Parliament, including Mr. Bimala Prosad Chaliha, now Chief Minister, then President of the Assam Pradesh Congress Committee, were defeated.

BIHAR

Though the Congress returned to power its strength dropped from 241 in a House of 320 to 210 in a House of 318.

Had it not been for the fact that different opposition parties pulled one another down, the Congress majority would have been further reduced. In a very large number of constituencies, multi-cornered contests did help the Congress.

At least 20 seats came as a gift to it on account of the neck to neck race between the Praja-Socialists and the Socialists. These seats were won narrowly.

Another favourable factor was the presence of 524 Independents in the field. 370 of them forfeited their deposits, having helped to split the anti-Congress vote.

The Jharkhand Party retained its block of 32 seats, losing some safe seats reserved for Scheduled Tribes and making up the loss in the general constituencies.

The Janata Party, which functioned only in Hazaribagh, emerged as a new force in the State and captured all the 16 seats there and seven more in the districts of Patna, Saran and Palamau.

BOMBAY

The Samyukta Maharashtra Samiti polled just under 53 per cent of the total votes cast and captured 100 of the 134 seats in Maharashtra proper according to a regional analysis of voting to the Bombay Assembly.

The Congress poll in this area declined from 27·4 lakhs or 56 per cent in 1952 to 22·5 lakhs or 39 per cent. The party did not gain a single seat in Kolaba or Kolhapur district, and secured only one seat each in Poona, Ratnagiri and Ahmednagar districts.

In Bombay City, the Samiti polled just over six lakh votes or 51·5 per cent of the total votes cast. The Congress, however, improved its position from 39·7 per cent to 46 5 per cent by polling over one and a half lakh votes more than in 1952. Of the 23 seats from Bombay city, the Congress won 12 and the Samiti 11.

The Congress rout in Maharashtra was, however, partly offset by gains in the other two Marathi-speaking areas of Marathwada and Vidarbha. In the former, the Congress won 35 out of 42 seats and increased its poll by over one lakh votes from 43·5 to 52 per cent.

In Vidarbha, the Congress increased its poll by about 3·5 lakhs from just under 50 per cent to 52 3 per cent and won 55 of the 63 seats.

In neither region was the Samiti able to make very much of an impression.

Taking the Marathi-speaking region as a whole, the Congress won 124 seats out of 248 as against 105 by the Samiti. The Congress vote, however, declined by a few thousand (on account of the losses in Marathwada) while the ratio of the party's vote to the total dropped from 52·6 per cent to 45·3 per cent.

A possible conclusion would appear to be that the bilingual formula for Bombay was endorsed by Marathwada and Vidarbha but repudiated by Maharashtra. The Marathi speaking people of the State as a whole approved the *status quo*.

On balance, the conclusion could also be drawn that the bilingual formula was accepted by the people of Bombay city notwithstanding the fact that the Samiti polled a majority of the total votes cast.

It must be remembered that the Congress polled a minority of votes in the city even in 1952. The fact that it was able to improve its position both in terms of the number of votes cast and the proportion of this to the total would not indicate a rejection of the bilingual formula which the party sponsored.

MANIPUR TERRITORIAL COUNCIL (1957)

Party	Candidates Set Up	Seats Won	Valid Votes Polled	Percentage of Total
Congress	30	11	48,721	28·01
Praja Socialist	21	1	10,070	5·79
Communist	17	4	19,840	11·40
Independents	80	14	95,319	54·80
Total	148	30	173,950	100·00

MYSORE LEGISLATIVE ASSEMBLY

Party	1951-52 Votes Polled	1951-52 Percentage	1957 Votes Polled	1957 Percentage	1957 Seats Contested	1957 Seats Won
Congress	24,36,951	49·0	33,43,644	50·9	207	150
P.-S.P.	11,11,320	22·4	8,87,928	13·6	77	18
C.P.I.	67,390	1·3	1,23,403	1·9	20	1
Jan Sangh	74,801	1·5	83,734	1·3	19	nil
Others	12,37,915	25·8	21,15,761	32·3	180	39
Total	49,28,377	100	65,54,470	100	—	208

Note : The 1951-52 figure is for the area comprising the present State of Mysore.

ORISSA LEGISLATIVE ASSEMBLY (1957)

Party	Candidates Set Up	Seats Won	Valid Votes Polled	Percentage of Total
Congress	140	56	16,09,614	38·55
Praja Socialist	45	11	4,34,165	10·40
Communist	42	9	3,56,591	8·54
Ganatantra Parishad	108	51	11,84,604	28·37
Independents	161	13	5,90,486	14·14
Total	496	139	41,75,460	100 00

PUNJAB LEGISLATIVE ASSEMBLY

Party	1951–54 Votes Polled	1951–54 Percentage	1957 Votes Polled	1957 Percentage	1957 Seats Contested	1957 Seats Won
Congress	25,27,580	38·36	35,31,027	46	152	118
C.P.I.	4,07,142	6·18	10,93,506	14·2	69	6
Jan Sangh	2,95,121	4·48	6,42,799	8·3	62	9
P.-S.P.	2,26,832	3·44	94,564	1·3	15	1
S.C.F.	1,50,000	2·28	4,18,773	5·5	25	5
Akalis	10,73,999	16·29	—	—	—	—
Others	19,08,841	28·97	19,34,282	24·7	248	13
Total	65,89,515	100	77,14,951	100	571	152

Note : The votes cast in the former Punjab Assembly elections in 1951 and the second general election in PEPSU in February, 1954, have been totalled to give the 1951–54 figures for the new Punjab. The Communist poll for 1951–54 includes 57,739 votes cast in favour of the Punjab Lal Communist Party.

RAJASTHAN LEGISLATIVE ASSEMBLY

Party	1951-52 Votes Polled	1951-52 Percentage	1957 Votes Polled	1957 Percentage	1957 Seats Won
Congress	13,86,994	39·8	22,01,236	44	119
Jan Sangh	2,22,144	5·8	2,94,624	6	6
R.R.P.	3,99,956	11·4	4,55,588	9·3	17
P.-S.P.	1,52,069	4·3	1,73,947	3·4	1
C.P.I.	20,675	0·6	1,40,502	2·8	1
Others	12,78,835	28·1	16,97,100	34·5	32
Total	34,83,675	100	49,63,796	100	176
Electorate	80,05,902		88,86,661		

Note : The 1951-52 figure represents the total for the new Rajasthan, including Ajmer.

There were many straight contests in the city and a considerable portion of the Samiti vote was interpreted as a vote against the Congress or in favour of the other parties rather than a pro-Samiti vote as such.

Analysing the voting partywise the Communists and the Scheduled Castes Federation gained ground in Bombay city while the P.S.P. lost ground.

The most striking features of the voting in the three Marathi-speaking regions was the much improved performances of both the Peasants and Workers' Party and the Scheduled Castes Federation. The P.W.P. appeared to be dogging with its leadership going to the Congress but both this party and the S.C.F. showed an unexpected resilience which is perhaps accounted for by the impetus given them by the SMS alliance in Maharashtra.

The P.-S.P. lost ground in all three regions although it remained the second party after the Congress taking the State as a whole. The Communists were possibly the biggest beneficiaries of the Samyukta Maharashtra movement. They improved their position considerably in Maharashtra and also in Vidarbha but, however, lost ground in Marathwada and in Telangana, another constituent unit of the State (Hyderabad State), where they contested the elections as part of the P.D.F. in 1952.

As for the Congress, the ruling party certainly faced a deep crisis in the Marathi-speaking region. Lack of leadership combined with the Maharashtra P.C.C.'s equivocal position on the States reorganisation proposals was largely responsible. The police firings over the reorganisation riots and the refusal of the Government to hold an inquiry into them had their sha

Despite the Mahagujarat agitation the Congress was able to improve its position in the elections to the Bombay Assembly from the Gujarati-speaking areas of the State.

The Party polled over five lakh votes more in Gujarat and Saurashtra-Kutch than it did in 1952 and secured 55 per cent of the total votes cast as against 50 per cent in the previous elections.

The Mahagujarat Janata Parishad made practically no impression whatever in Saurashtra-Kutch. Even in Gujarat it polled a little over 13 lakh votes or about 34 per cent of the total votes cast as against over 51 per cent secured by the Congress.

The M.G.J.P.'s success was essentially limited to the four northern districts of Gujarat where it captured 26 out of 43 seats. It won two out of four seats in Sabarkantha, 11 out of 12 seats in Mehsana, eight out of 14 seats in Ahmedabad district and five out of 13 seats in Kaira.

In addition, it won one seat in Banas-kantha, two seats in the Panch Mahals and one seat in Broach district. In all the Parishad won 29 seats out of 89 in Gujarat and none in Saurashtra-Kutch.

The conclusion that emerged from this analysis was that the Gujaratis were still strongly pro-Congress. In Saurashtra-Kutch the Congress polled over 72 per cent of the total votes and the best that it did anywhere in the country—and won 40 out of the 41 seats in that area.

KERALA

The elections in Kerala were closely contested. Over 70 per cent of the electorate of 7·2 million exercised their franchise. This is probably the highest poll in any State.

The Muslim League improved its position somewhat in Malabar largely on account of its alliance with the P.-S.P.

A significant feature of the election was the marked disinclination of the electorate to support the smaller parties or independents. Of the six independents who were elected, five were supported by the Communists. On the other hand, 27 of the 65 independents who contested forfeited their deposits.

TELANGANA

Party	1951-52 Votes Polled	1951-52 Percentage	1957 Votes Polled	1957 Percentage	1957 Seats Won
Congress	11,90,292	37·5	17,20,507	46·5	68
Communists	9,71,677	31·2	9,41,309	25 6	22
P.S.P.	4,23,031	13·4	2,11,587	5·7	1
Independents	5,95,732	17·9	8,15,366	22·2	14
Others	31,86,732	100 0	36,88,764	100·0	105

Note : Only the Telangana area of Andhra Pradesh went to the polls to elect 105 members to the 305-member State Assembly. The rest of the State elected 196 members in February, 1955.

U.P. LEGISLATIVE ASSEMBLY

Party	1951-52 Votes Polled	1951-52 Percentage	1957 Votes Polled	1957 Percentage	1957 Seats Contested	1957 Seats Won
Congress	80,32,455	47·93	93,91,481	42·7	430	286
P S P.	29,86,790	17·82	31,72,265	14 4	256	44
C P I	1,55,869	0 93	8,42,989	3·9	90	9
Jan Sangh	10,66,714	6 37	21,45,363	9·6	233	17
Hindu Mahasabha	2,34,859	1·40	13,880	—	3	nil
R R P.	2,91,754	1·74	1,70,015	0·8	33	nil
Others	39,89,681	23·81	70,10,197	28·6	358	74
Total	1,67,59,122	100	2,27,46,190	100	—	430
Electorate	3,17,70,309		3,47,74,434			

Note : The 74 Independents who have been elected this time include 25 Socialists (Lohia group).

W. BENGAL LEGISLATIVE ASSEMBLY

1951-52 Votes Polled	1951-52 Percentage	1957 Votes Polled	1957 Percentage	1957 Seats Contested	1957 Seats Won
Congress : 29,96,372	38·4	48,30,430	46·3	251	152
Communists : 8,09,803	10 3	18,84,723	18 0	103	46
P.S.P. : 8,84,867	11·4	10,29,575	9 8	67	21
Forward Bloc : 3,94,605	5 1	4,05,910	3·9	26	8
R.S.P. : 63,927	0·9	1,85,658	1·8	13	3
Jan Sangh : 4,17,819	5·4	1,02,477	1·0	33	—
Hindu Mahasabha : 1,76,762 ..	2·3	2,21,614	2·1	37	—
Others : 20,00,778	26 2	18,00,844	17·2	405	22
Total : 78,34,933	100	1,04,61,231	100	935	—

Note : The 1951-52 figures include those for the area transferred from Bihar to West Bengal.

The record of the P.-S.P. and the R.S.P. was even poorer. The former put up 62 candidates, of which as many as 27 lost their deposits. The party's influence was limited to the areas around Trivandrum and parts of Malabar and largely rested on the personal prestige of its leader, Mr. Pattom Thanu Pillai. It won only nine seats.

The R.S.P. fielded 28 candidates of whom 20 lost their deposits including the Party leader, Mr. Sreekantan Nair, who in 1952 topped the polls to the Lok Sabha from the State.

The Communists broke into the Congress strongholds in Trichur and Ernakulam Districts (largely comprising the former Cochin State) and Kottayam District. The Christian vote in the State, which was in the past more or less solidly Congress, went probably in part to the other non-communist parties and independents this time, at any rate in certain areas.

MADHYA PRADESH

While the Congress secured a steam-roller majority in Madhya Pradesh, the general elections exposed the weakness rather than the strength of the organisation which in the last five years provided the Government in all the four constituent units of this newly integrated State.

The Congress party in Mahakoshal won 134 of the 151 seats, as against 129 in the previous elections. But this gain did not truly reflect the strength of the organisation when one took into account the inclusion of nine big ex-landlords and five former rulers, who, though not truly Congressmen, hitched their fortunes to the Congress star. Maharaja Pravin Chandra Rao of Jagdalpur, a late inclusion in the Congress list for the Jagdalpur Assembly seat, was alone responsible for the victory of all the ten Congress candidates from the Bastar district. In the previous general elections, when the Maharaja was not with the ruling party, the Congress lost almost all the seats to the Maharaja's independent nominees.

In Madhya Bharat the number of Assembly seats were reduced from 99 to 89. Congress losses there stood at 24.

But the Congress could have little sense of satisfaction, when even after a last-minute inclusion of the Maharani of Gwalior in the Congress fold, the organisation could not effectively contain or curb communal forces in the State. Though the Mahasabha this time won only seven seats as against 12 in the previous elections, the annexation of ten seats in place of three formerly held by the Jan Sangh maintained the hold of the two communal organisations at the pre-election level in this area.

The results indicated that either the Maharaja and Maharani of Gwalior, who toured part of their old territory, did not command the influence credited to them before the Maharani's nomination, or communalism was too deep-seated in this area to be dislodged by half-hearted attempts made at election time.

The only redeeming feature was the defeat of all the R.R.P. candidates from this area. In the last Assembly they held two seats. But even this slight gain was erased by the election of four independents in place of the two in the old House.

The Communists, too, infiltrated into the politics of this area, winning two seats. Mr. Sarwate from Gwalior came under his own party label and Mr. Homi Dajee, General Secretary of Madhya Bharat Trade Union Congress, came into the new House in the garb of an independent candidate.

The annexation of eight of the nine seats by the Congress in the former Bhopal State gave on paper a much more rosy picture than it actually was. The loss of the Bhopal city seat to the Communist candidate, Mr. Shakir Ali Khan, and the defeat of the Congress candidate here, who all but lost his deposit as a bad third to a Communist and Mahabala candidate, was perhaps a reflection of the lost prestige of the Congress in this State, where old Congress workers and leaders had been eliminated.

MADRAS

The Communists lost ground while the P.-S.P. took a severe beating.

On the other hand, the Congress improved its position considerably.

The main opposition came from the Dravida Munnetra Kazhagam and the Congress Reforms Committee comprising an influential group of rebel Congressmen.

The D. M. K. is a parochial and communal party, it stands for a separate Dravidastan, is anti-Hindi and claims to be a social reform movement in an inverted sense insofar as it is anti-Brahmin. Paradoxically, its parent body, the Dravida Kazhagam, with which it broke in 1948, and which has a broadly similar platform, campaigned for the Congress.

Caste once again proved to be a dominant factor in Madras politics and all parties were guilty of exploiting caste considerations.

The Commonwealth Party and Toilers Party, both of them caste groups, captured a number of seats in 1952. But they subsequently disappeared and were partially absorbed into the Congress. The Forward Bloc Marxist polled a little over a lakh of votes in 1952 and about maintained its position in 1957.

The Communists did not poll many fewer votes than in 1952, but the proportion of votes cast in their favour showed a more distinct drop

MYSORE

Mysore along with Madhya Pradesh was the most solidly Congress State

The opposition was weakly organized The main challenge came from the P S P But the P S P did not appear to have consolidated the position it established in the 1952 elections The total votes polled by the party (inclusive of the Kisan Mazdoor Praja Party vote in 1952) declined from 11 00 000 to 8 90 000 The ratio of votes cast has correspondingly declined from 22 4 per cent to 13 6 per cent

The Communists were still not very significant But they improved their position and would no doubt, seek to capture the P S P vote as they did in many other States

PUNJAB, RAJASTHAN

The emergence of the Communist Party as the main, though still modest, challenge to the Congress in the Punjab and the growing influence of the right wing communal parties in this State as well as in Rajasthan were, perhaps the most striking features revealed by an analysis of the voting to these two State Assemblies

The Communists polled over ten lakh votes in the Punjab or more than 14 per cent of the total votes cast This constituted a remarkable increase over the four lakh votes secured by the party during the previous elections an increase not fully reflected in the six seats the party was able to win

On the other hand the Jan Sangh too doubled its vote from just under three lakhs to nearly 6 5 lakhs But most of this was polled in the Hindi speaking areas of the State and reflected an accession of strength to the party following the agitation over the reorganisation of the Punjab and the regional formula

Much of the Akali vote went to the Congress with which the party merged The dissident Akalis under Master Tara Singh were not able to find much support

Two other factors of interest in the Punjab were the decline of the Praja Socialist Party and the resurgence of the Scheduled Castes Federation The Communists appeared to have eaten into the P S P vote

The most noteworthy feature of the Rajasthan elections was the improvement in the poll over 1952 when about 30 per cent of the electorate turned up to vote There appeared to have been a considerable development of political consciousness over the previous five years

The Ram Rajya Parishad remained the strongest organised Opposition party in the State Together with the Jan Sangh it polled a little over six lakh votes or 17 per cent of the total in 1952 and 7 5 lakh votes or just over 15 per cent of the total poll on this occasion

The P S P in Rajasthan showed little signs of growth The Communists, however, established themselves and, as in many other States, bid fair to capture the Socialist vote

TELANGANA

The Congress was able to "contain" the Communists in Telangana while itself polling over five lakh votes more than in 1952

The Communist and People's Democratic Front secured 9 7 lakh votes or 31 2 per cent of the total votes cast in Telangana in 1952. In 1957 they polled only 9 4 lakh votes, which was 25·6 per cent of the total poll.

The Congress on the other hand, was able to better its position from 37 5 per cent to 46 5 per cent of the total number of votes cast.

The Congress ate into both the Communist and the P S P vote the latter of which were halved The P S P obviously suffered a serious reverse in the south, having fallen down badly in Kerala, Madras and the former Andhra area

Although the Communists lost ground proportionately to the Congress in Telangana, it must be noted that it retained a solid core of support But at the same time the stranglehold it enjoyed in certain districts was definitely broken In 1952, the P D F captured all the 12 seats in Nalgonda district This time however it lost three Assembly seats and a Lok Sabha seat to the Congress The Communist vote in the district also declined from 3 4 lakhs to 2 6 lakhs while the Congress vote nearly doubled at 2 2 lakhs

If the Communists lost ground in Telangana they bettered their position in the old Andhra proper where elections were held early in 1955

The Communists improved their position in this area from 14 7 lakh votes or 19 6 per cent of the total in 1952 to 26 9 lakh votes or 31 13 per cent of the total in 1955 The Congress vote rose from 22 lakhs to 34 lakhs while the P S P lost heavily its vote having declined from just under 15 lakhs to just under five lakhs in 1955

In Andhra proper the Congress gained from the return to it of the bulk of the Krishikar Lok Party and part of the K M P P section of the P S P The P S P was in its turn weakened on account of breakaway of the Lohia group which had some influence in Vishakapatnam district

The voting pattern for the Lok Sabha to which the entire State returned 43 members gives the overall picture for Andhra Pradesh Nearly 95 lakh votes were polled Of these the Congress got just under 48 lakhs or a little over 50 per cent The Communists (including the P D F) secured 21 lakhs the P S P 3 5 lakhs and the Lohia Socialists 3 7 lakhs

UTTAR PRADESH

The political monopoly so long enjoyed by the Congress in Uttar Pradesh was effectively challenged in the 1957 elections

The Congress still enjoyed very substantial support but the lesson of the poll was that the electorate would not necessarily long continue to vote for a party machine and the party bosses who controlled it

The fact that some rebel Congressmen were able to win a few seats was also a pointer in the same direction

Uttar Pradesh was one of the few States in which the ratio of votes polled by the Congress to the total number of votes cast declined It dropped from 48 per cent in 1952 to 42 7 per cent in 1957

The Praja-Socialist Party emerged as the largest opposition group with 44 members It might well have captured a hundred seats were it not for the break with the Lohia Socialists who managed to secure 25 seats

The P S P secured more votes than before, but it too moved down proportionately to the total poll

Further to the left, the Communists improved their position with a poll of nearly 4 per cent of the total as against a little under one per cent in 1952 They polled about 8,45,000 in 90 constituencies and won nine seats In 1952, they put up 43 candidates, 40 of whom lost their deposits.

On the right, the Jan Sangh too forged ahead and doubled its vote at 21,50,000 But the Hindu Mahasabha was wiped out, while the Ram Rajya Parishad lost much ground.

WEST BENGAL

The Congress Party was firmly back in p but with slightly less than the two-thirds rity which it had enjoyed in the previous Assembly

The stout bid by the five major leftist p —the Communists, the Praja Socialists, th Forward Bloc and the Revolutionary Soc Party—to oust the Congress and form alternative Government failed, but it ful its claim to be the only real opposition alliance captured slightly more than 34 per of the total votes cast as compared to 4 cent by the Congress

The Congress Party's 46 per cent repres a not inconsiderable increase over the nu of votes the pa ty secured during the 195 tions when its percentage was 39 per cent

With the complete rout of the Hindu M sabha and the Jan Sangh who jointly f National Democratic Party had 13 mem the old Assembly and with the success t two members of the other leftist comb in (comprising eight small parties) the five alliance had 85 members in the House t the support of several of the 11 indep t The Congress had 152

The Communists with 46 seats were by t largest opposition party in the new Hou the previous elections this party had 25 s

The Praja Socialists, with 21 mem the second largest opposition party in t elections the Kisan Mazdur Praja Part is now part of the P S P) secure 1 t the House

A remarkable feature of the el t r State was the unseating of as many as 1 members of the Assembly These includ t Ministers two Deputy Ministers the C Chief Whip and 16 other Congressmen 13 munists one member each of the S cialist and the Forward Bloc, four of the Jan S two of the Hindu Mahasabha and one Ind ent

Even more interesting and in th certain political circles of significance f future was the Congress defeat in Calcutta out of the total of 26 seats the Congr only 8 as against 16 in the last elections

The pattern was similar in other areas industrial labour was concentrated hill regions of North Bengal too the C flopped miserably The best it could do was support a successful Independent candidat

On the other hand Congress claims to a firmer foothold in rural West Bengal w out The abolition of the zamindari system the introduction of various measures f cultural improvement were listed as r for the Congress success in the rural are

Restlessness born of growing unemployment particularly among the hard-pressed middle classes, was the principal factor respon the Congress reverses in industrial and ur areas Equally operative was the general hig ness over the high prices of food and essentials

Another highlight of the elections in State was the high percentage of the el who exercised their right of franchise On the 15 million eligible voters, over 10 mil cast their votes (In the 1952 elections the fi was slightly over 7 million) The votes cas the newly-acquired area of Purulia, formerl Bihar, numbered roughly 350,000

Still another interesting point about pol in West Bengal was the anti-Congress v displaced persons from East Pakistan Th refugees voted overwhelmingly against Congress.

BYE-ELECTIONS

Since the General Elections of 1957 bye-elections took place for six seats in the Lok Sabha and for 46 in the State Assemblies upto the end of June 1958.

Of the six Lok Sabha bye-elections, one each was in Bihar, Bombay, Madras, Punjab, U.P., and West Bengal. Of the six seats three were won by the Congress, and one each by the P.S.P., the Samiti and an Independent.

Of the bye-elections for 46 seats in the State Assemblies, elections for six seats were in Andhra, four in Assam, five in Bihar, eight in Bombay, one in Kerala, three in M.P., three in Madras, four in Mysore, four in Orissa, two in the Punjab, four in U.P., and two in W. Bengal.

Of the 46 seats 23 were won by the Congr 11 by Independents, four by the P S P, tw Janta and one each by the Socialists, P W.P., Communists, Jan Sangh and Ganata Parishad.

All the six Lok Sabha seats were held by Congress and 26 of the 46 State Assembly s

ANDHRA LEGISLATIVE COUNCIL

(*See p. 1119*)

ANDHRA PRADESH LEGISLATIVE ASSEMBLY

Speaker : A. Kaleswara Rao ; *Deputy Speaker :* K. Lakshman Bapuji.

Secretary : G. V. Chowdary ; *Joint Secretary :* M. Surya Rao.

Asstt. Secretaries : M. Habibullah Baig ; C. Padmanabhan.

Editor of Debates : M. K. Sastri.

Registrar : M. S. Naidu.

There are 196 members from the former Andhra area and 105 from Telangana. The members from the former Andhra area were elected in 1955 while those from Telangana in March, 1957. The term of the Assembly has been extended till 1962.

An estimate of party position is given below:

Congress : 213 ; Communists and People's Democratic Front : 36 ; Socialists : 17 ; Praja Socialists : 2 ; Nationalist Party : 19 ; Independents : 13.

FORMER ANDHRA STATE

Below we give the names of members from the former Andhra State Legislative Assembly :

Adinarayana, Botsa (S), (*Bhogapuram*) ; Ammanna Raja, Srimathi Choolagam (Cong.), (*Attili*) ; Anthony Reddy, P. (Cong.), (*Anantapur*) ; Appala Swamy, Bojja (Cong.), (*Amalapuram (R)*) ; Appa Rao Bahadur, Raja Meka Rangayya (Cong.), (*Nuzvid*) ; Appa Rao, Beesetti (Cong.), (*Anakapalli*) ; Appa Rao, Kammili (Cong.), (*Kaikalur*) ; Appalanarayana Reddy, Y. (Cong.), (*Rayachoti*) ; Ayyapu Reddy (Cong.), (*Nandikotkur, General*) ; Bala Nageswara Rao, Ambatipudi (Praja), (*Rajahmundry*) ; Bapaiah, Ginjupalli (Cong.), (*Padakanam*) ; Bapaiah Chowdary, Mandava (Cong.), (*Guntupalli*) ; Bapayya, Peta (Cong.), (*Tenali*) ; Bapineedu, Alluri (Cong.), (*Kovvur*) ; Basi Reddy, P. (Cong.), (*Pulivendla*) ; Bhaga-vantha Rao, Anagani (Cong.), (*Kuchinapudi*) ; Bhanoji Rao, Ankitham Venkata (Cong.), (*Visakhapatnam*) ; Biap Reddi, P. (Cong.), (*Nallamalai*) ; Brahmananda Reddi, Kasu (Cong.), (*Pharangapuram*) ; Brahmayya, Seerla (Cong.), (*Eluru*) ; Bussanna, G. (P.S.P.), (*Adoni*) ; Chandramouli, Jagarlamudi (Cong.), (*Ammanabrole*) ; Chandramouli, Kalluri (Cong.), (*Vemuru*) ; Channaiah, Yadam (Cong.), (*Repalle*) ; Chenchal a Naidu, Nalamothu (Cong.), (*Kondapi*) ; Chengalraya Naidu, N. P. (Cong.), (*Vepanjeru*) ; Chinnamma Reddy (Cong.), (*Chittoor*) ; Chitambara Reddi, A. (Cong.), (*Penukonda*) ; Chitti, Marupilla *alias* Appalaswamy (Cong.), (*Vijayawada North*) ; Chudamani Dee, V.C. (A.N.P.), (*Parvatipuram*) ; Dorsikannu, M. (Cong.), (*Tirutlani, Reserved*) ; Gopala Rao, D. (Ind.), (*Jaggampeta*) ; Vacant (*Atmakur*) ; Gopalkrishna, Vadrevu (Praja), (*Pithapuram*) ; Gopalkrishna Reddi, Pelleti (Cong.), (*Gudur*) ; Gopalakrishnaiah, Vavilala (Ind.), (*Sattenapalli*) ; Gopalakrishnayya Gupta, T. (Cong.), (*Madanapalle*) ; Gopalu Reddi, P. (Cong.), (*Tirutlani*) ; Govindarajulu, Nalabolu (Cong.), (*Vinukonda*) ; Gunnayya, Pothula (Cong.), (*Palapatnam, Reserved*) ; Gurraju, Parvatha (Cong.), (*Prathipadu*) ; Harischandra-Prasad, M. (Cong.), (*Tenali*) ; Jagannadham, Si (Cong.), (*Narasannapeta*) ; Jagannadham, Reddi (A.N.P.), (*Chodavaram*) ; Jagannadharaju, Gadiraju (Cong.), (*Undi*) ; Jagannadharaju, Gottumukhala (S), (*Bhoomunipatnam*) ; Jalayya, Tellakula (Cong.), (*Guntur No. I*) ; Jiyyar Dass, Talluri (Cong.), (*Ongole Reserved*) ; Kaleswara Rao, Ayyadevara (Cong.), (*Vijayawada, South*) ; Kamayya, Reddi (Cong.), (*Pallipalem, Reserved*) ; Kasireddy, Sanikommu (Com.), (*Podili*) ; Kodanda Rama Reddi, V. (Cong.), (*Sarrepalli*) ; Kodandaramayya, Pusuluri (Cong.), (*Polavaram*) ; Kondaiah Chowdary, Divi (Praja), (*Kandukur*) ; Kotayya, Pragada (Cong.), (*Chirala*) ; Koti Reddy, K. (Cong.), (*Lakkireddipalli*) ; Koti Reddi, Meka (Cong.), (*Mangalagiri*) ; Krishnavataram, Srimat Kilambi Venkata (Praja), (*Tadepalligudem*) ; Krishnamraju Bahadur, Raja Vatsavaya Venkata (Cong.), (*Tuni*) ; Krishnayya Allam (Cong.), (*Venkatagiri, Reserved*) ; Kurmayya, Vemula (Cong.), (*Gudivada, Reserved*) ; Smt. Kusum Gajapathiraju, (S), (*Gajapathinagaram*) ; Lakshmana Dass, Lukulapu (Cong.), (*Pathapatnam*) ; Lakshmi-narasimham Dora, R. (Cong.), (*Tekkali*) ; Lakshminarayana Reddi (Ind.), (*Pathikonda*) ; Lakshminarayana Reddi, Tetala (Praja), (*Anaparti*) ; Lakshmunaidu, Addakula (A.N.P.), (*Naguru*) ; Latchanna, Gowtu (Cong.), (*Sompeta*) ; Latchapatrudu, Ruthala (A.N.P.), (*Golugonda*) ; Laxmayya, Jayvadi (Cong.), (*Penugonda*) ; Lingam, N. K. (Cong.), (*Nandikotkur, Reserved*) ; Mahaboob Ali Khan (Cong.), (*Kurnool*) ; Mahammad Rahamathullah, Shaik (Cong.), (*Cuddapah*) ; Mahammad Tahseel (Com.), (*Bhadrachalam*) ; Matcharaju, Matcharasa (A.N.P.), (*Gudem*) ; Munuswami, Merlapaka (Cong.), (*Gudur Reserved*) ; Murty Raju, Ch. S. R. Ch. V. P. (Cong.), (*Pendapadu*) ; Nagayya, Eti (Cong.), (*Pararada*) ; Nageswara Rao, Meduri (Cong.), (*Guntur No. II*) ; Nageswara Rao, Ganji (Com.), (*Razole, Reserved*) ; Nagi Reddi, Mandapati (Com.), (*Macherla*) ; Narasimha Murty, Golkoti (A.N.P.), (*Amalapuram*) ; Narasimhapparao, Pydi (A.N.P.), (*Palakonda*) ; Narasinga Rao, B. G. M. A. (Cong.) (*Kanithi*) ; Narayanappa, Sanda (Cong.), (*Gooty*) ; Narayana B.V.L., (Ind.) (*Ongole*) ; Nathamuni Reddi, Reddivari (Cong.) (*Tirupati*) ; Obula Reddi, Kandula (Cong.) (*Markapur*) ; Padmanabha Raju K.V.S. (S), (*Rerdi*) ; Pallam Raju, Mallipudi (Cong.), (*Kakinada*) ; Pamidesswara Rao Punnami (Cong.), (*Mallesvaram*) ; Papa Rao, Thammineni (A.N.P.), (*Nagarikatakam*) ; Paramdhamayya, Govada (Cong.), (*Ponnur*) ; Parthasarathi, Potharaju (Cong.), (*Rajampet*) ; Pattabhirama Rao, S. B. P. (Cong.), (*Pamarru*) ; Perumallu, Dasari (Cong.), (*Palacole, Reserved*) ; Pothuraju, Mutyala (Cong.), (*Narasapatnam, Reserved*) ; Punnayya, Kottapalli (Cong.), (*Cheepurupalli, Reserved*) ; Pydayya Naidu, Majji (Cong.), (*Kondakarla*) ; Raja Veerabasavachikka Rayalu, Y. B. (A.N.P.), (*Panganur*) ; R. P. Naidu (Cong.), (*Tavanampalle*) ; Rajagopal Rajaram, M. (Cong.), (*Gooty, Reserved*) ; Rajayya, Boyina (Cong.), (*Salur, Reserved*) ; Rajeswara Rao, Mallipudi (Cong.), (*Divi, Reserved*) ; Ramabhadraraju, Nadimpalli (Cong.), (*Cheyyeru*) ; Ramabrahmam, D (Cong.), (*Kuppam*) ; Ramachandra Raju Bahadur, Raja Kakarlapudi (Praja), (*Ramachandrapuram*) ; Ramchandra Reddi, Tarimela (Cong.), (*Putloor*) ; Ramacharlu, Papparti (Praja), (*Dharmavaram*) ; Ramaiah, Kolla (Cong.), (*Paruchuru*) ; Ramaiah, Kunda (Cong.), (*Jammalamadugu*) ; Ramakotaiah, Chagarlamudy (Cong.), (*Kankipadu*) ; Rama Reddy, Bommu (Ind.), (*Mydukur*) ; Ramakrishna Raju, R. B. (A.N.P.), (*Vadamalpet*) ; Ramakrishna Reddi, Bathena (Praja), (*Kavali*) ; Ramalinga Reddi, H. (Cong.), (*Alur*) ; Ramaswamy Naidu, Peddinti (Cong.), (*Baliipeta*) ; Ramaswami Reddi, Ganapa (Cong.), (*Pedakurapadu*) ; Ramayya, Maganti (Cong.), (*Kanchikacherla*) ; Rami Reddi, Gopavaram (A.N.P.) (*Nandyal*) ; Ramulu, Nicharia (Cong.), (*Brahmanatarla*) ; Ramunaidu, Gujjala (S), (*Srungavarapukota, Reserved*) ; Rangababu, Uppada (Cong.), (*Ichapuram*) ; Ranganatha Mudaliar, S. (A.N.P.), (*Ramakrishnarajupeta*) ; Ranga Reddi, Pidathala (Cong.), (*Giddalur*) ; Rangayya, Mulpuru (Cong.), (*Denduluru*) ; Rathnam, A. (Cong.), (*Punganur, Reserved*) ; Ratnasabhapathy, Bandaru (S), (*Badvel*) ; Rukmini Devi, B. (Cong.), (*Hindupur, Reserved*) ; Sambhu Reddi, Narreddi (Cong.), (*Kamalapuram*) ; Sanjiva Reddi, N. (Cong.), (*Kalahasti*) ; Sanjivayya, D. (Cong.), (*Yemmiganur, Reserved*) ; Sankaraiah, Basavareddi (Com.), (*Buchireddipalem*) ; Santhappa, K. (Cong.), (*Dharmavaram (R)*) ; Satyanarayana, Putsala (Com.), (*Samalkot*) ; Satyanarayana, Chowdary (Cong.), (*Shermuhammadapuram*) ; Satyanarayanamurty, Addepalli (Cong.), (*Palacole*) ; Satyanarayana Raju, Mudundi (S), (*Cheepuripalli*) ; Seetharamaswamy, Kotagiri (Cong.) (*Bobbili*) ; Seshadri (Cong.), (*Rayadurg*) ; Sesha Reddy, B. P. (A.N.P.), (*Dhone*) ; Sheik Moula Saheb (Cong.), (*Udayagiri*) ; Singaraiah, Patra (Cong.), (*Kalahasti, Reserved*) ; Sivarama Prasad Bahadur Garu Srimanth Raja, Yarlagadda (Cong.), (*Divi*) ; Sreeramamurty, Donda (S), (*Madugula*) ; B. Srirammurthy (Soc.), (*Vizianagaram*) ; Sreeramulu, Putumbaka, (Cong.), (*Duggirala*) ; Srinivasa Rao, Namburi (Cong.), (*Tadepalligudem, Reserved*) ; Sriranganaikulu, Chelikani (Cong.), (*Vanukuru*) ; Subba Rao, Battina (Cong.), (*Burugupudi, Reserved*) ; Subba Reddi, A. C. (Cong.), (*Nellore*) ; Subba Rao, Kallur (Cong.), (*Hindupur*) ; Subbarayudu, Challa (Cong.), (*Tadpatri*) ; Subba Reddi, B. V. (A.N.P.), (*Koilkuntla*) ; Sundarayya, Puchalapalli (Com.), (*Gunnavaram*) ; Suryanarayana, Pasagada (A.N.P.), (*Srikakulam*) ; Suryanarayana, Gantlana (S), (*Gajapathinagaram, Reserved*) ; Suryanarayana Raju, Raja Sagi (Cong.), (*Narasapatnam*) ; Thimma Reddy, P. (Cong.), (*Payalpad*) ; Thimma Reddy, C. P. (Cong.), (*Sirvel*) ; Thimmaiah Setty, T. G. (Cong.), (*Kosigi*) ; Tirupathi Rao, Remella (Cong.), (*Pullipalem*) ; Smt. Vani Ramana Rao (Cong.), (*Bhadrachallam, Reserved*) ; Veeraraghavulu, Taneti (Cong.), (*Kovvur, Reserved*) ; Vema Reddy, K.V. (Cong.), (*Kadiri*) ; Vemayya, Swarna (Com.), (*Buchireddipalem, Reserved*) ; Venkaiah, Nagineni (Cong.), (*Addanki*) ; Venkataiah, Nakka (Cong.), (*Yerragondapalem*) ; Venkataramanayya, Kollipara (Cong.), (*Bandar*) ; Venkata Ramanareddy, Dirisala (Cong.), (*Darsi*) ; Venkata Rao, Kala (Cong.), (*Kakinada*) ; Venkataraju, Mantena (Cong.), (*Bapatla*) ; Venkataratnam, Srimati N. (Cong.), (*Burugupudi*) ; Venkataravanappa, Poola (Cong.), (*Gurantla*) ; Venkata Reddi, Grandhi (Cong.), (*Narasapur*) ; Venkata Reddi, Kasim (A.N.P.) (*Nandipad*) ; Venkatarama Raju, Alluru (Com.), (*Razole*) ; Venkataratnam, Kakani (Cong.), (*Vuyyuru*) ; Venkata Sivayya, Bandlamudi (Cong.), (*Martur*) ; Venkata Somayajulu, Chaganti (S), (*Srungavarapukota*) ; Venkata Subba Rao, Durvasula (Com.), (*Peddapuram*) ; Venkata Subba Reddi, T. N. (Cong.), (*Thamballapalle*) ; Venkata Subbayya, Pala (Cong.), (*Rajampet, Reserved*) ; Venkata Subramanyam, Adusumilli (Ind.), (*Gudivada*) ; Venkatasuryanarayana Raju, Chintalapati *alias* Sanyasi Raju (A.N.P.), (*Yellamanchili*) ; Venkataswami Reddi, Padileti (Cong.), (*Venkatagiri*) ; Venkateswarlu, Pillalamarri (Com.), (*Nandigama*) ; Venkatramaiah, Nachu (Cong.), (*Bhimavaram*) ; Venkatrama Naidu, N. (Cong.), (*Piler*) ; Venkatramayya, N. (Cong.), (*Narasaraopet*) ; Venkatramayya, Alapati (Cong.), (*Tenali*) ; Vijaya Bhaskara Reddy (Cong.), (*Yemmiganur*) ; Viswesvara Rao, Vellanki (Com.), (*Mylavaram*) ; Yallamanda Reddy, G. (Com.), (*Kanigiri*) ; Yeruku Naidu, Allu (S), (*Salur*).

TELANGANA MEMBERS

In the general elections only the Telangana area went to the polls to elect 105 members to the Andhra Assembly.

An estimate of party position is given below :

Congress 69 ; Praja Socialist Party 1 ; People's Democratic Front 22 ; Praja Party 1 ; Scheduled Castes Federation 1 ; Independents 13.

Ranganatha Rao (P.D.F.), (*Adilabad*) ; Smt. Arutla Kamala Devi (P.D.F.), (*Alair*); Smt. Jayalakshmidevamma* (Cong.), (*Alampur*); Paswa Kaniah (Ind.), (*Andole*) ; T. Anjaiah (Cong.), (*Armoor*) ; V. Basavaraju (Cong.), (*Asifnagar*) ; G. Narayan Reddy (Cong.), (*Asifabad*) ; Kashi Ram (ST), (Cong.), (*Asifabad (R)*) ; Muridhar Reddy (Cong.), (*Atmakur*) ; Ranga Reddy (Cong.), (*Balkonda*) ; Smt. Seetla Kumari (Cong.), (*Banswada*); J. V. Narsinga Rao (Cong.), (*Begum Bazar*) ; Smt. P. Vani Ramana Rao (SC) (Cong.), (*Bhadrachalam*) ; Ravi Narayana Reddy (P.D.F.), (*Bhongir*) ; Srinivasa Rao (Ind.), (*Bodhan*) ; Baddam Yella Reddy (Comm.), (*Buggaram*) ; S. V. K. Prasad Rao (P.D.F.), (*Channur*) ; M. S. Rajalingam (Cong.), (*Chilamcherla*) ; K. Lakshman Bapuji (Cong.), (*Chinnakondur*) ; Ch. Rajeshwara Rao (P.D.F.), (*Choppadandi*) ; G. Narayana Reddy (Cong.), (*Devarkonda*) ; M. Lakshmiah (SC) (Cong.), (*Devarkonda(R)*) ; T. Hyagrivachary (Cong.), (*Dharmasagar*) ; Anantha Reddi (P.D.F.), (*Dommat*) ; N. Ramachandra Reddy (Cong.), (*Dornakal*) ; D. K. Satya Reddy (Ind.), (*Gadwal*) ; R. Narasimha Reddy (Cong.), (*Gazuel*) ; J. B. Muthyal Rao (SC) (Cong.), (*Gazuel (R)*) ; B. Keshava Reddy (Cong.), (*Ghanpur*) ; Gopal Rao Ekbote (Cong.), (*High Court*) ; P. Narsing Rao (Ind.), (*Huzurabad*) ; G. Ramulu (SC) (Ind.), (*Huzurabad (R)*) ; Dodda Narasimh (P.D.F.), (*Huzurnagar*) ; Dr. Lakshminarasiah (Cong.), (*Ibrahimpatnam*) , P. Chokka Rao (P.D.F.),(*Indurthi*) ; D Hanmanth Rao (Cong.), (*Jagtial*) ; G. Gopal Reddy (P.D.F.), (*Jangaon*) ; G. Ramlingam (SC) (Cong.), (*Jangaon (R)*) ; Nawab Mehdi Nawaz Jung (Cong.), (*Jubilee Hills*) Smt. Sumitra Devi (SC) (Cong.), (*Jubilee Hills (R)*) ; Madhav Rao (Ind.), (*Jukal*) ; Smt. Shanta Bai (Cong.), (*Kalwakurthi*) ; Dr. Narsanah (SC) (Cong.), (*Kalwakurthi (R)*) ; Venkatarama Reddy (Cong.), (*Kamareddy*) ; Smt. Padmalaxmi (SC) (Cong.), (*Kamareddy (R)*) ; J. Chokka Rao (Cong.), (*Karimnagar*) ; Smt. T. Lakshmikanthamma (Cong.), (*Khammam*) ; N. Peddanah (SC) (P.D.F.), (*Khammam (R)*) ; Achuta Reddy (Cong.), (*Kodangal*) ; M. Narsing Rao (Cong.), (*Kollapur*) ; G. V. Pitambar Rao (Cong.), (*Luxettipeth*) ; B. Satyanarayana Rao (Cong.), (*Madhira*) ; Chinnappa (P.P.), (*Mahbubnagar*) ; Bannappa (Ind.), (*Makhtal*) ; E. Basappa (SC) (Cong.) (*Makhtal (R)*) ; G. Lakshma Reddi (P.D.F.), (*Maidaram*) ; Mir Ahmed Ali Khan (Cong.), (*Malakpet*) ; P. V. Narasimha Rao (Cong.), (*Manthani*) ; Venkateswar Rao (Cong.), (*Medak*) ; J. Anand Rao (P.D.F.), (*Metpalli*) ; C. Venkatta Reddy (P.D.F.), (*Miryalguda*) ; Gopidi Ganga Reddy (Ind.), (*Mudhole*) ; S. Rajeswara Rao (P.D.F.), (*Mulug*) ; K. Seethiah Gupta (Cong.), (*Musheerabad*) ; Janardhan Reddy (Cong.), (*Nagarkurnool*) ; P. Mahendranath (SC) (Cong.), (*Nagarkurnool (R)*) ; Dharma Bhiksham (P.D.F.), (*Nakrakal*) ; L. Venkat Reddy (P.D.F.), (*Nalgonda*) ; Apta Rao Shetkar (Cong.), (*Narayankhed*) ; Smt. K. K. Ratnamma (Cong.), (*Narsampet*) ; G. Veeriah (Cong.), (*Narsapur*) ; K. Muthiam Reddy (Ind.), (*Nirmal*) ; Dawar-Hussain Mohammed (Cong.), (*Nizamabad*) ; K. Sudarsana Rao (Cong.), (*Palvancha*) ; J. Mohan Reddy (Ind.), (*Parigi*) ; K. [illegible] Reddy (Cong.), (*Parkal*) ; Manda Saila (Cong.), (*Parkal (R)*) ; Smt. Masooma B. (Cong.), (*Pathergatti*) ; Ramireddi [illegible] Obula Reddy (Ind.), (*Proddatur*) ; K. [illegible] chandra Reddy (P.D.F.), (*Ramannapet*) ; [illegible] tamachari (Ind.), (*Sangareddy*) ; Antha[illegible] (S.C.F.), (*Sangareddy (R)*) ; B. V. Gurumu[illegible] (Cong.), (*Secunderabad Cantonment*) ; K. [illegible] narayana (Cong.), (*Secunderabad City*) Shahjehan Begum (Cong.), (*Shadnagar*) ; K. Ranga Reddy (Cong.), (*Shahabad*) ; V. [illegible] Rao (SC) (Cong.), (*Shahabad (R)*) ; P. V. [illegible] wara Rao (Cong.), (*Siddipet*) ; K. Raja[illegible] (SC) (P.S.P.), (*Sirpur*) ; Venkateswamy [illegible] (Cong.), (*Sirpur (R)*) ; Amrit'al Shukla (P.D. (*Sirsilla*) ; K. Narsiah (SC) (P.D.F.), (*Sirsilla (R)*) ; P. Ramachandra Rao (Cong.), (*Sulthanabad*) ; B. Raja Ram (SC) (Cong.), (*Sulthanabad (R)*) ; Vasudev Krishnaji Naik (Cong.), (*Sultan Bazar*) ; Bheemareddy Narsimha Reddy (P.D.F.), (*Suryapet*) ; Upjala Malsoor (SC) (P.D.F.), (*Suryapet (R)*) ; J. Kundal Rao (Cong.), (*[illegible]*) Dr. M. Chenna Reddy (Cong.), (*[illegible]*) Arigay Ramaswamy (SC) (Cong.), (*[illegible] (R)*) ; Padmanabha Reddy (Cong.), (*Wana[illegible]*) Mirza Shukour Baig (Cong.), (*Waranal*) Venkatramanarsiah (Cong.), (*Wardhannapet*) Shahabuddin Ahmed Khan (Cong.), (*[illegible] pura*) ; K. Lakshminarasimha Rao (P.D.F.), (*Yellandu*) ; Dodda Nara ayya (ST) (Cong.), (*Yellandu (R)*) ; M. Baga Reddy (Cong.), (*Zaheerabad*).

J. T. Fernandez (nominated Anglo-Indian), (*Hyderabad*).

S=Socialist ; U.C.L. (Congress and Praja) = United Congress Legislature Party ; P.S.P. = Praja Socialist Party ; A.N.P. = Andhra National Party ; Ind. = Independent Party ; P.D.F. = People's Democratic Front ; P.P. = Praja Party.

* Election held invalid.

ASSAM LEGISLATIVE ASSEMBLY

Constituencies : 94 (S.M. 80 ; D.M. 14) ; Seats : 108 (S.C. 5 ; S.T. 26) ; Electorate : 44, 95, 359 (Revised).

Speaker, Devkanta Barooah.*
Deputy Speaker, Rajendranath Barua

An estimate of party position is given below : Congress 73 ; Praja Socialist Progressive Bloc 3 ; Communist Party of India 4 ; Independents 12 ; Tribal Union Parliamentary Party 9.

Lalmawia (ST), (T.U.P. Party), (*Aijal East (R)*) ; Thangjura (ST), (Cong.), (*Aijal West (R)*) ; Khagendra Nath Barbarua (S.C.P.I.), (*Amguri*) ; Emerson Momin (T.U.P. Party), (*Baghmara*) ; Bimala Prasad Chaliha (Cong.), (*Badarpur*) ; Biswadev Sarma (Cong.), (*Balipara*) ; Mahi Kanta Das (Cong.), (*Barchalla*) ; Srihari Das (SC), (P.S.P. Bloc), (*Barpeta*) ; Mahadev Das (SC), (Cong.), (*Barpeta (R)*) ; Jahanuddin Ahmed (P.S.P. Bloc), (*Bilasipara*) ; Kamakhya Prasad Tripathi (Cong.), (*Biswanath*); Indreswar Khound (Cong.), (*Bogdung*) ; Radha Charan Chaudhury (Cong.), (*Boko*) ; J. J. M. Nichols Roy (ST), (T.U.P. Party), (*Cherrapunji (R)*) ; Nalindra Sangma (Ind.), (*Dainadubi*) ; Md. Matiabuddin (P.S.P. Bloc), (*Dalgaon*) ; Narendranath Sarma (Cong.), (*Dargaon*) ; Ram Nath Das (SC), (Cong.), (*Dargaon (R)*) ; Omeo Kumar Das (Cong.), (*Dharialudi*) ; Nurul Islam (Cong.), (*Dhing*) ; Tamijuddin Pradhani (Cong.), (*Dhubri*) ; Nilmoni Borthakur (C.P.I.), (*Dibrugarh*) ; Dwijesh Chandra Debsarma (Cong.), (*Digboi*) ; Malla Tati (Cong.), (*Doom-Dooma*) ; Gaurikankar Bhattacharyya (C.P.I.), (*Gauhati*) ; Prakritish Chandra Barua (P.S.P. Bloc), (*Gauripur*) ; (vacant), (*Goalpara*) ; (vacant), (*Goalpara (R)*) ; Bishnulal Upadhyaya (Cong.), (*Golaghat*) ; Rajendranath Barua (Cong.), (*Golaghat*) ; Bhuban Chandra Pradhani (Cong.), (*Golakganj*) ; Mathias Tudu (P.S.P. Bloc), (*Goossigaon*) ; Abdul Matlib Majumdar (Cong.), (*Hailakandi*) ; Mahendra Mohan Choudhury (Cong.), (*Hajo*) ; Maulvi Rahimuddin Ahmed (Cong.), (*Jamunamukh*) ; Fakhruddin Ali Ahmed (Cong.), (*Jania*) ; Debeswar Sarma (Cong.), (*Jorhat*) ; Mohidhar Pegoo (ST), (Cong.), (*Jorhat (R)*) ; Larsingh Khyriem (ST), (T.U.P. Party), (*Jowai (R)*) ; Jugo Kanta Barua (Cong.), (*Jaipur*) ; Lila Kanta Borah (Cong.), (*Kaliabar*) ; Sarat Chandra Goswami (Cong.), (*Kamalpur*) ; Rameudra Mohon Das (Cong.), (*Karimganj North*) ; Abdul Hamid Choudhury (Cong.), (*Karimganj South*) ; Hem Chandra Chakravarty (Cong.), (*Katigora*) ; Gouri Shankar Roy (Cong.), (*Katlicherra*) ; Shrimati Kamal Kumari Barua (Cong.), (*Kaliangaon*) ; Rupnath Brahma (ST), (Cong.), (*Kokrajhar (R)*) ; Swami Krishnananda Brahmachari (Cong.), (*Kokrajhar*) ; Motiram Bora (Cong.), (*Laharighat*) ; Dhirsingh Deuri (ST) (Cong.), (*Laharighat (R)*) ; Shrimati Lily Sengupta (Cong.), (Lahowal) ; Ram Prashad Choubey (Cong.), (*Lakhipur*) ; Ram Nath Sarma (Cong.), (*Lumding*) ; C. Thuamluaia (ST), (T.U.P. Party), (*Lungleh (R)*) ; Dandi Ram Dutta (Cong.), (*Mangaldoi*) ; Kobad Hussain Ahmed (Cong.), (*Manhachar*) ; Dandeshwar Hazarika (Cong.), (*Marangi*) ; Sai Sai Terang (ST), (Cong.), (*Mikir Hills East (R)*) ; Chatrasing Terom (ST), (Cong.), (*Mikir Hills West (R)*) ; Shrimati Padma Kumari Gohain (Cong.), (*Moran*) ; Lalit Kumar Daley (ST), (Cong.), (*Moran (R)*) ; Prabhat Narayan Chaudhury (Ind.), (*Nalbari East*) ; Tarun Sen Deka (C.P.I.), (*Nalbari West*) ; Tankeswar Chetia (Cong.), (*Nazira*) ; J. Biem (Ind.), (*Nongpoh (R)*) ; Henry Cotton (ST), (T.U.P. Party), (*Nongstoin (R)*) ; Hamidhan Mohmh (ST), (Cong.), (*North Cachar Hills (R)*) ; Mohendra Bora (Cong.), (*North Lakhimpur*) ; Karka Chandra Doley (ST), (Cong.), (*North Lakhimpur (R)*) ; Hareswar Das (Cong.), (*North Salmara*) ; Dr. Ghanshyam Das (SC), (Cong.), (*North Salmara (R)*) ; Dev Kanta Barooah (Cong.), (*Nowgong*)* , Mahendra Nath Hazarika (SC), (Cong.), (*Nowgong (R)*) ; Ram Das (Cong.), (*Palasbari*) ; Hiralal Patowary (P.S.P.), (*Panery*) ; Pakhiral Deka (S[illegible]) (*Panery (R)*) ; Rishwanath Upadhyaya (C[illegible]) (*Patharkandi*) ; Gopesh Chandra Nath (C.P.I.), (*Patharkandi (R)*) ; Surendra Na[illegible] (ST), (Cong.), (*Patachar-Kuchi*) ; Lalung Kumar Das (ST), (P.S.P.), (*Patachar Kuchi*) ; Williamson A. Sangma (T.U.P. Party), (*Tura*) ; Hareswar Goswami (P.S.P.), (*[illegible]*) Baikuntha Nath Das (ST), (Cong.), (*[illegible]*) Siddhi Nath Sarma (Cong.), (*Rangiya*) ; Mohammed Idris (Cong.), (*Rupohihat*) ; Nath Hazarika (Cong.), (*Sarkhowa*) ; Usha Barthakur (Cong.), (*Namagaon*) ; Mu[illegible] Haque Chowdhury (Cong.), (*Silchar East*) ; Mohon Roy (T.U.P. Party), (*Shillong*) ; Jyotsna Chanda (Cong.), (*Silchar West*) ; Nan[illegible] Kishore Sinha (Cong.), (*Sonai*) ; Gautam Bora Gogoi (Cong.), (*Sibsagar*) ; Purnananda Gogoi (Cong.), (*Sonari*) ; Ghanashyam Talukdar (Ind.), (*Sorbhog*) ; Sahadat Ali (P.S.P.), (*Sorbhog*) ; Tajuddin Ahmed (P.S.P.), (*Tamarwa*) ; Manik Chandra Das (Cong.), (*Teok*) ; Hariharayan Barua (Cong.), (*Teok*) ; Kam Prasad Agarwalla (Cong.), (*Tezpur*) ; Dipsw[illegible] Saikia (Cong.), (*Thowra*) ; Radha Krishna Sa[illegible] (Cong.), (*Titabar*) ; Sarbeswar Bordoloi (Cong.), (*Titabar*) ; Mody K. Marak (T.U.P. Party), (*Tura*) ; Tasamulali Barlaskar (Cong.), (*Tura*).

Cong. = Congress ; C.P.I. = Communist Party of India ; Ind. = Independents.

P.S.P. Bloc = Praja Socialist Progressive Bloc.

T.U.P. Party = Tribal Union Parliamentary Party.

* Election held void.

BIHAR LEGISLATIVE COUNCIL

Seats : 96.

Chairman : Vacant. *Dy. Chairman :* Rai Brijraj Krishna. *Secretary :* Chand Lall.

Assembly Constituency.

Baburam Hemram ; Saiyid Abul Hayat Chand; Basanta Chandra Ghose ; Kumar Ganganand Singh ; Gauri Shankar Dalmia; Shrimati Ramjyari Devi ; Habibul Haque , Barlar Hembrom ; Jafar Imam ; Jitu Lal ; Shrimati Ahmadi Sattar; Narullah ; Radha Govind Prasad ; Shah Muhammad Ozair Muneml ; Shrimati Abhirama Devi ; Kusheshwar Sinha ; Raghubans Prasad Singh ; Ram Shekhar Sinha ; Shree Krishna Singh ; Kamta Prasad Sinha ; Shyama Prasad Sinha ; Sita Ram Jagatramka ; Brajendra Narain Yadav ; Sitaram Yadav ; Ramraj Jajware ; Jeel Lakra ; Pasupati Singh 'Prabal' ; Syed Fazlur Rahman ; Girja Nandan Singh , Chandreshwar Narain Prasad Sinha , Mukteshwar Sinha ; Yogendra Sukla , Budhan Rai Verma.

Patna Local Division Authorities.

Mahadeonand Gir ; Ram Bilas Sharma , Ritlal Prasad Verma ; Vishnu Shankar , Mathura Prasad Singh ; Smt. Parvati Devi , Syed Nazir Haidar.

Patna Division Teachers.

Jagdish Sharma ; Kailash Sinha.

Patna Division Graduates.

Krishna Bahadur ; Singheshwari Prasad , Ranendra Nath Roy.

Tirhut Division Local Authorities.

Brajendra Bahadur ; Kumar Kalyan Lal ; Lakshmi Kant Jha ; Braj Bihari Prasad ; Hari Shankar Prasad , Smt. Kishori Devi , Kapildeo Narain Singh , Janki Nandan Singh.

Tirhut Division Teachers.

Bindu Charan Verma.

Tirhut Division Graduates.

Sewalla Bihari Lal Verma ; Lakshmi Nath Jha.

Bhagalpur Division Local Authorities.

Beer Narain Chand ; Jageshwar Mandal ; Sagar Mohan Pathak ; Jamuna Prasad Singh ; Mayanand Thakur ; Qudratullah ; Bidyakar Kavi ; Bhola Mandal ; Radha Krishna Prasad Singh , Ram Lakhan Pandey ; Ram Prakash Lal.

Bhagalpur Division Teachers.

Bindhyeshwar Prasad Mishra ; Goloke Bihari Chowdhury ; Tapaswi Nath Jha.

Bhagalpur Division Graduates.

Ravaneshwar Mishra ; Harendra Prasad Jha.

Chota-Nagpur Division Teachers.

Mahendra Prasad ; Sasanka Sekhar Ghosh.

Chota-Nagpur Division Graduates.

Anil Kumar Sen.

Chota-Nagpur Division Local Authorities.

Abdur Razzaque Ansari ; Braj Mohan Agarwalla ; Subodh Kumar Sen ; Hari Krishna Lal ; Devkinandan Prasad ; Raghunandan Singh Choudhary ; Samu Charan Tubid.

Nominated.

Mohan Lal Mahto 'Viyogi' ; Jagannath Prasad Mishra ; Dr. Tridib Nath Banarji ; Lady Anis Imam ; Dr. B. R. Misra ; Brajnandan Prasad ; Fateh Narain Singh ; Rameshwar Prasad Singh ; Rai Brijraj Krishna ; Harendra Bahadur Chandra ; Smt. Savitri Devi ; Jaideva Prasad.

BIHAR LEGISLATIVE ASSEMBLY

Electorate : 1,94,90,298 , Constituencies 264 (S.M. 210 , D.M. 54) , Seats 318 (S.C. 40 ; S.T. 32).

Speaker, V. P. Varma.

Deputy Speaker, Prabhunath Singh

An estimate of party position is given below :

Congress 205 ; Praja Socialist Party 36 , Communist Party of India 8 , Jharkhand Party 25 ; Chota Nagpur Santhal Parganas Janata Party (CNSJP) 18 ; Independents 10 , Socialist Party 1 , Gantantra Parishad 1 ; Vacant 6

Braj Nandan Sharma (Ind.), (*Adapur*); Yadunandan Jha (Cong.), (*Alamnagar*); Sital Prasad Bhagat (Cong.), (*Amarpur*); Md. Ismail (Ind.), (*Amaur*); Ziaur Rahman (Cong.), (*Araria*); Rang Bahadur Prasad (Cong.), (*Arrah*), Ambika Singh (Cong.), (*Arrah Mufassil*), Budhan Mehta (Cong.), (*Arwal*); Nandkishore Prasad Singh (CNSJP), (*Asthawan*); Shivaratan Singh (Cong.), (*Atri*); Priyabrat Narayan Sinha (Cong.), (*Aurangabad*); Baidyanath Prasad Singh (PSP), (*Bachhwara*); Kedar Pandey (Cong.), (*Bagaha*); Narsingh Baitha (SC) (Cong.), (*Bagaha (R)*); Kailashpati Singh (CNSJP), (*Bagodar*); Lakhan Lal Kapoor (PSP), (*Bahadurganj*); Maheshkant Sharma (Cong.), (*Bahera East*); Smt. Krishna Devi (Cong.), (*Bahera South*); Harinath Mishra (Cong.), (*Bahera West*); Trivikram Deo Narayan Singh (Ind.), (*Barkunthpur*); Abul Ahad Mohammad Noor (Cong.), (*Baisi*); Brahamdeo Narayan Singh (Cong.), (*Balia*); Mohammad Salahuddin Choudhry (Cong.), (*Bakhtiarpur*); Smt. Uma Pandey (Cong.), (*Baniapur*); Smt. Bindhyabasini Devi (Cong.), (*Banka*); Abdul Ghafoor (Cong.), (*Barauli*); Ram Yatan Singh (Cong.), (*Barh*); Lalan Prasad Sinha (Cong.), (*Barhampur*); Qamrul Haque (Cong.), (*Barharia*); Rameshwar Prasad Mahtha (CNSJP), (*Barhi*); Shreedhar Narain (PSP), (*Barachatti*); Basudeo Pd. Sinha (Cong.), (*Barari*); Babulal Tudu (ST) (Jharkhand), (*Barhait (R)*); Harihar Mahto (Cong.), (*Bariarpur*); Smt. Sashank Manjari (CNSJP), (*Barkagaon*); Ramchandra Prasad Sahi (Cong.), (*Barauraj*); Sabhapati Sinha (PSP), (*Basantpur East*); Krishna Kant Singh (Cong.), (*Basantpur West*); Saryu Prasad Sinha (Cong.), (*Begusarai*); Medni Paswan (SC) (Cong.), (*Begusarai (R)*); Ramanad Singh (PSP), (*Belsand*); Shubhchandra Mishra (Cong.), (*Benipatti East*); Chhote Prasad Singh (Cong.), (*Benipatti West*); Brajeshwar Prasad Singh (CNSJP), (*Bermo*); Jaynarain Prasad (Cong.), (*Bettiah*); Jagannath Prasad Swatantra (SC) (Cong.), (*Bettiah (R)*); Ali Waris Khan (Cong.), (*Bhabua*); Dularchand Ram (SC) (Cong.), (*Bhabua (R)*); Satyendra Narayan Agrawal (Cong.), (*Bhagalpur*); Jadunandan Tewari (Cong.), (*Bhawanathpur*), Ramdhani Chamar (SC) (Cong.), (*Bhawanathpur (R)*); Rambali Pandey (PSP.), (*Bhore*), Chandrika Ram (SC) (Cong.), (*Bhore (R)*), Prabhu Narayan Roy (CPI), (*Bihpur*); S. M. Aquil (Cong.), (*Bihar North*); Girwardhari Singh (Cong.), (*Bihar South*); Smt. Manorma Devi (Cong.), (*Bikram*), Smt. Manorma Pandey (Cong.), (*Bikramganj*); Jamaram Jha Vineet (Cong.), (*Biraul*), Smt. Santi Devi (Cong.), (*Bodh Gaya*), Jetha Kishku (ST) (Jharkhand), (*Borio (R)*), Kapildeo Singh (PSP), (*Burhee*); Shivkumar Thakur (Cong.), (*Buxar*); Sukhdeo Manjhi (ST) (Jharkhand), (*Chaibasa (R)*); Phabanus Oraon (ST) (Jharkhand), (*Chainpur (R)*); Shyamal Kumar Pasari (Jharkhand), (*Chakradharpur*); Hari Charan Soy (ST) (Jharkhand) (*Chakradharpur (R)*); Deogan Prasad singh (Cong.), (*Chanda*); Dhananjey Mahato (Cong.), (*Chandil*); Jatindra Nath Rajak (SC) (Ind.) (*Chandil (R)*); Smt. Ketaki Devi (Cong.), (*Champatia*); Jaglal Chaudhary (SC) (Cong.), (*Chapra (R)*); Prabhunath Sinha (Cong.), (*Chapra*); Hardayal Sharma (Cong.), (*Chas*); Shaligram Singh (CNSJP), (*Chatra*); Nand Kishore Singh (CNSJP), (*Chauparan*); Ghanshyam Singh (Cong.), (*Chautham*); Syed Maqbool Ahmed (Cong.), (*Colgong*); Bhola Nath Das (SC) (Cong.), (*Colgong (R)*); Misri Singh (Cong.), (*Dalsingh Sarai*); Baleshwar Ram (SC) (Cong.), (*Dalsingh Sarai (R)*); Umeshwari Charan (PSP), (*Daltonganj*); Rajendra Prasad Singh (CNSJP), (*Darauli*); Ram Basawan Ram (SC) (Cong.), (*Darauli (R)*); Sayeedul Sekh Haque (Cong.), (*Darbhanga Central*); Hirdyanarain Choudhary (Cong.), (*Darbhanga North*); Babuye Lal Mahto (SC) (Cong.), (*Darbhanga South (R)*); Janki Raman Prasad Mishra (Cong.), (*Darbhanga South*); Sayeed Ahmad Quadri (Cong.), (*Daudnagar*); Krishnaraj Sinha (Cong.), (*Dawath*); Basawon Sinha (PSP), (*Dehri*); Smt. Shailbala Roy (Cong.), (*Deoghar*); Mangu Lal Das (SC) (Cong.), (*Deoghar (R)*); Masoodur Rahman (Cong.), (*Dhaka*); Jogendra Pradad (Ind.), (*Dhanaha*); Purusottam Chauhan (Cong.), (*Dhanbad*); Laxmi Narain Sudhansu (Cong.), (*Dhamdaha*); Bhola Shashtri Paswan (SC) (Cong.), (*Dhamdaha (R)*); Molvi Saminuddin (Cong.), (*Dhuraiya*); Jagat Narain Lall (Cong.), (*Dinapur*); Ram Ashish Singh (PSP), (*Dinara*); Sanath Rout (Jharkhand), (*Dumka*); Binjamin Hansda (ST) (Jharkhand), (*Dumka (R)*); Ganga Prasad Singh (Cong.), (*Dumraon*); Shiv Mahadev Prasad (PSP), (*Fatwa*); Keshav Prasad (SC) (CNSJP), (*Fatwa (R)*); Sital Prasad Gupta (Cong.), (*Forbesganj*); Dumar Lal Baitha (SC) (Cong.), (*Forbesganj (R)*); Smt. Rajeshwari Saroj Dass (Cong.), (*Garhwa*); Ramjaipal Singh Yadav (PSP), (*Garkha*); Nageshwar Rai (CNSJP), (*Gawan*), Gopal Rabidas (SC) (CNSJP) (*Gawan (R)*); Sardar Mohammad Latifur Rahman (Cong.), (*Gaya*); Hardeo Singh (Cong.), (*Gaya Muffasil*); Shishir Kumar Mahato (Jharkhand), (*Ghatsila*); Shyam Charan Murmu (ST) (Jharkhand), (*Ghatsila (R)*); Mangal Prasad Yadav (Cong.), (*Ghorasahand*); Kamakhya Narain Singh (CNSJP), (*Giridih*); Hemlal Pragnait (ST) (CNSJP), (*Giridih (R)*); Dhrub Narain Mani Tripathi (Cong.), (*Gobindganj*); Manilal Yadav (Jharkhand), (*Godda*); Chunka Hembrom (ST) (Jharkhand), (*Godda (R)*); Kamla Rai (Cong.), (*Gopalganj*); Mani Ram Singh (CPI), (*Gopalpur*); Sukra (Bhagat) Oraon (ST) (Jharkhand), (*Gumla (R)*); Dip Narain Sinha (Cong.), (*Hajipur*); Smt. Prabati Debi (Cong.), (*Harsidhi*); Basant Narain Singh (CNSJP), (*Hazaribagh*); Laisingh Tyagi (Cong.), (*Hilsa*); Smt. Rajkumari Devi (Cong.), (*Hisua*); Ambika Prasad Singh (Ind.), (*Imamganj*); Mahabir Chaudhri (SC) (Cong.), (*Jahanabad (R)*); Fida Hussain (Cong.), (*Jahanabad*); Ramkrishna Mahto (SC) (Cong.), (*Jainagar (R)*); Deonarain Yadav (Cong.), (*Jainagar*); Selkh Tahir Hussain (Cong.), (*Jale*); Jogendra Mahto (Cong.), (*Jamalpur*); Kedar Das (CPI), (*Jamshedpur*); Satrughna Beara (Jharkhand), (*Jamtara*); Indra Narain Singh (CNSJP), (*Jamua*); Bhola Manjhi (SC) (CPI), (*Jamui (R)*); Hari Prasad Sharma (Cong.), (*Jamui*); Bhagwat Murmu (ST) (Cong.),* (*Jhaja (R)*); Chandreshekher Singh (Cong.),* (*Jhaja*); Deochandra Jha (Cong.), (*Jhanjharpur*); V. G. Gopal (Cong.), (*Jugsalai*); Mohiuddin Mokhtar (Cong.), (*Kadwa*); Yamuna Prasad Tripathy (Cong.), (*Kanti*); Babulal Manjhi (ST) (Cong.), (*Katihar (R)*); Sukhdeo Narain Singh (Cong.), (*Katihar*); Piroo Manjhi (ST) (Cong.), (*Katoria (R)*); Raghvendra Narain Singh (Cong.), (*Katoria*); Rambriksh Benipuri (PSP), (*Katra North*); Nitishwar Prasad Sinha (Cong.), (*Katra South*); Smt. Prabhawati Gupta (Cong.), (*Kesaria*); Kedarnarayan Singh Azad (Cong.), (*Khagaria*); Sada Mishri (SC) (Cong.), (*Khagaria (R)*); Sakoor Ahmad (Cong.), (*Khajauli*); Narendra Prasad Singh (Cong.), (*Kharagpur*); Bir Singh Munda (ST) (Jharkhand), (*Kunti (R)*); Abdul Halyat (Cong.), (*Kishanganj*); Baidya Nath Mehta (Cong.), (*Kishanpur*); Ganauri Prasad Singh (Cong.), (*Koch*); Dr. G. P. Tripathy (CNSJP), (*Kodarma*); Sushil Bage (ST) (Jharkhand), (*Kolebira (R)*); Vachaspati Sharma (Cong.), (*Kuchaikot*); Kameshwar Sharma (Cong.), (*Kurhia*); Lalliteshwar Prasad

* Void.

Sahi (Cong.), (*Lalganj North*); Birchandra Patel (Cong.), (*Lalganj South*); Lal Jagdhatri Nath Sah Deo (CNSJP), (*Latehar*); John Munjni (ST) (CNSJP), (*Latehar (R)*); Smt. Ramduiari Shashtri (Cong.), (*Laukaha*); Subh Narain Prasad (Cong.), (*Lauria*); Ram Krishna Ram (SC) (CNSJP), (*Lesliegunj (R)*); Rajkishore Singh (Cong.), (*Lesliegunj*); Ramcharan Kisku (ST) (Jharkhand), (*Littipara (R)*); Prittam Kujur (ST) (Jharkhand), (*Lohardaga (R)*); Radhanandan Jha (Cong.), (*Madhaipur*); Bhupendra Narayan Mandal (Ind.), (*Madhipura*); Ruplal Rai (Ind.), (*Madhuban*); Arjun Prasad Singh (Cong.), (*Madhubani East*); Ramakant Jha (PSP), (*Madhubani West*); Mahendra Mahto (PSP), (*Mahagama*); Smt. Anusuya (Cong.), (*Maharajganj*); Smt. Banarsi Devi (Cong.), (*Mahnar*); Shivanandan Ram (SC) (Cong.), (*Mahua (R)*); Bindeshwari Prasad Verma (Cong.), (*Mahua*); Saran Balmuch (ST) (Jharkhand), (*Majhgaon (R)*); Mitheleshwar Prasad Sinha (Cong.), (*Makhdumpur*); Ignes Kujur (ST) (Jharkhand), (*Mandar (R)*); Ramvilas Prasad (Jharkhand), (*Mandar*); Moti Ram (CNSJP), (*Mandu*); Sribhagwan Singh (CPI), (*Maner*); Smt. Parvati Devi (Cong.), (*Manihar*); Santan Samad (ST) (Jharkhand), (*Manjari (R)*); Girish Tiwari (Cong.), (*Manjhi*); Subhanath Deogam (Jharkhand), (*Manoharpur*); Devi Lal Ji (PSP), (*Marhaura*); Vacant (*Maskrakh South*); Smt. Saraswati Chaudhury (SC) (Cong.), (*Masaurhi (R)*); Nawal Kishore Sinha (Cong.), (*Masurhi*); Mrityunjaya Singh (PSP), (*Maskrakh North*); Janak Singh (Cong.), (*Minapur*); Janardan Sinha (Cong.), (*Mirganj*); Badri Singh (PSP), (*Mohania*); Smt. Shanti Devi (Cong.), (*Mohiuddinnagar*); Jagdish Narain Singh (Cong.), (*Mokumah*); Nirapad Mukherjee (Cong.), (*Monghyr*); Smt. Shakuntala Devi (Cong.), (*Motihari*); Bigu Ram (SC) (Cong.), (*Motihari (R)*); Sheonandan Prasad Mondal (Cong.), (*Murliganj*); Mahamaya Prasad Sinha (PSP), (*Muzaffarpur*); Ramjanam Ojha (PSP), (*Muzaffarpur Muffasil*); Deodhari Ram (SC) (Cong.), (*Nabinagar (R)*); Priyabrat Narain Singh (PSP), (*Nabinagar*); Umeshwar Prasad (Jharkhand), (*Nalla*); Babulal Marandi (ST) (Jharkhand), (*Nalla (R)*); Ramkhelawan Singh (Cong.), (*Naubatpur*); Manzoor Ahmad (Cong.), (*Nawada*); Raja Ram Arya (Cong.), (*Nawanagar*); Lakshmi Narain Manjhi (ST) (Cong.), (*Nirsa (R)*); Ram Narain Sharma (Cong.), (*Nirsa*); Jagdish Prasad (Cong.), (*Notka*); Smt. Shanti Devi (Cong.), (*Palasi*); Chanderdeo Prasad Varma (PSP), (*Paliganj*); Jitu Kisku (ST) (Cong.), (*Pakaur (R)*); Smt. Rani Jyotirmoye Debi (Cong.), (*Pakaur*); Smt. Laxmi Devi (Cong.), (*Parbatta*); Daroga Prasad Roy (Cong.), (*Parsa*); Chandu Ram (SC) (Cong.), (*Paru (R)*); Nawal Kishore Sinha (Cong.), (*Paru*); Bibhishan Kumar (Cong.), (*Patahi*); Manzur Ahsan Azazi (Cong.), (*Patepur*); Smt. Zahra Ahmad (Cong.), (*Patna East*); Badrinath Verma (Cong.), (*Patna South*); Ramsaran Sai (Cong.), (*Patna West*); Rashik Lal Yadav (Cong.), (*Phulparas*); Ganganath Mishra (CPI), (*Pipra*); Nagina Dusadh (SC) (Cong.), (*Piro (R)*); Smt. Sumitra Debi (Cong.), (*Piro*); Ramjanam Mahto (Cong.), (*Pirpainti*); Supai Soren (ST) (Jharkhand), (*Potka (R)*); Khublal Mahto (Cong.), (*Pratapganj*); Smt. Sudama Chaudhury (Cong.), (*Pupri North*); Devendra Jha (PSP), (*Pupri South*); Kamakideo Narain Sinha (Cong.), (*Purnea*); Sarjoo Prasad Sinha (Cong.), (*Rafiganj*); Haribansh Narain Sinha (Cong.), (*Raghopur*); Ramdeo Sinha (PSP), (*Raghunathpur*); Rameswaroop Prasad Yadava (Cong.), (*Rajauli*); Baldeo Prasad (SC) (Cong.), (*Rajgrih (R)*); Shyamsunder Prasad (CNSJP), (*Rajgrih*); Binodanand Jha (Cong.), (*Rajmahal*); Sukhu Murmu (ST) (Cong.), (*Ramgarh (R)*) (*Santhal Parganas Distt.*); Tara Prasad Bakshi (CNSJP), (*Ramgarh*) (*Hazaribagh Distt.*); Rameshwar Manjhi (ST) (CNSJP), (*Ramgarh (R)*); Dasarath Tiwari (PSP), (*Ramgarh*) (*Shahbad Distt.*); Jagannath Mahto (Jharkhand), (*Ranchi*); Ramratan Ram (SC) (Cong.), (*Ranchi (R)*); Chintamani Saran Nath Sahdeo (Ind.), (*Ranchi Sadar*); Ram Narayan Mandal (Cong.), (*Raniganj*); Radha Pandey (Cong.), (*Raxaul*); Mahabir Raut (Cong.), (*Rosera*); Tribeni Prasad Singh (Cong.), (*Runisaidpur*); Braj Bihari Singh (Cong.), (*Rupauli*); Sheo Pujan Rai (Cong.), (*Sahar*); Smt. Vishwashwari Debi (Cong.), (*Saharsa*); Ram Gulam Chaudhary (SC) (Cong.), (*Sakra (R)*); Kapildeo Narain Sinha (Cong.), (*Sakra*); Jadunandan Sahay (Cong.), (*Samastipur West*); Sahdeo Mahto (Cong.), (*Samastipur East*); Jhaman Prasad (Cong.), (*Sandesh*); Badri Narayan Singh (Cong.),* (*Sarath*); Ramadhar Dusadh (SC) (P.S.P.), (*Sasaram (R)*); Bipin Behari Sinha (P.S.P.), (*Sasaram*); Aditya Pratap Deo Singh (Ind.), (*Seraikella*); Ramanand Tewary (P.S.P.), (*Shahpur*); Mohammad Shahjehan (Cong.), (*Sherghati*); Smt. Leela Devi (SC) (Cong.), (*Sheikhpura (R)*); Shrikrishna Singh (Cong.), (*Sheikhpura*); Ram Swaroop Ram (Cong.) (Ind.), (*Sheohar (R)*); Thakur Girijanandan Singh (Ind.), (*Sheohar*); Supai Murmu (ST) (Jharkhand), (*Shikaripara (R)*); Singheshwar Prasad Verma (P.S.P.), (*Shikarpur*); Bhola Nath Bhagat (Cong.), (*Silli*); Fazlur Rahman (Cong.), (*Sikta*); Marshal Kullu (ST) (Jharkhand), (*Simdega (R)*); Smt. Shyam Kumari (SC) (Cong.), (*Singhia (R)*); Braj Mohan Prasad Singh (Cong.), (*Singhia*); Kirpa Oraon (ST) (Jharkhand), (*Sisai (R)*); Kuldip Narayan Yadav (Cong.), (*Sitamarhi North*); Ramsewak Saran (P.S.P.), (*Sitamarhi South*); Gadadhar Prasad Shrivastava (Cong.), (*Siwan*); Smt. Saraswati Devi (Cong.), (*Sultanganj*); Lahtan Choudhury (Cong.), (*Supaul*); Maheswar Prasad Narain Sinha (Cong.), (*Sursand*); Kameshwar Narain Singh (Cong.), (*Sonbarsa*) (*Saharsa Distt.*); Jageshwar Hajra (SC) (Cong.), (*Sonbarsa (R)*); Singheshwar Rai (Ind.), (*Sonbarsa (Muzaffarpur Distt.)*); Ram Binod Singh (Ind.), (*Sonepur*); Karpuri Thakur (P.S.P.), (*Tajpur*); Dhan Singh Munda (ST) (Jharkhand), (*Tamar (R)*); Basuki Nath Rai (Cong.), (*Tarapur*); Ramcharitra Sinha (Ind.), (*Teghra*); Sukhdeo Prasad Verma (Cong.), (*Tekari*); Rameshwar Manjhi (SC) (Cong.), (*Tekari (R)*); Ram Lal Chamar (SC) (Cong.), (*Topchanchi (R)*); Smt. Manorama Sinha (Cong.), (*Topchanchi*); Julius Munda (ST), (Jharkhand), (*Torpa (R)*); Vageshwar Jha (Cong.), (*Tribenigunj*); Tulsi Ram (SC) (Cong.), (*Tribenigunj (R)*); Rameshchandra Prasad Sharma (Cong.), (*Tundi*); Vacant, (*Warsaliganj (R)*); Vacant (*Warsaliganj*); Sundar Singh (Cong.), (*Warisnagar*); Smt. Ram Sukumari Devi (Cong.), (*Warsaliganj West*); Zawar Hussain (Cong.), (*Ziradei*).

* Vold.

BOMBAY LEGISLATIVE COUNCIL

Total no. of members : 108.

Chairman : Bhogilal Dhirajlal Lala.

Dy. Chairman : Kumari Jethi T. Sipahimalani.

Abdul Rahamankhan M. Yusufkhan, (*Marathwada, Local Authorities*); Acharya, Labhshankar Devshankar, (*Saurashtra, Local Authorities*); Agarwal, Deyashankar B., (*Maharashtra South, Local Authorities*); Agrawal, Kashinath Mannalal, (*Elected by Assembly*); Agrawal, Sukhdeo Shaligram, (*Elected by Assembly*); Alshi, Mahadeo Supadaji, (*Elected by Assembly*); Ambekar, G. D., (*Nominated*); Arnal, Dadoobhai, (*Elected by Assembly*); Awode, Haridas Damaji, (*Elected by Assembly*); Badave, Baburao Pralhad, (*Elected by Assembly*); Balbudhe, Ramrao Narayanrao, (*Vidarbha, Local Authorities*); Barfiwala, Chunilal Damodar, (*Greater Bombay-cum-Maharashtra West, Local Authorities*); Benadikar, Sadashiv Laxman, (*Elected by Assembly*); Bhadiawala, Chhaganlal Nanji, (*Elected by Assembly*); Bhat, Atmaram Raoji, (*Elected by Assembly*); Bhaurao Narsinghrao, (*Marathwada, Local Authorities*); Bhatt, Chhotalal C., (*Gujarat North, Local Authorities*); Bhatt, Rasiklal S., (*Elected by Assembly*); Bhide, Hari Bhaskar, (*Elected by Assembly*); Chandrashekharrao, N., (*Marathwada, Local Authorities*); Chhapekar, L. N., (*Greater Bombay-cum-Maharashtra Teachers*); Dahanukar, Shantaram Mahadeo, (*Elected by Assembly*); Dalal, Bejonji Aderji, (*Greater Bombay-cum-Maharashtra West, Local Authorities*); Desai, Maganbhai P., (*Nominated*); Deshmukh, Ishwar Bagji, (*Vidarbha, Local Authorities*); Deshmukh, Vasantrao Balvant, (*Maharashtra South, Local Authorities*); Deshpande, D. V., (*Greater Bombay-cum-Maharashtra Teachers*); Dorji Rattonsey, (*Greater Bombay-cum-Maharashtra West, Local Authorities*); Divanji, L. C., (*Gujarat South, Local Authorities*); Dhak, P. S. T., (*Nominated*); Donde, Maruthrao Vasudeo, (*Greater Bombay Teachers*); Dongre, V. S., B.A., (Bar-at-Law), (*Nomin ted*); Gadgil, Pandurang Vasudeo, (*Elected by Assembly*); Gaikwad, Madhav Bayaji, (*Maharashtra North, Local Authorities*); Gaiwankar, Dr. Sadanand Keshav, (*Maharashtra North, Local Authorities*); Girame, Jagannath Haribhau, (*Maharashtra South, Local Authorities*); Hamied, Dr. K. A., B.Sc., M.A., Ph.D. (Berlin), A.I. F.R.C.S., (London), (*Nominated*); Harris, M., (*Greater Bombay Graduates*); Jawade, Janrao Harbaji, (*Vidarbha, Local Authorities*); Kale, Malhartao Narayanrao, (*Vidarbha Teachers*); Karve, Dr. Dinkar Dondo, (*Maharashtra Graduates*); Khode, Pralhad N., (*Vidarbha, Graduates*); Koli, G. N. (*Maharashtra South, Local Authorities*); Korpe, Jamanadas Nathuji, (*Elected by Assembly*); Kotecha, Hariji wan Vithaldas, (*Saurashtra, Local Authorities*); Kulkarni, Shrimati Sushila Jayadeo, (*Nominated*); Lala, Bhomsi Dhirajlal, (*Gujarat North, Local Authorities*); Londhe, Shankar Ramchandra, (*Vidarbha Teachers*); Mali, Gajmal Dalpat, (*Maharashtra North, Local Authorities*); Manlar, Lalbhai Kishordas, (*Elected by Assembly*); Mehta, Chandrakant Chhotalal, (*Elected by Assembly*); Mehta, Dinkarrao Krishnalal, (*Gujarat North, Local Authorities*); Mehta, G. B., (*Gujarat South, Local Authorities*); Mehta, C. P., (*Saurashtra, Local Authorities*); Mohomed Taher Habib, (*Elected by Assembly*); Momin, G. H. W., (*Elected by Assembly*); Nagori, Smt. Madinabai Akbarbhai, (*Elected by Assembly*); Naik, P. P., (*Maharashtra South, Local Authorities*); Nalavade, G. M., (*Elected by Assembly*); Nemichand Kisandas, (*Elected by Assembly*); Ogale, Shankar Laxman, (*Greater Bombay Teachers*); Page, Vithal Sakharam, (*Elected by Assembly*); Pandit Rao, (*Elected by Assembly*); Paranjpe, Smt. Shakuntala, (*Nominated*); Parasher, Vinayakumar Rambal, (*Vidarbha, Local Authorities*); Parekh, Smt. Bhanumatiben Manilal, (*Elected by Assembly*); Patel, Bhaskar Rambhai, (*Elected by Assembly*); Patel, Champhai Motibhai, (*Gujarat South, Local Authorities*); Patel, Maganbhai Bhikhabhai, (*Elected by Assembly*); Patel, Motibhai, (*Gujarat Graduates*); Patel, Atmaram N., (*Elected by Assembly*); Patel, Kashirao Rathbhan, (*Vidarbha Local, Authorities*); Pathan, Sulemankhan Abdullakhan, (*Elected by Assembly*); Patwari, Prabhudas Balkrishna, (*Gujarat North, Local Authorities*); Patwari, V. G., (*Elected by Assembly*); Ratanlal Mohanlal, (*Nominated*); Rawat, Rachubhai Popatbhai, (*Nominated*); Rebello, Dr. Alfred Camillo Peter, (*Elected by Assembly*); Sahasrabudhe, D. H., (*Vidarbha Teachers*); Rodrigues L., (*Nominated*); Sanghavi, Smt. Dhirajben Popatlal, (*Elected by Assembly*); Sarnaik, Smt. M. R., (*Elected by Assembly*); Sathaye, Dr. Vaman Dinkar, (*Maharashtra Graduates*); Samarth, R. P., (*Elected by Assembly*); Shah, Smt. Anasuya Chhotalal, (*Elected by Assembly*); Shah, Chhaganlal Kalidas, (*Elected by Assembly*); Shaw, David Ezekiel, (*Greater Bombay-cum-Maharashtra West, Local Authorities*); Shende, Bhaurao Vithoba, (*Elected by Assembly*); Shukla, Balkrishna Dalpatramshankar, (*Saurashtra, Local Authorities*); Shukla, Damubhai Chhaganbhai, (*Gujarat Graduates*); Shukla, Shrimati Jyotsnaben, (*Graduates*); Shukla, Shrimati Jyotsnaben, (*Graduates*); Sujlana, Bahusukhram, (*Elected by Assembly*); Sukhtankar, Kumari Jethi T., (*Nominated*); Sodhi D. S., (*Nominated*); Sthalekar, A. S., (*Greater Bombay Graduates*); Subhedar, V. M., (*Vidarbha Graduates*); Suryavanshi, B. D., (*Elected by Assembly*); Thacker, Karsondas Hirji, (*Elected by Assembly*); Thakore, Thakorlal Shrimatlal, (*Gujarat Teachers*); Thete, Gopal Ramji, (*Maharashtra North, Local Authorities*); Thorat, Sambhajirao Maruti, (*Elected by Assembly*); Tilawant Ali, (*Elected by Assembly*); Trivedi, Dwarkadas Nanji, (*Saurashtra, Local Authorities*); Trivedi H. D., (*Nominated*); Veer, Kisan Mahadev, (*Elected by Assembly*); Vishwanath Rao, Madhav Rao, (*Elected by Assembly*); Vyas, Bacharaj Rao, (*Elected by Assembly*); Wagh, Waman Ganesh, (*Vidarbha Graduates*); Yardi, Waman Gangadhar, (*Maharashtra North, Local Authorities*).

Mehta, S. M. (*Gujarat South-Local Authorities*).

BOMBAY LEGISLATIVE ASSEMBLY

Constituencies: 339 (S.M. 282; D.M. 57). Seats: 396 (S.C. 43; S.T. 31), Electorate: 2,44,58,672.

Speaker, S. L. Sillam. *Deputy Speaker*, Dindayal Gupta.

An estimate of party position is given below: Congress 232; Praja Socialist Party 36; Communist Party of India 13; Bharatiya Jan Sangh 4; Peasants' and Workers' Party 30; Scheduled Castes Federation 12; Hindu Mahasabha 1; Independents 64.

The P.S.P., Communists, Jan Sangh, Peasants and Workers, Scheduled Castes Federation, Hindu Mahasabha and some Independents form the Samyukta Maharashtra Samiti. The strength is about 123.

The Mahagujerat Parishad has a strength of about 33. Officially the members contested the election as Independents

Jamiyatray Gulab Shanker Vaidya (Cong.), (*Dhrangadhra*); Madhavrao Bhagwantrao Patil (Cong.), (*Achalpur*); Vasant Rao G. Pawar (Cong.), (*Ahmadpur*); Tulsiram D. Kamble (SC) (Cong.), (*Ahmadpur* (*R*); Bhavanishankar Bapuji Mehta (Cong.), (*Ahmedabad*); Prabhakar Kondaji Bhapkar (Ind.), (*Ahmednagar North*), Trimbak Shivram Bharde (Cong.), (*Ahmednagar South*); Chhanusing Kalyan Sing Chandel (Cong.), (*Akalkot*); Madhusudan Atmaram Vairale (Cong.), (*Akola*); Niyazi Mohammad Subhan Saqui (Cong.), (*Akot*); Dattatraya Narayan Patil (P.W.P.), (*Alibag*); Madhav Gulu Patil (Cong.), (*Amalner*); Jalamkhan Sandebaj Khan Fadavi (ST) (Cong.), (*Amalner* (*R*)); Nana Jadhe (Cong.), (*Ambad*); Baburao Krishnaji Ghodap (Ind.), (*Ambegaon*); Smt. Sushilabai Keshaorao Ingle (Cong.), (*Amgaon*), Kumari Mridulai Wamanrao Joshi (Cong.), (*Amravati*), Dr. Jivraj Narayan Mehta (Cong.), (*Amreli*); M. S. Patel (Cong.), (*Anand North*), Smt. Kamlaben Maganbhai Patel (Cong.), (*Anand South*), Punjabhai Bhavanji Thacker (Cong.), (*Anjar*), Harisinh Bhagubawa Mahida (Cong.), (*Ankleshwar*), Krishnayya Venkayya Tadurwar (Cong.), (*Armori*); Baburao Marotrao Deshmukh (Cong.), (*Arvi*), Vishwanath Dagduji (Cong.), (*Ashti*), Mir Mahmood Ali (Cong.), (*Aurangabad*), Devisingh Venkatsing Chauhan (Cong.), (*Ausa*); Purushottam Kashirao Deshmukh (Cong.), (*Badnera*); Narayan Mansaram Sonawane (P.S.P.), (*Baglan*); Kazi Syed Ghulamuddin Kazi Syed Nasiruddin (Cong.), (*Balapur*), Purshottam Ganesh Kher (Cong.), (*Bandra*), Bahadurbhai Kuthabhai Patel (Cong.), (*Baroda*); Nanasaheb Babuji Jagtap (P.W.P.), (*Baramati*); Sambhaji Bandoba Londhe (SC) (S.C.F.), (*Baramati* (*R*)); Kalyanjibhai Vallabhai Mehta (Cong.), (*Bardoli*); Jayantkumar Kashiram Pandya (Ind.), (*Baria*); N. D. Chokshi (Cong.), (*Baroda City East*); Bhailalbhai Garbaddas Contractor (Cong.), (*Baroda City West*); Shivaji Parasharam Arya (Cong.), (*Barsi*); Ranga Rao Deshmukh (P.W.P.), (*Basmath*), Sadanand Gopal Warty (P.S.P.), (*Bassein*), Ladusing Kishorsing Rahevar (Ind.), (*Bayad*); Narain Harbaji Mathankar (Cong.), (*Bhadrawati*), Dada Dajiba Dhote (Cong.), (*Bhandara*); Sitaram Jairam Bhambore (SC) (Cong.), (*Bhandara* (*R*)); Harilal Ramji Nakum (Cong.), (*Bhanvad*); Virajlal Gokaldas Vora (Cong.), (*Bharnagar*); Khimjibhai Rupabhai Parmar (ST) (Cong.), (*Bhiloda* (*R*)); Harilal Gandhi (Cong.), (*Bhiloda*); Smt. Shantabai Kotecha (Cong.), (*Bhir*); Bhalchandra Shivram Patil (P.W.P.), (*Bhiwandi*); Yeshwant Gunaji Ambekar (ST) (P.W.P.), (*Bhiwandi* (*R*)); Bhagwant Rao G. Gade (Cong.), (*Bhokardhan*); J. Parsharam Mali (Ind.), (*Bhor*); Kaka Gopal Desai (C.P.I.), (*Bhuderyad*); Kundanlal Jashwant Lal Dholakia (Cong.), (*Bhuj*); Dattatraya Sonu Bhirud (Cong.), (*Bhusawal*); Jaiwant Rao D. More (Cong.), (*Biloli*); Laxman (SC) (Cong.), (*Biloli* (*R*)); Ishwarlal Pranjivandas Parekh (Cong.), (*Borivli*); Shivabhai Ashabhai Patel (Cong.), (*Borsad North*); Madhavsingh Fulsingh Solanki (Cong.), (*Borsad South*); Chhaganbhai Lallubhai Gopani (Cong.), (*Botad*); Murharirao Krishnarao Nagmoti (Cong.), (*Brahmapuri*); Govind Bijaji Meshram (SC) (Cong.), (*Brahmapuri* (*R*)); Bhupendra Bhai Bapalal Modi (Ind.), (*Broach*); Smt. Indirabai Ramrao Kolamkar (Cong.), (*Buldhana*); Gopalji Dahyabhai Desai (Cong.), (*Bulsar*); Naranbhai Madhavbhai Rathod (SC) (Cong.), (*Bulsar* (*R*)); Bapurao Dhondiba Jagtap (C.P.I.), (*Byculla*); Paljibhai Hamabhai Boricha (SC) (S.C.F.), (*Byculla* (*R*)); Janab Hussein Yawar Khan (Cong.), (*Cambay*); Rajaram Bhila Sonawane (P.S.P.), (*Chalisgaon*); Khodabhai Shivram Patel (Ind.), (*Chanasma*); Laxmanrao Krishnaji Wasekar (Cong.), (*Chanda*); Narsingh Bhujang Patil (P.W.P.), (*Chandgad*); Pundlik Balkrishna Chore (Cong.), (*Chandur*); Indravadanrai Manmohanrai Oza (Cong.), (*Chembur*); Bhagvanbhai Ranchhod Patel (Cong.), (*Chhota Udepur*); Bhaijibhai G. Tadavi (ST) (Cong.), (*Chhota Udepur* (*R*)); Namdeo Punjaji Pawar (Cong.), (*Chikhli* (*Buldana Dt.*)); Smt. Shantaben Kalidas Patel (Cong.), (*Chikhli* (*Surat Dt.*)); Shankar Ganu Tambutkar (C.P.I.), (*Chiplun*); Gangaram Bhikaji Kamble (SC) (S.C.F.) (*Chiplun* (*R*)); Smt. Kikiben Bhat *alias* Urmilaben Premchankar (Cong.), (*Chorasi*); Kalaram Shankar Dharia (Cong.), (*Colaba*); Ambalal Chhotalal Shah (Cong.), (*Dabhoi*); Trimbakrao Ramchandra Naravane (Ind.), (*Dadar*); Shamrao Ramchandra Patil (Cong.), (*Dahanu*); Santu Devoo Thakaria (ST) (Cong.), (*Dahanu* (*R*)), Naranbhai Lashabhai Patel (Ind.), (*Dangs*); Purshottam Vasudev Mandlik (P.S.P.), (*Dapoli*); Mohanlal Popatlal Vyas (Cong.), (*Dariapur Kazipur*); Deorao Shiram Patil (Ind.), (*Darwha*), Narayan Uttam Rao Deshmukh (Cong.), (*Daryapur*), Kisanrao Narayanrao Khandare (SC) (Cong.), (*Daryapur* (*R*)); Chhotalal Narandas Patel (Ind.), (*Daskroi*); Popatlal Mulshanker Joshi (Cong.), (*Deesa*); Gamanbhai Nanji Parmer (SC) (Cong.), (*Deesa* (*R*)); Chaturbhai Mangalbhai Amin (Ind.), (*Dehgam*); Jagannath Ramkrishna Tawade (P.W.P.), (*Deogad*); Dwarkadas Amritlal Patel (Ind.), (*Dhandhuka*); Ramu Balu Jadav (P.S.P.), (*Dharampur*); Shankar Rao Bhaurao Chauhan (Cong.), (*Dharmabad*); Kallasnarayan Shivnarayan Narola (Cong.), (*Dhobi Talao*); Manekbai Chunilal Shah (Cong.), (*Dholka*); Bhagwanji Bhanji Kalaria (Cong.), (*Dhoraji*); Bhupatbhai Virajlal Desai (Cong.), (*Dhrangadhra*); Chudaman Ananda Raundale (Cong.), (*Dhulia North*); Ramdas Bhagwan Chaudhari (Ind.), (*Dhulia South*); Madhorao Baburao Mahindre (Cong.), (*Digras*); Fakirrao Sakharam Daokhar (C.P.I.), (*Dindori*); Ramdas Pandu Ragul (ST) (C.P.I.), (*Dindori* (*R*)), Jaysing Mansing Solanki (Cong.), (*Dohad*); Abdul Kadar Hafizka (Cong.), (*Dongri*); Bhudarji Dosabhai Meswania (Cong.), (*Dwarka*); Ganpatram Gokaldas Patel (Ind.), (*Ellis Bridge*); Sitaram Hirachand Birla (Cong.), (*Erandol*); Dnyandeo Santram Narwekar (P.W.P.), (*Gadhinglaj*); Sakharam G. Nakhate (Cong.), (*Gangakhed*); Namdeo Deoji Pagare (SC) (Cong.), (*Gangakhed* (*R*)); Chandragupta D. Chaudhary (C.P.I.), (*Gangapur*); L. M. Pansambal (Cong.), (*Georai*); Pralhad Keshav Atre (Ind.), (*Girgaum*); Pratapsingh Motisingh (Cong.), (*Godhra*); Shamprasad Rup Shanker Vasavda (Cong.), (*Gomtipur*); Jesingji Govindbhai Parmar (SC) (Cong.), (*Gomtipur* (*R*)); Manoharbhai Babarbhai Patel (Cong.), (*Gondia*); Puranlal Dharmabhau Rahangdale (P.S.P.), (*Goregaon*); Dattatrava Yeshavant Vilankar (J.S.), (*Guhagar*); Smt. Anjana Bai Jaiwantrao (Cong.), (*Hadgaon*); Vijaysinhji Bharatsinhji Chauhan (Cong.), (*Halol*); Triambaklal Mohanlal Dave (Cong.), (*Halvad*); Santram Sakharam Patil (Ind.), (*Hatkanangale*); Dadasaheb Malharrao Shirke (SC) (S.C.F.), (*Hatkanangale* (*R*)); Ram Dashrath Tupe (P.S.P.), (*Haveli*); Purushottam Martandrao Chowre (SC) (Ind.), (*Hawli* (*R*)); Keshorao Motiram Zade (Cong.), (*Hinganghat*); B. K. Patil (Cong.), (*Hingoli*); S. N. Choudhari (SC) (Cong.), (*Hingoli* (*R*)); Punjaji Laxman Govardhane (C.P.I.), (*Igatpuri*); Shankarrao Bajirao Patil (Cong.), (*Indapur*); Sadashio Vithal (Cong.), (*Jalamb*); Sadashiv Radashio Vithal (Cong.), (*Jalgaon*); R. B. Narayan Bhalerao (C.P.I.), (*Jalgaon*); Dhondi Raj Ganpat Rao (SC) (Cong.), (*Jalna* (*R*)); Shaikh Ahmedmia Sherumia (Ind.), (*Jamalpur*); Chhotubhai Makanbhai Patel (Cong.), (*Jamkusar*); Nanji Devji Sinojia (Cong.), (*Jamjodhpur*); Smt. Manjulaben Jayantilal Dave (Cong.), (*Jamnagar*); Gajananrao Raghunath Rao Garud (P.S.P.), (*Jamner*); Krishnarao Haribhau Tarade (P.W.P.), (*Jaoli*); Akbarali Amiji Jasdanwala (Cong.), (*Jasdan*); Vijay Sinhrao Ramrao Dafle (Ind.), (*Jath*); Trimbak Bhau Mukane (Cong.), (*Jawhar*); Gajanand Bhavani Shankar Joshi (Cong.), (*Jetpur*); Dalpatbhai Amarsinh Vasawa (Cong.), (*Jhagadia*); Narsinhbhai Kanjibhai Hathila (Cong.), (*Jhalod*); Wamanrao A. Nayak (Cong.), (*Jintur*); Kantilal Premchand Shah (Cong.), (*Jodia*); Smt. Pushapaben Janardan Mehta (Cong.), (*Junagadh*); Shivaji Mahadu Kale (P.S.P.), (*Junnar*); Chhotalal Maganlal Patel (Ind.), (*Kadi*); Smt. Vimalabai Vasant Bagal (Ind.), (*Kagal*); R. Mahalingaswami (Cong.), (*Kaij*); G. K. Gaikwad (SC) (Cong.), (*Kaij* (*R*)); Ramanlal Nagjibhai Patel (Cong.), (*Kaira*); Smt. Tarabai Mansing (Cong.), (*Kalam*); Revappa Krishappa (SC) (Cong.), (*Kalam* (*R*)); Sheshrao Krishnarao Wankhede (Cong.), (*Kalameshwar*); Shankarji Maganji Thakarda (Ind.), (*Kalol*); Jayant Ghelabhai Dalal (Ind.), (*Kalupur*); Krishnarao Narayan Dhulup (P.W.P.), (*Kalyan*); Parbhubhai Dhanabhai Patel (Cong.), (*Kamrej*); Bhaskar Balkrishna Sawant (P.W.P.), (*Kankavli*); Shantilal Saruchand Shah (Cong.), (*Kanarej*); Baburao Manikrao Patil (Cong.), (*Kannad*); Nagindas Vadilal Gandhi (Ind.), (*Kapadvanj*); Yashvantrao Balvantrao Chavan (Cong.), (*Karad North*); Yeswantraro Jijaba Mohite (P.W.P.), (*Karad South*); Smt. Maniben Chandubhai Patel (Cong.), (*Karjan*); Vishnu Dattatraya Chitale (C.P.I.), (*Kasba Peth*); Shankarrao Daulatrao Gedam (Cong.), (*Katol*); Trimbak Dattatraya Deshmukh (Cong.), (*Kelapur*); Brahmakumar Ranchhodlal Bhat (Ind.), (*Khadia*); Govinddas Ratanlal Bhatia (Cong.), (*Khamgaon*); Keshav Rao Dhondge (P.W.P.), (*Khandhar*); Keshav Shankar Patil (P.S.P.), (*Khatav*); Tarachand Hirachand Vadgaonkar (P.S.P.), (*Khed* (*Poona Dt.*)); Jagannath Shivram Patne (S.C.F.), (*Khed* (*Ratnagiri Dt.*)); Natvarlal Maganlal Patel (Ind.), (*Kheralu*); Uttam Baliram Rathod (Cong.), (*Kinwat*); Pandurang Bapurao Salokhe (P.W.P.), (*Kolhapur*); Vishwasrao Vithalrao Mane (Cong.), (*Koregaon*); Bhanushankar Manchharam Yagnik (Cong.), (*Kumbharwada*); Amulakhrai Kushalchand Khimani (Cong.), (*Kundla*); Devsibhai Nanjibhai Raiyani (Cong.), (*Kunkavav*); Tapubhai Pragji Vaghela (SC) (Cong.), (*Kunkavav* (*R*)); Smt. Anjanabai Narahar Magar (Cong.), (*Kurla*); Mathuradas Gordhandas Bhupta (Cong.), (*Kutiyana*); Shashikekar Kashinath Athale (P.S.P.), (*Lanja*); Smt. Sumitraben Hariprasad Bhatt (Con.), (*Lathi*); Keshavrao S. Sonawane (Cong.), (*Latur*); Virsinghbhai Kanjibhai Nisarta (Cong.), (*Limkheda*); Shivprasad Bapulal Bhatt (Ind.), (*Lunawada*); Namdeo Mahandeo Jagtap (Cong.), (*Madha*); Ganpat Laxman Sonawane (SC) (Cong.), (*Madha* (*R*)); Digambar Vinayak Purohit (P.S.P.), (*Mahad*); Homi Jehangir Taleyarkhan (Cong.), (*Mahalaxmi*); F. M. Pinto (P.S.P.), (*Mahim*); Jaswantrai Nanubhai Mehta (P.S.P.), (*Mahuva*); Haroon Ahmed Ansari (P.S.P.), (*Malegaon*); Kanji Kachara Mhori (Cong.), (*Malia*); Bhiku Fakira Shelki (Cong.), (*Malkapur*); Shankarrao Narayanrao Mohite (Ind.), (*Malsiras*); Shridhar Balkrishna Manjarekar (J.S.), (*Malvan*); Salebhoy Abdul Kadar (Cong.), (*Mandri* (*Greater Bombay Dt.*)); Jumakhlal Lakhmichand (Cong.), (*Mandvi* (*Kutch Dt.*)); Surendranath Govind Tipnis (P.S.P.), (*Mangaon*); (*R*)); Ramji Parbat Vikani (Cong.), (*Mangrol* (*Sorath Dt.*)); Haribhai Ranabhai Bhaskar (SC) (Cong.), (*Mangrol* (*R*) (*Sorath Dt.*)); Hitendra Kanaiyalal Desai (Cong.), (*Mangrol* (*Surat Dt.*)); Brijlal Nandlal Biyani (Cong.), (*Mangrulpir*) Sabdar Ali Sujalali (Cong.), (*Manjlegaon*) Madhavlal Bhailal Shah (Cong.), (*Matar*); Madhavrao Ganapatrao Mane (P.S.P.), (*Matunga*);

Jaggannath Ganpatrao Bhatankar (SC) (S.C.F.), (*Matunga (R)*); Ramchandra Kashinath Mhalgi (J.S.), (*Marol*); D. L. Anande (Ind.), (*Mazgaon*); Shankarrao Vithalrao *alias* A. Deshmukh (P.W.P.), (*Mehkar*); Tulsiram Rodu Kakal (SC) (S.C F.), (*Mehkar (R)*); Popatlal Gulabdas Patel (Ind.), (*Mehsana*); Smt. Kokilabai Jagannath Gawande (Cong.), (*Melghat*); Gundu Dashrath Patil (Cong.), (*Miraj*); Smt. Hirabai Anandrao Salao (Cong.), (*Morsi*); Gokaldas Dosabhai Parmar (Cong.), (*Morvi*); Shantaram Balkrishna Thakare (P.W.P.), (*Murbad*); Smt. Kusum Wamanrao Korpe (Cong.), (*Murtajapur*); D. Z. Palaspagar (SC) (Cong.), (*Murtajpur (R)*); Udesinh Virsinh Vadodia (Cong.), (*Nadiad North*); Mahendrabhai Gopaldas Desai (Ind.), (*Nadiad South*); Vishwanath R. Tulla (Samiti), (*Nagpada*); Ardhendu Bhushan Homendra Kumar Bardhan (Ind.), (*Nagpur*); Punjabrao Hukam Shambharkar (SC) (S.C F.), (*Nagpur (R)*); Madan Gopal Jodhraj Agarwal (Cong.), (*Nagpur I*); Dindayal Nandram Gupta (Cong.), (*Nagpur II*); Vithalrao Devidasrao Deshpande (C.P.I.), (*Nanded*); Bhausaheb Sakharam Hiray (Cong.), (*Nandgaon*); Dalpat Buchar Bhil (Cong.), (*Nandod*); Vithalrao Ganpatrao Hande (P.W.P.), (*Nasik*); S. L. Kamble (SC) (S.C.F.), (*Nasik (R)*); Gordhan Chhipa Bhil (ST) (Cong.), (*Nawadi (R)*); Laloobhai Makanji Patel (Cong.), (*Narsari*); Bhanabhai Dahyabhai Rathod (ST) (Cong.), (*Narsari (R)*); Abhramji Dongarsing Chaudhari (ST) (Ind.), (*Nawapur (R)*); Shripatrao Gyanurao (P.W.P.), (*Nilanga*); Deoram Sayaji Wagh (C P I), (*Niphad*); Smt. Nirmala Raje Bhosle (Cong.), (*North Sholapur*), V. N. Haralkar (Cong.), (*Omerga*); Udhavrao S Patil (P.W.P.), (*Osmanabad*); Onkar Narayan Wagh (P.S.P.), (*Panchora*); Jaswantlal Sobhagyachand Shah (Cong.), (*Padra*); Venkat Rao Jadhav (Cong.), (*Paithan*); Galbabhai Nanjibhai Patel (Cong.), (*Palanpur*); Dungarbhai Bhagwanbhai Parmar (ST) (Cong.), (*Palanpur (R)*); Navnitrai Bhogilal Shah (P.S.P.), (*Palghar*); Smt. Kasturben Jorsinh Indrani (Cong.), (*Palitana*); Raghunath Namdev Raul (P.S.P.)†, (*Pandharpur*), Babajirao Balasaheb Desai (Ind.), (*Panhala*); Dinkar Balu Patil (P.W.P.), (*Panvel*); Annaji R. Gavane (P.W P.), (*Parbhani*); Uttam Harji Patel (P.S P.), (*Pardi*); Vyankatesh Appa Shenoy (P.S.P.), (*Pared*); Shantilal Harjivan Shah (Cong.), (*Parle-Andheri*); Bhaskar Tukaram Auti (Ind.), (*Parner*); Shrinivas Chunilal Marwadi (J S.), (*Parola*); Bhagwanrao D Borade (Cong.), (*Partur*); Chimanlal Wahilal Shah (Ind.), (*Patan*); Laxmanbhai Samjibhai Bhankharia (SC) (Ind.), (*Patan (R)*); Daulatrao Shripatrao Desai (Cong.), (*Patan (Satara)*); Vasant Rajaram Raut (P.W.P.) (*Pen*); Govind Sonu Katkari (ST) (P.W P.), (*Pen (R)*); Manilal Prabhulal Parikh (Cong.), (*Petlad*); Sadashivrao Marutirao Bandiwde (SC) (S.C F.), (*Pulgaon (R)*); Haribhau Vithalrao Nimbalkar (C.P.I.), (*Phaltan*); Vithal N. Shivarkar (P.S.P.), (*Poona Cantt.*); Maldevji Mandlikji Odedra (Cong.), (*Porbandar*); Smt. Ranjanben Madhukumar Vora (Cong.), (*Prantij*); Raghunathrao Anandrao Pawar (P.W.P.), (*Purandhar*); Vasantrao Phulsing Naik (Cong.), (*Pusad*); Daulat Laxman Khadse (SC) (Cong.), (*Pusad (R)*); Dnyanadeo Santaram Khandekar (P.W.P.), (*Radhanagari*); Maneklal Nathalal Vakharia (Cong.), (*Radhanpur*); Laxmanrao Madhavrao Patil (Ind.), (*Rahuri*); Prabhat Mahadev Kulkarni (P.S.P.), (*Rajapur*); Jaysukhlal Karshanji Shah (Cong.), (*Rajkot*); Suragbhai Kalubhai Varu (Cong.), (*Rajula*); Ramchandra Ganpati Dhote (Cong.), (*Rajura*); Narendra Mahipati Tidke (Cong.), (*Ramtek*); Atmaram Vasudev Modak (P.S P.), (*Ratnagiri*); Madhukar Dhanaji Chaudhari (Cong.), (*Raver*); Keshavrao Raghav Wankhede (SC) (Cong.), (*Raver (R)*); G. C. Chaudhary (Cong.), (*Renapur*); Pandurang Ramji Sonap (P.W.P.), (*Roha*); Adku Sonu Paulzagde (Cong.), (*Sakoli*); Nashikrao Khantadu Tirpude (SC) (Cong.), (*Sakoli (R)*); Shankarrao Chindhuji Bedse (Ind.), (*Sakri*); Rama Jirya Padvi (ST) (Ind.), (*Sakri (R)*); Vardhmanbhai Lalbhai Mehta (Ind.), (*Sanand*), Arjun Bapuji Vichare (Ind.), (*Sangameshwar*); D. A. Deshmukh (Ind.), (*Sangamner*), N. R. Navali (Ind.), (*Sangamner*); Vasantrao B Patil (Cong.), (*Sangli*), Keshavrao Shripatrao (Cong.), (*Sangola*); Maruti Mahadeo Kambale (SC) (Cong.), (*Sangola (R)*); Smt. Hiraben Lalchandbhai Ninama (Cong.), (*Santrampur*), Marotrao Sambshiv Kannamwar (Cong.), (*Sasti*); Mohammad Abdulla Khan Pathan (Cong.), (*Sawner*); Vithal Nanasaheb Patil (Ind.), (*Satara*); Jashbhai Hathibhai Amin (Cong.), (*Savli*); Ramchandra Chhitabhai Solanki (SC) (Cong.), (*Savli (R)*); Shivram Sawant Khem Sawant Bhonsale* (Ind.), (*Sawantwadi*); S G Patkar (C P I), (*Sewree*); Vyankat Fanaji Dhobi (Cong.), (*Shahada*); Chandrasing Dhanka Bhandari (ST) (Cong.), (*Shahada (R)*), Tryambak Sitaram Karkhanis (P W.P.), (*Shahuwadi*), Dalabhai Raijibhai Parmar (Cong.), (*Shehra*); Eknath Laxman Bhagwat (Ind.), (*Sheogaon*); Yeshwanta Chandru Patil (P W P.), (*Shirala*); Bhaskarrao Sadashiv Galande (Ind.), (*Shirdi*); Arjun Giri Pawar (SC) (Ind.), (*Shirdi (R)*); Satagonda Revagonda Patil (Ind.), (*Shirol*); Jayant Shridhar Tilak (H M.), (*Shirajnagar*); Keshavlal Veerchand Shah (Cong.), (*Sholapur City North*), Rajaram Savalaram Dhavale (Cong.), (*Sholapur City South*); Nawasherwan Navarozji Satha (Ind.), (*Shrigonda*); Ramchandra Deokaji Pawar (SC) (Ind.), (*Shrigonda (R)*); Sridhar Mahadeo Joshi (P S P.), (*Shukrawarpeth*); Mafatlal Motilal Patel (Ind.), (*Sidhpur*), S V. Pathak (Cong.), (*Sillod*), Shankar Gorakh Sonawane (P.S P.), (*Sindkheda*), Shankar Kandaji Navale (P S P.), (*Sinnar*); Narayansinh Sampatsinh Weakey (P.S.P.), (*Sirsuncha*); Vishwesherrao Dharmarao Atram (ST) (Ind.), (*Sironcha (R)*); Shyamkant Damodar Mor (P.S.P.), (*Sirur*); Hamir Sarman Solanki (Cong.), (*Somnath*); Mavjibhai Chimabhai Chaudhari (Cong.), (*Songadh*); Shantirappa Basapp Baswanti (Cong.), (*South Sholapur*); Ishwarlal Gulabbhai Desai (Cong.), (*Surat City East*), Mohd. Husein Abdul Samad Golandaz (Cong.), (*Surat City West*); Rasiklal Umedchand Parikh (Cong.), (*Surendranagar*); Pethabhai Ganeshbhai Parmar (SC) (Cong.), (*Surendranagar (R)*), Jorsinh Kasalbhai Indrani (Cong.), (*Talaja*), Gorji Surji Padavi (ST) (P.S P.), (*Taloda (R)*), Ganpati Dada Lad (P.W.P.), (*Tasgaon*); Dattatraya Balkrishna Tamhane (P.S.P.), (*Thane*), Dahyalal Manilal Mehta (Cong.), (*Tharad*), Kishoresinh Chhagusinh Gohil (Ind.), (*Thasra*), Khushalbhai Morarbhai Dave (SC) (Cong.), (*Thasra (R)*); Shaligram Ramratan Dixit (Cong.), (*Tirora*); S. D. Hangargekar (Cong.), (*Tuljapur*); Aoo Malku Makade (Cong.), (*Tumsar*); Nevandram Vishindas Gurbani (Cong.), (*Ulhasnagar*); Sadashivrao Rajaramrao Samarath (Cong.), (*Umrer*); Anantram Dayal Choudhari (SC) (Cong.), (*Umrer (R)*); Ratanbai Mulshankar Adani (Cong.), (*Una*); Smt. Indumati Chhotalal Dholakia (Cong.), (*Unjha*), Mansinhji Bhusaheb (Cong.), (*Vagra*), M R Jadhav (P S P.), (*Vaijapur*); Kashinath Jerambhai Bharodia (Cong.), (*Vallabh Vidyanagar*), Narayan Mahadeo Chamankar (P S P.), (*Vengurla*); Gangaram Chunilal Rawal (Ind.), (*Vijapur North*); Bechardas Hargovandas Patel (Ind.), (*Vijapur South*), Digvijaysinh Pratapsinghji Desai (Ind.), (*Visnagar*), Parmanandas Jivanbhai Kathrecha (Cong.), (*Vyaredar*); Ranniklal Trikamlal Mehta (Ind.), (*Vyara*); Bhagwan Nanabhai Mali (Ind.), (*Wada*); Pirajirao Fayaza Mudhole (SC) (S.C F.), (*Wai (R)*), Dadasaheb Khanderao Jagtap (P W P.), (*Wai*), Savaji Laxman Salvi (Cong.), (*Walkeshwar*); Nagnath Ramchandra Navakwadi (P.W.P.), (*Walwa*), Shaikh Mohammad Nathobaji Jawade (Cong.), (*Wani*), Kamalkishanmantrao Bhujangrao (ST) (Cong.), (*Warora*), Smt. Hiralaxmi Keshavlal Sheth (Cong.), (*Wankaner*); Mahadeorao Tukaram Deshmukh (Cong.), (*Wardha*), Shankerrao Vithalrao Sakhare (SC) (Cong.), (*Wardha (R)*), J D Kachole (Cong.), (*Washim*), R C. Salwe (SC) (Cong.), (*Washim (R)*), Ramchandra Dhondibarao Sawarkar (S.C F.), (*Worli*); Smt. Ramabai Narayan Deshpande (Cong.), (*Yawal*), Digambar Vasudeo Kanade (P S P.), (*Yeola*), Ramchandra Dagdu Kadu (Cong.), (*Yedmali*);

Narayan Ganpat Avad (Ind.), (*Dindori*);

Vadilal Premchand Mehta (Cong.), (*Dholka*);

Govindbhai Manibhai Parmar (Cong.), (*Deesa*);

Nominated (Anglo-Indian) N R Bernard.

† Death reported on 15th April, 1958.

* Election declared void.

HIMACHAL PRADESH TERRITORIAL COUNCIL

Chairman : Karam Singh.

Gurditta Mal (Ind.), (*Bharmaur*); Bhagat Ram (Ind.), (*Bhatiyat*); Sant Ram Sant (Ind.), (*Balaspur*); Karam Singh (Cong.), (*Chachiot*); Piru Ram (Cong.) (*Chachiot (R)*); Chatar Singh (Cong.), (*Chamba*); Vidyadhar (Cong.), (*Chamba (R)*); Ram Nath (Cong.), (*Chaupra*); Gyan Singh (Cong.), (*Chini*); Bhagmal (Ind.), (*Chopal*); Chuni Lal (Ind.), (*Churah*); Chatroo Ram (Cong.), (*Churah (R)*); Sant Ram (Cong.), (*Dharampur*); Har Govind Singh (Ind.), (*Gehrwin*); Santoo (Ind.) (*Gehrwin (R)*); Narottam Dutt (Ind.), (*Ghumarwin*); Sardaroo (Ind.), (*Ghumarwin (R)*); Fateh Singh (Ind.), (*Joginderngar*); Paras Ram (Cong.), (*Karsog*); Sadh Ram (Cong.), (*Kasumpti*); Puran Chand (S.C F.), (*Kasumpti (R)*); Ram Lal (Ind.), (*Kotkhai*); Krishna Nand Swami (Cong.), (*Mandi, Sadar*); Gopi Ram (Cong.), (*Mandi, Sadar (R)*); Hitendra Singh (Cong.), (*Nahan*); Jeet Singh (Cong.), (*Pachhad*); Manga (Cong.), (*Pachhad (R)*); Gurucharan Singh Ghuman (Cong.) (*Pangi*); Kalyan Singh (Cong.), (*Paonta*); Nehar Singh (Ind.), (*Rajgarh*); Jai Bihari Lal (Ind.), (*Rampur*), Nalu Ram (S.C F.), (*Rampur (R)*); Guman Singh (Cong.), (*Ranka*), Pradip Singh (Cong.), (*Ranka (R)*), Bhagat Chand (Ind.), (*Rohru*); Om Chand (Ind.), (*Sarkaghat*), Nagitu Chandra Pal (P.S.P.), (*Solan*), Keshav Ram (Cong.), (*Solan (R)*); Lalit Sen (Cong.), (*Sundernagar*); Nakbhinhoo (Cong.), (*Sundernagar (R)*); Rajendra Singh (Cong.), (*Sunni*).

JAMMU AND KASHMIR LEGISLATIVE COUNCIL

Strength : 36. *Chairman :* Sheonarayan Fotedar, M.A. *Deputy Chairman :* Peer Giyas-ud-Din, M.A., LL.B.

Local Authorities : Ghulam Mohammad Pampori; L. Dina Nath Mahajan.

Teacher's Constituency : Dina Nath Koul; Ghulam Rasul Azad.

Panchayat's Constituency : Kh. Ahsan Mir; Kh. Mukhtar Ahmed; Master Buadita; Shiv Singh.

Elected by the Legislative Assembly : Sanam Wangal; Habib Ullah; Peer Ghias-ud-Din; Peer Gh. Mohammad Masaudi; Gh. Mohi-ud-Din; Kh. Gh. Mustafa Tak; Sheikh Ghulam Rasool; Mohammad Maqbool Mahjoo; S. Mohan Singh; Haji Safdar Ali; Pt. Shiv Narayan Fotedar; Munshi Moh'd Anwar; Ghulam Hussain; Amar Chand; Chella Singh; Ganga Ram; Mansukh Rai; Nasir Hussain Samnani; Om Prakash; Rattan Singh; Jotshi Ram Krishen; Lal Thakar Das Malhotra.

Nominated by the Sadar-i-Riyasat : Col. Sir Ram Nath Chopra; Ghulam Rasool Renzu; M. Mir Alam (Pakhtoon); Mohammad Shafi (Bakarwal); Madan Lal (Backward Class); Jatindar Dev.

JAMMU AND KASHMIR LEGISLATIVE ASSEMBLY

Strength : 75.

Speaker, Asadullah Mir; *Deputy Speaker,* Mohammad Ajub Khan.

National Conference 68; Praja Parishad 5; Harijan Mandal 1; Independent 1.

Sahdev Singh (*Akhnoor-Chhamb*); Satt Dev (*Akhnoor-Chhamb (R)*); Shyamlal Saraf (*Amira Kadal*); Shams-ud-Din (*Anantnag*); Mohd. Ajub Khan (*Arnas*); Syed Ali Shah Salavi (*Badgam*); Kh. Kabir Khan (*Bandipora-Gurez*); S. Harbans Singh Azad (*Baramulla*); Mahesh Chandar (*Basohli*); Chunilal Kotwal (*Bhaderwah*); Abdul Gani Goni (*Bhalesa-Bhanjwah*); Ram Chand Khajuria (*Billawar*), Syed Abdul Qadoos Azad (*Biruwa*); Ram Piara Saraf (*Bishna-Samba*); Nar Singh (*Bishna-Samba (R)*); Prof. Abdul Quayum (*Charar-i-Sharif*); Kh Ghulam Ahmed Mir (*Dachhanpora*); Mohammad Iqbal (*Darhal*); Ghulam Mohammad Mir (*Darhgam*); Abdul Aziz (*Devsar*); Ghulam Ahmad Dev (*Doda*); Mir Qasim (*Doru-Shahabad*); Kh. Mohammad Sultan (*Drugmulla*); Ghulam Ahmad Soft (*Ganderbal*); Pt. Durga Prasad Dhar (*Habba-Kadal*); Ghulam Rasool Kar (*Hamal*); Ghulam Qadir Masala (*Handwara*), Mohammad Yehyah Sidiqi (*Hazratbal*); Prem Nath Dogra (*Jammu City North*); Ram Chand Mahajan (*Jammu City South*); Th Rajinder Singh (*Jammu Tehsil*), Milkhi Ram (*Jammu Tehsil (R)*) Girdharilal Dogra (*Jasmergarh*), Mian Nizam-ud-Din (*Kangan*), Aga Syed Ibrahim (*Kargil Tehsil*); Mohammad Younis (*Karnah*), Piar Singh (*Kathua*); Abdul Rahman Butt (*Khangar*), Abdul Rehman Mir Rahat (*Khansahib*) Noor-ud-Din Dar (*Khoorpora*); Mir Bad Shah (*Kishtwar*); Manohar Nath Kaul (*Kothar*), Abdul Kabir (*Kulgam*), Moti Ram Baigra (*Lander Tikri*); Kaushak Bakula (*Leh Tehsil*), Kh. Ghulam Nabi Wani (*Lolab*); Ghulam Mohammad Wani (*Magam*); Peer Jamiat Ali Shah (*Mendhar*); Ghulam Ahmed Wani (*Nanda*); Syed Hussain (*Naubug Brang Valley*); Ghulam Hassan Khan (*Narwaw*); Krishen Dev Shethi (*Nowshera*); Pirzada Ghulam Jilani (*Pampore*); Ghulam Mohammed Butt Jalib (*Pattan*), Master Ghulam Ahmed (*Poonch*); Kh. Sona Ullah Sheokh (*Pulwama*); Abdul Aziz Shawl (*Rajouri*); Ghulam Mohd. Rajpori (*Rajpora*); Mir Assad Ullah (*Ramban*); Ghulam Mohammed Wani (*Ramhal*); Hem Raj Jandyal (*Ramnagar*); S Kulbir Singh (*Ranbirsinghpora*); Bhagat Chhajoo Ram (*Ranbirsinghpora*); Rakhu Kesh (*Reasi*); Bakhshi Ghulam Mohammad (*Safa-Kadal*); Sagar Singh (*Samba*); Abdul Khaliq (*Sangama*); Abdul Majid Bandy (*Shopian*), Abdul Gani Malik (*Sopore*); Mohammed Akbar (*Tangmarg*); Ghulam Mohammad Sadiq (*Tankipora*); Kh Abdul Gani Trali (*Tral*), Amar Nath Sharma (*Udhampur*), Mohammad Afzal Khan (*Uri*); Mirwaiz Ghulam Nabi (*Zaddibal*).

KERALA LEGISLATIVE ASSEMBLY

Constituencies : 114 (S M 102, D M 12); Seats : 126 (S C 11, S T 1); Electorate : 75,14,626.

Speaker, R Sankaranarayanan Thampi. *Deputy Speaker,* Kumari K. O. Aysha Bai.

An estimate of party strength is given below :

Congress : 43; Praja Socialist Party : 9; Communist Party of India : 60, Independents : 14

R. Krishnan (CPI), (*Alathur*); T V. Thomas (CPI), (*Alleppey*); T. O. Bava (Cong.), (*Abvaye*); K Govindankutty Menon (CPI), (*Andathode*), K. Gopinathan Pillai (Cong.), (*Aranmula*), R. Balakrishna Pillai (CPI), (*Arnanad*), P. S Karthikeyan (Cong.), (*Arur*); R. Prakasam (CPI), (*Attingal*); Kelu Mandoti Kunnivil (CPI), (*Badagara*); M Narayana Kurup (PSP), (*Balusery*); Kannan Challyoth (CPI), (*Cannanore I*); K. P Gopalan (CPI), (*Cannanore II*), k Bhargavan (CPI), (*Chadayamangalam*) C G Janardhanan (PSP), (*Chalakudy*); P K Chathan (SC) (CPI), (*Chalakudy (R)*), M Kalyanakrishnan Nair (CPI), (*Changanacherry*); R Shankaranarayanan Thampi (CPI), (*Changanur*), A. Balagopalan (Cong.), (*Cheruvur*), P. Balachandra Menon (CPI), (*Chittur*), K. Eacharan (SC) (Cong.), (*Chittur (R)*); L Gopalakrishna Menon (CPI), (*Cranganore*), Smt Rosamma Punnose (CPI), (*Devicolam*), N Ganapathy (SC) (Cong.), (*Devicolam (R)*), A K. Ramankutty (CPI), (*Elapully*); P Ravindran (CPI), (*Eraviperam*); A I Jacob (Cong.), (*Ernakulam*); George Joseph (Cong.), (*Ettunanoor*); P. K. Koru (Ind.), (*Guruvayur*), V Ramakrishna Pillai (Ind.), (*Haripad*), K. Chandrasekharan (PSP), (*Hosdrug*); P C Narayanan Nambiar (CPI), (*Irikur*), C [illegible] Menon (CPI), (*Irinjalakuda*); M C [illegible] (Cong.), (*Kaduthuruthy*); M M Mathai (Cong.) (*Kallooppara*); T. K. Ramakrishnan (CPI) (*Kanayannur*); K T. Thomas (Cong.) (*Kanjirapally*), Smt Kusumam Joseph (Cong.), (*Karikode*), Kunjukrishnan (Cong.), (*Karunagapally*), R Sugathan (CPI), (*Karthiyapally*), C. Kunhakrishnan Nair (Cong.), (*Kaseragod*), Kumari K. O. Aysha Bai (CPI), (*Kayamkulam*), M. T. Gopalankutty Nair (Cong.), (*Koduvally*); M. P. M. Ahammad Kurikkal (Ind.), (*Kondotty*); M. A Antony (Cong.), (*Kothakulangara*); E. Chandrasekharan Nair (CPI), (*Kottarakara*); P. Bhaskaran Nair (CPI), (*Kottayam*); Smt. Sarada Krishnan (Cong.), (*Kozhikode I*); P. Kumaran (Cong.), (*Kozhikode II*); G. Karthikeyan (CPI), (*Krishnapuram*); T. K. Krishnan (CPI), (*Kunnamkulam*); Smt Leela Damodara Menon (Cong.) (*Kunnamangalam*); P. R. Madhavan Pillai (CPI), (*Kunnathur*); R. Govindan (SC) (CPI) (*Kunnathur (R)*); Ahmedkutty (Ind.), (*Kuttipuram*); P. Ramunny Kurup (PSP), (*Kuthuparamba*); K. V. John (Ind.), (*Kuzhalmannam*), K P R Gopalan Nambiar (CPI), (*Madai*), K. Hassan Gani (Ind.), (*Malappuram*); Joseph Mundassery (CPI), (*Manalur*); P. P. Ummer Koya (Cong.), (*Manjeri*); M. Chadayan (SC) (Ind.), (*Manjeri (R)*), M. Umesh Rao (Ind.), (*Manjeswar*), V. Muhammad Kodur (Ind.), (*Manlada*); K Krishna Menon (CPI), (*Mannarghat*), C G Sadasivan (CPI), (*Mararikulam*); K. K Viswanathan (Cong.), (*Mattancherry*), N E Balaram (CPI), (*Mattanur*); K. C. George (CPI) (*Mavelikara*), P. K Kunjachan (SC) (CPI) (*Mavelikara (R)*); P. M Joseph (Cong.), (*Meenachil*); K M. George (Cong.), (*Muvattupuzha*) C H Kanaran (CPI), (*Nadapuram*); K C Abraham (Cong.) (*Narakkal*); K. S Achuthan (Cong.), (*Nattika*); N Neelakandharu Pandarathil (CPI), (*Nedumangad*); M. Sadasivan (CPI), (*Nemom*), R. Janardhanan Nair (CPI), (*Neyyattinkara*); E. M. S. Nambudiripad (CPI), (*Nilgiri*); Kallalan (SC) (CPI), (*Nilgiri (R)*); P. R. Francis (Cong.), (*Ollur*); V. Kunhunni Nayar (CPI), (*Ottapalam*); R. Raghava Menon (Cong.), (*Palghat*); Alexander Parambithara (Cong.), (*Palluruthy*); M. Kunjukrishnan Nadar (Cong.), (*Parassala*); C. K. Narayanan Kutty (CPI), (*Parli*); M. Sivan Pillai (CPI), (*Parur*); Thoppil Bhaskaran Pillai (CPI), (*Pathanamthitta*); N. Rajagopalan Nair (CPI), (*Pathanapuram*); E. P. Gopalan (CPI), (*Pattambi*); M Kumaran (CPI), (*Perambra*); P. Govindan Nambiar (CPI), (*Perintalmanna*); P. Govinda Pillai (CPI), (*Perumbavoor*); E. T. Kunhan (SC) (CPI), (*Ponnani*); Kunhambu Kallayan (SC) (Cong.), (*Poonnani (R)*); T. A. Thomman (Cong.), (*Poonjar*); P. C. Cheriyan (Cong.), (*Puthupally*); Joseph Chazhicatt (PSP), (*Puliyannur*); P. Gopalan (CPI), (*Punalur*); P. M. Kunhiraman Nambiar (PSP), (*Quilandy*); A A. Rahim (Cong.), (*Quilon*); E. P. Poulose (Cong.), (*Ramamangalam*); Idicula (Cong.), (*Ranni*); Smt K. R. Gouri (CPI), (*Sherthala*); G H. Mohamed Koya (Ind.), (*Tanur*); V. R. Krishna Iyer (Ind.), (*Tellicherry*); Thomas John (Cong.), (*Thakazha*); K. Moideenkutty Hajee (Ind.), (*Tirur*); K. Avukkadarkutty Naha (Ind.), (*Thirurangady*); G. Padmanabhan Thambi (CPI), (*Thiruvalla*); C A. Mathew (Cong.), (*Thodupuzha*), T krishnan (SC) (Cong.), (*Thrikkadavur*); K. Karunakaran (SC) (CPI), (*Thrikkadavur (R)*); Dr. A R. Menon (Ind.), (*Trichur*); E. P Kapen (PSP), (*Trivandrum I*); A. Thanu Pillai (PSP), (*Trivandrum II*); V. Sreedharan (CPI), (*Ullur*); A. Balan (CPI), (*Vadakkekara*); K. R. Narayanan (Cong.), (*Varkom*); H. Abdul Majeed (CPI), (*Varkala*); K Sivadasan (SC) (CPI), (*Varkala (R)*); P T. Chacko (Cong.), (*Vazhur*); Ponnara G. Sreedhar (PSP), (*Vilappil*); K. Kochukuttan (SC) (Cong.), (*Wadakkancherry*); C. C. Ayyappan (SC) (CPI), (*Wadakkancherry (R)*); N. K. Kunhikrishnan Nair (Cong.), (*Wynad*); V. Madura (ST) (Cong.), (*Wynad (R)*).

MADHYA PRADESH LEGISLATIVE ASSEMBLY

Constituencies : 218 (S.M. 148; D M 70); Seats : 288 (S C 43; S.T. 54), Electorate : 1,40,23,273.

Speaker, Pt. K. L. Dubey.

Deputy Speaker, Anant Sadashiv Patwardhan.

An estimate of party position is given below. Congress 232; Praja Socialist Party 14; Communist Party of India 2; Bhartiya Jan Sangh 10; Hindu Mahasabha 7; Ram Rajya Parishad 1, Independents 10; Socialist Party 8.

Madanlal (J.S.), (*Agar*); Chatrasingh Daryaosingh (ST) (Cong.), (*Alirajpur (R)*), Dr. Devisingh (Cong.), (*Alote*); Miya Ram (SC) (Cong.), (*Alote (R)*); Bhuwan Bhasker Singh (Cong.), (*Ashtagar*); Ramhit (J.S.), (*Amarpatan*), Ramniwas (Cong.), (*Ambah*); Brijbhushanprasad (Cong.), (*Ambikapur*); Prithiram Kurrey (SC) (Cong.), (*Ambikapur (R)*); Lakhanlal Gupta (Cong.), (*Arang*); Jagmohandas (SC) (Cong.), (*Arang (R)*); Ramdayalsingh (Cong.), (*Ashoknagar*); Dullichand (SC) (Cong.), (*Ashoknagar (R)*); Hargyan Singh Banhare (P.S.P.), (*Attari*); Kanheyalal Mehta (Cong.), (*Badnagar*); Manohar Singh Mehta (Cong.), (*Badnawar*); Murlidhar Bhatulal Asati (Cong.), (*Baihar*); Harisingh Bakhatsingh (ST) (Cong.) (*Baihar (R)*), Nandkishore Jasraj Sharma (Cong.), (*Balaghat*) Keshavlal Gomasta (Cong.), (*Balod*), Brijlal Verma (P S P.), (*Baloda-Bazar*), Nandas (SC) (Cong.), (*Baloda-Bazar (R)*), Swami Krishnanand Ramsaran (Cong.), (*Banda*), Chhotelal (Cong.), (*Bandhavargarh*), Ravindranath Bhargava (Cong.), (*Barghat*); Chandrika Prasad (Cong.), (*Bargi*); Virendrasingh Mottsingh (Cong.), (*Barwaha*); Gulal (ST) (J S.), (*Baruam (R)*); Rajkumar Virendra Bahadur Singh (Ind.), (*Basna*); Laxmanprasad (Cong.), (*Bemetara*), Sheolal (SC) (Cong.), (*Bemetara (R)*), Ram Kishore (S P.), (*Beohari*); Smt. Jhalkan Kumari (ST) (Cong.), (*Beohari (R)*); Bhagwan Singh (Cong.), (*Berasia*); Hari Kishan (SC) (Cong.), (*Berasia (R)*); Deepchand Singh (Cong.), (*Betul*); Mohkamsingh Lakhmichand (Cong.), (*Betul (R)*); Somdatt Sab Singh (ST) (Cong.), (*Betul (R)*); Somdatt Deo (ST) (Cong.), (*Bhainsdehi (R)*); Chakrapani Shukla (Cong.), (*Bhatapara*); Jitendra Vijay Bahadur (Ind.), (*Bhatgaon*); Moolchand (SC) (Cong.), (*Bhatgaon (R)*); Shyamsundar Das (*Bhatia*); Udairam (Cong.), (*Bhilai*); Gopal Singh (ST) (Cong.), (*Bhilai (R)*); Narsingh Rao Dixit (Cong.), (*Bhind*); Manohar Rao Jatar (Cong.), (*Bhoma*); Thakur Dipsingh (ST) (Cong.), (*Bhoma (R)*), Shakir Ali Khan (C.P.I.), (*Bhopal*); Laxmansingh (Ind.), (*Biaora*); Bareli (ST) (Cong.), (*Bichhia (R)*); Kunjilal Swarnkar (Cong.), (*Bijai-Raghogarh*); Shrimati Chanda Bai (ST) (Cong.), (*Bijai-Raghogarh (R)*); Smt. Gayatri (Cong.), (*Bijawar*); Hans Raj (SC) (Cong.), (*Bijawar (R)*); B. R. Pambhoi (ST) (Cong.), (*Bijapur (R)*); Dr. Shivdulare (Cong.), (*Bilaspur*); Pt. Shyamcharan Shukla (Cong.), (*Bindranawagarh*); Smt. Shyamkumari Devi (ST) (Cong.), (*Bindranawagarh (R)*); Rani Padmawati (Cong.), (*Birendranagar*); Rajkumari Surajkala (Cong.), (*Budni*); Abdul Kadar Siddiqui (Cong.), (*Burhanpur*); Ramkrishna (Cong.), (*Champa*); Sagarsingh Sisodia (Cong.), (*Chachaura*); Shashibhu-

shan Singh (Ind.), (*Chandrapur*); Vedram (SC) (Cong.), (*Chandrapur (R)*); Daarath (Cong.), (*Chatarpur*); Govind Das (SC) (Cong.), (*Chatarpur (R)*); Smt. Vidyawati (Cong.), (*Chhindwara*); Nokelal (SC) (Cong.), (*Chhindwara (R)*); Sukhdu (ST) (Cong.), (*Chitrakote (R)*); Kaushalendra Pratap Bahadur Singh (R.R.P.), (*Chitrakoot*); Rani Kanakkumari (ST) (Cong.), (*Chowki (R)*); Harischandra (Cong.), (*Damoh*); Sheoram (ST) (Cong.), (*Dantewara (R)*); Bala Prasad Mishra (Cong.), (*Deori*); Bhalilal (S.P.), (*Deosar*); Jagdeo Singh (ST) (P.S.P.), (*Deosar (R)*); Nandlal Joshi (Cong.), (*Depalpur*); Sajjansingh Vishnar (SC) (Cong.), (*Depalpur (R)*); Anant Sadashiv Patwardhan (Cong.), (*Dewas*); Bapulal Kishanlal (SC) (Cong.), (*Dewas (R)*); Ganeshram (Cong.), (*Dhamdha*); Purshotamdas (Cong.), (*Dhamtari*); Jhitkoo (ST) (Cong.), (*Dhamtari (R)*); Vasant S. Pradhan (H.M.), (*Dhar*); Raja Sahit Chandra Chud Prasadsingh Deo (Cong.), (*Dharmjaigarh*); Umed Singh (ST) (Cong.), (*Dharmjaigarh (R)*); Khub Chand Baghel (P.S.P.), (*Dharsiwan*); Dwarika Prasad (Cong.), (*Dindori*); Akali Basori Bhoi (ST) (Cong.), (*Dindori (R)*); Rani Jhamitkunwardevi (ST) (Cong.), (*Dondi Lohara (R)*); Dhannalal Jain (Cong.), (*Dongargaon*); Vijai Lal (Cong.), (*Dongargarh*); Bhootanath (SC) (Cong.), (*Dongargarh (R)*); Vishwanath Tamasker (P.S.P.), (*Durg*); Kishorilal (Cong.), (*Gadarwara*); Nabba (SC) (Cong.), (*Gadarwara (R)*); Vimalkumar (J.S.), (*Garoth*); Smt. Saraswati Devi Sharda (SC) (Cong.), (*Garoth (R)*); Gourishankar Shastri (Cong.), (*Ghargora*); Raja Lalit Kumar Singh V. (ST) (Cong.), (*Ghargora (R)*); Murlidhar Ghule (Cong.), (*Gird*); Smt. Sushila Devi Bhadoria (Cong.), (*Gohad*); Shyamsunder Narayan (Cong.), (*Gotegaon*); Mathuraprasad Dube (Cong.), (*Gourella*); Daulatram (Cong.), (*Guna*); Shiv Nath Prasad (J.S.), (*Gurh*); Ram Chandra A. Sarvate (C.P.I.), (Gwalior); Laxmanrao Bhikajee Naik (Cong.), (*Harda*); Smt. Gulabbai (SC) (Cong), (*Harda (R)*); Kalusingh Shersingh (Cong.), (*Harsud*); Ramsingh Galiba (ST) (Cong.), (*Harsud (R)*); Gaya Prasad (Cong.), (*Hatta*); Kadorelal (SC) (Cong.), (*Hatta (R)*); Nannelal Bhurelal (Cong.), (*Hoshangabad*); Vyanktesh Dravid (Cong.), (*Indore*); Babulal Patodi (Cong.), (*Indore City Central*); Homi F. Daji (Ind.), (*Indore City East*); Miskrilal Gangwal (Cong.), (*Indore City West*); Hariprasad Chaturvedi (Cong.), (*Itarsi*); Pandit Kunjilal Dube (Cong.), (*Jabalpur I*); Jagdishnarayan Awasthi (Cong.), (*Jabalpur II*); Jagmohandas (Cong.), (*Jabalpur III*); Maharaja Pravirchandra Deo (Cong.), (*Jagdalpur*); Dehra Prasad (SC) (Cong.), (*Jagdalpur (R)*); Lakheshwarlal Paliwal (Cong.), (*Jaujgir*); Kailashnath Katju (Cong.), (*Jaora*); Raja Vijai Bhushan Singh Deo (Cong.), (*Jashpur*), Johan (ST) (Cong.), (*Jashpur (R)*); Kamta Prasad (Cong.), (*Jatara*); Virendra Kumar (J.S.) (*Jawad*); Suraingh Mansingh (ST) (Cong.), (*Jadbua (R)*); Smt. Gangabai (ST) (Cong.), (*Jobat (R)*); Chotelal Kashiprasad (S.P.), (*Jodra*); Smt. Pratibha Devi (Cong.), (*Kanker*); Bisram (ST) (Cong.), (*Kanker (R)*); Smt. Manjulabai Wagle (Cong.), (*Kannod*); Gautam Sharma (Cong.), (*Karera*); Ramniklal Amritlal (Cong.), (*Katangi*); Banwari Lal (Cong.), (*Katghora*); Dewan Budrasharan Pratap Singh (ST) (Cong.), (*Katghora (R)*); Dharamraja Singh (R.R.P.), (*Kawardha*); Saradu (ST) (Cong.), (*Keskal (R)*); Birendrasingh (H.M.), (*Khachraud*); Ritu Parna Kishordas (Cong.), (*Kairagarh*); Shankerlal Tivari (Cong.), (*Khairalanjee*); Bhagwantrao Mandloi (Cong.), (*Khandwa*); Deokaran Balchand (SC) (Cong.), (*Khandwa (R)*); Ramakant Vishwanath Khode (Cong.), (*Khargone*); Sawaisingh (ST) (Cong.), (*Khargone (R)*); Prabhudyal Chobe (Cong.), (*Khilchipur*); Rishabh Kumar (Cong.), (*Khurai*); Bhadairam Halke (SC) (Cong.), (*Khurai (R)*); Tejlal Harischandra (Cong.), (*Kirnapur*); Motiram Odkya (SC) (Cong.), (*Kirnapur (R)*); V. Parasar (Cong.), (*Kolaras*); Soyam Joga (ST) (Cong.), (*Konta (R)*); Kashiram Tiwari (Cong.), (*Kota*); Smt. Surajkunwardevi (ST) (Cong.), (*Kota (R)*); Harirajkunwar (Cong.), (*Kotma*); Ratan Singh (ST) (Cong.), (*Kotma (R)*); Ratusingh Ramsingh (ST) (Cong.), (*Kukshi (R)*); Takhatmal Jain (Cong.), (*Kurwai*); Bhopalrao Bisoji (Cong.), (*Kurud*); Smt. Premkumari Raje (Cong.), (*Lahar*); Gokul Prasad Katraulia (SC) (Cong.), (*Lahar (R)*); Vasant Rao Weakey (ST) (Cong.), (*Lakhnadon (R)*); Ram Niwas Bangad (Cong.), (*Lashkar*); Smt. Vidayawati Chaturvedi (Cong.), (*Laundi*); Gangaprasad (R.R.P.), (*Lormi*); Nemichand (Cong.), (*Mahasamund*); Bajirao Miri (SC) (Cong.), (*Mahasamund (R)*); Ballabhdas Mahajan (Cong.), (*Maheshwar*); Sadhav Sitaram (SC) (Cong.), (*Maheshwar (R)*); Rameshwardayal Totla (Cong.), (*Mahidpur*); Durgadas Bhawandas Suryabanshi (SC) (Cong.), (*Mahidpur (R)*); Gopal Sharan Singh (Cong.), (*Maihar*); Arjun Singh (Ind.), (*Majhauli*); Sunderlal (J.S.) (*Manasa*); Ranjitsingh (ST) (H.M.), (*Manawar East (R)*); Shivbhanu (ST) (Cong.), (*Manawar West (R)*); Smt. Narayanidevi (Cong.), (*Mandla*); Shyam Sunder (Cong.), (*Mandsaur*); Brijendralal (Cong.), (*Manendragarh*); Raghuwar Singh (ST) (Cong.), (*Manendragarh (R)*); Rukmini Raman Pratap Singh (Ind.), (*Mangawan*), Marotrao Lahnu (P.S.P.), (*Masod*); Bashir Ahmad (Cong.), (*Masturi*); Ganeshram (SC) (Cong.), (*Masturi (R)*); Achutanand (Ind.), (*Mauganj*); Sahadeo (SC) (Cong.), (*Mauganj (R)*); Ramaisingh (ST) (Cong.), (*Mehedutani (R)*); Yugalkishore (P.S.P.), (*Mehgaon*); Rustomji Jal (Cong.), (*Mhow*); Smt Chandra Kala Sahai (Cong.), (*Morar*); Kunwar Yaswant Singh Kushwah (Cong.), (*Morena*); Smt. Chamelibai Sagar (SC) (Cong.), (*Morena (R)*); Anandrao Sonaji (P.S.P.), (*Multai*); Khalaksingh (H.M.), (*Mungaoli*); Ambikasan (R.R.P.), (*Mungeli*); Ramlal Ghasia (SC) (R.R.P.), (*Mungeli (R)*), Ramdas Agarwal (S.P.), (*Murwara*); Rameshwarjun (ST) (Cong.), (*Narainpur (R)*); Smt. Sarla Devi (Cong.), (*Narsimhapur*); Radhavallabha Vijayavargiya (Cong.), (*Narsingarh*); Bhanwarlal Jeewan (SC) (Cong.), (*Narsingarh (R)*); Bishnudas Mahant (Cong.), (*Nawagarh*); Sitaram (Cong.), (*Neemuch*); Lakshmi Narain (P.S.P.), (*Niwari*); Nathu Ram (SC) (Cong.), (*Niwari (R)*); Sahjoo (ST) (Cong.), (*Niwas (R)*); Kunjbihari Lal (Cong.), (*Nohata*); Udayabhanushah (ST) (Cong.), (*Pagara (R)*); Kapildeo Narayan Singh (Cong.), (*Pali*); Bhandariram (ST) (Cong.), (*Pal (R)*); Parmanand Mohanlal (Cong.), (*Panagar*); Devendra Vijay Singh (Ind.), (*Panna*); Kashiprasad (Cong.), (*Parasia*); T. Phoolbhanushah (ST) (Cong.), (*Parasia (R)*); T. N. Singh (Cong.), (*Patan*); Smt. Deva Devi (SC) (Cong.), (*Patan (R)*); Narendra Singh (Cong.), (*Pawai*); Ram Das (SC) (Cong.), (*Pawai (R)*); Brijlala Sahai (Cong.), (*Pichhore*); Raja Ram Singh (ST) (Cong.), (*Pichhore (R)*); Laxminarain (H.M.), (*Pichhore*); Lalan Singh (ST) (Cong.), (*Pushparajgarh (R)*); Ramkumar Agrawal (P.S.P.), (*Rajgarh*); Sharda Charan Tiwari (Cong.), (*Raipur*); Ramcharan Dube (Ind.), (*Rajgarh*); J. P. L. Francis (P.S.P.), (*Rajnandgaon*); Mangilal Tejsingh (ST) (Cong.), (*Rajpur (R)*); Lal Chand Narayan Singh (Cong.), (*Rampur Baghelan*), Kumari Suman Jain (Cong.), (*Ratlam*), Mansi Bhai Jaber Bhai (Cong.), (*Rehli*); Jagdish Chand Joshi (S.P.), (*Rewa*); Balmukund K. Modgal (Cong.), (*Sabalgarh*); Baboolal Mourya (SC) (Cong.), (*Sabalgarh (R)*); Mahommed Shafi Mohommed Subrati (Cong.), (*Sagar*), Rajabahadur Liladhar Singh (P.S.P.), (*Salka*), Khuman Singh (Cong.), (*Sanchi*); Raja Pratap Singh (ST) (Cong.), (*Sanchi (R)*), Jandeo Gopaldhar (Cong.), (*Saraipali*); Raja Naresh Chandra Singh (Cong.), (*Sarangarh*); Smt. Nandu Bai (SC) (Cong.), (*Sarangarh (R)*); Shankarlal Garg (Cong.), (*Sardarpur*); Shiva Nand (Cong.), (*Satna*); Vishweshwar Prasad (SC) (Cong.), (*Satna (R)*); Raichandbhai (Cong.), (Sausar), Ranchusingh (ST) (Cong.), (*Sausar (R)*), Inayatulla Dewanchand Mahajan (Jan Sangh), (*Sehore*); Umrao Singh (SC) (Cong.), (*Sehore (R)*); Barku Chowhan (ST) (Cong.), (*Seohara (R)*); Kamta Prasad Saxena (Cong.), (*Seoni*), Mahendranath Singh (Cong.), (*Seoni*), Keshavrao Yashwantrao (P.S.P.), (*Shahpur*), Pratap Bhan (Cong.), (*Shajapur*); Kishanlal (SC) (Cong.), (*Shajapur (R)*); Raghunath Bala (H.M.), (*Shamshabad*), Raj Rajendra Malojirao N. Shinde (Ind.), (*Shirpur*); Tulla Ramsagar (SC) (Cong.), (*Shirpur (R)*); Vishnucharan (Cong.), (*Shudhpur*); C. Tiwari (P.S.P.), (*Sidhi*), Kashiprasad Pande Jairam Pande (Cong.), (*Silwara*), Raja Harbhagatsingh Raja Thansingh (Ind.), (*Sihora*), Shyam Kartik (S.P.), (*Singrauli*), Smt. Champa Devi (Cong.), (*Sirmour*), Mohanlal (H.M.), (*Siron*); Bhanwarlal Jain (Cong.), (*Sitamau*), Haribhajan Singh (Ind.), (*Sitapur (R)*), Shambhu Nath (Cong.), (*Sohagpur*); Narayansingh Dangisingh (Cong.), (*Sohagpur*), Smt Ratankumari (SC) (Cong.), (*Sohagpur (R)*); Bhagirathsingh (Jan Sangh), (*Talen*); Virendra Nath Sharma (Cong.), (*Tarapur*); Mahadeo Singh (ST) (Cong.), (*Tarapur (R)*); Dr. B. B. Rai (Cong.), (*Tarsi*), Hiralal Bhabhau (J.S.), (*Susner*), Smt. Yagyseni Kumari (ST) (Cong.), (*Tanakhar (R)*), Vaishnav Singh (Cong.), (*Teonthar*); Nathulal (S.P.), (*Thandla (R)*); Ram Krishna (Cong.), (*Tikamgarh*); Dr. Shanker Dayal Sharma (Cong.), (*Udaipura*); Smt Razdan Kunwar (Cong.), (*Ujjain North*), Viswanath (Cong.), Ayachi (Cong.), (*Ujjain South*), Tulsiram (Cong.), (*Vidisha*), Hiralal Pippal (Cong.), (*Vidisha (R)*); Thansingh (Cong.), (*Warasseoni*); Maj. P. Bernard (*nominated Indian*).

MADRAS LEGISLATIVE COUNCIL

(An estimate of party strength is as follows: Congress 44, United Party 4, Independents 11, D.P.P. 1, N. D. C. 2.)

Chairman: Vacant. *Deputy Chairman:* A. M. Allapichai.

Local Authorities: (21) K. M. Desikar (Con.), M. V. Sudarsanam Naidu (Con.), A. Somasundara Reddiar (Con.), S. V. Kalyanaraman (Con.), T. Durairaj (Con.), (*South Arcot-cum-Tanjore-cum-Tiruchirapalli*); T. V. Devaraja Mudaliar (Ind.), A. K. Masilamani Chettiar (Con.), C. Perumalswami Reddi (Con.), T. Purushotham (Con.), M. Seshacheriar (Con.) (*Madras-cum-Chingleput-cum-North Arcot*), V. K. Palaniswami Gounder (Con.), S. R. P. Ponnuswamy Chettiar (Con.), P. B. K. Thiagaraja Reddiar (Con.), T. Joghee Gowder (Con.), P. Madurai Pillai (Con.), (*Salem-cum-Coimbatore-cum-Nilgiris*), T. S. Sankaranarayana Pillai (Con.), S. P. Sivasubramania Nadar (Con.), A. Chidambara Mudaliar (Con.), M. Subramania Karayalar (Con.), S. T. Adityan, (Ind.), K. T. Kosalram (Con.), (*Madurai-cum-Ramanathapuram-cum-Tirunelveli-cum-Kanya Kumari*).

Graduates' Constituency: (6) K. Balasubramania Ayyar (United Party), Dr. T. V. Sivanandam (Con.), Dr. P. V. Cherian (Con.), Dr. V. K. John (United Party), Dr. A. Lakshmanaswami Mudaliar (United Party), Dr. A. Sreenivasa (Ind.).

Teachers' Constituency: (6) Dr. A. Chidambaranathan (Ind.), G. K. Damodaran (Ind.), G. Krishnamoorthy (Ind.), John Asirvatham (Ind.), T. P. Srinivasa Varadan (Ind.), K. M. Ramaswami Gounder (Ind.).

Elected by the Members of the Legislative Assembly: (21) A. M. Allapichai (Con.), N. Annamalai Pillai (Con.), A. J. Arunachalam (Con.), T. S. Arunachalam (Con.), V. S. Balasundaram (Con.), M. Bhimarajulu (Con.), A. Gajapathi Nayagar (Con.), L. S. Karayalar (N.D.C.), T. G. Krishnamurthi (N.D.C.), P. S. Krishnaswami Ayyangar (Con.), A. Krishnaswamy Vandayar (Con.), M. [illegible] Raza Khan (United Party), Vidwan [illegible] Kannappan (Con.), B. K. Nallasamy [illegible], N. Nallasenapathi Sarkaria Manradiar [illegible], V. V. Ramaswami (Dravidian Parliamentary Party), A. Subramanyam (Con.), R. Venkataraman (Con.), V. M. Surendram (Con.), K. V. Ramaswami (Con.), P. T. Rajan (Ind.)

Nominated Members: (9) Mary G. Gayada Jadhav (Ind.), Dr. Mahomed Usman [illegible], S. Manjubhashini (Con.), V. Ramaswam Pillai (Con.), O. P. Ramaswami [illegible] (Con.), Jothi Venkatachalam (Con.), Sarangapathi Pandurangam (Con.), K. B. Sundambal (Con.).

Abbreviations: Con. Congress; Ind. Independents; D.P.P. Dravidian Parliamentary Party; N.D.C. National Democratic [illegible]

MADRAS LEGISLATIVE ASSEMBLY

Electorate: 17,551,983; Constituencies: 167 (S.M. 129, D.M. 38); Seats: 205 (S.C. 37; S.T. 1).

Speaker, Dr. U. Krishna Rao; *Deputy Speaker*, B. Bhakthavathsulu Naidu.

An estimate of party position is given below: Congress 153; Praja Socialist Party 2; Communist Party of India 4; Indian National Democratic Congress 22; Dravida Munnetra Kazhagam 15; Socialists 2; Independents Group 2; Progressive Independents Bloc 3; Independents 2.

A. R. Marimuthu (P.S.P.), (*Adirampalnam*); R. Ramamirda Thondaman (Cong.), (*Aduthurai*); Arunachala Thevar (Cong.), (*Alangudi*); Chinniah (SC) (Cong.), (*Alangudi (R)*); Veluchamy (I.N.D.C.), (*Alangulam*); Gomathisankara Deekshidar (Cong.), (*Ambasamudram*); Krishnamoorthy (Cong.), (*Ambur*); S. R. Munusami (SC) (Ind.), (*Ambur (R)*); G. Annamalai Muthuraja (Cong.), (*Andanallur*); S. Ramasami Thevar (I.N.D.C.), (*Arantangi*); S. Sadasivam (Cong.), (*Arasakurichi*); S. Khadar Sheriff (Cong.), (*Arcot*); Ramalinga Padayachi (Cong.), (*Ariyalur*); Sadayappa Mudaliar (Cong.), (*Arkonam*); B. Doraisami Reddiar (I.N.D.C.), (*Arni*); M. D. Ramasami (I.N.D.C.), (*Aruppukottai*); M. P. Subramaniam (D.M.K.), (*Attur*); Irusappan (SC) (D.M.K.), *Attur (R)*); M. A. B. Arumugasamy (Cong.), (*Authoor*); K. Marappa Goundar (Cong.), (*Avanashi*); Srimathi Anandanayagi (Cong.), (*Basin Bridge*); G. G. Gurumurthi (Cong.), (*Bhavani*); P. G. Manickam (SC) (Cong.), (*Bhavani (R)*); Samikannu Padayachi (Cong.), (*Bhuvanagiri*); A. S. Subbaraj (Cong.), (*Bodinayakanoor*); T. Karia Goundar (Cong.), (*Chengam*); K. R. Nalla Sivam (Socialists), (*Chennimalai*); P. Ramachandran (Cong.), (*Cheyyar*); G. Vaghesam Pillai (Cong.), (*Chidambaram*); Sami Sahajananda (SC) (Cong.), (*Chidambaram (R)*); Muthusami Naicker (Cong.), (*Chingleput*); Appavu (SC) (Cong.), (*Chingleput (R)*); Savitri Shanmugam (Cong.), (*Coimbatore I*); Palanisami (SC) (Cong.), (*Coimbatore II*); Marudachalam (SC) (C.P.I.), (*Coimbatore II (R)*); Smt. Lourdammal Simon (Cong.), (*Colachel*); J. Matha Gowder (Cong.), (*Coonoor*); Srinivasa Padayachi (Cong.), (*Cuddalore*); A. Senapathi Goundar (Cong.), (*Dharapuram*); M. Kandasami Kandar (Cong.), (*Dharmapuri*); M. K. Jamal Mohideen (Cong.), (*Dindigul*); Anbazhagan (D.M.K.), (*Egmore*); V. S. Manickasundaram (Cong.), (*Erode*); Krishnasami Gopalar (Cong.), (*Gandarvakottai*); N. Jangal Reddiar (I.N.D.C.), (*Gingee*); P. G. Karuthiruman (Cong.), (*Gobichettipalayam*); V. K. Kothandaraman (C.P.I.), (*Gudiyattam*); T. Manavalan (SC) (Cong.), (*Gudiyattam (R)*); Smt. Kamalambujammal (Cong.), (*Gummidipundi*); Dr. U. Krishna Rao (Speaker), (*Harbour*); P. M. Muniswamy Goundar (Cong.), (*Hosur*); M. K. Mariappan (SC) (Cong.), (*Hosur (R)*); K. Appavoo Pillai (I.N.D.C.), (*Husur*); Viswanathan (Cong.), (*Jayankondan*); Ramasubbu (Cong.), (*Kadumbur*); Sangili (SC) (Cong.), (*Kadumbur (R)*); D. S. Athimoolam (P.I.B.), (*Kadayam*); Nataraja Odayar (D.M.K.), (*Kallakurichi*); M. Anandan (SC) (D.M.K.), (*Kallakurichi (R)*); C. N. Annadurai (D.M.K.), (*Kancheepuram*); K. G. Palanisamy Goundar (Cong.), (*Kangayam*); Ramasami Pillai (I.N.D.C.), (*Kanyakumari*); M. A. Muthiah Chettiar (Cong.), (*Karaikudi*); T. M. Nallaswamy (Cong.), (*Karur*); A. Nesamony (Cong.), (*Killiyoor*); M. Alagirisamy (Cong.), (*Kodaikanal*); C. Subramaniam (Cong.), (*Kollpalayam*); Subbiah (I.N.D.C.), (*Koilpatti*); Nagaraja Monigar (Cong.), (*Krishnagiri*); M. Karunanidhi (D.M.K.), (*Kuhtalai*); Sampath (Cong.), (*Kumbakonam*); S. Lazar (Cong.), (*Lalgudi*); V. Sankaran (Cong.), (*Madurai Central*); Smt. P. K. R. Lakshmikantham (Cong.), (*Madurai East*); Venkatasubba Reddi (Cong.), (*Madurantakam*); Ellappan (SC) (I.N.D.C.), (*Madurantakam (R)*); R. Chidambara Bharathi (Cong.), (*Manamadurai*); Chinnaya Kavundar (Cong.), (*Manapparai*); T. S. Swaminatha Odayar (Cong.), (*Mannargudi*); G. Narayanasami Naidu (Cong.), (*Mayuram*); P. Jayraj (SC) (Cong.), (*Mayuram (R)*); M. Periakaruppan Ambalam (Cong.), (*Melur*); P. Kakkan (SC) (Cong.), (*Melur (R)*); Smt. D. Raghubathi Devi (Cong.), (*Mettupalayam*); Arthanareeswara Goundar (Cong.), (*Mettur*); T. L. Sasivarna Thevar (I.N.D.C.), (*Mudukulathur*); A. Perumal (SC) (I.N.D.C.), (*Mudukulathur (R)*); V. A. Muthiah (Cong.), (*Musiri*) T. V. Sannasi (SC) (Cong.), (*Musiri (R)*); C. R. Ramasamy (Cong.), (*Mylapore*); N. S. Ramalingam (Cong.), (*Nagapattinam*); Chidambaranatha Nadar (Cong.), (*Nagercoil*); Vedamanickam (Ind.), (*Nallur*); Kolanda Goundar (Cong.), (*Namakkal*); M. P. Periasami (SC) (Cong.), (*Namakkal (R)*); K. L. Ramaswamy (Cong.), (*Nambiyur*); M. G. Sankar (Cong.), (*Nanguneri*); M. D. Thiagaraja Pillai (Cong.), (*Nannilam*); M. C. Muthukumaraswamy (SC) (Cong.), (*Nannilam (R)*); S. Ramaswamy Padayachi (Cong.), (*Nellikuppam*); Thangavelu (SC) (Cong.), (*Nellikuppam (R)*); W. P. A. R. Chandrasekharan (Cong.), (*Nilakkottai*); Smt. A. S. Ponnammal (SC) (Cong.), (*Nilakkottai (R)*); B. K. Linga Gowder (Cong.), (*Odacamund*); Karuthappa Gounder (Cong.), (*Ottanchatram*); Thompson Tharmaraj Daniel (Cong.), (*Padmanabhapuram*); Lakshmipathiraj (Cong.), (*Palani*); P. S. Chinna Durai (P.S.P.), (*Palladam*); Karunagiri Muthiah (Cong.), (*Panjapatti*); Venkitachala Nattar (Cong.), (*Papanasam*); Subramaniam (S.C.) (Cong.), (*Papanasam (R)*); K. Ramchandran (I.N.D.C.) (*Paramakudi*); R. Srinivasa Ayyar (Cong.), (*Pattukkottai*); Smt. Hemalatha Devi (Cong.), (*Pennagaram*); Krishnasamy (Cong.), (*Perambalur*); Periannan (SC) (Cong.), (*Perambalur (R)*); S. Pakkirisami Pillai (Soc.), (*Perambur*); Smt. Sathiavanimuthu (SC) (D.M.K.), (*Perambur (R)*); N. K. Palanisami (C.P.I.), (*Perunturai*); N. Mahalingam (Cong.), (*Pollachi*); K. Ponnian (SC) (Cong.), (*Pollachi (R)*); S. M. Annamalai (D.M.K.), (*Pudur*); Govindaswami Naidu (Cong.), (*Ponneri*); A. V. Thomas (Cong.), (*Radhapuram*); R. Shanmuga Rajeswara Sethupati (Cong.), (*Ramnathapuram*); Chandrasekhara Nayagar (Cong.), (*Ranipet*); A. Raja Goundar (Cong.), (*Rasipuram*); Duraiswami Reddiar (Cong.), (*Saidapet*); Mariappan (Cong.), (*Salem I*); Rathmavel Gounder (Cong.), (*Salem II*); A. R. Subbiah Mudaliar (Cong.), (*Sankarankoil*); Urakavalan (SC) (Cong.), (*Sankarankoil (R)*); K. S. Subramania Goundar (Cong.), (*Sankari*); K. Gopal Koundar (I.N.D.C.), (*Sathiamangalam*); S. B. Adityan (Ind. Gr.), (*Sattangulam*); K. Kamaraj Nadar (Cong.), (*Sattur*); T. Sivagnanam Pillai (Cong.), (*Sendamangalam*); B. Bakthavathsalu Naidu (Cong.), (*Sholinghur*); C. Muthiah Pillai (Cong.), (*Sirkali*); K. B. S. Mani (SC) (Cong.), (*Sirkali (R)*); D. Subramania Rajkumar (I.N.D.C.), (*Sivaganga*); S. Ramasami Naidu (Cong.), (*Sirakasi*); M. Baktavatsalam (Cong.), (*Sriperumbudur*); K. Vasudevan (Cong.), (*Srirangam*); A. P. C. Veerabahu (Cong.), (*Srivaikuntam*); R. Krishnasami Naidu (Cong.), (*Srivilliputhur*); A. Chinnasami (SC) (Cong.), (*Srivilliputhur (R)*); Smt. Kulanthai Ammal (Cong.), (*Sulur*); A. Y. S. Parisutha Nadar (Cong.), (*Tanjore*); N. S. Sundararajan (Cong.), (*Taramangalam*); K. Sattanatha Karayalar (P.I.B.), (*Tenkasi*); N. R. Thiagarajan (Cong), (*Theni*); N. M. Velappan (SC) (Cong.), (*Theni (R)*); K. Vinayakam (Cong.), (*Thiagarayanagar*); A. V. P. Periavala Guruva Reddi (I.N.D.C.), (*Thirumangalam*); Ramiah (Cong.), (*Thirumayam*); S. Chinnakaruppa Thevar (Cong.), (*Thirupparankundram*); A. Vedaratnam (Cong.), (*Thiruthuraipundi*); V. Vedayyan (SC) (Cong.), (*Thiruthuraipundi (R)*); A. V. P. Asaithambi (D.M.K.), (*Thousand Lights*); M. A. Manickavelu (Cong.), (*Thurinjapuram*); Veerappa Kounder (I.N.D.C.), (*Tindivanam*); M. Jagannathan (SC) (I.N.D.C.), (*Tindivanam (R)*); M. S. Selvraj (Cong.), (*Tiruchendur*); T. M. Kaliannan (Cong.), (*Tiruchengode*); R. Kandasami (SC) (Cong.), (*Tiruchengode (R)*); E. P. Mathuram (Ind. Gr.), (*Tiruchirapalli I*); M. Kalyanasundaram (C.P.I.), (*Tiruchirappalli II*); S. A. M. Annamalai Odayar (I.N.D.C.), (*Tirukoliur*); Kuppusami (SC) (Cong.), (*Tirukoilur (R)*); N. V. Chokkalingam (Cong.), (*Tirukoshtiyur*); Smt. Rajathi Kunjithapatham (Cong.), (*Tirunelveli*); Somasundaram (SC) (Cong.), (*Tirunelveli (R)*); R. C. Samanna Goundar (Cong.), (*Tiruppattur*); K. N. Palanisami (Cong.), (*Tiruppur*); S. Ramakrishna Thevar (Cong.), (*Tiruvadanai*); Ekambara Mudali (Cong.), (*Tiruvallur*); Arunachalam (SC) (Cong.), (*Tiruvallur (R)*); P. U. Shanmugam (D.M.K.), (*Tiruvannamalai*); C. Santhanam (SC) (D.M.K.), (*Tiruvannamalai (R)*); R. Swaminatha Merkondar (Cong.), (*Tiruvayar*); Subbiah (Cong.), (*T. Palur*); K. S. G. Haja Shereef (Cong.), (*Triplicane*); Samuel Nadar (Con.), (*Tuticorin*); S. T. Subbhayya Gounder (P.I.B.), (*Udamalpet*); M. Muni Reddi (I.N.D.C.), (*Uddanapalli*); Kandasami Padayachi (Cong.), (*Ulundurpet*); P. K. Mookiah Thevar (I.N.D.C.), (*Usilampatti*); K. Pandiaraj (Cong.), (*Uthamapalayam*); V. K. Ramaswamy Mudaliar (I.N.D.C.), (*Uttiramerur*); T. Thiruvenkadasamy Naicker (I.N.D.C.), (*Vadamadurai*); A. Govindasamy (D.M.K.), (*Valavanur*); A. A. Rasheed (Cong.), (*Vaniyambadi*); Smt. T. S. Soundaram Ramchandran (Cong.), (*Vedasandur*); M. R. Kandasamy Mudaliar (Cong.), (*Veerapandy*); M. P. Sarathi (D.M.K.), (*Vellore*); M. William (Cong.), (*Vilavankod*); Sarangapani (Cong.), (*Villupuram*); M. Selvaraj (D.M.K.), (*Vriddhachalam*); Ramachandra Reddiar (Cong.), (*Wandiwash*); D. Dasarathan (SC) (Cong.), (*Wandiwash (R)*); M. Mayandi Nadar (Cong.), (*Washermanpet*); S. Lakshmana Goundan (Cong.), (*Vercaud*); Kolandai Gounder (ST) (Cong.), (*Vercaud (R)*).

T. P. Elumalai (SC) (Cong.), (*Ponneri (R)*).

MANIPUR TERRITORIAL COUNCIL

Constituencies: 30; Seats: 30; Electorate: 330,211 *Chairman*, Dwijamani Dev Sharma.

An estimate of party strength: Congress 17, Independents 3, Socialists 6, Communists 4.

Athuibo (Soc.), (*Aimol*); Hemam Nilamani Singh (Cong.), (*Bishenpur-Moirang*); Sorokhaibam Chourajit Singh (Cong.), (*Charangpat-Khongjom*); Paolen (Cong.), (*Churachandpur*); Elangbam Nadi Singh (Cong.), (*Hiyanglam-Sugnoo*); Md. Amzed Ali (Cong.), (*Irinbung-Yairipok-Top Chingtha*); Sinam Bijoy Singh (Cong.), (*Jiri*); Khundongbam Itocha Singh (C.P.I.), (*Kakching-Wangling*); Laisram Kulachandra Singh (Soc.), (*Keisamthong*); Kongrailatpam Borthakur Sarma (Soc.), (*Khurai*); Mairembam Kotreng Singh (Cong.), (*Kumbi-Thanga*); Tongbram Kundo Singh (C.P.I.), (*Lamlai-Keirao*); Alimuddin (Cong.), (*Lilong*); Ngaono Thoiso (Cong.), (*Mao East*); Sibo Larhao (Cong.), (*Mao West*); Yumnam Yaima Singh (Ind.), (*Nambol-Keirou*); Rishang Keishing (Soc.), (*Phaisat*); Nongthombam Ibomcha Singh (Cong.), (*Sagolband*); Athokpam Thabi Singh (C.P.I.), (*Sagolmang*); Khoianam Heitombi Singh (C.P.I.), (*Salam Khumbong-Konthoujam*); Khwairakpam Chaoba Singh (Cong.), (*Sekmai Lamsang*); Thokchom Chandrasekhar Singh (Soc.), (*Singjamei*); Kabipu Kabui (Ind.), (*Tamenglong*); Paokhohang (Cong.), (*Tengnoupal*); Yungkhom (Ind.), (*Thanlon*); Waikhom Nimaichand Singh (Ind.), (*Thoubal Chandrakhong*); Ngalangzar (Cong.), (*Ukhrul*); Hidangmayum Dwijamani Dev Sarma (Ind.), (*Tripok-Lalambung-Thangmeiband*); Thokchom Angou Singh (Soc.), (*Wangkhei Kongba*); Ningthoujam Tomchou Singh (Cong.), (*Wangoi-Mayang Imphal*); Shrimati Angnal Akim (Cong.), (*Nominated*); Miss Rajkumari Mukhara Devi (Cong.), (*Nominated*).

MYSORE LEGISLATIVE COUNCIL

Chairman : Vacant. *Dy. Chairman :* Vacant.

An estimate of party position is given below : Congress 40 ; P.S.P. 4 ; Ind. 10. *Total :* 63.

Graduates' Constituency

G. V. Anjanappa (*Mysore South*) ; M. L. Sreekantiah (*Mysore South*) ; A. N. Rama Rao (*Mysore South*) ; Smt. M. R. Lakshamma (*Mysore South*) ; Balakrishna Gangadharrao Deshpande (*Mysore North*) ; V. C. Pavate (*Mysore North*).

Teachers' Constituency

M. P. L. Sastry (*Mysore South*) ; M. C. Mahadevaswamy (*Mysore South*) ; S. Mukunda Rao (*Mysore South*) ; B. V. Banumaiah (*Mysore South*) ; Mamadapur Basawantappa Balappa (*Mysore North*) ; Keshav Tatya (*Mysore North*).

Local Authorities

C. H. Venkataramanappa (*Mysore South-East*) ; M. T. Srikantiah (*Mysore South-East*) ; T. N. Kempahonniah (*Mysore South-East*) ; R. Subbanna (*Mysore South-East*) ; J. Deviah (*Mysore South*) ; S. H. Thamniah (*Mysore South*) ; T. Venkataramanaiah (*Mysore South*) ; Y. Dharmappa (*Mysore South*) ; K. T. Shamaiah Gowda (*Mysore South-West*) ; K. V. Narasappa (*Mysore South-West*) ; K. Rangappa (*Mysore South-West*) ; K. Sanjeeva Reddy (*Mysore South-West*) ; S. C. Edke (*Mysore North-West*) ; H. F. Kattimani (*Mysore North-West*) ; D. C. Shah (*Mysore North-West*) ; G. B. Patil (*Mysore North-West*) ; P. M. Nada Gowda (*Mysore North-West*) ; L. H. Hire Goudar (*Mysore North-West*) ; Ayyangowda Lingan Gowda (*Mysore North-East*) ; K. Channabasavana Gouda (*Mysore North-East*) ; Veeranna Sharanappa Chatnalli (*Mysore North-East*).

Elected by Legislative Assembly

H. C. Boriah ; Mariswami Hirematha Gangadharswami ; B. Hutche Gowda ; M. P. Eswarappa ; K. Kanthappa Shetty ; H. Basappa, Manik Rao ; G. K. Mogali ; Motensar Hegde, Timmappa Manjappa ; Mukunda Mylarappa ; K. M. Nanjundappa ; S. Narasappa, S. S. Narayana Moorthy ; Narayanappa Kondaji, Raghavender Chari ; S. C. Sooryanarayana Chetty ; P. Thirumale Gowda ; V. S. Thimmareddy ; Smt. S. Veeramma ; M. Vellury V. Venkatappa.

Nominated

Dr. N. A. Alengar ; Tejosingh Rathod ; Dr. S. Champa ; Rumale Chennabasaviah ; L. Ramaiah, Gorur Ramaswamy Iyengar ; Syed Gousa Mohiyuddin ; Kubnur Balakrishna Rao, Dr. S. C. Nandimath.

MYSORE LEGISLATIVE ASSEMBLY

Constituencies : 179 (8 M. 150 ; D M. 29) ; Seats : 208 (S.C. 28 ; S.T. 1) ; Electorate : 99,93,935.

Speaker : S. R Kanthi. *Deputy Speaker :* L. H. Thimma Bovi.

An estimate of party position is given below : Congress 150 ; Praja Socialist Party 18 ; Communist Party of India 1 ; Scheduled Castes Federation 2 ; Peasants and Workers Party 2 ; Independents 35.

G. Anna Rao (Cong.), (*Afzalpur*) ; Chandrashekhar S. Patel (Cong.), (*Aland*) ; Ramchandra Veerappa (SC) (Cong.), (*Aland (R)*) ; J. C. Ramaswami Reddy (Cong.), (*Anekal*) ; Ramchandra Gopal Kamat (Cong.), (*Ankola*) ; Puttegowda *alias* Puttaswamygowda (Ind.), (*Arkalgud*) ; A. R. Karisiddappa (Cong.), (*Arsikere*) ; Jayawantrao Bhojrao Pawar (Ind.), (*Athani*) ; Patil Venkanagouda Hanumantgouda (Cong.), (*Badami*) ; Muranal Basappa Thammanna (Cong.), (*Bagalkot*) ; Smt. Sushilabai Hirachand Shah (Cong.), (*Bagewadi*) ; Manjayya Shetty (Cong.), (*Baindur*) ; K. V. Byregowda (Cong.), (*Bangalore North*) ; Y. Ramakrishna (SC) (Cong.), (*Bangalore North (R)*) ; A. V. Narasimhareddy (Cong.), (*Bangalore South*) ; B. Basavalingappa (SC) (Cong.), (*Bangalore South (R)*) ; E Narayana Gowda (Ind.), (*Bangarpet*) ; L. S. Venkaji Rao (Cong.), (*Basavanagudi*) ; Vithal Shitaram Patil (P.W.P.), (*Belgaum I*) ; Samaji Nagendra Omanna (P.W.P.), (*Belgaum II*) ; Sunthankar Balakrishna Rangarao (Ind.), (*Belgaum City*) ; Mandhlur Gangappa (Ind.), (*Bellary*) ; D. Ratnavarma Hegade (Cong.), (*Bellencadi*) ; B. N. Boranagowda (Cong.), (*Belur*) ; H. K. Siddiah (SC) (Cong.), (*Belur (R)*) ; D. T. Seetharama Rao (Cong.), (*Bhadravati*) ; Balwantrao (Ind.), (*Bhalki*) ; B. Sham Sunder (SC) (Ind.), (*Bhalki (R)*) ; Maqsood Ali Khan (Cong.), (*Bidar*) ; Dr. Sardar Basavraj Karbasappa Nagur (Ind.), (*Bijapur*) ; G. M. Chinnaswamy (Ind.), (*Biligere*) ; Desai Rachappa Mallappa (Cong.) (*Bilgi*) ; Jagajjeevandas Shetty (Cong.), (*Brahmavar*) ; Mahmood Shariff (Cong.), (*Broadcasy*) ; B. K. Puttaramaiah (P.S.P.), (*Channapatna*) ; A. Bheemappa Naik (Cong.), (*Challakere*) ; T. Hanumaiah (SC) (Cong.), (*Challakere (R)*) ; U. M. Madappa (P.S.P.), (*Chamarajanagar*) ; B. Rachiah (SC) (Cong.), (*Chamarajanagar (R)*) ; Smt. Lakshmidevi Ramanna (Cong.), (*Chamarajpet*) ; N. Hutchamasthygowda (Cong.), (*Chandrashekharapura*) ; Kundur Rudrappa (Cong.), (*Channagiri*) ; G. E. Hoover (Ind.), (*Chickpet*) ; C. K. Rajaiahshetty (P.S.P.), (*Chickmalenahalli*) ; S. Muni Raju (Cong.), (*Chikballapur*) ; A. Muniyappa (SC) (Cong.), (*Chikballapur (R)*) ; A. M. Basave Gowda (Ind.), (*Chikmagalur*) ; L. H. Thimma Bovi (SC) (Cong.), (*Chikmagalur (R)*) ; Kothavale Shankarrao Dadasaheb *alias* Dadoda (Cong.), (*Chikodi*) ; Veerendra Patil (Cong.), (*Chincholi*) ; T. K. Gangi Reddy (Ind.), (*Chintamani*) ; G. Sivappa (Cong.), (*Chitradurg*) ; G Duggappa (SC) (Cong.), (*Chitradurg (R)*) ; Smt. Vijaya Raghvender Rao (Cong.), (*Chitapur*) ; V. Srinivasa Shetty (P.S.P.), (*Coondapur*) ; V. P. Deenadayalu Naidu (Cong.), (*Cubbonpet*) ; K. T. Jambanna (P.S.P.), (*Dasangere*), B. Sivanna Warad (Cong.), (*Deodurg*) ; M. B. Inamati (Cong.), (*Dharwar*) ; T. Siddalingaiya (Cong.), (*Doddaballapur*) ; Gadag Kuberappa Parappa (Cong.), (*Gadag*) ; Smt. Dyavamma (Cong.), (*Gandasi*) ; Smt. Nagarathnamma (Cong.), (*Gandhinagar*) ; B. V. Desai (Cong.), (*Gangavati*) ; K H. Venkata Reddy (Ind.), (*Gauribidanur*) ; Karalingannavar Ningappa Appayya (Cong.), (*Gokak I*) ; Panchagavi Appanna Ramappa (Cong.), (*Gokak II*) ; C. J. Muckkannappa (Ind.), (*Gubbi*) ; Mohmad Ali Mehtab Ali (Cong.), (*Gulbarga*) ; Pattanashetti Madivalappa Rudrappa (Cong.), (*Guledgud*) ; Smt. K. S. Nagarathnamma (Ind.), (*Gundlupet*), M. M. Patel (Cong.), (*Hadagalli*) ; Patil Basangouda Rudragouda (Ind.), (*Hangal*) ; M. Ramappa (P.S.P.), (*Harihar*) ; M. M. J. Sadyojathappaiah (P.S.P.), (*Harpanahalli*) ; M. Danappa (SC) (P.S.P.), (*Harpanahalli (R)*) ; K. T. Dasappa (Ind.), (*Hassan*) ; Smt Mallar Shiddavva (Cong.), (*Haveri*) ; K. L. Narasimhaiah (Cong.), (*Hebbur*) ; Gubbi Shankarrao Basalingappagouda (Cong.), (*Hirekerur*) ; K. Kenchappa (P.S.P.), (*Hiriyur*) ; Y. Veerappa (P.S.P.), (*Holenarasipur*) ; Jukaku Shamsuddin Husain Saib (Cong.), (*Honavar*) ; H. S. Rudrappa (Cong.), (*Honnali*) ; A. S. Dudhya Naik (SC) (Cong.), (*Honnali (R)*) ; S. R. Ramaiah (Cong.), (*Hosakote*) ; Smt. Rukmanlamma (SC) (Cong.), (*Hosakote (R)*) ; B. S. Shankarappa (Ind.), (*Hosdurga*) ; Dr. R. Nagan Gowda (Cong.), (*Hospet*) ; Patil Mudgouda Ramanagouda (Cong.), (*Hubli*) ; Mohasin Fakaruddin Hussenab (Cong.), (*Hubli City*) ; Patil Malagouda Punagouda (Cong.), (*Hukeri*) ; Smt. Bhogale Champabai Piraji (SC) (Cong.), (*Hukeri (R)*) ; Madhav Rao (P S P.), (*Hukeri*) ; M. S. Kamtikar (Cong.), (*Humnabad*) ; Kanthi Shivalingappa Rudrappa (Cong.), (*Hungund*) ; D. Devaraj Urs (Cong.), (*Hunsur*) ; N. Rachiah (SC) (Cong.), (*Hunsur (R)*) ; Kabadi Jatteppa Laxman (SC) (Cong.), (*Indi (R)*) ; Surpur Mallappa Karabasappa (Cong.), (*Indi*) ; Jatti Basappa Danappa (Cong.), (*Jamkhandi*) ; Sharangowda Nidramayya (Ind.), (*Jewargi*) ; D. H. Rudrappa (Cong.), (*Kadur*) ; B. A. Desai (Cong.), (*Kalghatgi*) ; Shankarbhethi Rachappa Patil (Cong.), (*Kalgi*) ; Smt. Annapurna Bai Ragate (Cong.), (*Kalgumi*) ; M. Linge Gowda (P.S.P.), (*Kanakapura*) ; Kanthappa Kodinje Hegde (Cong.), (*Karkal*) ; Manjappa Ullal (SC) (Cong.), (*Karkal (R)*) ; Gaonkar Sakharam Dattatraya (Cong.), (*Karwar*) ; I. X Pinto Denis (Cong.), (*Kaup*) ; Birje Laxman Balaji (Ind.), (*Khanapur*) ; D Abdul Rashood (Cong.), (*Kolar*) ; M. C. Narasimhan (P.P.I) (*Kolar Gold Fields*) ; C M. Arumugham (S.C.F.), (*Kolar Gold Fields (R)*) ; T P Ram (Cong.), (*Kollegal*) ; Smt Kempamma (Cong.), (*Kollegal (R)*) ; Mallikarjun (Cong.), (*Koppal*) ; H. M Channabasappa (*Krishnarajanagar*) ; M K Bomme Gowda (Cong.), (*Krishnarajapet*) ; Smt V Muniyellor Vasantalata (Cong.), (*Kumta*) ; Kamalamanna Kenchappa (Cong.), (*Kundgol*) ; T N Mudalagirigowda (Cong.) (*Kunigal*) ; Smt. V. Sumangalamma (Cong.), (*Kurugodu*) ; Patil Kanthappa Bawarappa (Cong.), (*Kushtagi*) ; Bayyagowda (Cong.), (*Lingsugur*) ; H K Veerangowda (Cong.), (*Maddur*) ; Mali Mallappa (Cong.), (*Madhugiri*) ; R Channagiraiah (SC) (Cong.), (*Madhugiri (R)*) ; T P Mahesh (Cong.), (*Magadi*) ; H V Veeregowda (*Malavalli*) ; M. Mallikarjunaswamy (*Malavalli (R)*), T Parthasarathy (Ind.), (*Malur*) ; H. C. Linga Reddy (*Malur (R)*) ; G S Bommegouda (Ind.), (*Mangalore*) ; Vaikunta Baliga (Cong.), (*Mangalore II*) ; Smt Rajeshwari (Cong.), (*Manvi*) ; K Mallappa (Cong.), (*Mercara*) ; S. Nijalingappa (Cong.), (*Mirajmuru*) ; Sidhanti Pranesh Gurubhatt (Ind.), (*Muddebihal*) ; Hiralal Bandulal Shah (Cong.), (*Mudhol*) ; B. L. Narayana Swamy (Ind.), (*Mulbagal*) ; J. Narayanappa (SC) (Cong.), (*Mulbagal (R)*) ; Hulkoti Chanbasappa Siddhalingappa (Cong.), (*Mundargi*) ; K. Puttaswamy (P.S.P.), (*Mysore*) ; K. S. Suryanarayana Rao (P.S.P.), (*Mysore City*) ; A. Mohamed Sait (Ind.), (*Mysore City North*) ; T. Mariappa (Cong.), (*Nanjangud*) ; J. B. Mallaradhya, (Cong.), (*Narasimharajapura*) ; Adiveppagouda Siddangouda Patil (*Nargund*) ; Ramanagouda Marigouda Patil (Cong.), (*Navalgund*) ; Alur Hanumanthappa (Cong.), (*Nelamangala*) ; Lokasevanirathna M Hanumanthiah (SC) (Cong.), (*Nelamangala (R)*) ; Naik Balawant Dattoba (Ind.), (*Nipani*) ; G. Venkate Gowda (Ind.), (*Palayam*) ; Dr. K Nagappa Alva (Cong.), (*Panemangalore*) ; Patil Chamaiah (P.S.P.), (*Pandavapura*) ; Shankar Rao Bindoor Rao (Ind.), (*Parasgad*) ; K. M. Devish (Con.), (*Periyapatna*) ; Venkatramana Gowda (Cong.), (*Pavagada*) ; Subayya Naik (ST) (Cong.), (*Pattur (R)*) ; Vasantrao Lakhgonda (Ind.), (*Raibag*) ; Kamalakar Sampat Rao Pradhanji (SC) (S.C.F.), (*Raibag (R)*) ; Syed Kasa (Cong.), (*Raichur (R)*) ; K. Bhimanna (SC) (Cong.), (*Raichur*) ; Hanumanthaiya (Cong.), (*Ramanagaram*) ; Chandan Mahadevappa Shivabasappa (Ind.), (*Ranebennur*) ;

Patil Kallanagouda Fakiragouda (Cong.), (*Ranibennur*); Smt. Sambrani Yallawwa (SC) (Cong.), (*Ranibennur (R)*); A. J. Dodameti (Cong.), (*Ron*); Khot Balaji Govind (Ind.), (*Sadalga*); D. Mookappa (Cong.), (*Sagar*); Koujalgi Hemappa Virabhadrappa (Cong.), (*Sampgaon I*); Nagnur Mugut Sab Nabi Sab (Cong.), (*Sampgaon II*); H. Rayan Goud (Cong.), (*Sandur*); Mallappa Lingappa (Cong.), (*Serum*); J.P Sarwesh (SC) (Ind.), (*Serum (R)*); Y. Virupakshappa (Cong.), (*Shahpur*); Patil Rudragouda Chanabasangouda (Cong.), (*Shigaon*); Smt Rathnamma Madhav Rao (Cong.), (*Shimoga*); Smt. Magadi Leelavati Venkatesh (Cong.), (*Shirahatti*); Kumar Naik Venkatappa Naik (Cong.), (*Shorapur*); J. Venkatappa (Ind.), (*Sidlaghatta*); Patil Shankaragouda Yeshawantagouda (Cong.), (*Sindgi*); Basawant Rao Bassangowda (Cong.), (*Sindhanur*); T Taregowda (Cong.), (*Sira*); P Anjanappa (SC), (Cong.), (*Sira (R)*); B E. Ramaiah (Cong.), *Siruguppa*; R. M Doddmane Hegde (Cong.), (*Sirsi*); N G Narasimhegowda (P S P.), (*Sravanabelagola*); Kadidal Manjappa (Cong.), (*Srungeri*); A G. Chinche Gowda (Ind.), (*Srirangapatna*); B. R Karkera (Cong.), (*Surathkal*), Patil Kumargouda Adiveppagouda (Ind.), (*Talikot*); T R Parameshwaraiah (Cong.), (*Tarikere*); A. R. Badri Narayan (Cong.), (*Thirthahalli*); Chanbasappa Jagadevappa Ambli (Cong.), (*Tikota*); K. P. Revannasiddappa (P.S.P.), (*Tiptur*); M. Rajasekhara Murthy (Cong.), (*T. Narsipur*); G. N. Puttanna (P.S.P.), (*Tumkur*); T. Subramanya (Cong.), (*Turuvekere*); Upendra S. Nayak (P.S P.), (*Udipi*); Mrs Grace Tucker (Cong.), (*Ulsoor*); C. M. Poonacha (Cong.), (*Virajpet*); S. Kariappa (Cong.), (*Virupakshipur*); B Nadgowda (Ind.), (*Yadgir*); Alwandi Shankargowda (Cong.), (*Yelburga*).

F. W. Corbett (*Nominated Anglo-Indian*).

ORISSA LEGISLATIVE ASSEMBLY

No. of constituencies: 101 (S M. 62; D M. 39) No of seats. 140 (Res for S C 25; S.T. 29) Electorate: 79,82 341.

Speaker: Pandit Nilkantha Das. *Dy Speaker:* Jadumani Mangaraj.

An estimate of party position is given below: Congress 56; Praja Socialist Party 11; Communist Party of India 9; Ganatantra Parishad 51; Independents 13.

N Bhanj Deo (Con.), (*Anandpur*); Makara Sethi (SC), (Con.), (*Anandpur (R)*), Kumud Chandra Singh (Cong.), (*Angul*), Narendrakumar Nayak (SC), (C P I), (*Angul (R)*), Harihar Dass (C.P.I.), (*Aska*); Radhanath Rath (Cong.), (*Athgarh*); Khetramohan Panigrahy (G P), (*Athmallik*); Bhanja Deo Raja Sailendra Narayan (Cong.), (*Atul*); Sundar Mohun Hemrom (ST) (J K), (*Bahalda (R)*), Prasanna Kumar Dash (P S P.), (*Baisinga*), Panchanan Das (SC), (Cong.), (*Baisinga (R)*), Rabindramohan Das (P S P.), (*Balasore*); Baikunthanath Mohanty (P S P.), (*Balikuda*); Lokanath Patra (ST), (Cong.), (*Ballaguda (R)*); Radha Mohan Naik (ST), (G P), (*Bangriposi (R)*); Jogesh Chandra Rout (Cong.), (*Banki*); Rani Saheba Kanaklata Debi (G P), (*Baramba*); Jadumoni Mangaraj (Cong.), (*Barchana*); Nikunjabihari Singh (G P.), (*Bargarh*), Mahanand Bahadur (SC), (G P.), *Bargarh (R)*); Haribar Mohanty (P S P), (*Baripada*); Majhi Samai (ST) (Ind.), (*Baripada (R)*), Vacant (*Basta*), Lingaraj Panigrahi (Cong.), (*Berhampur*); Dandapani Das (SC), (Cong.), (*Berhampur (R)*); Satyananda Champatiray (Cong.), (*Begunia*); Nityananda Mohapatra (Ind.), (*Bhadrak*); Govinda Pradhan (C P I.), (*Bhanjanagar*); Suma Naik (SC), (C P I.), (*Bhanjanagar (R)*), Natabar Bandhoor (C P I.), (*Bhatli*); Chandrasekhar Pradhan (G P.), (*Bhawani Patna*), Karunakar Bhoi (ST), (G P.), (*Bhawani Patna (R)*), Durgasankar Das (Cong.), (*Bhograi*); Satyapriya Mohanty (Cong.), (*Bhubaneswar*); Bankabihari Das (P S. P.), (*Binjharpur*); Nirmal Munda (ST), (J K.), (*Bisra (R)*); Nanda Kishore Mishra (G P.), (*Bolangir*); Ramesh Chandra Bhoi (ST), (G P.), (*Bolangir (R)*); Arjun Naik (ST), (G P.), (*Bonai (R)*); Padma Charan Samantsinhar (Cong.), (*Brahmagiri*); Rajaballava Misra (G P.), (*Champua*); Gurucharan Naik (ST), (G P.), (*Champua (R)*); Nilamoni Routrey (Cong.), (*Chandbali*); Nandakishore Jena (SC), (Cong.), (*Chandbali (R)*); Yatiraj Praharaj (Cong.), (*Chatrapur*); Biren Mitra (Cong.), (*Cuttack City*); Rajakrishna Bose (Cong.), (*Cuttack Sadar*); Punananda Samal (SC), (Cong.) (*Cuttack Sadar (R)*); Raja Bahadur Kishore Chandra Deo Bhanja (Cong.)* (*Daspalla*), Sridhar Nayak (SC), (Cong.) (*Daspalla (R)*); Smt Rani Joyotmanjari Debi (G P.), (*Deogarh*); Thakur Jayadeb (ST), (G P.), (*Deogarh (R)*); Muralidhar Jena (Cong.), (*Dhamnagar*), Madan Mohan Patnaik (Cong.) (*Dharamsala*); Mayadhar Sinha (SC), (Cong.), (*Dharamsala (R)*); Birkishore Deo (G P.), (*Dharmagarh*), Janardan Majhi (ST), (G P.), (*Dharmagarh (R)*), Raja Shankar Pratap Singhdeo Mahindra Bahadur (G.P.), (*Dhenkanal*); Kalia Dehuri (ST) (G P.), (*Dhenkanal (R)*), Smt Anangamanjari Devi (Cong.), (*Digapahandi*), Mohan Naik (SC), (Cong.), (*Digapahandi (R)*), Pakanati Venkata Jagannatharao (Cong.), (*Dura*), Lokanath Choudhury (C.P I.), (*Erasama*), Sarangadhar Padhan (ST) (Cong.) (*G Udayagiri (R)*), Narasimho Patro (Cong.), (*Ganapur*); Sanyasi Charan Pidikaka (ST), (Cong.), (*Ganapur (R)*); Brundaban Nayak (Cong.), (*Hinjili*); Nilamani Pradhan (Cong.), (*Jagatsingh Pur*); Kandurichara Mallik (SC), (P S P.), (*Jagatsingh Pur (R)*); Gadadhar Dutta (Cong.), (*Jajpur*); Santanu Kumar Das (SC), (Cong.), (*Jajpur (R)*); Prasanna Kumar Pal (P S P.), (*Jaleswar*), Bijayakumar Pani (Cong.), (*Jarsuguda*), Manohar Naik (ST), (G P.), (*Jarsuguda (R)*), Mochiram Tiria (ST), (G P.), (*Jashipur (R)*); Haribara Misro (G P.), (*Jeypur*); Lolchano Naiko (SC), (G P.), (*Jeypur (R)*), Mohan Das (C P I.), (*Kakatpur*); Bharat Das (SC), (C P I.), (*Kakatpur (R)*); Lalsaheb Nalin Chandra Bhanja Deo (G P.), (*Karanjia*); Kishorechandra Deo (G P.), (*Kasipur*); Manik Rai Naik (SC), (G P.), (*Kasipur (R)*), Purusottam Panda (G P.), (*Katarbaga*); Dinabandhu Sahu (Cong.), (*Kendrapara*); Prahalad Malik (SC), (Cong.), (*Kendrapara (R)*), Janardan Bhanja Deo (G P.), (*Keonjhar*); Krushnachandra Mahapatra (ST), (Ind.), (*Keonjhar (R)*); Narayan Sahu (Ind.), (*Khalikote*); Harihar Singh Mardaraj Bhramarbar Ray (Cong.), (*Khandpara*); Prannath Pattnaik (G P I.), (*Khurda*), Smt. Ratnaprava Devi (G P.), (*K Nagar*); Rama Chandra Maradarajodev (Cong.), (*Kodala East*); Hariharo Das (Cong.), (*Kodala West*); Lachuman Pujari (ST), (G.P.), (*Koraput (R)*); Ram Prasad Misra (G.P.), (*Loisingha*); Madkami Guru (ST), (G.P.), (*Malkangiri (R)*); Anup Singh Deo (Cong.), (*Nawapara*); Ghasiram Majhi (ST), (Cong.), (*Nawapara (R)*); Krushnachandra Singh Manadhata (Ind.), (*Nayagarh*); Nilambar Das (Cong.), (*Nilgiri*), Sadasiba Tripathy (Cong.), (*Nowrangpur*); Harijan Miru (SC), (Cong.), (*Nowrangpur (R)*), Radhakrishna Biswasroy (Cong.), (*Omerkote*); Lal Mitrodey Singh Bariha (ST), (Cong.), (*Padampur*); Bir Bikramaditya Singh Bariha (ST), (Cong.), (*Padampur (R)*), Lakshmana Ganda (G P.), (*Padwa*), Mrutyunjoy Pal (G.P.), (*Pal-Lahara*); Nalla Kurmunaikulu (Ind.), (*Parlakimedi*); Ainthu Sahoo (G P.), (*Patnagarh*); Asharam Bhoi (ST), (G P.), (*Patnagarh (R)*); Loknath Misra (Cong.), (*Patkura*); Himansu Shekhar Padhi (Cong.), (*Phulbani*), Aniruddha Dipa (SC) (G P.), (*Phulbani (R)*); Ram Chandra Patnaik (Ind.), (*Pipli*); Gopinath Bhoi (SC), (Cong.), (*Pipli (R)*); Mallu Santa (ST), (Cong.), (*Pottangi (R)*); Haribara Behmipati (P.S P.), (*Puri*), Hardev Triya (ST), (J K.), (*Rairangpur (R)*); Shanti Prakas Oram (ST), (J K.), (*Rajanagar*); Smt. Basant Manjari Debi (Cong.), (*Ranpur*), Kamayya Mandangi (ST), (Cong.), (*Rayagada (R)*); Ram Bhuya (ST), (Cong.), (*R. Udayagiri (R)*); Pradiptakishore Das (P.S.P.), (*Salepur*), Behera Bandhara (SC), (P S P.), (*Salepur (R)*); Lakshmiprasad Misra (G.P.), (*Sambalpur*); Bhikhari Ghasi (SC), (G.P.), (*Sambalpur (R)*); Salakantha Das (Cong.), (*Satyabadi*); Anantaram Nanda (G.P.), (*Sonepur*); Daulata Ganda (SC), (G P.), (*Sonepur (R)*); Hare Krushna Mahatab (Cong.), (*Soro*); Chintanya Sethi (SC), (Cong.), (*Soro (R)*); Udit Pratap Shekhar Deo (G.P.), (*Sundergarh*); Gangadhar Pradhan (ST), (G P.), (*Sundergarh (R)*); Bijayananda Patnaik (Cong.), (*Suruda*); Pabitramohan Pradhan (Cong.), (*Talchar*); Nishamani Khuntia (P.S.P.), (*Tirtole*); Rajendra Narayan Singh Deo (G.P.), (*Tulagarh*); Mahanand Achyutanand (SC), (G.P.), (*Tillagarh (R)*); Manmohan Tudu (ST), (Cong.), (*Udala (R)*).

* Election void.

PONDICHERRY STATE REPRESENTATIVE ASSEMBLY

Elections were held in 1955 July. There are 30 members in all. An estimate of party position is: District Congress 20, People's Front 16, Independents 3.

President: M. Kamichotty Sri Parassourama Varaprasadaraonaidou.

Chandrasekara Chettiar (Con.) (*Archirackavalakupam*); Annoussamy (P.F.) (*Ariankuppam*); V. Ramalingam Pillai (Con.) (*Badrakaliamman*); Eduard Goubert (Con.) (*Bahour*); Ramalingam (Con.) (*Calapet*); Muruguswamy Clemenceau (P.F.) (*Courroussou Coupom*); Arunachalam (Con.) (*Darbarangaswarar Koil*); Thiagaraja Naicker (Con.) (*Embalam and Kalamandapam*); M. M. Hussaine (P.F.) (*Busy Street*); Y. Jagannadha Rao (Con.) (*Yanam*); M. Mohamed Yussof (Con.) (*Karikal Central*); M. Evariste Dessanna (P.F.) (*Karikal South*); K. Sheikh Dawood Maricar (Con.) (*Karikal Town North*); Gurussamy Pillai alias Somu Pillai (Cong.) (*Karai Koril Pathu*); Barathidasan (P.F.) (*Kavaikadai*); V. Ramaswamy Pillai (Con.) (*Kotucherry Muthakoral*); R. L. Purushottam Reddiar (Con.) (*Kururinattam Kariambuttur*); C. E. Bharathan (Con.) (*Mahe*); Thandapani Kounder (Con.) (*Mannadipet Town*); V. Subbiah (P.F.) (*Murugapakkam*); Arul Raj (Con.) (*Muthialpet*); P. Shanmugham (Con.) (*Nedungadu*); Govindaraju (P.F.) (*Nellitope Town*); D. Ratinasabapaddy Pillai (Con.) (*Nerary Commune*); Venkatasubba Reddiar (Con.) (*Nettapakkam Town*); Asappu Bairavasamy (Cong.) (*Oulgaret Town*); Joseph Latour (P.F.) (*Ouppalam*); Pakkir Mohammed (P F.) (*Oussoudou*); M. Padmanabhan (P F.) (*Palloor*); V. N. Purushothaman (Con.) (*Pandakkal*); K.S.V. Prasadarao Naidou (Con.) (*Yanam*); N. Sethuraman Chettiar (P.F.) (*Rajbhavan*); V. Narayanassamy (P.F.) (*Reddiarpalayam Town*); N. Ranganathan (P.F.) (*Saram and Lawspet*); Thirukamu Reddi (Con.) (*Sellipet and Soultoukeny*); U. Rangaswami Pillai (Con.) (*Thirumalarayanpattinam North*); S. Dakshinamoorthy Mudaliar (Con.) (*Thirumalrayanpattinam South*); T. Srinivasa Pillai (Con.) (*Thirumeni Alagar*); Louis Xavary (Con.) (*Villianur Town*).

PUNJAB LEGISLATIVE COUNCIL

Strength : 51.
An estimate of party strength : Congress 42 ; Independents 6 ; Jan Sangh 3.

Chairman : Sardar Kapoor Singh, B.A., LL.B.

Dy. Chairman : vacant.

Secretary : R. L. Nirola.

Asstt. Secretary : Sardar Sukhendra Singh.

Private Secretary to Chairman : Sardar Kartar Singh Mann.

Ministers : Dr. Gopi Chand Bhargava (*Legislative Assembly*) ; Mohan Lal (*Legislative Assembly*) ; Captain Rao Birendar Singh (*Local Authorities*).

Deputy Ministers : Professor Yashwant Rai (*Nominated*).

A. C. Ball (*Legislative Assembly*) ; Shrimati Balwant Kaur (*Nominated*) ; Balwant Rai Ahluwalia (*Legislative Assembly*) ; Bashir-Ud-Din (*Nominated*) ; Chaman Lal, M.A. (*Teachers'*) ; Chand Ram (*Legislative Assembly*) ; Darbari Lal Gupta (*Local Authorities*) ; Daya Krishan (*Local Authorities*) ; Des Raj (*Legislative Assembly*) ; Dr. Dina Nath Saggar (*Local Authorities*) ; Smt. Gian Kaur Vidyarthi (*Nominated*) ; Sardar Gulab Singh (*Local Authorities*) ; Sardar Gurbakhsh Singh (*Local Authorities*) ; Sardar Gurcharan Singh (*Teachers'*) ; Giani Gurdit Singh (*Legislative Assembly*) ; Hans Raj Kapur, (*Legislative Assembly*) ; Major Sardar Harinder Singh (*Legislative Assembly*) ; Hari Singh, (*Local Authorities*) ; Hukum Singh Chaudhry (*Legislative Assembly*) ; Mrs. Ila Rani Ahooja (*Graduates'*) ; Chaudhri Kalayan Singh (*Local Authorities*) ; Chaudhri Kartar Singh (*Legislative Assembly*) ; Krishna Lal (*Local Authorities*) ; Kundan Lal Ahuja (*Local Authorities*) ; Milkhi Ram (*Legislative Assembly*) ; Prem Chand Markanda Pandit (*Teachers'*) ; Pran Singh Lalpur, Sardar (*Local Authorities*) ; Premsukh Das (*Local Authorities*) ; Prithvi Singh Azad (*Legislative Assembly*) ; Mrs. Pritpal Kaur Wasu (*Nominated*) ; Raghuvir Saran Sharma (*Local Authorities*) ; Ram Chandra (*Graduates'*) ; Pandit Ram Dhan Sharma, (*Nominated*) ; Ranjit Singh Sardar, (*Local Authorities*) ; Chaudhri Sohan Ram, (*Legislative Assembly*) ; Chand Ram (*Local Authorities*) ; Sultan Singh Chandhok (*Legislative Assembly*) ; Suraj Bhan (*Graduate*) ; Chaudhri Surja Ram (*Nominated*) ; Sardar Teja Singh Namdhari (*Legislative Assembly*) ; Tek Chand, (*Local Authorities*) ; Chaudhri Uja Singh Mann (*Teachers'*) ; Miss V. G. Bhan (*Nominated*) ; Umrao Singh, Sardar (*Local Authorities*), Virendra (*Graduates'*), Vaish (*Legislative Assembly*).

Vacant (*Local Authorities*)—3.

Vacant (*Graduates'*)—1.

PUNJAB LEGISLATIVE ASSEMBLY

Constituencies : 121 (S.M. 88 ; D.M. 33). Seats : 154 (S.C. 33), Electorate : 92,08,926.

Speaker : Sardar Gurdial Singh Dhillon. *Dy. Speaker :* Chaudhri Sarup Singh.

An estimate of party position is given below : Congress 118 ; Independent and Socialist Front 18 ; Communist Party of India 5 ; Bhartiya Jan Sangh 6 ; Scheduled Castes Federation 3 ; Independents 4.

Chaudhri Sahi Ram Bishnoi (B.J.S.), (*Abohar*) ; Achhar Singh Chhina (C.P.I.), (*Ajnala*) ; Smt. Krishana Sethi (Cong.), (*Amb*) ; Dev Raj Anand (Cong.), (*Ambala Cantonment*) ; Abdul Ghaffar Khan (Cong.), (*Ambala City*) ; Sardar Sarup Singh (Cong.), (*Amritsar City Civil Lines*) ; Dr. Baldev Parkash (J.S.), (*Amritsar City East*) ; Balramdas Tandon (J.S.), (*Amritsar City West*) ; Sardar Waryam Singh (Cong.), (*Amritsar Sadar*) ; Sardar Charan Singh (SC) (Cong.), (*Amritsar Sadar (R)*) ; Chaudhri B. R. Banth (Cong.), (*Anantpur*) ; Sri Chand (Cong.), (*Bahadurgarh*) ; Sardar Kartar Singh Diwana (Cong.), (*Barnala*) ; Gorakh Nath (Cong.), (*Batala*) ; Jathedar Sohan Singh Jalalusman (Cong.), (*Beas*) ; Sardar Gurmit Singh (Cong.), (*Bhagapurana*) ; Sardar Sohan Singh (SC) (Cong.), (*Bhagapurana (R)*) ; Harbans Lal (Cong.), (*Bhatinda*) ; Ram Kumar Bidhat (Cong.), (*Bhawani*) ; Chaudhari Chambel Singh (Cong.), (*Butana*) ; Sardar Niranjan Singh Talib (Cong.), (*Chandigarh*), Attar Singh (J.S.), (*Dadri*) ; Sis Ram (SC) (J.S.), (*Dahri (R)*) ; Giani Kartar Singh (Cong.), (*Dasuya*) ; Sardar Waryam Singh (Cong.), (*Dera Baba Nanak*) ; Thakur Mehr Singh (Cong.), (*Dera Gopipur*) ; Chaudhry Hari Ram (Cong.), (*Dharamsala*) ; Sardar Harbans Singh (Cong.), (*Dharirwal*) ; Sardar Jasdev Singh (Cong.), (*Dhuri*) ; Sardar Jangir Singh (SC) (C.P.I.), (*Dhuri (R)*) ; Sardar Mehr Singh (Cong.), (*Faridkot*) ; Mani Ram Godara (Cong.), (*Fatehabah*) ; Sardar Joginder Singh (Cong.), (*Fatehgarh*) ; Chaudhri Radha Krishan (Cong.), (*Fazilka*) ; Kundan Lal (Cong.), (*Ferozepur*) ; Chaudhri Mohammed Yasin Khan (*Cong.*), (*Ferozepur Jhirka*) ; Chowdhary Lahri Singh (Cong.), (*Ganaur*) ; Dr. Bhag Singh (C.P.I.), (*Garhshankar*) ; Dasondha Singh (SC) (Cong.), (*Garhshankar (R)*) ; Multan Singh (Cong.), (*Gharaunda*) ; Bharat Singh (Ind.), (*Gohana*) ; Chajju Ram (SC) (Ind.), (*Gohana (R)*) ; Prabodh Chandra (Cong.), (*Gurdaspur*) ; Chaudhri Sunder Singh (SC) (Cong.), (*Gurhaspur (R)*) ; Rao Gajraj Singh (Cong.), (*Gurgaon*) ; Gyani Bhaktawar Singh Rai (Cong.), (*Guru Har Sahai*) ; Smt. Sarla Devi Sharma (Cong.), (*Hamirpur*) ; Rup Singh (SC) (I.S.F.), (*Hamirpur (R)*) ; Sardar Sarup Singh (Cong.), (*Hansi*) ; Sardar Dalbir Singh (SC) (Cong.), (*Hansi (R)*) ; Sumer Singh (Cong.), (*Hassanpur*) ; Balwant Rai Tayal (Cong.), (*Hissar City*) ; Smt. Sneh Lata (Cong.), (*Hissar Sadar*) ; Chaudhri Balbir Singh (Ind.), (*Hoshiarpur*) ; Chaudhri Karam Chand Sidhu (SC) (S.C.F.), (*Hoshiarpur (R)*) ; Amar Nath Vidyalankar (Cong.), (*Jagadhri*) ; Ram Parkash (SC) (Cong.), (*Jagadhri (R)*) ; Smt. Har Parkash Kaur (Cong.), (*Jagraon*) ; Smt. K. Jagdish Kaur (Ind.), (*Jaitu*) ; Abhai Singh (Cong.), (*Jatusana*) ; Sher Singh (I.S.F.), (*Jhajjar*) ; Phul Singh (SC) (C.P.I), (*Jhajjar (R)*) ; Inder Singh Singh (S.C.F.), (*Jind*) ; Bhala Ram (SC), (S.C.F.), (*Jind (R)*) ; Lal Chand (J.S.), (*Jullundur City ; North-East*) ; Jagat Narain Chopra (Ind.), (*Jullunder City South-West*) ; Smt. Om Prabha Jain (Cong.), (*Kaithal*) ; Nanhu Ram (Cong.), (*Kalanaur*) ; Amar Nath Sharma (Cong.), (*Kangra*) ; Bawa Harnam Singh (Cong.), (*Kapurthala*) ; Ram Piara (Cong.), (*Karnal*) ; Sardar Karam Singh 'Kirti' (Cong.), (*Kartarpur*) ; Sardar Gurbanta Singh (SC) (Cong.), (*Kartarpur (R)*) ; Sardar Gurwaryam Singh (Ind.), (*Khalra*) ; Raja Raghbir Singh (Cong.), (*Kulu*) ; Lala Jit Ram (Cong.), (*Kulu (R)*) ; Jaipat Rai (J.S.), (*Ludhiana City*) ; Har Bhagwan Mandgil (Cong.), (*Ludhiana North*) ; Sardar Ram Dayal Singh (Cong.), (*Ludhiana South*) ; Smt. Parkash Kaur (Cong.), (*Majitha*) ; Sardar Chanda Singh (Cong.), (*Malerkotla*) ; Sardar Parkash Singh (Cong.), (*Malout*) ; Subedar Teja Singh (SC) (Cong.), (*Malout (R)*) ; Sardar Harcharan Singh (Cong.), (*Mansa*) ; Gyani Kirpal Singh Shant (SC) (Cong.), (*Mansa (R)*) ; Sardar Jagraj Singh Gill (Cong.), (*Moga*) ; Sardar Nihal Singh (Cong.), (*Mohindergarh*) ; Rala Ram (Cong.), (*Mukerian*) ; Gurnam Das Hans (SC) (Cong.), (*Mukerian (R)*) ; Bhagat Harcharan Singh (Cong.), (*Muktsar*) ; Sardar Balwant Singh (Cong.), (*Nabha*) ; Sardar Umrao Singh (Cong.), (*Nakodar*) ; Sant Ram (SC) (Cong.), (*Nakodar (R)*) ; Chaudhri Sadhu Ram (Cong.), (*Naraingarh*) ; Roshan Lal (SC) (Cong.), (*Naraingarh (R)*) ; Devki Nandan (J.S.), (*Narnaul*) ; Sardar Hargurnanand Singh (Cong.), (*Nawanshahr*) ; Chaudhri Jagat Ram (SC) (Cong.), (*Nawanshahr (R)*) ; Maulv. Abdul Ghani Dar (Cong.), (*Nuh*) ; Sardar Darbara Singh (Cong.), (*Nurmahal*) ; Ram Chandra (Cong.), (*Nurpur Kalan*) ; Inder Singh Lehri (Cong.), (*Pakka Kalan*) ; Sardar Dhanna Singh Gulshan (SC) (Cong.), (*Pakka Kalan (R)*) ; Bakshi Partap Singh (Cong.), (*Palampur*) ; Gurudatt (Cong.), (*Palwal*) ; Chaudry Bhule Ram (SC) (Cong.), (*Palwal (R)*) ; Dr. Parma Nand (Cong.), (*Panipat*) ; Mehan Lal (Cong.), (*Pataudi*) ; Pandit Bhagirath Lal Shastri (Cong.), (*Pathankot*), Raja Bhadra Singh (Ind.), (*Patiala*) ; Sardar Narain Singh (Cong.), (*Patti*) ; Jagdish Chand (Cong.), (*Pehowa*) ; Hans Raj Sharma (Cong.), (*Phagwara*) ; Sardar Udham Singh (Cong.), (*Phillaur*) ; Ram Nath (Cong.), (*Phul*) ; Chaudhri Bhagwan Singh (S.C.F.), (*Pundri*) ; Hukam Singh (C.P.I. ; Sardar Pal Singh Roomi (Cong.), (*Rai*) ; Sardar Bhag Singh (SC) (Cong.), (*Raikot*) ; Ram Parkash (S.C.F.), (*Rajaund*) ; Sardar Ram Singh Prem (Cong.), (*Rajpura*) ; Rani Sumitra Devi (Cong.), (*Rewari*) ; Mangal Sain (J.S.), (*Rohtak*) ; Sant Sadhu Singh (Cong.), (*Rupar*) ; Master Pratap Singh (S.C.F.), (*Rupar (R)*) ; Dev Datt Puri (Cong.), (*Safidon*) ; Sri Krishna Shastri (Cong.), (*Sahibabad*) ; Bhupender Singh Mann (Cong.), (*Samana*) ; Sardar Harchand Singh (SC) (Cong.), (*Samana (R)*) ; Chaudhri Dharam Singh Rathi (C.P.I.), (*Sambhalka*) ; Suraj Bhan (I.S.F.), (*Sampla*) ; Sardar Jagir Singh (SC) (Cong.), (*Samrala*) ; Sardar Ajmer Singh (Cong.), (*Samrala (R)*) ; Rajinder Singh (Cong.), (*Sangrur*) ; Sardar Partap Singh Kairon (Cong.), (*Sardulgarh*) ; Mool Lal (P.S.P.), (*Simla*) ; Sardar Gian Singh Rarewala (Cong.), (*Sirhind*) ; Milhan Singh Lohgarh (Cong.), (*Sirhind (R)*) ; Ram Dayal Vakil (C.P.I.), (*Sirsa*) ; Kesara Ram (SC) (Cong.), (*Sirsa (R)*) ; Sri Ram Sharma (I.S.F.), (*Sonepat*) ; Sardar Gurbachan Singh Bajwa (Cong.), (*Sri Goindwal*) ; Sardar Atma Singh (Cong.), (*Sultanpur*) ; Rao Mahesh Indra Singh (Ind.), (*Sunam*) ; Sardar Pritam Singh Sahoke (SC) (Cong.), (*Sunam (R)*) ; Sardar Gurdial Singh Dhillon (Cong.), (*Tarn Taran*) ; Sardar Niranjan Singh (SC) (Cong.), (*Tarn Taran (R)*) ; Banarsi Dass (Cong.), (*Thanesar*) ; Ram Singh (SC) (Cong.), (*Thanesar (R)*) ; Suraj Mal (Cong.), (*Tohana*) ; Chaudhri Ghasi Ram Bhan (I.S.F.), (*Tosham*) ; Pandit R. K. Bharadwaj (C.P.I.), (*Una*) ; Sardar Gurdit Singh (Cong.), (*Zira*) ; Smt. Jaswant Kaur (SC) (Cong.), (*Zira (R)*).

RAJASTHAN LEGISLATIVE ASSEMBLY

Constituencies : 136 (S.M. 96 ; D.M. 40) ; Seats : 176 (S.C. 28 ; S.T. 20). Electorate : 87,44,616.

Speaker : Ram Niwas Mirdha.

Dy. Speaker : Niranjannath Acharya.

Secretary : D. Parihar.

An estimate of party position is given below : Congress 119 ; Praja Socialist Party 2 ; Bhartiya Jan Sangh 8 ; Ram Rajya Parishad 10 ; Independents 12 ; Praja Pragritishul Dal 21 ; Socialist Party 4.

Dalpat Singh (Ind.), (*Abu*) ; Madho Singh (Cong.), (*Ahore*) ; Mahendra Singh Powar (P.P.D.), (*Ajmer City East*) ; Arjan Das (Ind.), (*Ajmer City West*) ; Bhairav Lal (ST), (Cong.), (*Aklera*) (*R*)) ; Sampatraj (Cong.), (*Aklera*) ; Chotu Singh (Cong.), (*Alwar*) ; Sahdeo (Cong.), (*Amber*) ; Hari Shanker Sidhant Shastri (SC), (Cong.), (*Amber* (*R*)) ; Jai Singh Ranawat (Cong.), (*Asind*) ; Bhogi Lal Pandya (Cong.), (*Aspur*), Nathuram (ST), (Cong.), (*Bagidora* (*R*)) ; Mukti Lal Modi (Ind.), (*Bairath*) ; Dewa Ram Girasia (SC), (Cong.), (*Bali* (*R*)) ; Moti Baba Choudhary (P.P.D.), (*Bali*) ; Anope Singh (R.R.P.), (*Balotra*), Rawat Ram Nahal (SC), (Cong.), (*Balotra* (*R*)) ; Bishambhar Nath Joshi (Cong.), (*Bundi-kui*) ; Tej Mal Bapna (Cong.), (*Banera*) ; Badri Prasad Gupta (Cong.), (*Bansur*) ; Mogji Bhai (ST), (Soc.), (*Banswara* (*R*)) ; Smt. Anandi Devi Jelia (SC), (Cong.), (*Baran* (*R*)) ; Dalip Singh (Cong.), (*Baran*) ; Subedar Singh (Cong.), (*Bari*) ; Tan Singh (R.R.P.), (*Barmer*) ; Goverdhan Singh Ken (SC), (Cong.), (*Bayana* (*R*)) ; Sribhan Singh (Cong.), (*Bayana*) ; Brij Mohan Lal Sharma (Cong.), (*Beawar*) ; Sugan Chand Jain (Cong.), (*Begun*) ; Chander Singh (P.P.D.), (*Behror*) ; Hoti Lal (P.P.D.), (*Bharatpur*) ; Smt Kamla Shrotria (Cong.), (*Bhilwara*) ; Fateh Singh (P.P.D.), (*Bhim*) ; Murlidhar Vyas (Soc.), (*Bikaner City*) ; Bhairon Singh (Cong.), (*Bilara*) ; Sajjan Singh (Cong.), (*Bundi*) ; Daya Krishna Vijai (J.S.), (*Chhabra*) ; Dhanna Lal Harit (SC), (Cong.), (*Chhabra* (*R*)) ; Lal Singh Saktawat (Cong.), (*Chittorgarh*) ; Wali Mohammed (Cong.), (*Chohtan*) ; Mohar Singh (P.P.D.), (*Churu*) ; Rawat Ram (SC), (Cong.), (*Churu* (*R*)) ; Ramchandra (SC), (Cong.), (*Dag* (*R*)) ; Harishchandra (Cong.), (*Dag*) ; Madan Singh (J.S.), (*Danta Ramgarh*) ; Gajja Patel (ST), (P.P.D.), (*Dausa* (*R*)) ; Ram Dhan (Ind.), (*Dausa*) ; Motilal Chaudhry (Cong.), (*Deeduana*) ; Jugal Kishore Chaturvedi (Cong.), (*Deeg*) ; Smt. Gauri Puniya (Cong.), (*Degana*) ; Bahadur Singh (Cong.), (*Dholpur*) ; Narendra Singh (R.R.P.), (*Dudu*) ; Ladu Ram Sulaniya (SC), (R.R.P.), (*Dudu* (*R*)) ; Daulat Ram Saran (Cong.), (*Dungargarh*) ; Balmukand (ST), (P.P.D.), (*Dungurpur* (*R*)) ; Abdul Ghaffar Khan (Cong.), (*Fatehpur*) ; Prithi Raj (ST), (Ind.), (*Gangapur* (*R*)) ; Ridhi Chand Paliwal (P.P.D.), (*Gangapur*) ; Dev Nath (Cong.), (*Ganganagar*) ; Harideo Joshi (Cong.), (*Ghatol*) ; Laxman Hirat (Cong.), (*Gogunda*) ; Shiv Nath Singh (Cong.), (*Gudah*) ; Ramdan (Cong.), (*Guda Malani*) ; Sheopat Singh (P.P.D.), (*Hanumangarh*) ; Ram Kishore Vyas (Cong.), (*Hawamahal, Jaipur*) ; Bhanwarlal (Cong.), (*Hindoli*) ; Modulal (ST), (Cong.), (*Hindoli* (*R*)) ; Hukam Singh (R.R.P.), (*Jaisalmer*) ; Narpat Singh (R.R.P.), (*Jalore*) ; Hansa Ram (SC), (R.R.P.), (*Jalore* (*R*)) ; Doongarsi Dass (P.P.D.), (*Jamwa Ramgarh*) ; Ram Lal Banslwal (SC), (Cong.), (*Jamwa Ramgarh* (*R*)) ; Manak Chand Kothari (Cong.), (*Jayal*) ; Jayandra Singh (Cong.), (*Jhalrapatan*) ; Narottam Lal Joshi (Cong.), (*Jhunjhunu*) ; Anand Singh Kachhwaha (Cong.), (*Jodhpur City I*) ; Barkatullah Khan (Cong.), (*Jodhpur City II*) ; Satish Chandra Agarwal (J.S.), (*Johri Bazar, J*) ; Nathi Singh (P.P.D.), (*Kaman*) ; Jai Chand (SC), (Cong.), (*Kapasin* (*R*)) ; Bhawani Shanker Nandwana (Cong.), (*Kapasin*) ; Smt. Satwant Kaur (Cong.), (*Karanpur*) ; Umedi Lal (SC), (Cong.), (*Karauli* (*R*)) ; Brijendrapal (P.P.D.), (*Karauli*) ; Hari Bhau Upadhyaya (Cong.), (*Kekri*) ; Hazari Lal Bakolia (SC), (Cong.), (*Kekri* (*R*)), Manroop Ram Parihar (SC), (P.P.D.), (*Kharchi* (*R*)), Beena Ram Gahlot (P.P.D.), (*Kharchi*) ; Shish Ram Ola (Cong.), (*Khetri*) ; Mahadeo Prasad Banka (SC), (Cong.), (*Khetri* (*R*)) ; Purshottam Lal Sharma (Cong.), (*Kishangarh*) ; Smt. Chandra Kala (Cong.), (*Kishanpole, Jaipur*) ; Rameshwar Dayal (Cong.), (*Kotah*) ; Ram Karan Singh (J.S.), (*Kotputli*), Shri Manohar Kothari (Cong.), (*Kumbhalgarh*) ; Heera Bhai (ST), (Soc.), (*Kushalgarh* (*R*)) ; Gokul Chand (SC), (Cong.), (*Lachmangarh* (*R*)) ; Bhola Nath (Cong.), (*Lachmangarh*) ; Kishan Singh (Cong.), (*Lachmangarh*) ; Ram Niwas Mirdha (Cong.), (*Ladnu*) ; Nathu Lal Karol (ST), (P.P.D.) (*Lalsot* (*R*)) ; Prabhu Lal Purohit (R.R.P.), (*Lalsot*) ; Poonam Chand Vishnoi (Cong.), (*Luni*) ; Bhimsen (Cong.), (*Lunkaransar*) ; Gopi Sahai (ST), (Cong.), (*Mahwa* (*R*)) ; Bhornilal Meena (Jan Sangh), (*Mahwa*) ; Damodar Lal Vyas (Cong.), (*Malpura*), Lachhu Ram (P.P.D.), (*Mandawa*) ; Kalu Ram (ST), (R.R.P.), *Mandal* (*R*)) ; Shivcharan Dass (J.S.), (*Mandal*) ; Ganpati Lal Verma (Cong.), (*Mandalgarh*) ; Narain Singh (Cong.), (*Masuda*), Janardan Rai Nagar (Cong.), (*Merta*) ; Gopal Lal (Cong.), (*Merta*) ; Nathu Ram Mirdha (Cong.), (*Nagaur*) ; Jwala Prasad Sharma (Cong.), (*Nasirabad*) ; Kishan Lal Sharma (Cong.), (*Nathdwara*) ; Sri Ram Bascha (P.P.D.), (*Nawalgarh*) ; Kishanlal Shah (Cong.), (*Nawan*) ; Jetha Mal (SC), (Cong.), (*Nawan* (*R*)) ; Gyan Chand Modi (Cong.), (*Neem-Ka-Thana*) ;, Narayan Lal (SC), (Cong.), (*Neem-Ka-Thana* (*R*)) ; Niwas Sharda (Cong.), (*Nimbahera*) ; Dharampal Panwar (SC), (Cong.), (*Nohar* (*R*)) ; Ram Kishan Bhambhu (Soc.), (*Nohar*) ; Girdhari Lal (P.P.D.), (*Nokha*) ; Roopa Ram (SC), (Ind.), (*Nokha* (*R*)) ; Parsh Ram (Cong.), (*Osian*), Mool Chand (Cong.), (*Pali*) ; Vidyasagar (Cong.), (*Phalasia*), Kesari Singh (R.R.P.), (*Phalodi*) ; Suraj Mal (SC), (R.R.P.), (*Phalodi* (*R*)) ; P. K Choudhary (Cong.), (*Phulera*) ; Smt. Sumitra (Cong.), (*Pilani*) ; Ram Narayan Verma (ST), (J.S.), (*Pipalda* (*R*)) ; Rikhab Chandh Dhariwal (Cong.), (*Pipalda*) ; Amra Meena Rawat (ST), (Cong.), (*Pratapgarh* (*R*)) ; Amritlal Payak (Cong.), (*Pratapgarh*) ; Smt. Prabha Mishra (Cong.), (*Pushkar*) ; Shanker Lal (Cong.), (*Raipur*) ; Chuni Lal (Cong.), (*Raisinghnagar*) ; Raghubir Singh (R.R.P.), (*Rajgarh*) ; Hari Kishan (ST), (Cong.), (*Rajgarh* (*R*)) ; Seth Mahendra Singh (Ind.), (*Rajakhera*) ; Niranjan Nath Acharya (Cong.), (*Rajsamand*) ; Smt. Ganga Devi Datta (Cong.), (*Ramgarh*) ; Mangal Singh (R.R.P.), (*Raniwara*) ; Kishana Ram (P.P.D.), (*Ratangarh*) ; Bheekabhai (ST), (Cong.), (*Sagwara* (*R*)) ; Phoola Bhai (ST), (Cong.), (*Salumber* (*R*)) ; Sohanlal Bhatnagar (Cong.), (*Salumber*) ; Lakshmi Chand (R.R.P.), (*Sanchore*) ; Devilal (Cong.), (*Sarada*) ; Chandan Mal Baid (Cong.), (*Sardar-Shahar*) ; Abid Ali (Cong.), (*Sawai Madhopur*) ; Mangi Lal (SC), (Cong.), (*Sawai Madhopur* (*R*)) ; Kana Ram (SC), (Cong.), (*Shahpura* (*R*)) ; Ram Prasad Ladha (Cong.), (*Shahpura*) ; Jagdish Prasad Mathur (J.S.), (*Sikar*), Ramdeo Singh (Cong.), (*Singrawat*) ; Mohabbatsingh (Cong.), (*Sirohi*), Veera Ram (SC), (Ind.), (*Sirohi* (*R*)), Teja Ram Gahlot (Cong.), (*Sojat*) ; Bhairon Singh (J.S.), (*Sri Madhopur*) ; Kumari Shanno Devi Sharma (Ind.), (*Sujangarh*) ; Rajaram (Cong.), (*Suratgarh*) ; Ghasi Ram Yadav (Cong.), (*Tijara*) ; Sampat Ram (SC), (Cong.), (*Tijara* (*R*)), Narain Singh (Cong.), (*Tonk*) ; Laloo Ram (SC), (Cong.), (*Tonk* (*R*)) ; Mohanlal Sukhadia (Cong.), (*Udaipur*) ; Sardar Singh (R.R.P.), (*Uniara*) ; Gulabsingh (Cong.), (*Vallabhnagar*) ; Hari Prasad Yadav (SC), (Cong.), (*Vallabhnagar* (*R*)) ; Tej Pal (SC), (Cong.), (*Weir* (*R*)) ; Raja Mansingh (P.P.D.), (*Weir*).

TRIPURA TERRITORIAL COUNCIL

Seats : 30.

Chairman, Sachindra Lal Singh.

Sachindra Lal Singh (*Agartala Sadar I*) ; Sonathan Sarkar (*Agartala Sadar II*) ; Sudan Chandra Deb Barma (*Agartala Sadar III*) ; Krishnadas Bhattacharjee (*Agartala Town I*) ; Tarit Mohon Das Gupta (*Agartala Town II*) ; Upendra Kumar Roy (*Belonia*) ; Mahendra Deb Barma (*Birganj*) ; Sirajul Hoque Choudhury (*Bishalgarh*) ; Aghore Deb Barma (*Charilam Constituency*) ; Karunamoy Nath Chaudhury (*Dharmanagar North*) ; Gaya Prasad Tribedi (*Dharmanagar South*) ; Padma Kumar Rangkhal (*Dumbarnagar*) ; Gokulcharan Sinha (*Fatikroy*) ; Manindra Lal Bhowmik (*Kailasahar*) ; Rabindra Chandra Deb Barma (*Kalyanpur*) ; Sunil Chandra Dutta (*Kamalpur*) ; Rai Prasad Choudhury (*Kanchanpur*) Nripendra Kumar Chakraborty (*Khowai*) ; Dharma Roy Deb Barma (*Kulaihour*) ; Mahammed Abdul Wazid (*Kurti*) ; Promode Ranjan Das Gupta (*Mohanpur*) ; Hinra Aung Mag (*Muhuripur*) ; Hemanta Deb (*Old Agartala*) ; Kumud Bandhu Bhattacharyya (*Radhakishorepur*) ; Kalipada Banerjee (*Sabroom*) ; Ershad Ali Choudhury (*Salgarh*) ; Atikul Islam (*Sonamura North*) ; Monchor Ali (*Sonamura South*) ; Bir Chandra Deb Barma (*Takarjala*) ; Ram Charan Deb Barma (*Teliamura*).

Smt. Basana Chakraborty (*Nominated*) ; Ghanashyam Dewan (*Nominated*).

UTTAR PRADESH LEGISLATIVE COUNCIL

Strength : 108.

Chairman : Nizam Uddin.

Secretary : P. S. Pachawri.

Elected by Legislative Assembly

Badri Prasad Kacker ; Balak Ram Vaish ; Mahfuz Ahmed Kidwai ; Algu Rai Shastri ; Kunwar Guru Narain ; Kedar Nath Khetan ; Khushal Singh ; Krishna Chandra Joshi ; Lalta Prasad Sonakar ; Kunwar Mahabir Singh ; Pratap Chandra Azad, M.A. ; Puran Chand Vidyalankar ; Ram Narain Pande, M.A., LL.B. ; Ram Nandan Singh ; Uma Shanker Singh ; Ishaq Sambhali ; Ajay Kumar Basu ; Smt. Shanti Devi Agarwal ; Smt. Shanti Devi ; Nizamuddin ; Prithvi Nath ; Smt. Savitri Shyam ; Naurang Singh ; Mohammad Sahid Fakhiri ; Abdus Salam Shah ; Dr. A. J. Faridi ; Maharaj Singh ; Jagdish Prasad Dwivedi ; Deep Narain Verma ; Shankar Rao ; Raja Ram Shastri ; Ram Kumar Shastri ; Ram Dhari Pandey ; Smt. Vidya Vati Rathor ; Smt. Shakuntala Srivastava ; Shafiq Ahmad Khan ; Shiva Narain ; Smt. Shivarajwati Nehru ; Har Govind Singh.

Graduates (West)

Dr. Ishwari Prasad, M.A., D. Litt. ; Virendra Swarup ; Joti Prasad Upadhyay ; Chaudhri Shiva Nath Singh ; Devendra Swarup.

Graduates (East)

Shiva Prasad Sinha ; Pushkar Nath Bhatt ; Nirmal Chandra Chaturvedi ; Kripa Shankar Hajela.

Teachers (West)

Dr. Piare Lal Srivastava; Kanhaiya Lal Gupta; Laxmi Narayan Dixit; Madan Mohan.

Teachers (East)

Shiva Kumar Lal Srivastava; Hirdaya Narayan Singh; Shyam Behari Viragi; Rameshwar Singh; Harikrishna Awasthi.

Meerut Local Authorities

Shugan Chand; Saktu Mal; Pitamber Das; Telu Ram; Madan Mohan Lal; Mahmood Aslam Khan.

Rohilkhand Local Authorities

Abdur Rauf; Onkar Singh; Keshav Datt; Pyare Lal; Indra Singh Nayal; Ram Ghulam; Babu Abdul Majid; Ram Lakhan.

Agra Local Authorities

Nawab Singh; Prem Chandra Sharma; (Hakim) Brij Lal Verman; Abdul Shakoor Najmi; Jagdish Chandra Verma.

Lucknow Local Authorities

Smt. Kudsia Begam; Kunwar Rananjaya Singh; Tij Narain Trivedi; Ram Nath; Jamilur Rahman Kidwai, B.Sc., LL.B.; Lal Suresh Singh; Ram Kishore Rastogi; Banshi Dhar Shukla.

Allahabad Local Authorities

Shiv Nath Katju; Raghunath Vinay Dhulokar; Nawal Kishore; Chiranji Lal Pa... Banwari Lal; Laloo Ram Dwivedi.

Varanasi Local Authorities

Jagranath Acharya; Girdhari Lal; Tri... Paramatma Nand Singh; Jai Bahdur S... Ram Surat Singh; Madho Prasad Tripathi.

Nominated

Smt. Mahadevi Verma; Dr. B. B... Rai Uma Nath Bali; Jagdish Chandra ... Smt. Tara Agarwal; Syed Mohammad ... Vacant; Maharaj Kumar Dr. Vijay of ... nagram, LL.D.; Vacant; Vacant, ... Mukherjea, M.Sc., T. Dip. (Lond.); Vacant

UTTAR PRADESH LEGISLATIVE ASSEMBLY

Constituencies: 341 (S.M. 252; D.M. 89); Seats: 430 (S.C. 89); Electorate: 3,47,66,896.

Speaker, A. G. Kher; *Dy. Speaker*, R. N. Tripathi.

An estimate of party position is given below: Congress 287; Praja Socialist Party 46; Socialists 25; Communist Party of India 8; Bharatiya Jan Sangh 16; Independents 5; I.P.L.P. 39; Vacant 5.

Vacant, (*Afzalgarh*); Jagbir Singh (P.S.P.), (*Ajeta*); Adi Ram Singhal (Cong.), (*Agra City I*); Ambesh Chatrapati (SC) (Cong.) (*Agra City II (R)*); Deokinandan Vibhav (Cong.), (*Agra City II*); Raj Narain (Cong.), (*Ahraura*); Balwan Singh (Soc.), (*Akbarpur*); Devi Prasad (Ind.), (*Akbarpur*); Smt. Ram Rati Devi (SC) (Cong.), (*Akbarpur (R)*); Kalyan Chandra Mohley *alias* Chhunan Guru (P.S.P.), (*Allahabad City South*); Kailash Narain Gupta (Cong.), (*Allahabad City North*); Bhup Kishore (I.P.L.P.), (*Aligan*); Anant Ram Verma (Cong.), (*Aligarh*); Govind Singh (J.S.), (*Almora*); Rama Kant Singh (Cong.), (*Ameth*); Ram Kumar (Ind.), (*Amroha*); Madan Gopal (Cong.), (*Amsin*); Din Dayal (Cong.), (*Anupshahr*); Dharam Singh (Cong.), (*Anupshahr (R)*); Nawal Kishore (Con.), (*Aonla*), Smt. Amola Devi (Cong.), (*Atheha*); Nek Ram Sharma (Cong.), (*Atrauli*); Padmakar P.S.P.), (*Atraulia*); Bhajan Lal (Soc.), (*Auraiya*); Shukh Lal (SC) (Cong.), (*Auraiya (R)*); Bisram (P.S.P.), (*Azamgarh*); Ram Sanehi Bhartiya (Cong.), (*Baberu*); Chandrika Prasad (Cong.), (*Bachhrawan*); Rameshwar Prasad (SC) (Cong.), (*Bachhrawan (SC)*), Ghanayam (I.P.L.P.), (*Badrinath*), Raja Mahendra Rimdaman Singh (I.P.L.P.), (*Bah*); Raghubir Singh (Cong.), (*Baghpat*); Birendra Bikram Singh (I.P.L.P.), (*Bahraich South*), Zargham Haider (P.S.P.), (*Bahraich North*); Ram Murti (Cong.), (*Bahera*), Budhi Singh (P.S.P.), (*Bahjoi*); Gauri Shanker (P.S.P.), (*Ballia*); Din Dayal Karun (SC) (Cong.), (*Balrampur*); Dashrath Prasad (SC) (J.S.), (*Balrampur (R)*); Ramesh Chand (Cong.), (*Barsathi*); Mohammad Husain (Cong.), (*Bareilly Cantonment*); Jagdish Saran Agarwal (Cong.), (*Bareilly City*); Nattha Ram (SC) (Soc.), (*Bara Banki (R)*); Bhagauti Prasad (Soc.), (*Bara Banki*); Abdul Sami (Cong.), (*Barauna*); Depankur Acharya (I.P.L.P.),* (*Baraut*); Udai Shankar (Cong.), (*Basti*); Ram Lakhan Misra (Cong.), (*Basti West*); Pahalawan Singh (Cong.), (*Banda*); Prabhoo Dayal (Cong.), (*Banganga West*); Mohd. Sulaiman (Cong.), (*Banganga East*); Obaidur Rahman (Cong.), (*Basti East*); Soban Lal Dhusiya (Cong.), (*Basti East (R)*); Ganesh Prasad (Cong.), (*Banagaon*); Shrimati Jasoda (SC) (Cong.), (*Banagaon (R)*); Sheo Mangal Singh (Cong.), (*Banadih West*); Ram Lachhan (Cong.), (*Banadih East*); Bhagwati Singh Visharad (P.S.P.) (*Bhagwant Nagar*); Ghasi Ram (SC) (Cong.), (*Bharthana (R)*); Meharban Singh (Cong.), (*Bharthana*); Bhagwati Prasad (Cong.), (*Bhanwapar*); Vacant (*Bhawan*); Vishal Singh (Cong.), (*Bhitauli*); Ram Saroop (Soc.), (*Bhognipur*); Ganesh Chandra (Cong.), (*Bhongaon*); Awdhesh Chandra Singh (Cong.), (*Bhojpur*); Smt. Chandrawati (Cong.), (*Bijnor*); Narain Das (SC) (Cong.), (*Bikapur West (R)*); Brij Basi Lal (Cong.), (*Bikapur West*), Awadesh Pratap Singh (I.P.L.P), (*Bikapur East*); Chandrahas Misra (Cong.), (*Bilgram*); Abdul Rauf Lari (I.P.L.P.), (*Binaikpur*), Suresh Prakash Singh (Cong.), (*Biswan*), Ganesh Lal (SC) (Cong.), (*Biswan (R)*); Jagdish Narain (Cong.), (*Bilari*); Mahi Lal (SC) (Cong.), (*Bilari (R)*); Smt. Brij Rani Devi (Cong.), (*Bilhaur*), Murli Dhar (SC) (Cong.), (*Bilhaur (R)*); Gajendra Singh (P.S.P.) (*Budhana*); Kesho Ram (SC) (Cong.), (*Bisauli (R)*); Shiv Raj Singh (Cong.), (*Bisauli*); Tika Ram (Soc.), (*Budaun*), Behari Lal (SC) (P.S.P.), (*Busalpur (R)*); Munendra Pal Singh (P.S.P.), (*Busalpur*); Raboo Ram (Cong.), (*Bhojpura*); Raghuraj Singh (P.S.P.), (*Bulandshahr*); Qamruddin (Con.), (*Budhana*); Gokul Prasad (SC) (Cong.), (*Chail (R)*); Syed Muzaffar Hasan (Cong.), (*Chail*); Ramplapati Tripathi (Cong.), (*Chandauli*); Ram Lakhan (SC) (Cong.), (*Chandauli (R)*); Nardeo Singh (I.P.L.P.), (*Chandpur*); Hamid Ullah Khan (Cong.), (*Charda*); Ramhet Singh (Cong.), (*Chhata*); Kotwal Singh Bhadoria (P.S.P.), (*Chhibramau*); Smt. Kailashpati (Cong.), (*Chillupar*); Raj Kumar (Cong.), (*Chunar*); Smt. Satyawati (Cong.), (*Dadri*), Sheo Shankar Singh (I.P.L.P.), (*Deoband*); Mohan Singh (Cong.), (*Danpur*); Kr. Mahmood Ali Khan (Cong.), (*Dasna*); Harish Chandra Singh (Cong.), (*Datagnaj*); Himmat Singh (J.S.), (*Debai*); Shiva Ram (Cong.), (*Derapur*); Yashpal Singh (I.P.L.P.), (*Deoband*); Hardeva (SC) (Cong.), (*Deoband (R)*); Brij Bhushan Saran (Cong.), (*Dehra Dun*); Smt. Vinay Laxmi (Cong.), (*Deoprayag*); Mohammad Faruq Chisti (Cong.), (*Deoria North*); Deep Narain (Cong.), (*Deoria South*); Khub Singh (Cong.), (*Dhampur*); Girdhari Lal (SC) (Cong.), (*Dhampur (R)*); Jagannath Prasad (P.S.P.), (*Dhaurehra*); Baleshwari Prasad Singh (I.P.L.P.), (*Domariaganj South*); Smt. Rajendra Kishori (Cong.), (*Domariaganj North*); Ram Nath Pathak (Cong.), (*Duaba*); Ganga Prasad (I.P.L.P.), (*Etah*); Bhuvanesh Bhushan (J.S.), (*Etawah*); Ganga Dhar (SC) (Cong.), (*Etmadpur (R)*); Ram Singh (Soc.), (*Etmadpur*); Madan Mohan (Cong.), (*Faizabad*); Smt. Dulara Devi (SC) (Cong.), (*Fakharpur (R)*); Partab Bahadur Singh (I.P.L.P.), (*Fakharpur*); Nathu Singh (Cong.), (*Faridpur*); Sunder Lal (SC) (Cong.), (*Faridpur (R)*); Ram Kishan (Cong.), (*Farrukhabad*); Lakshmi Narain Bansal (Cong.), (*Fatehabad*); Sheoraj Bali Singh (Cong.), (*Fatehpur*); Smt. Sukhrani (SC) (Cong.), (*Fatehpur (R)*); Vishwshwara Nand Swami (P.S.P.), (*Fatehpur Sikri*); Jagannath Lahari (I.P.L.P.), (*Firozabad*); Jagmohan Singh (Cong.), (*Ganga Salan*); Shri Niwas (Cong.), (*Gangiri*); Lachman Rao Kadam (Cong.), (*Garotha*); Nageshwar Prasad (Cong.), (*Gatwara*); Jwala Prasad (SC) (Cong.), (*Ghatampur (R)*); Brij Behari ... (Cong.), (*Ghatampur*), Teja Singh ... (*Ghaziabad*); Palbar Ram (I.P.L.P.), ... Jaideo Singh (P.S.P.), (*Ghazipur*); ... Rai (I.P.L.), (*Ghosi*); Jugal Kishore ... (*Goverdhan*), Ram Abhilakh (J.S.), ... (*Gonda North*), Raghu Ram (I.P.L.P.), ... Ganga Prasad (SC) (Cong.), (*Gonda South*); ... Rajendra Singh (J.S.), (*Gonda*); Mata ... (Cong.), (*Gopalpur*); Istifa Hussain ... (*Gorakhpur*); Jamuna Singh (P.S.P.), ... naur); Rochan Ram Gupta (Cong.), ... B. Vechan Ram (SC) (Cong.), (*Gursa...*); Jang Bahadur (Soc.), (*Hadersiri*); ... Behari Lal (SC) (Soc.), (*Hadoria*); ... Surendra Dutt Bajpai (Cong.), (*Hapur*); Latif Ali Khan (Cong.), (*Hapur*), Ved... (Cong.), (*Hapur (R)*), Bulaqi Ram (SC) ... (*Hardoi (R)*), Mahesh Singh (Cong.), ... Shanti Prajnana Sharma (Cong.), ... Jai Gopal (Cong.), (*Harora*), Smt. Sha... Devi (SC) (Cong.), (*Harora (R)*), Ram ... (Cong.), (*Harraiya West*), Sita Ram ... (Cong.), (*Harraiya East*), Bhikha ... (P.S.P.), (*Hasanganj (R)*), Sajwan ... (*Hasanganj*), Jagdish Prasad (Cong.), ... pur); Srikhan Lal (SC) (Cong.), (*Hasanpur*); Surya Bali (Cong.), (*Hata*), Nand Kis... Vashishta (Cong.), (*Hathras*), Hardeo ... (SC) (Cong.), (*Hathras (R)*), Ram ... Cong.), (*Hastinapur*), Vacant (*Ha...*); Kishore (Cong.), (*Ikauna*), Lal Sahib ... Lal (Cong.), (*Ikauna*); Kailash ... (Cong.), (*Islamnagar*), Gaya Bux ... Hardayal Singh (Soc.), (*Jalalabad*); Narain Tiwari (P.S.P.), (*Jalaun*), ... (SC) (Cong.), (*Jalaun (R)*); Raghu ... (P.S.P.), (*Jalesar*); Dev Narain ... (*Jamaur*); Ahmad Baksh (Cong.), ... Ram Das (SC) (Cong.), (*Jansath (R)*), Ram Swarup (Cong.), (*Jasrana*), Ale ... (*Jaswant Nagar*), Yadvendra Dutt ... (*Jaunpur*); Said Ahmad (Cong.), ... Atma Ram Ram Govind Kher (Cong.), ... Kashi Prasad (Cong.), (*Kadipur*), ... (SC) (Cong.), (*Kadipur (R)*); Sultan ... (Cong.), (*Kaimganj*); Hukum Singh ... (*Kairanganj*); Gharib Das (SC) (P.S.P.), (*Kairanganj (R)*); Virendra Shah Ju Deo (I.P.L.P.), ... Chittar Singh (Cong.), (*Kanch*); Deoki ... (P.S.P.), (*Kannauj (R)*); Hori Lal (P.S.P.), (*Kannauj*); Uma Shankar (Cong.), ... *City I*); Brahma Datta Dixit (Cong.), ... *City II*); S. A. Hasan (Cong.), (*Kanpur ... III*); S. G. Datta (Cong.), (*Kanpur City II*), ... Lal Rohatgi (Cong.), (*Kanpur City ...*), ... Lal (Soc.), (*Kanpur Rural*); Jhondi ... Singh (Cong.), (*Kanth*); Aziz Imam ... (*Kanth*); Ram Kishim (SC) (Cong. ... (*R*)); Bishwanath Singh Gautam ... (*Karanda*); Smt. Kamal Kumari ... (*Karchana*); Nathu Singh (P.S.P.), ...

* Election void.

Ram Din (SC) (P.S.P.), (*Karhal (R)*); Jagpat Singh (Cong.), (*Karwi*); Smt. Sia Dulari (SC) (Cong.), (*Karwi (R)*); Lakshman Datt (Cong.), (*Kanhipur*); Kali Charan (Cong.), (*Kasganj*); Raj Behari Singh (Cong.), (*Kaswar Raja*); Raj Narain Singh (Soc.), (*Kaswar Sarkari*); Loknath (Cong.), (*Katehar*); Narendra Singh (Cong.), (*Kedarnath*); Ram Samjhawan (SC) (Cong.), (*Kerakat (R)*); Lal Bahadur (Cong.), (*Kerakat*); Charan Singh (Cong.), (*Kotana*); Mahabir Prasad Shukla (Cong.), (*Kewai*); Vasudeo (Cong.), (*Khaga*); Tembreshwari Prasad *alias* Bacheha Saheb (J.S.), (*Khairabad*); Sri Krishan Dutt Paliwal (I.P.L.P.), (*Khairagarh*); Virendra Verma (Cong.), (*Khalilabad*); Smt. Genda Devi (SC) (Cong.), (*Khalilabad (R)*); Raja Ram Sharma (Cong.), (*Khalilabad*); Shabbir Hasan (Cong.), (*Khajuha*); Room Singh (Soc.), (*Khera Bajehra*), Sheo Prasad Nagar (P.S.P.), (*Khera*); Gopali (SC) (Ind.), (*Kharja (R)*); Chattar Singh (Soc.), (*Kharja*); Jageshwar (SC) (Cong.), (*Kishanpur (R)*); Raghunath Sahai (Cong.), (*Kishanpur*); Hari Singh (SC) (Cong.), (*Kithore (R)*); Smt. Sharadha Devi (Cong.), (*Kithore*); Ram Prasad Deshmukh (SC) (Cong.), (*Koil (R)*); Mohan Lal Gautam (Cong.), (*Koil*); Udal (C.P.I.), (*Koladah*), Rukn Uddin Khan (Cong.), (*Konhdaur*); Manohata (Cong.), (*Kopachit*); M. A. Latif Nowani (Cong.), (*Kopaganj*); Gaya Prasad (SC) (Soc.) (*Kunda (R)*); Nand Ram (Soc.), (*Kunda*), Pratap Bhan Prakash Singh (I.P.L.P.), (*Laharpur*), Ramanath Khera (I.P.L.P.), (*Lalitpur*), Gajju Ram (SC) (Cong.), (*Lalitpur (R)*); Tej Bahadur (Ind.), (*Lalganj*); Bhani Ram (SC) (Cong.), (*Lalganj (R)*), Smt Prabhawati Devi (Cong.), (*Lambhua*); Ram Prasad (Cong.), (*Lansdowne*); Basant Lal (SC) (Cong.), (*Lucknow Cantonment (R)*); Shiam Manohar Misra (Cong.), (*Lucknow Cantonment*), Mahavir Prasad Srivastava (Cong.), (*Lucknow City Central*); Lalloki Singh (P.S.P.), (*Lucknow City East*), Syed Ali Zahir (Cong.), (*Lucknow City West*), Rauf Jafri (Cong.), (*Machhlishahr*), Keshbhan Rai (Cong.), (*Maghar*), Babloo Singh (Ind.), (*Mahaban*), Kamta Prasad Vidyarthi (Cong.), (*Maharich*), Brij Gopal (Cong.), (*Mahoban*), Mohan Lal (SC) (Cong.), (*Maholi (R)*), Amar Nath (I.P.L.P.), (*Maharajganj*), Duryodhan (SC) (I.P.L.P.), (*Maharajganj (R)*), Murli Dhar (SC) (Cong.), (*Mahal (R)*), Ram Bachan (Cong.), (*Mahal*), Dhanush Dhari (Cong.), (*Mahuli*), Mahkham Singh (J.S.), (*Mainpuri*); Ram Pal Tiwedi (Cong.), (*Malihabad*); Keshav Pandey (Cong.), (*Maniram*); Jawahar Lal (SC) (Cong.), (*Manjhanpur (R)*); Smt. Henwati Nandan Bahuguna (Cong.), (*Manjhanpur*), Raghuvendra Pratap Singh (I.P.L.P.), (*Mankapur*), Lakshmi Raman Acharya (Cong.), (*Mat*), Shyam Lal (SC) (Cong.), (*Mat (R)*); Sri Nath (Cong.), (*Mathura*), Smt Tara Devi (Cong.), (*Mau*); Sudama Prasad Goswami (Cong.), (*Mau*); Smt. Baiti Bai (SC) (Cong.), (*Mau (R)*); Smt. Rajendra Kumari (P.S.P.), (*Maudaha*), Smt. Prakash Wati Sud (Cong.), (*Meerut Cantonment*), Kailash Prakash (Cong.), (*Meerut City*); Jokhai (SC) (Cong.), (*Meja (R)*); Mangala Prasad (Cong.), (*Meja*); Amresh Chand (Cong.), (*Mirzapur*); Avdhesh Kumar (Soc.), (*Mirzkh*); Moolchand (SC) (Soc.), (*Mirzkh (R)*); Vichitra Narayan Sharma (Cong.), (*Modinagar*); Shyam Lal (Cong.), (*Moghalsarai*); Raghubir (SC) (C.P.I.), (*Mohammadabad (R)*); V. Shankar Singh (Cong.), (*Mohammadabad*); Chandrajit (C.P.I.), (*Mohammadabad*) (*Gohna*); Nath Ji (SC) (Cong.), (*Mohammadabad*) (*Gohna (R)*); Jagdish Narain Datta Singh (J.S.), (*Mohamadi*); Manna Lal (SC) (J.S.), (*Mohmadi (R)*); Khayali Ram (SC) (P.S.P.) (*Mohanlalganj (R)*); Ram Saran Yadava (P.S.P.), (*Mohanlalganj*); Halimuddin (I.P.L.P.), (*Moradabad City*); Khammani Singh (I.P.L.P.), (*Moradabad Rural*); Gulab Singh (I.P.L.P.), (*Mussoorie*); Mahmud Ali Khan (Cong.), (*Muzaffarabad*); Dwarka Prasad (Cong.), (*Muzaffarnagar*); Gur Prasad Singh (Cong.), (*Musafirkhana*); Ram Bali (SC) (P.S.P.), (*Musafirkhana (R)*), Kripa Shankar (Cong.), (*Nagar*); Ram Lal (SC) (Cong.), (*Nagar (R)*); Govind Sahai (Cong.), (*Nagina*), Narayan Datt Tewari (P.S.P.), (*Naintal*), Vacant (*Najibabad*); Ch Data Ram (Cong.), (*Nakur*); Budhi Lal (Cong.), (*Nanpara*); Mathura Prasad (Cong.), (*Nanpara*), Gopi Krishna Azad (Cong.), (*Naraini*), Ram Sunder (P.S.P.), (*Natthupur*), Sheoraj Bahadur (P.S.P.), (*Nawabganj*), Shamshul Islam (Cong.), (*Nidhpur*), Surath Bahadur Shah (P.S.P.), (*Nighasan*), Chandra Bali Brahmchari (Cong.), (*Nizamabad*), Chandradeo (Cong.), (*Padrauna North*); Genda Singh (P.S.P.), (*Padrauna East*); Ramavan (P.S.P.), (*Padrauna South*), Brijnarain (P.S.P.), (*Padrauna West*), Lachhami Naram (I.P.L.P.), (*Pahrapur*), Hari Har Bakhsh Singh (Cong.), (*Palia*), Babu Lal Kushwah (SC) (Cong.), (*Partabgarh (R)*), Smt Bindumati Devi (Cong.), (*Partabgarh*), Ram Kinkar (SC) (Cong.), (*Patti (R)*), Harkesh Bahadur (Cong.), (*Patti*); Chandar Singh (Cong.), (*Pawai*), Gauri Ram (Cong.), (*Pharenda West*), Dwarika Prasad (Cong.), (*Pharenda East*), Sukhi Ram Bhartiya (SC) (Cong.), (*Phalpur (R)*), Shiv Murti (Cong.), (*Phalpur*), Kanik (SC) (I.P.L.P.), (*Pindargan (R)*), Raj Kumar Surendra Singh (I.P.L.P.), (*Pindargan*), Niranjan Singh (Cong.), (*Pilibhit*), Achhaibar (Cong.), (*Pipraich*), Ram Surat (SC) (Cong.), (*Pipraich (R)*), Khushi Ram (SC) (Cong.), (*Pithoragarh (R)*), Narendra Singh (Cong.), (*Pithoragarh*), Ram Adhar Tewari (Cong.), (*Pratapgarh North*), Bhagwati Prasad (Cong.), (*Pratapgarh South*), Permeshwardin Verma (I.P.L.P.), (*Pucca*), Jamuna Prasad (J.S.), (*Rai Bareli North*), Aslam Khan (I.P.L.P.), (*Rampur*); Laxman Singh (Cong.), (*Ranikhet South*), Hari Datt (Cong.), (*Ranikhet North*), Dongar Singh (Cong.), (*Rath*), Ram Lakhan (Cong.), (*Rari*), Ganga Prasad Singh (Cong.), (*Rasra*), Ram Ratan (SC) (Cong.), (*Rasra (R)*); Jayandar Singh Bisht (Cong.), (*Rawain*); Anand Brahma Shah (I.P.L.P.), (*Robertsganj*); Shobh Nath (Soc.) (J.S.), (*Robertsganj (R)*); Wasi Naqvi (Cong.), (*Rohta*), Din Dayal Shastri (Cong.), (*Roorkee*), Mukut Behari Lal (J.S.), (*Rudauli*); Tika Ram (Soc.), (*Sadabah*); Raghuran Tej Bahadur Singh, *alias* Lal Saheo (I.P.L.P.), (*Sadullahnagar*); Mulla (SC) (C.P.I.), (*Safipur (R)*); Sheo Gopal (Ind.), (*Safipur*); Indra Bhushan (Ind.), (*Sagri*); Mansurul Nabi (Cong.), (*Saharanpur*); Ulfat Singh (Ind.), (*Sahaswan*); Tirnal Singh (Cong.), (*Sahaswar*); Atma Ram (Cong.), (*Saidpur*); Ugrasen (Ind.), (*Salempur West*); Sheo Bachan (Cong.), (*Salempur South*); Ayodhya Prasad Arya (Cong.), (*Salempur East*); Smt. Sunita Chauhan (Cong.), (*Salon*); Ram Prasad (SC) (Cong.), (*Salon (R)*); Mahmood Husain Khan (I.P.L.P.), (*Sambhal*); Mohan Lal Verma (P.S.P.), (*Sandila*); Shambhoo Dayal (SC) (P.S.P.), (*Sandila (R)*); Rana Fateh Singh (Cong.), (*Sardhana*); Ramji Lal Sahayak (SC) (Cong.), (*Sardhana (R)*); Guptar Singh (Cong.), (*Sareni*); Smt. Sarswati Devi (Cong.), (*Sarju*); Jamuna (P.S.P.), (*Shadiabad*); Dev Ram (SC) (Cong.), (*Shadiabad (R)*); Kanhaiya Lal Balmiki (SC) (Cong.), (*Shahabad (R)*); Smt. Vidya Vati Bajpai (Cong.), (*Shahabad*); Baldeo Singh Arya (SC) (Cong.), (*Shahabad (R)*); Kalyan Rai (Cong.), (*Shahabad*); Kunwar Shripal (I.P.L.P.), (*Shahgan*); Mata Prasad (SC) (Cong.), (*Shahganj (R)*); Ashfaq Ali (Ind.), (*Shahjahanpur*); Rajendra Singh Yadav (P.S.P.), (*Shamsabad*); Smt. Sajjan Devi Mahnot (Cong.), (*Sheopur*); Badam Singh (SC) (Cong.), (*Shikarpur (R)*); Rajendra Datt (Cong.), (*Shikarpur*); Layaq Singh (I.P.L.P.), (*Shikohabad*); Irtaza Hussain (Cong.), (*Siana*); Tarachand Maheshwari (Cong.), (*Sidauli*); Baiju Ram (SC) (Cong.), (*Sidauli (R)*); Raj Deo (Cong.), (*Sidhuva Jobna*); Sheo Prasad (SC) (Cong.), (*Sidhuva Jobna (R)*); Malkhan Singh (Cong.), (*Sikandra Rao*); Ram Chander Vikal (Cong.), (*Sikandrabad*); Jagarnath (Cong.), (*Sikandarpur*); Ramji Sahai (Cong.), (*Silhat*); Dr. Sita Ram (SC) (Cong.), (*Silhat (R)*), Dharam Datt Vaidya (Cong.), (*Sirauli*); Chhotey Lal Paliwal (Cong.), (*Sirhpura*); Harish Chandra (Cong.), (*Sitapur*); Chhedi Lal (SC) (P.S.P.), (*Sitapur (R)*), Banshi Dhar (P.S.P.), (*Sitapur*), Parmanand Sinha (Cong.), (*Soraon West*); Sangram Singh (Cong.), (*Soraon East*); Mahmood Ali Khan (Cong.), (*Suar Tanda*); Kuer Krishna (Cong.), (*Sultanpur*); Ram Narain Tripathi (Soc.), (*Sarharpur*), Deo Datta Singh (Cong.), (*Tappal*); Pratap Singh (P.S.P.), (*Tanakpur*), Jai Ram Varma (Cong.), (*Tanda*); Sukhram (SC) (Cong.), (*Tanda (R)*), Sitla Prasad (Cong.), (*Tarabganj*), Surat Chand (Cong.), (*Tehri*); Kishan Singh (Cong.), (*Thakurdwara*); Balak Ram (Soc.), (*Tilhar*) Madan (I.P.L.P.) (*Tilpur*); Dharmpal Singh (J.S.), (*Tulshipur*); Sri Krishan Goyal (Cong.), (*Ujhani*); Ch. Khazan Singh (P.S.P.), (*Unnao*); Mobarik Ali Khan (P.S.P.), (*Usenat*); Ali Jarrar Jaferry (Cong.), (*Utraula*), Sampurnandji (Cong.), (*Varanasi City South*) Mohammad Abdussamad (Cong.), (*Varanasi City North*); Bashist Narain Sharma (P.S.P.), (*Zaman.a*).

Nominated (Anglo-Indian) : A. C. Grice.

WEST BENGAL LEGISLATIVE COUNCIL

Strength : 75. ***Chairman*** . Dr. Suniti Kumar Chatterji. ***Dy. Chairman :*** Dr. Pratap Chandra Guha Ray.

Local Authorities' Constituencies

R. S. Prasad (*W. Bengal North*); Sachindra Nath Misra (*West Bengal North*); Dhirendra Nath Moitra (*W. Bengal North*); Nrisingha Prasad Sarkar (*W. Bengal East*); Nagendra Kumar Bhattacharyya (*W. Bengal East*); Sasanka Sekhar Sanyal (*W. Bengal East*); Satyendra Chandra Ghosh Moulik (*W. Bengal East*); Pashu Pati Jha (*W. Bengal East*); Nagendra Kumar Bhattacharjee (*Nadia-Murshidabad*); Kali Pada Mookerjee (*W. Bengal South*); Sarat Chandra Sawoo (*West Bengal South*); Janakivallabha Bhattacharya (*W. Bengal South*); Harendra Nath Masumdar (*W. Bengal South*); Devaprasad Chatterjea (*W. Bengal South*); Jogindralal Saha (*W. Bengal South*); Upendra Bandopadhyaya (*W. Bengal South*); Sudhindra Nath Mukherjee (*W. Bengal Central*); Rabindralal Sinha (*W. Bengal Central*); Kanailal Goswami (*W. Bengal Central*); Pashupati Nath Mallah (*W. Bengal West*); Pranabeswar Sarkar (*W. Bengal West*); Biman Behari Lall Singha (*W. Bengal West*); Gajendra Nath Hazra (*W. Bengal West*); Surendra Kumar Roy (*W. Bengal West*); Janab Sd. Shahedullah (*W. Bengal West*); Basanta Kumar Das (*W. Bengal West*).

Graduates' Constituencies

Nirmal Chandra Bhattacharya (*Calcutta*); Gopal Chandra Halder (*Calcutta*); Tripurari Chakravarti (*Calcutta*); Dr. Suniti Kumar Chatterji (*West Bengal*); Dr. Charu Chandra Sanyal (*West Bengal*); Chittaranjan Roy (*West Bengal*).

Teachers' Constituencies

Santosh Kumar Bhattacharya (*Calcutta*); Sachindra Nath Banerjee (*Calcutta*); Bijay Bihari Basu (*Calcutta*); Monoranjan Sen Gupta (*W. Bengal*); Satya Priya Roy (*W. Bengal*); Anila Debi (*W. Bengal*).

Bengal Legislative Assembly

Janab Abdul Halim; Ananda Prosad Choudhuri; Monoranjan Gupta; Krishna Kumar Chatterjee; Dr. Monindra Mohan Chakrabarty; K. P. Chattopadhyay; Janab Mohammad Sayeed Mia; Dr. Pratap Chandra Guha Ray; Mohitosh Rai Choudhuri; Janab Mirza Abdur Rashid; Kamala Charan Mookerjee; Ram Kumar Bhuwalka; Kamada Kinkar Mukherjee; Rai Harendra Nath Chaudhuri; Lakshman Prodhan; Hari Kumar Chakravarty; Asutosh Ghosh; Satish Chandra Pakrashi; Naren Das; Arobindo Bose; Smt. Abha Chatterjee; Biswanath Mukherjee; Ram Lagan Singh; Jimut Bahan Sen; Dr. Raghunandan Biswas; Syed Nausher Ali; Snehangshu Kanto Acharya.

Nominated by Governor

Sambhu Nath Banerjee; Tara Sankar Banerjee; Gurugobinda Basu; Santi Das; Badri Prasad Poddar; Labanyaprova Dutt; Janab Musharruf Hossain; Janab Shaikh Mohammad Jan; Pannalal Saraogi.

WEST BENGAL LEGISLATIVE ASSEMBLY

Constituencies : 195 (S.M. 138 ; D.M. 57) ; Seats : 252 (S.C. 45 ; S.T. 15). Electorate : 1,52,16,532.

Speaker, Sankar Das Banerjee ; *Dy. Speaker*, Asutosh Mullick.

An estimate of party position is given below :—

Congress 151 ; Praja Socialist Party 20 ; Communist Party of India 46 ; Forward Bloc (Marxist) 8 ; Independents 25.

Som Nath Lahiri (C.P.I.), (*Alipore*) ; Pijush Kanti Mukherjee (Cong.), (*Alipur Duars*) ; Gabinda Charan Majji (P.S.P.), (*Amta East*) ; Arabinda Roy (Cong.), (*Amta West*) ; Radhakrishna Pal (Cong.), (*Arambagh*) ; Sagar Chandra Mahato (Ind.), (*Arsha*) ; Shib Das Ghatak (Cong.), (*Asansol*) ; Kanailal Das (Cong.), (*Ausgram*) ; Md. Zia Ul-Huque (Cong.), (*Baduria*) ; Amal Kumar Ganguli (C.P.I.), (*Bagnan*) ; Bhim Chandra Mahato (Ind.), (*Balarampur*) ; Jnanendra Mazumdar (C.P.I.), (*Ballygunge*) ; Dhirendra Nath Banerjee (Ind.), (*Balurghat*) ; Hakai Mardi (ST) (Cong.), (*Balurghat (R)*) ; Monilal Basu (Cong.), (*Bally*) ; Bijoy Krisna Modak (C.P.I.), (*Balagarh*) ; Dr. Anath Bandhu Ray (Cong.), (*Bankura*) ; Sishuram Mondal (SC) (Cong.), (*Bankura (R)*) ; Iswar Das Jalan (Cong.), (*Bara Bazar*) ; Khagendra Kumar Roy Choudhury (C.P.I.), (*Baruipur*) ; Gangadhar Naskar (SC) (C.P.I.), (*Baruipur (R)*) ; Jyoti Bose (C.P.I.), (*Baranagar*) ; Chitto Basu (F.B.(M.)), (*Barasat*) ; Profullanath Banerjee (Cong.), (*Basirhat*) ; Rabindra Nath Mukhopadhyaya (C.P.I.), (*Behala*) ; Rama Shanker Prasad (SC) (C.P.I.), (*Beliaghata*) ; Jagat Bose (C.P.I.), (*Beliaghata (R)*) ; Ganesh Ghosh (C.P.I.), (*Belgachia*) ; Parimal Ghosh (Cong.), (*Bolpur*) ; Bejoy Kumar Ghosh (Cong.), (*Berhampore*) ; Goalbadan Trivedi (Cong.), (*Bharatpur*) ; Hafijur Rahaman Kazi (Cong.), (*Bhagabangola*) ; Bomkes Majumdar (Cong.), (*Bhadreswar*) ; Basanta Kumar Panda (P.S.P.), (*Bhagabanpur*) ; Bhikhari Mandal (SC) (Cong.), (*Bhagabanpur (R)*) ; Smt. Abhalata Kundu (Cong.), (*Bhatar*) ; Sitaram Gupta (C.P.I.), (*Bhatpara*) ; Hem Chandra Naskar (Cong.), (*Bhangar*) ; Vacant (*Bhowanipur*) ; Niranjan Sen Gupta (C.P.I.), (*Bijpur*) ; Sudhir Kumar Pandey (C.P.I.), (*Binpur*) ; Jamadar Hasda (ST) (C.P.I.), (*Binpur (R)*) ; Provash Chandra Roy (C.P.I.), (*Bishnupur*) ; Rabindra Nath Roy (SC) (C.P.I.), (*Bishnupur (R)*) ; Amarendra Nath Sarkar (Cong.), (*Bolpur*) ; Ajit Kumar Ganguli (C.P.I.), (*Bongaon*) ; Manindra Bhusan Biswas (SC) (Cong.), (*Bongaon (R)*) ; Bidhan Chandra Roy (Cong.), (*Bow Bazar*) ; Bankim Mukherjee (C.P.I.), (*Budge Budge*) ; Benoy Krishna Chowdhury (C.P.I.), (*Burdwan*) ; Sudhir Chandra Ray Choudhuri (P.S.P.), (*Burtola North*) ; Amarendra Nath Basu (Ind.), (*Burtola South*) ; Abdus Shokur (Cong.), (*Canning*) ; Khagendra Nath Naskar (SC) (Cong.), (*Canning (R)*) ; Hirendra Kumar Chattopadhyay (Ind.), (*Chandernagore*) ; Suresh Chandra Banerjee P.S.P.), (*Chakdah*) ; Vacant (Cong.), (*Chhatna*) ; Kamalakanta Hemram (ST) (Cong.), (*Chhatna (R)*) ; Bhupati Majumdar (Cong.), (*Chinsurah*) ; Mohammad Afaque Chowdhury (Cong.), (*Chopra*) ; Bijoy Singh Nahar (Cong.), (*Chowringhee*) ; Nalendra Nath Das (P.S.P.), (*Contai North*) ; Ras Behari Pal (Cong.), (*Contai South*) ; Nasiruddin Ahmed (Cong.), (*Cooch Behar*) ; Satish Chandra Roy Singha (SC) (Cong.), (*Cooch Behar (R)*) ; Deben Sen (P.S.P.), (*Cossipore*) ; Charu Chandra Mahanty (Cong.), (*Dantan*) ; Prakash Rai Deo (Ind.), (*Darjeeling*) ; Bhabanranjan Panja (Cong.), (*Daspur*) ; Mohini Mohan Pati (Cong.), (*Debra*) ; Dr. Rafiuddin Ahmed (Cong.), (*Deganga*) ; Atul Krishna Roy (SC) (Cong.), (*Deganga (R)*) ; Radha Nath Das (SC) (Cong.), (*Dhantalkhali (R)*) ; D. N. Mukherjee (Cong.), (*Dhanrakhali*) ; Bhawani Prasanna Talukdar (Cong.), (*Dinhata*) ; Umesh Chandra Mandal (SC) (Cong.), (*Dinhata (R)*) ; Ramanuj Halder (P.S.P.), (*Diamond Harbour*) ; Tarapada De (C.P.I.), (*Domjur*) ; Pabitra Mohan Roy (P.S.P.), (*Dum Dum*) ; Bhuban Chandra Kar Mahapatra (P.S.P.), (*Egra*) ; Narendra Nath Sen (Cong.), (*Entally*) ; Santi Gopal Sen (Cong.), (*Englishbazar*) ; Abu Asad Md. Obaidul Ghani (C.P.I.), (*Entally*) ; Vacant (*Falakata*) ; Khagendra Nath Das (Cong.), (*Falta*) ; Mahammad Giasuddin (Cong.) (*Farakka*) ; Smt. Maitreyee Bose (Cong.), (*Fort*) ; Pramatha Nath Dhibar (SC) (F.B. (M.)), (*Galsi (R)*) ; Phakir Chandra Roy (Ind.), (*Galsi*) ; Satindra Nath Basu (Cong.), (*Gangarampur*) ; Lakshan Chandra Hasda (ST) (Cong.), (*Gangarampur (R)*) ; Shaikh Abdulla Farooquie (C.P.I.), (*Garden Reach*) ; Saroj Roy (C.P.I.), (*Gabbeta*) ; Kumari Tusar Tudu (ST) (Cong.), (*Garhbeta (R)*) ; Harendra Nath Dolui (SC) (Cong.), (*Ghatal (R)*) ; Lakshman Chandra Sarkar (Cong.), (*Ghatal*) ; Muzaffar Hussain (Cong.), (*Goalpokher*) ; Surendra Nath Mahata (Cong.), (*Gopiballarpore*) ; Jagatpati Hasda (ST) (Cong.), (*Gopiballarpore (R)*) ; Tarun Kanti Ghosh (Cong.), (*Habra*) ; Razi Elias (Ind.), (*Harischandrapur*) ; Haji A. Hameed (Cong.), (*Hariharpara*) ; Pramatha Ranjan Thakur (SC) (Cong.), (*Haringhata (R)*) ; Sisarajit Bandyopadhyay (Cong.), (*Haringhata*) ; Jahangir Kabir (Cong.), (*Harua*) ; Hemanta Kumar Ghosal (C.P.I.), (*Hasnabad*) ; Rajkrishna Mondal (SC) (Cong.), (*Hasnabad (R)*) ; Taher Hossain (Ind.), (*Hiraput*) ; Samar Mukhopadhyay (C.P.I.), (*Howrah North*) ; Bankim Chandra Kar (Cong.), (*Howrah West*) ; Beni Chandra Dutta (Cong.), (*Howrah East*) ; Kanailal Bhattacherjee (F.B.(M.)), (*Howrah South*) ; Basanta Lal Chatterjee (C.P.I.), (*Itahar*) ; Bindabon Behari Basu (F.B.(M.)), (*Jagatballarpur*) ; Golam Soleman (Cong.), (*Jalangi*) ; Khagendra Nath Das Gupta (Cong.), (*Jalpaiguri*) ; Sarojendra Deb Raikut (SC) (Cong.), (*Jalpaiguri (R)*) ; Amarendra Mondal (SC) (P.S.P.), (*Jamuria*) ; Baidyanath Mondal (SC) (Cong.), (*Jamuria (R)*) ; Shyamapada Bhattacherjee (Cong.), (*Jangipur*) ; Kuber Chand Haldar (SC) (Cong.), (*Jangipur (R)*) ; Kanai Dey (Cong.), (*Jangipara*) ; Biswanath Saha (SC) (Cong.), (*Jangipara (R)*) ; Nepal Ray (Cong.), (*Jorabagan*) ; Debendra Nath Mahato (Cong.), (*Jhalda*) ; Mahendra Mahata (Cong.), (*Jhargram*) ; Bhadra Bahadur Hamal (C.P.I.), (*Jorebungalow*) ; Anandilall Poddar (Cong.), (*Jorasanko*) ; Subodh Banerjee (Ind.), (*Joynagar*) ; Renupada Halder (SC) (Ind.), (*Joynagar (R)*) ; Smt. Maya Banerjee (Cong.), (*Kakdwip*) ; Smt. Manikuntala Sen (C.P.I.), (*Kalighat*) ; Hare Krishna Konar (C.P.I.), (*Kalna*) ; Jamadar Majhi (ST) (C.P.I.), (*Kalna (R)*) ; Narbahadur Gurung (Ind.), (*Kalimpong*) ; Debendra Nath Brahmamanodal (ST) (Cong.), (*Kalchini (R)*) ; Smt. Anima Hoare (Cong.), (*Kalchini*) ; Mahibur Rahaman Choudhury (Cong.), (*Kaliachak*) ; Sudhir Mandal (SC) (Cong.), (*Kandi (R)*) ; Bimal Ch. Sinha (Cong.), (*Kandi*) ; Bijoylal Chattopadhyaya (Cong.), (*Karimpur*) ; Phanis Chandra Sinha (Cong.), (*Karandighi*) ; Ledu Majhi (ST) (Ind.), (*Kashipur*) ; Budhan Majhi (ST) (Cong.), (*Kashipur (R)*) ; Tarapada Chaudhuri (Cong.), (*Katwa*) ; Golam Yazdani (Ind.), (*Kharba*) ; Panchanan Digpati (SC) (Cong.), (*Khanakul (R)*) ; Prafulla Chandra Sen (Cong.), (*Khanakul*) ; Narayan Chobey (C.P.I.), (*Kharagpur*) ; Mrityunjoy Jana (Cong.), (*Kharagpur Local*) ; Krishna Prasad Mandal (SC) (Cong.), (*Kharagpur Local (R)*) ; Sathari Mitra (P.S.P.), (*Kharda*) ; Abdus Sattar (Cong.), (*Ketugram*) ; Sankar Das (SC) (Cong.), (*Ketugram (R)*) ; Jagannath Kolay (Cong.), (*Ketulpur*) ; Jagannath Majumder (Cong.), (*Krishnagar*) ; Benarashi Prasad Jha (P.S.P.), (*Kulti*) ; Hasnadhwaj Dhara (Cong.), (*Kulpi*) ; Radhanath Chattopadhyay (C.P.I.), (*Labpur*) ; Syed Kasem Ali Meerza (Cong.), (*Lalgola*) ; Ardhendu Shekhar Naskar (SC) (Cong.), (*Magrahat (R)*) ; Abul Hashem (Cong.), (*Magrahat*) ; Sudhir Chandra Bhandari (C.P.I.), (*Maheshtala*) ; Profulla Chandra Ghose (P.S.P.), (*Mahishadal*) ; Mahatab Chand Das (SC) (Cong.), (*Mahishadal (R)*) ; Jajneswar Roy (SC) (Cong.), (*Mainaguri (R)*) ; Nirmala Behari Gupta (Cong.), (*Malda*) ; Malin Murmu (ST) (Cong.), (*Malda (R)*) ; Budhu Hansda (ST) (Cong.), (*Mal (R)*) ; Mangru Bhagat (ST) (C.P.I.), (*Mal*) ; Rankin Chandra Roy (Ind.), (*Manicktola*) ; Ranendra Nath Sen (C.P.I.), (*Manicktola*) ; Chaitan Majhi (ST) (Ind.), (*Manbazar (R)*) ; Satya Kinkar Mahato (Ind.), (*Manbazar*) ; Brindaban Gayan (SC) (Cong.), (*Mathurapur (R)*) ; Bhushan Chandra Das (Cong.), (*Mathurapur*) ; Pramanik Sarada Prasad (SC) (Cong.), (*Mathabhanga (R)*) ; Ananga Mohan Das (Cong.), (*Mayna*) ; Satyendra Prasanna Chattyopadhya (Cong.), (*Mekliganj*) ; Smt. Anjali Khan (Cong.), (*Midnapur*) ; Jatindra Chandra Chakravorty (Ind.), (*Muchipara*) ; Durgapada Sinha (Cong.), (*Murshidabad*) ; Niranjan Modak (Cong.), (*Nadia*) ; Gopal Basu (C.P.I.), (*Naihati*) ; S. M. Fazlur Rahman (Cong.), (*Nakashipara*) ; Mahananda Haldar (SC) (Cong.), (*Nakashipara (R)*) ; Mohammad Yeakub Hossain (Cong.), (*Nalhati*) ; Sisir Kumar Saha (SC) (Cong.), (*Nalhati (R)*) ; Bhupal Chandra Panda (C.P.I.), (*Nandigram South*) ; Subodh Charan Maiti (Cong.), (*Nandigram North*) ; Mohammad Israil (Cong.), (*Naoda*) ; Panchanan Bhatta Parjee (P.S.P.), (*Noapara*) ; Dhawajadari Mondal (SC) (Cong.), (*Ondal (R)*) ; Aranda Gopal Mukhopadhaya (Cong.), (*Ondal*) ; Gokul Behari Das (Cong.), (*Onda*) ; Ashutosh Mallick (Cong.), (*Onda (R)*) ; Rajani Kanta Pramanik (Cong.), (*Panskura East*) ; Syamadas Bhattacharyya (Cong.), (*Panskura West*) ; Gurupada Khan (SC) (Cong.), (*Patrasayer (R)*) ; Bhabataran Chakravarty (Cong.), (*Patrasayer*) ; Satya Kumar Das (P.S.P.), (*Patashpore*) ; Bhavananda Tarkatirtha (Cong.), (*Purbasthali*) ; Smt. Labanya Prava Ghosh (Ind.), (*Purulia*) ; Nakul Chandra Sahis (SC) (Ind.), (*Purulia (R)*) ; Nagar Bouri (SC) (Cong.), (*Raghunathpur (R)*) ; Sita Narayan Singha Deo (Cong.), (*Raghunathpur*) ; Khagendra Nath Pandyopadhyay (Cong.), (*Rajnagar*) ; Nishapati Majhi (SC) (Cong.), (*Rajnagar (R)*) ; Hazi Badiruddin Ahmed (Cong.), (*Raiganj*) ; Syama Prasad Barman (SC) (Cong.), (*Raiganj (R)*) ; Smt. Sudharani Dutta (Cong.), (*Raipur*) ; Jadu Nath Murmu (ST) (Cong.), (*Raipur (R)*) ; Da-arathi Tah (P.S.P.), (*Rajpur*) ; Gobardhan Pakray (SC) (P.S.P.), (*Ranaghat*) ; Gobardhan Das (SC) (C.P.I.), (*Rampurhat (R)*) ; Durgapada Das (Ind.), (*Rampurhat*) ; Tarakeswar nath Prodhan (Cong.), (*Ramnagar*) ; Rajibul Saha Syed (Ind.), (*Ramnagar*) ; Binoy Kumar Chatterjee (Cong.), (*Ranaghat*) ; Sunil Das (P.S.P.), (*Rashbehari Avenue*) ; Sourindra Mohan Misra (Cong.), (*Ratua*) ; Dhaneswar Saha (SC) (Cong.), (*Ratua (R)*) ; Gopal Chandra Das Adhikari (Cong.), (*Sabong*) ; Shyama Prasanna Bhattacharjee (C.P.I.), (*Sankrail*) ; Apurbal Lal Majumdar (SC) (F.B.(M.)), (*Sankrail (R)*) ; Haridas Dey (Cong.), (*Santipur*) ; Haran Chandra Mondal (SC) (Ind.), (*Sandesh-Khali (R)*) ; Panchugopal Bhaduri (C.P.I.), (*Serampore*) ; T. Wangdi (ST) (Cong.), (*Siliguri (R)*) ; Satyendra Narayan Mazumdar (C.P.I.), (*Siliguri*) ; Provakar Pal (Cong.), (*Singur*) ; Hemanta Kumar Bose (F.B.(M.)), (*Shampukur*) ; Monoranjan Misra (Ind.), (*Sujapur*) ; Suhrid Mallik Chowdhury (Ind.), (*Sukea Street*) ; Mihirlal Chatterji (P.S.P.), (*Suri*) ; Turku Hansda (ST) (C.P.I.), (*Suri (R)*) ; Latifal Hoque (Cong.), (*Suti*) ; Mohammad Israil Hoque (Cong.), (*Swarupnagar*) ; Sasabindu Bera (F.B.(M.)), (*Sylhampur*) ; Dhirendra Nath Dhar (C.P.I.), (*Taltola*) ; Ajoy Kumar Mukherji (Cong.), (*Tamluk*) ; Parbati Chandra Hazra (Cong.), (*Tarakeswar*) ; Sankardas Bandyopadhyay (Cong.), (*Tehatta*) ; Krishna Kumar Shukla (Cong.), (*Titagarh*) ; Haridas Mitra (P.S.P.), (*Tollygunge*) ; Jatindra Nath Sinha Sarkar (Cong.), (*Tufangunj*) ; Abani Kumar Basu (Cong.), (*Uluberia*) ; Bijoy Bhusan Mandal (SC) (F.B.(M.)), (*Uluberia (R)*) ; Monoranjan Hazra (C.P.I.), (*Uttarpara*) ; Dr. Narayan Chandra Roy (C.P.I.), (*Vidyasagar*) ; Smt. Purabi Mukhopadhyay (Cong.), (*Vishnupur*) ; Kiran Chandra Digar (SC) (Cong.), (*Vishnupur (R)*).

Nominated (Anglo-Indian representation) : R. E. Pittal, C. Foreshe, C. I. Blenche, Miss O. Fernandis.

ANDHRA PRADESH LEGISLATIVE COUNCIL

Strength :—90.

An estimate of party position is as follows :—Cong. 48, C.P.I. 11, Soc. 2 and Ind. 29.

Chairman :—Madapati Hunumantha Rao ; *Dy. Chairman* :—G. Subba Raju.

Local Authorities' Constituencies

Appasani Appana Dora (*Circars North*) ; Kommuru Appadu (*Circars North*) ; Tripurana Raghava Das (*Circars North*) ; Pentakota Venkata Ramana (*Circars North*) ; Vundavilli satyanarayana Murthy (*Circars Central*) ; Thummalapalli Veerabhadra Rao (*Circars Central*) ; Rudraraju Ramalingaraju (*Circars Central*) ; sanku Appa Rao (*Circars Central*) ; Kolla Venkaiah (*Circars South*) ; Pelleti Venkata Krishna Reddy (*Circars South*) ; Ponnaboru Veera Raghava Reddy (*Circars South*) ; Bojja Audinarayana Rao (*Circars South*) ; Shrimati Manikonda Suryavathi (*Circars South*) ; Venigalla Satyanarayana Rao, T. (*Circars South*) , Adikesavalu Naidu, K. (*Rayalaseema*) , Dappili Panduranga Reddy (*Rayalaseema*) ; Narayana Reddy, D. (*Rayalaseema*) ; Yeddula Eswara Reddy (*Rayalaseema*) ; Raju Venkata Subba Reddy (*Rayalaseema*) ; Sherfuddin (*Rayalaseema*), Erram Satyanarayana (*Telangana South*), Gurava Reddy (*Telangana South*) ; Ramachandra Reddy (*Telangana South*) ; Venkata Narasimhachari (*Telangana South*) ; Seelam Sidda Reddy (*Telangana South*) ; Subramanyam (*Telangana South*) ; Raghotham Reddy (*Telangana North*) ; Hanmantha Reddy (*Telangana North*) ; Elpur Laxma Reddy (*Telangana North*) ; Mohammad Arif Khan (*Telangana North*) ; Gangaram (*Telangana North*).

Graduates' Constituencies

S. B. P. B. K Satyanarayana Rao (*Circars*) ; Avasarala Rama Rao (*Circars*) ; Mulukutla Venkata Sastry (*Circars*) ; Nivarthi Venkata Subbaiah (*Rayalaseema*) , Krishna Reddy, M. V. (*Rayalaseema*) ; Ataur Rahman (*Telangana*) ; Anandam, M. (*Telangana*) , Shrimati Sithamahalaxmi, J. (*Telangana*)

Teachers' Constituencies

Sreerama Murty, P. (*Circars*) ; Desaraju Satya Subrahmanyam (*Circars*) ; Vempati Purushotham (*Circars*) ; Gummalla Rangarao Naidu (*Circars*) ; Singaraju Ramakrishnaiah (*Rayalaseema*) , Subba Sastry, D. V (*Rayalaseema*) , K. Manohar Rao (*Telangana*) ; K. Narayan Rao (*Telangana*)

Elected by the Legislative Assembly

Abu Yusuf ; Arutla Laxmi Narasimha Reddy ; Idukallu Sadasivan ; Guntur Bapanayya ; Gupta Raja Rao ; Gottipati Brahmayya ; Gorrepati Butchi Appa Rao ; Shrimati Gogineti Bharathi Devi ; Chinna Siva Reddy ; Chikati Parasuram Naidu ; Jagannatham, N. V. ; Damarla Rama Kantha Rao ; Shrimati Dronamraju Lakshmibayamma ; Nagi Reddy, J. C , Nathaniel Milari Williams ; Pyndah Venkatanarayana ; Pratap Reddy, K. V. ; Shrimati Faizunnisa , Bachina Subba Rao ; Bendi Kurmanna ; Bezwada Papi Reddy ; Bhoj Reddy , Manthena Venkata Surya Subba Raju ; Maqdoom Mohiuddin Madapati Hanumantha Rao ; Rao Achayya Rao ; Ramiya Seetharamaiah ; Lingayya ; Subba Reddy ; Suryanarayan Rao, Y. , Shaik Gahb.

Nominated by the Governor

S. Govindarajulu ; B. N. Reddi ; Kavisamrat Viswanatha Satyanarayana ; Bikkina Venkataratnam ; G. Subba Raju, M. S. (Calif.), F A F P E. (U.S.A.) ; S Sambhu Prasad ; Pemaraju Venkata Rao, B.A. ; Shrimati K. Ramasubhamma ; Zain Yar Jung Bahadur ; Ernest Gideon, B.A., (Hons.), (Oxon) ; Haroon Khan Sherwani ; Srimati Illindula Saraswathi Devi

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RAJYA SABHA

Total no of seats : 232.
Chairman , Dr. S. Radhakrishnan.
Dy Chairman : S. V. Krishnamoorthy Rao.
Secretary : S. N. Mukerjee.
Dy Secretary : B. N. Banerjee.
Under-Secretaries : P. N. Krishna Mani ; I. Krishna ; L. M. Dutt ; M. S Panigrahi.

ANDHRA PRADESH—18

Makkineni Basavapunnaiah ; Shaik Gahb, Dr Raj Bahadur Gour ; Akbar Ali Khan , Shrimati Seeta Yudhvir ; Alluri Satyanarayana Raju , Mudumala Henry Samuel , V C. Kesava Rao , Veeramachineni Prasad Rao ; Adduru Baharami Reddy ; S. Channa Reddy , Narotham Reddy , Narla Venkateswara Rao ; J. V K Vallabharao ; K. L. Narasimham ; Villuri Venkataramana , A. Chakradhar ; Shrimati Yashoda Reddy.

ASSAM—7

S C. Deb ; Shrimati Bedavati Buragohain ; Shrimati Pushpalata Das ; Purna Chandra Sharma ; Maulana M. Tayyebulla ; Joy Bhadra Hagjer

BIHAR—22

R G. Agarwala ; Kazi Ahmad H- -ain ; Theodore Bodra ; M. John ; Kishori Ram , Shrimati Lakshmi N. Menon ; Kailash Bihari Lall , Mahesh Saran ; Syed Mazhar Imam ; Dr. Purna Chandra Mitra ; Devendra Prasad Singh ; Braja Kishore Prasad Sinha ; Ganga Sharan Sinha ; Rajendra Pratap Sinha ; Kamta Singh ; Rama Bahadur Sinha ; Prof. R D. Sinha Dinkar ; Tajamul Husain ; Shah Mohd. Umair ; Sheel Bhadra Yajee ; Awadheshwar Prasad Sinha ; Shrimati Jahanara Jaipal Singh.

BOMBAY—27

Abid Ali ; P. N. Rajabhoj ; Dr. Waman Sheodas Barlingay ; Babubhai M. Chinai ; Rajabhau Vithalrao Dangre ; Somnath P. Dave ; T. R. Deogirikar ; Narsingrao Balbhimrao Deshmukh ; Ramrao Madhaorao Deshmukh ; Venkat Krishna Dhage ; Dr. M. D. D. Gilder ; Rohit Manushankar Dave ; Bhaurao Dewaji Khobragade ; Dahyabhai Vallabhbhai Patel ; G. R. Kulkarni ; Lavji Lakhamshi ; Premji Thobhanbhai Leuva ; Deokinandan Narayan ; Lalji Pendse ; Dhakryashirao Yeshwantrao Pawar ; Prof Dr. Raghu Vira ; Sonusing Dhanaing Patil ; Manilal Chaturbhai Shah ; Jethalal Harikrishna Joshi ; Jadavji Keshavji Modi ; M D. Tumpalliwar ; Dr. D. H. Varlava.

KERALA—9

Shrimati K. Bharathi ; K. Madhava Menon ; Dr P. J. Thomas ; Govindan Nair ; K. P. Madhavan Nair ; P. Narayanan Nair ; P. A. Solomon ; N. C. Sekhar ; Dr. Subba Rao.

MADHYA PRADESH—16

Niranjan Singh , Mohammad Ali , Banarsi Das Chaturvedi ; Dr R P Dube Shrimati Krishna Kumari ; Ratanlal Kishorilal Malviya Dayaldas Kurre ; Trimbak Damodar Pustake , Dr Raghubir Sinh Ram Sahai Shrimati Rukmani Bai, Vishnu Vinayak Sarwate Dr. Shrimati Seeta Parmanand ; Captain Awadhesh Pratap Singh Thakur Bhanu Pratap Singh , Gopi Krishna Vijaivargiya

MADRAS—17

Shrimati Ammu Swaminadhan , T. S Avanashilingam Chettiar , T. V. Kamalaswamy ; S Chattanatha Karayalar , Dr. A. Ramaswami Mudaliar ; P S. Rajagopal Naidu , Shrimati T Nallamuthu Ramamurti ; N. M Lingam , Abdul Rahim ; N. Ramakrishna Iyer ; G. Rajagopalan , H D. Rajah ; T. Bhaskara Rao ; T S. Pattabiraman ; R Parameswarau ; S Venkataraman , Dawood Ali Mirza.

MYSORE—12

B C. Nanjundaiya ; Janardhan Rao Desai ; Shrimati Annapurna Devi Thimmareddy ; Mulka Govinda Reddy ; Dr. N. S Hardiker ; Raghavendrarao ; S V. Krishnamoorthy Rao ; M. Govinda Reddy ; B. Shiva Rao , B. P. Basappa Shetty ; Mohamed Vallulla ; Shrimati Violet Alva

ORISSA—10

Prafulla Chandra Bhanj Deo ; Harihar Patel ; Biswanath Das ; Dibakar Patnaik ; Bibudhendra Misra ; Bhagwathi Mahapatra ; Maheswar Naik ; Swapnananda Panigrahi ; Abhimanyu Rath ; Govind Chandra Misra.

PUNJAB—11

Dr. Anup Singh ; Diwan Chaman Lall ; Madho Ram Sharma ; Sardar Darshan Singh Pheruman ; Jagan Nath Kaushal ; Jathedar Udham Singh Nagoke ; M. H. S Nihal Singh ; Sardar Raghbir Singh Panjhazari ; Rajkumari Amrit Kaur ; Giani Zail Singh ; Jugal Kishore.

RAJASTHAN—10

Maulana Abdul Shakoor ; Adityendra ; Swami Keshvanand ; Jai Narain Vyas ; Tika Ram Paliwal ; Shrimati Sharda Bhargava ; Dr. K. L. Shrimali ; Jaswant Singh ; Vijay Singh.

UTTAR PRADESH—34

Amar Nath Agrawal , Jagannath Prasad Agrawal ; Akhtar Husain , Anokhi Chand , Shrimati Anis Kidwai , Jachand Singh Bisht , Shrimati Chandravati Lakhanpal , Jogesh Chandra Chatterji ; Nawab Singh Chauhan , A Dharam Das Maulana Mohammad Farooqi , R C Gupta , Faridul Haq Ansari , Jaspat Roy Kapoor ; Ahmad Said Khan Dr Hriday Nath Kunzru ; Purushottam Das Tandon ; Shyam Dhar Misra Raja Ajit Pratap Singh , Tarkeshwar Pande , Govind Ballabh Pant Har Prasad Saksena , P N Sapru , Shrimati Savitry Devi Nigam , Braj Bihari Sharma ; Babu Gopinath Singh ; Ram Krij. Singh ; Hira Vallabha Tripathi ; Ram Prasad Tamta , Pandit Sham Sundar Narain Tankha ; Z. A Ahmad ; M. P. Bhargava ; Pandit Balkrishna Sharma.

WEST BENGAL—16

Ausaruddin Ahmad ; Dr. Nihar Ranjan Ray ; C C Biswas ; Rajpat Singh Doogar ; Dr. Nalinaksha Dutt ; Santosh Kumar Basu ; Bhupesh Gupta ; P. D. Himatsingka , Prof Humayun Kabir ; Abdur Rezzak Khan ; Shrimati Maya Devi Chettry ; Dr. Atindra Nath Bose ; Satyendra Prosad Ray ; Mriganka Mohan Sur ; Surendra Mohan Ghose ; Mehr Chand Khanna.

JAMMU AND KASHMIR—4

Sardar Budh Singh ; Trilochan Dutta ; Aga Syed Mohammad Jalali ; Pir Mohammed Khan.

DELHI—3

S. K. Dey ; Onkar Nath ; Begum Siddiqa Kidwai.

HIMACHAL PRADESH—2

Anand Chand ; Shrimati Lila Devi.

MANIPUR—1

Laimayum Lalit Madhob Sharma.

TRIPURA—1

Abdul Latif.

NOMINATED BY THE PRESIDENT—12

Satyendranath Bose ; Maithilisharan Gupta ; Kakasaheb Kalelkar ; Dr. P. V. Kane ; Prithviraj Kapoor ; Narsindas Rattanmal Malkani ; A. N. Khosla ; Shrimati Rukmini Devi Arundale ; M. Satyanarayana ; Prof. A. R. Wadia ; B. V. (Mama) Warerkar ; Dr. Tara Chand.

LOK SABHA

Speaker, M. Ananthasayanam Ayyangar. *Dy. Speaker*, Sardar Hukam Singh. *Secretary*, M. N. Kaul.

Total no. of members : 505.

An estimate of party strength is as follows : Congress 365, Praja Socialist Party 19, Communist Party of India 27, Bhartiya Jan Sangh 4, Peoples' Democratic Front (Andhra) 2, Jharkhand (Bihar) 6, Chota Nagpur Santhal Parganas Janata Party (C.N.S.J.P.) (Bihar) 3, Peasants and Workers Party 4, Hindu Mahasabha 1, Ganatantra Parishad (Orissa) 7, Forward Bloc (Marxist) (West Bengal) 2, Independents 39, Republican Party of India 9.

ANDHRA—43

K. Ashanna (Cong.), (*Adilabad*) ; Pendekanti Venkata Subbiah (Cong.), (*Adoni*) ; T. Nagi Reddy (C.P.I.), (*Anantapur*) ; M. Ananthasayanam Ayyangar (Cong.), (*Chittoor*) ; M. V. Gangadharasiva (SC) (Cong.), (*Chittoor (R)*) ; V. Rami Reddi (Cong.), (*Cuddapah*) ; Kumari Mothey Vedakumari (Cong.), (*Eluru*) ; Missula Suryanarayanamurty (Cong.), (*Golugonda*) ; Kankipati Veeranna Padalu (ST) (Cong.), (*Golugonda (R)*) ; Duggirala Bala Rama Krishnaiah (Cong.), (*Gudivada*) ; K. Raghuramayya (Cong.), (*Guntur*) ; K. V. Ramakrishna Reddy (Cong.), (*Hindupur*) ; Vinayak Rao K. Koratkar (Cong.) (*Hyderabad*) ; M Thirumala Rao (Cong.), (*Kakinada*), B. S Murthy (SC) (Cong.), (*Kakinada (R)*), Sriranga Rao (Cong.), (*Karimnagar*), M. R. Krishna (SC) (Cong.), (*Karimnagar (R)*), T. B. Vittal Rao (P.D.F.), (*Khammam*), S Osman Ali Khan (Cong.), (*Kurnool*) ; P. Madhusudan Rao (Cong.) (*Mahbubabad*) ; J Rameshwar Rao (Cong.), (*Mahbubnagar*) ; Puli Ramaswamy (SC) (Cong.), (*Mahbubnagar (R)*) ; Chegireddi Bali Reddy (Cong.), (*Markapur*) ; Mandali Venkata Krishna Rao (Cong.), (*Masulipatnam*) ; P. Hanmanth Rao (Cong.), (*Medak*) ; D. Venkateswar Rao (P.D.F.), (*Nalgonda*) ; Devanapalli Rajiah (SC) (Cong.) (*Nalgonda (R)*) ; Uddaraju Ramam (C.P.I.), (*Narsapur*) ; Harish Chandra Heda (Cong.) (*Nizamabad*) ; Rebala Lakshmi Narasareddi (Cong.), (*Nellore*), B. Anjanappa (SC) (Cong.), (*Nellore (R)*) ; Ronda Narapa Reddy (Cong.), (*Ongole*) ; Dippala Suridora (ST) (Ind.), (*Parvathipuram*) ; B. Satyanarayana (ST) (Cong.), (*Parvathipuram (R)*) ; T. N. Viswanatha Reddi (Cong.), (*Rajampet*) ; D. Satyanarayana Raju (Cong.), (*Rajahmundry*) ; Ahmed Mohiuddin (Cong.), (*Secunderabad*) ; B. Rajagopala Rao (Cong.), (*Srikakulam*) ; N. G. Ranga (Cong.), (*Tenali*) ; Smt. Sangam Laxmibai (Cong.), (*Vicarabad*), Dr. Kommaraju Achamamba (Cong.), (*Vijayawada*) ; Vijayaram Raju (Ind.), (*Visakhapatnam*), Sadath Ali Khan (Cong.), (*Warangal*).

ASSAM—12

Hoover Hynniewta (ST) (Ind.), (*Autonomous Districts (R)*) ; Dwarika Nath Tewari (Cong.), (*Cachar*) ; Nibaran Chandra Laskar (SC) (Cong.), (*Cachar (R)*) ; Bijoy Chandra Bhagwati (Cong.), (*Darrang*) ; Jogendra Nath Hazarika (Cong.), (*Dibrugarh*) ; Amjad Ali (P.S.P.), (*Dhubri*) ; Hem Barua (P.S.P.), (*Gauhati*) ; Smt. Rani Manjula Devi (Cong.), (*Goalpara*) ; Dharanidhar Basumatari (ST) (Cong.), (*Goalpara (R)*) ; Smt. Mafida Ahmed (Cong.), (*Jorhat*) ; Liladhar Kotoki (Cong.), (*Nowgong*) ; Profulla Chandra Borooah (Cong.), (*Sibsagar*).

Chowkhamoon Gohain (*N.E.F.A.*), Nominated by President to represent Part B Tribal areas of Assam.

BIHAR—53

Satyendra Narayan Singh (Cong.), (*Aurangabad*) ; Bibhuti Mishra (Cong.), (*Bagaha*) ; Smt. Shakuntala Devi (Cong.), (*Banka*) ; Smt. Tarkeshwari Devi Sinha (Cong.), (*Barh*) ; Mathura Prasad Mishra (Cong.), (*Begusarai*) ; Banarsi Prasad Jhunjhunwala (Cong.), (*Bhagalpur*) ; Kamal Singh (Ind.), (*Buxar*) ; Bepin Behary Varma (Cong.), (*Champaran*) ; Bhola Raut (SC) (Cong.), (*Champaran (R)*) ; Rajendra Singh (P.S.P.), (*Chapra*) ; Smt. Vijaya Raje (Janta), (*Chatra*) ; Shreenarayan Das (Cong.), (*Darbhanga*) ; Rameshwar Sahu (SC) (Cong.), (*Darbhanga (R)*) ; Prabhat Chandra Bose (Cong.), (*Dhanbad*) ; Suresh Chandra Choudhury (Jharkhand), (*Dumka*) ; Debi Soren (ST) (Jharkhand), (*Dumka (R)*) ; Brajeshwar Prasad (Cong.), (*Gaya*) ; Quazi S. A. Matin (Janta), (*Giridih*) ; Dr. Syed Mahmud (Cong.), (*Gopalganj*) ; Rajeshwar Patel (Cong.), (*Hajipur*) ; Chandramani Lal Chaudhry (SC) (Cong.), (*Hajipur (R)*) ; Smt. Lalita Rajya Laxmi (Janta), (*Hazaribagh*) ; Shyam Nandan Mishra (Cong.), (*Jainagar*) ; M. K. Ghosh (Cong.), (*Jamshedpur*) ; Awadhesh Kumar Singh (Cong.).* (*Katihar*) ; Dwarka Nath Tiwari (Cong.), (*Kesaria*) ; Jiyalal Mandal (Cong.), (*Khagaria*) ; Mohammad Tahir (Cong.), (*Kishanganj*) ; Ignace Beck (ST) (Jharkhand), (*Lohardaga(R)*) ; Aniruddha Singh (Cong.), (*Madhubani*) ; Mahendra Nath Singh (Cong.), (*Maharajganj*) ; Banarsi Prasad Sinha (Cong.), (*Monghyr*) ; Nayan Tara Das (SC) (Cong.), (*Monghyr (R)*) ; Asoka Mehta (P.S.P.), (*Muzaffarpur*) ; Kailash Pati Singh (Cong.), (*Nalanda*) ; Smt. Satyabhama Devi (Cong.), (*Nawada*), Ramdhani Das (SC) (Cong.), (*Nawada (R)*), Gajendra Prasad Sinha (Cong.), (*Palamau*) ; Sarangdhara Singh (Cong.), (*Patna*), Digvijaya Narain Singh (Cong.), (*Pupri*), Phanigopal Sen (Cong.) (*Purnea*), Paika Murmu (ST) (Cong.), (*Rajamahal (R)*) ; M. R. Masani (Jharkhand), (*Ranchi East*) ; Jaipal Singh (ST) (Jharkhand), (*Ranchi West (R)*), Lalit Narain Mishra (Cong.), (*Saharsa*), Bhola Sardar (SC) (Cong.), (*Saharsa (R)*) ; Satya Narain Sinha (Cong.), (*Samastipur*) ; Ram Subhag Singh (Cong.), (*Sasaram*) ; Jagjiwan Ram (SC) (Cong.), (*Sasaram (R)*) ; Bahram Bhagat (Cong.), (*Shahabad*), Shambhu Charan Godsora (ST) (Jharkhand), (*Singhbhum (R)*), Acharya J. B Kripalani (P.S.P.), (*Sitamarhi*) ; Jhulan Singh (Cong.) (*Siwan*)

BOMBAY—66

Indulal Kanaiyalal Yagnik (Ind.), (*Ahmedabad*), Karsandas Chakbhai Parmar (SC) (R.P.I.), (*Ahmedabad (R)*) ; Raghunath Keshav Khadilkar (Ind.), (*Ahmednagar*) ; Gopalrao Bajirao Khedkar (Cong.), (*Akola*) ; Laxman Shrawan Bhatkar (SC) (Cong.), (*Akola (R)*) ; Dr. Panjabrao Shamrao Deshmukh (Cong.), (*Amravati*) ; Smt Maniben Vallabhbhai Patel (Cong.), (*Anand*) ; Swami Ramanand Tirth (Cong.), (*Aurangabad*) ; Akharbhai Dalumiya Chavda (Cong.), (*Banaskantha*) ; Keshavrao Marutirao Jedhe (Cong.), (*Baramati*) ; Fatehsinhrao Pratapsinhrao Gaekwad (Cong.), (*Baroda*) ; Ramchandra Martand Hajarnavis (Cong.), (*Bhandara*) ; Balkrishna Ramchandra Wasnik (SC) (Cong.), (*Bhandara (R)*) ; Raknamaji D. Patil (Cong.), (*Bhir*) ; Shripad Amrit Dange (C.P.I.), (*Bombay City Central*) ; Gopal Kaluji Manay (SC) (R.P.I.), (*Bombay City Central (R)*) ; V. K. Krishna Menon (Cong.), (*Bombay City North*) ; Sadashib Kanoji Patil (Cong.), (*Bombay City South*) ; Chandrashanker Manishanker Bhat (Cong.), (*Broach*) ; Shioram Rango Rane (Cong.), (*Buldana*) ; Nanubhai Nichhabhai Patel (ST) (Cong.), (*Bulsar (R)*) ; V. N. Swami (Cong.), (*Chanda*) ; Uttamrao Laxman Patil (J.S.), (*Dhulia*) ; Jaljibhai Koyabhai Dindod (ST) (Cong.), (*Dohad (R)*) ; Naushir Curseti Bharucha (P.S.P.), (*East Khandesh*) ; Smt. Jayaben Vajubhai Shah (Cong.), (*Girnar*) ; Balvantrai Gopalji Mehta (Cong.), (*Gohilwad*) ; Jaisukhlal Lalshanker Hathi (Cong.), (*Halar*) ; A. V. Ghare (Ind.), (*Jalna*) ; Thakoreshri Fatesinhji Ghodasar (Ind.), (*Kaira*) ; Dajisaheb Ramrao Chavan (P.W.P.), (*Karad*) ; Balasaheb Dagadujl Salunke (R.P.I.), (*Khed*) ; Rajaram Balkrishna Raut (P.W.P.), (*Kolaba*) ; Bhausaheb Raosaheb Mohagaonkar (P.W.P.), (*Kolhapur*) ; Shankarrao Khanderao Dige (SC) (R.P.I.), (*Kolhapur (R)*) ; Bhavanji Arjan Khimji (Cong.), (*Kutch*) ; Bapu Chandrasen Kamble (R.P.I.), (*Koperguon*) ; Manubhai Mansukhlal Shah (Cong.), (*Madhya Saurashtra*) ; Yadav Narayan Jadhav (P.S.P.), (*Malegaon*) ; Chhaganlal Madaribhai Kedaria (ST) (Cong.), (*Mandvi (R)*) ; Purushottamdas Ranchanddas Patel (Ind.), (*Mehsana*) ; Balwant *alias* Bapusaheb Pandurang Patil (P.W.P.), (*Miraj*) ; Smt. Anasuyabai Purshottam Kale (Cong.), (*Nagpur*) ; Harihar Rao Sonule (R.P.I.), (*Nanded*) ; Deorao Namdeorao Kamble (SC) (Cong.), (*Nanded (R)*) ; Bhaurao Krishnarao Gaikwad (R.P.I.), (*Nasik*) ; V. S Naldurgker (Cong.), (*Osmanabad*) ; Manekla! Manganlal Gandhi (Cong.), (*Panchmahals*) ; N. K. Patil (Cong.), (*Parbhani*) ; Motisinh Bahadur sinh Thakore (Ind.), (*Patan*) ; Narayan Ganesh Gore (P.S.P.), (*Poona*) ; Nath Bapu Pai (P.S.P.), (*Rajapur*) ; Krishnarao Gulabrao Deshmukh (Cong.), (*Ramtek*) ; Premjibhai Ranchoddas Assar (J.S.), (*Ratnagiri*) ; Gulzarilal Bukkhiram Nanda (Cong.), (*Saburkantha*) ; Nana Rajachandra Patil (C.P.I.), (*Satara*) ; Jayawant Ghanasham More (Ind.), (*Sholapur*), Tayappa Hari Sonawane (SC) (Cong.), (*Sholapur (R)*), Narendrabhai Nathwani (Cong.), (*Surath*), Morarji Ranchhodji Desai (Cong.), (*Surat*), Shamrao Vishnu Parulekar (C.P.I.), (*Thana*), Laxman Mahadu Matera (ST) (C.P.I.), (*Thana (R)*) ; Kamalnayan Jamnalal Bajaj (Cong.) (*Wardha*), Laxman Vedu Valvi (ST) (P.S.P.), (*West Khandesh (R)*) ; Deorao Yeshwant Gedekar (Cong.), (*Yeotmal*) ; Ghanshyambal Oza (Cong.), (*Zalawad*).

JAMMU AND KASHMIR 6†

Bakhshi Abdul Rashid, Thakur D. S. Mehtora, Smt. Krishna Mehta, Maulana Abdur Rahman ; Sheikh Mohammad Akbar, V. M. Tarkunde, Oza (Cong.), (*Zalawad*).

KERALA—18

P. T. Punnoose (C.P.I.), (*Ambalapuzha*), Dr K. B. Menon (P.S.P.), (*Badagara*), M. K. Kumaran (C.P.I.), (*Chirayinkil*) ; V. M. Thomas (Cong.), (*Ernakulam*) ; A. K. Gopalan (C.P.I.), (*Kasaragod*), Mathew Manimgadan (Cong.), (*Kottayam*), Kuttikrishnan Nair (Cong.), (*Kozhikode*), E. Pocker (Ind.), (*Manjeri*) ; George Thomas Kottukapally (Cong.), (*Muvattupuzha*), P. T. N. Menon (C.P.I.), (*Mukundapuram*), P. Kesavan (SC) (C.P.I.), (*Palghat (R)*), V. Vishwanathan (Cong.), (*Palghat*), V. P Nair (C.P.I.), (*Quilon*), K Koliyan (SC) (C.P.I.), (*Quilon (R)*), M. K Jina Chandran (Cong.), (*Tellicherry*), K Vasudevan Nair (C.P.I.), (*Thiruvella*), K Warrier (C.P.I.), (*Trichur*), Easwara Iyer (Cong.), (*Trivandrum*).

MADHYA PRADESH—36

C. D. Gautam (Cong.), (*Balaghat*), Vidya Charan Shukla (Cong.), (*Baloda Bazar*), Smt. Minimata (SC) (Cong.), (*Baloda Bazar (R)*), Surti Kistaiya (ST) (Cong.), (*Bastar (R)*), Smt. Maimoona Sultan (Cong.), (*Bhopal*), R. L. Jain (Cong.), (*Bilaspur*) ; Bhikulal Lakhmichandji (Cong.), (*Chhindwara*) ; Narayanrao Wadiwa (ST) (Cong.), (*Chhindwara (R)*) ; Mohan Lal Bakliwal (Cong.), (*Durg*) ; Smt. Vijaya Raje Scindia (Cong.), (*Guna*) ; Radhacharan Sharma (Cong.), (*Gwalior*) ; Sooraj Prasad *alias* Suraj Prasad (SC) (Cong.), (*Gwalior (R)*) ; Maganlal Radhakishan Bagdi (Cong.), (*Hoshangabad*), Kanhaiyalal Khadiwala (Cong.), (*Indore*), Seth Govinddas (Cong.), (*Jabalpur*) ; Amar Singh Saigal (Cong.), (*Janjgir*) ; Amarsingh Damor (ST) (Cong.), (*Jhabua (R)*) ; R. S. Tiwari (Cong.), (*Khajuraho*) ; Moti Lal Malviya (SC) (Cong.), (*Khajuraho (R)*) ; M. G. Ulkey (ST) (Cong.), (*Mandla (R)*) ; Manakbhai Agrawal (Cong.), (*Mandsaur*) ; Ramsingh Varma (Cong.), (*Nimar*), Baboolal Tiwari (Cong.), (*Nimar Khanwa*), Raja Virendra Bahadur Singh (Cong.), (*Rajgarh*), Rani Kesar Kumari Devi (ST) (Cong.), (*Rajgarh (R)*) ; Shiv Datt Upadhyaya (Cong.), (*Rewa*) ; Pt. Jwala Prasad Jyotishi (Cong.), (*Sarguja*), Smt. Sahodra Bai Rai (SC) (Cong.), (*Sagar (R)*), Anand Chandra Joshi (Cong.), (*Shahdol*) ; Kunwar

† Nominated by the President. * Death was reported on 18th April 1966.

Naralu Singh (ST) (Cong.), (*Shahdol (R)*); Lilladhar Joshi (Cong.), (*Shajapur*); K. B. Malvia (SC) (Cong.), (*Shajapur (R)*); Pt. Braj Narayan (H M.), (*Shivpuri*); Chandikeshwar Sharan Singh Ju Deo (Cong.), (*Surguja*); Babunath Singh (ST) (Cong.), (*Surguja (R)*); Radhelal Vyas (Cong.), (*Ujjain*).

MADRAS—41

R. Kanagasabai Pillai (Cong.) (*Chidambaram*); I Elayaperumal (SC) (Cong.), (*Chidambaram (R)*); Dr. A. Krishnaswamy (Ind.), (*Chingleput*); V Sivraj (SC) (R.P.I.), (*Chingleput (R)*); Smt Parvathi Krishnan (C.P.I.), (*Coimbatore*); I D. Muthukumarasamy Naidu (Ind.), (*Cuddalore*); Gulam Mohideen (Cong.), (*Dindigul*); Balakrishnan (SC) (Cong.), (*Dindigul (R)*); K. S. Ramasami (Cong.), (*Gobichettipalayam*); K Perlaswami Gounder (Cong.), (*Karur*); C. R. Narasimhan (Cong.), (*Krishnagiri*); C. R. Pattabhiraman (Cong.), (*Kumbakonam*); S. C. C. Anthony Pillai (Ind.), (*Madras North*); T. T. Krishnamachari (Cong.), (*Madras South*); K. T. K. Thangamani (C.P.I.), (*Madurai*); K. R. Sambandam (Cong.), (*Nagapattinam*); M Ayyakannu (SC) (Cong.), (*Nagapattinam (R)*); Thanulingom Nadar (Cong.), (*Nagercoil*); E. V. K. Sampath (Ind.), (*Namakkal*); S. R. Arumugham (SC) (Cong.), (*Namakkal (R)*); C Nanjappan (Cong.), (*Nilgiris*); M. Palaniandi (Cong.), (*Perambalur*); Narayanaswamy (Cong.), (*Periyakulam*); P. R. Ramakrishnan (Cong.), (*Pollachi*); R. Ramanathan Chettiar (Cong.), (*Pudukkottai*); P. Subbiah Ambalam (Cong.), (*Ramanathapuram*); S. V. Ramaswami (Cong.), (*Salem*); U. Muthuramalinga Thevar (Ind.), (*Sivagiriputhur*); R. S. Arumugam (SC) (Cong.), (*Sivagiriputhur (R)*); A. Vairavan (Cong.), (*Tanjore*); M. Sankarapandian (Cong.), (*Tenkasi*); N. P. S. Gounder (Ind.), (*Tindivanam*); T. Ganapathy (Cong.), (*Tiruchendur*); Dr. P. Subbarayan (Cong.), (*Tiruchengode*); M. K. M Abdul Salam (Cong.), (*Tiruchirappalli*); Thanu Pillai (Cong.), (*Tirunelveli*); A. Duraiswamy Gounder (Cong.), (*Tiruppattur*); R. Govindarajulu Naidu (Cong.), (*Tiruvallur*); R. Dharmalingam (Ind.), (*Tiruvannamalai*); N. R. Muniswami (Cong.), (*Vellore*); M. Muthukrishnan (SC) (Cong.), (*Vellore (R)*).

MYSORE—26

H C. Dasappa (Cong.), (*Bangalore*); N. Keshava Iyengar (Cong.), (*Bangalore City*); B N. Datar (Cong.), (*Belgaum*); T. Subramanyam (Cong.), (*Bellary*); Suganthi Murigeppa Siddappa (Ind.), (*Bijapur North*); Bidari Ramappa Balappa (Cong.), (*Bijapur South*); Katti Datta Appa (R P I.), (*Chikodi*); Musheer-Ul Mulk J. M. Mashmed Imam (P.S.P.), (*Chitaldrug*); D. P. Karmarkar (Cong.), (*Dharwar North*); Neshwi Thimmappa Rudrappa (Cong.), (*Dharwar South*); Mahadevappa Rampure (Cong.), (*Gulbarga*); Shankar Deo (SC) (Cong.), (*Gulbarga (R)*); Siddananjappa (Cong.), (*Hassan*); Joachim Alva (Cong.), (*Kanara*); K. C. Reddi (Cong.), (*Kolar*); Dodda Thimmaiah (SC) (Cong.), (*Kolar (R)*); Sangappa A Agadi (Cong.), (*Koppal*); M. K. Shivananjappa (Cong.), (*Mandya*); K. R. Achar (Cong.), (*Mangalore*); M. Shankariah (Cong.), (*Mysore*); S. M. Siddiah (SC) (Cong.), (*Mysore (R)*); G. S. Melkote (Cong.), (*Raichur*); K. G. Wodeyar (Cong.), (*Shimoga*); C. R. Basappa (Cong.), (*Tiptur*); M. V. Krishnappa (Cong.), (*Tumkur*); U. Srinivasa Malliah (Cong.), (*Udipi*).

ORISSA—20

Badkumar Pratap Ganga Deb (G.P.), (*Angul*); Bhagabat Sahu (Cong.), (*Balasore*); Kanhu Charan Jena (SC) (Cong.), (*Balasore (R)*); Srusinha Charan Samantsinhar (Cong.), (*Bhubaneshwar*); Nityanand Kanungo (Cong.), (*Cuttack*); Surendra Mohanty (G.P.), (*Dhenkanal*); Lenacharan Patanik (Ind.), (*Ganjam*); Mohan Nayak (SC) (Cong.), (*Ganjam (R)*); H. H. Maharaja Pratap Keshari Deo (G.P.), (*Kalahandi*); Bijoya Chandra Prodhan (ST) (G.P.), (*Kalahandi (R)*); Surendranath Dwivedy (P.S.P.), (*Kendrapara*); Balshnab Charan Mallick (SC) (P.S.P.), (*Kendrapara (R)*); Laxminarayan Bhanja Deo (Ind.), (*Keonjhar*); Jagannatha Rao (Cong.), (*Koraput*); Toyaka Sanganna (ST) (Cong.), (*Koraput (R)*); Ramchandra Majhi (ST) (Ind.), (*Mayurbhanj (R)*); Chintamani Panigrahi (C P I.), (*Puri*); Sradhakar Supakar (G P.), (*Sambalpur*); Banamali Kumbhar (SC) (G P.), (*Sambalpur (R)*); Chandramani Kalo (ST) (G.P.), (*Sundergarh (R)*).

PUNJAB—22

Smt. Subhadra Joshi (Cong.), (*Ambala*); Chunil Lal (SC) (Cong.), (*Ambala (R)*); Sardar Gurmukh Singh Musafir (Cong.), (*Amritsar*); Sardar Hukam Singh (Cong.), (*Bhatinda*); Sardar Ajit Singh (SC) (Cong.), (*Bhatinda (R)*); Sardar Iqbal Singh (Cong.), (*Ferozepur*); Prof. Diwan Chand Sharma (Cong.), (*Gurdaspur*); Prakash Vir Shastri (Ind.), (*Gurgaon*); Thakurdas Bhargava (Cong.), (*Hissar*); Sardar Baldev Singh (Cong.), (*Hoshiarpur*); Partap Singh Daulta (C P I.), (*Jhajjar*); Sardar Swaran Singh (Cong.), (*Jullundur*); Sadhu Ram (SC) (Cong.), (*Jullundur (R)*); Mool Chand Jain (Cong.), (*Kaithal*); Hem Raj (Cong.) (*Kangra*); Daljit Singh (SC) (*Kangra (R)*); Sardar Ajit Singh Sarhadi (Cong.), (*Ludhiana*); Bahadur Singh Singh (SC) (Cong.), (*Ludhiana (R)*); Ram Krishan (Cong.), (*Mohindergarh*); Lala Achint Ram (Cong.), (*Patiala*); Ranbir Singh (Cong.), (*Rohtak*); Sardar Surjit Singh Majithia (Cong.), (*Tarn-Taran*).

RAJASTHAN—22

Mukat Behari Lal Bhargava (Cong.), (*Ajmer*); Shobha Ram (Cong.), (*Alwar*); Bhogji Bhai (ST) (Cong.) (*Banswara (R)*); H H Maharaja Raghunath Singh (Ind.), (*Barmer*); Raj Bahadur (Cong.), (*Bharatpur*), Ramesh Chandra Vyas (Cong.), (*Bhilwara*); H. H. Maharaja Karni Singh (Ind.), (*Bikaner*); Panna Lal Barupal (SC) (Cong.), (*Bikaner (R)*); Gajadhar Hajarimal Somani (Cong.), (*Dausa*); H. C Sharma (Ind.), (*Jaipur*); Suraj Ratan Damani (Cong.), (*Jalore*); Radhey Shyam Morarka (Cong.), (*Jhunjhunu*); Jaswant Raj Mehta (Cong.), (*Jodhpur*); Nemichandra Kasliwal (Cong.), (*Kotah*); Onkarlal (SC) (Cong.), (*Kotah (R)*); Mathuradas Mathur (Cong.), (*Nagaur*); Harish Chandra Mathur (Cong.), (*Pali*); Hiralal Shastri (Cong.), (*Sawai Madhopur*); J. N. P Pahadia (SC) (Cong.), (*Sawai Madhopur (R)*); Rameshwar Tantia (Cong.), (*Sikar*); Manikya Lal Varma (Cong.), (*Udaipur*); Deen Bandhu Parmar (ST) (Cong.), (*Udaipur (R)*).

UTTAR PRADESH—86

Seth Achal Singh (Cong.), (*Agra*); Lal Bahadur Shastri (Cong.), (*Allahabad*); Jamal Khwaja (Cong.), (*Aligarh*); Nardeo Snatak (SC) (Cong.), (*Aligarh (R)*); J. B. S. Bist (Cong.), (*Almora*); Hifzur Rahman (Cong.), (*Amroha*); Kalika Singh (Cong.), (*Azamgarh*); Vishwanath Prasad (SC) (Cong.), (*Azamgarh (R)*); Jogendra Singh (Cong.), (*Bahraich*); Attal Behari Vajpayee (J S.), (*Balrampur*); Dinesh Singh (Cong.), (*Banda*); Ram Sewak Yadav (Ind.), (*Bara Banki*); Swami Ramanand (SC) (Cong.), (*Bara Banki (R)*); Radha Mohan Singh (Cong.), (*Bareilly*); Keshava Deva Malaviya (Cong.), (*Basti*); Ram Garib (SC) (Ind.), (*Basti (R)*); Jagdish Awasthi (Ind.), (*Bilhaur*); Abdul Lateef (Cong.), (*Bijnor*); Chaudhary Badan Singh (*Cong.*), (*Bisauli*); Raghubir Sahai (Cong.), (*Budaun*); Raghubar Dayal Mishra (Cong.), (*Bulandshahr*); Kanahiya Lal Balmiki (SC) (Cong.), (*Bulandshahr (R)*); Tribhuwan Narayan Singh (Cong.), (*Chandauli*); Mahavir Tyagi (Cong.), (*Dehra Dun*); Ramji Verma (P.S.P.), (*Deoria*); Ram Shankar Lal (Cong.), (*Domariaganj*); Rohan Lal Chaturvedi (Cong.), (*Etah*); Arjun Singh Bhadauria (Ind.), (*Etawah*); Tula Ram (SC) (Cong.), (*Etawah (R)*); R. R. Misra (Cong.), (*Faizabad*); Panna Lal (SC) (Cong.), (*Faizabad (R)*); Moolchand Dube (Cong.), (*Farrukhabad*); Ansar Harvani (Cong.), (*Fatehpur*); Raj Raj Singh (Ind.), (*Firozabad*); Bhakta Darshan (Cong.), (*Garhwal*); Har Prasad Singh (Cong.), (*Ghazipur*); Umrao Singh (Cong.), (*Ghosi*); Sinhasan Singh (Cong.), (*Gorakhpur*); Mahadeo Prasad (SC) (Cong.), (*Gorakhpur (R)*); Dinesh Pratap Singh (Cong.), (*Gonda*); M. L. Dwivedi (Cong.), (*Hamirpur*); Lachchhiram (SC) (Cong.), (*Hamirpur (R)*); Krishna Chandra Sharma (Cong.), (*Hapur*); Chheda Lal Gupta (Cong.), (*Hardoi*); Sheodeen Drohar (SC) (J.S.), (*Hardoi (R)*); Kashinath Pandey (Cong.), (*Hata*); Krishna Chandra (Cong.), (*Jalesar*); Birbal Singh (Cong.), (*Jaunpur*); Ganapati Ram (SC) (Cong.), (*Jaunpur (R)*); Dr. Sushila Nayar (Cong.), (*Jhansi*); S. M. Banerjee (Ind.), (*Kanpur*); B. D. Misra (Cong.), (*Kaisargauj*); Khushwaqt Rai *alias* Bhaiyalal (P S.P.), (*Kheri*); Pulin Behari Banerjee (Cong.), (*Lucknow*); Prof. Shibban Lal Saxena (Ind.), (*Maharajganj*); Bansi Das Dhanagar (P S.P.), (*Mainpuri*); Raja Mahendra Pratap (Ind.), (*Mathura*); Shah Nawaz Khan (Cong.), (*Meerut*); J. N. Wilson (Cong.), (*Mirzapur*); Rup Narain (SC) (Cong.), (*Mirzapur (R)*); Ram Saran (Cong.), (*Moradabad*); Dr. Balkrishna Vishwanath Keskar (Cong.), (*Muzaffarkhana*); Sumat Prasad (Cong.), (*Muzaffarnagar*); C. D. Pande (Cong.), (*Naini Tal*); Jawaharlal Nehru (Cong.), (*Phulpur*); Masuriya Din (SC) (Cong.), (*Phulpur (R)*); Mohan Swarup (P.S.P.), (*Pilibhit*); Pt. Munishwar Dutt Upadhyay (Cong.), (*Pratapgarh*); Feroze Gandhi (Cong.), (*Rai Bareli*); Baijnath Kureel (SC) (Cong.), (*Rai Bareli (R)*); Syed Ahmad Mehdi (Cong.), (*Rampur*); Sarju Pandey (C.P.I.), (*Rasra*); Ajit Prasad Jain (*Cong.*), (*Saharanpur*); Sunder Lal (SC) (Cong.), (*Saharanpur (R)*); Bishwanath Roy (Cong.), (*Salempur*); Vishnu Sharan Dublish (Cong.), (*Sardhana*); Bishan Chandar Seth (Ind.), (*Shahjahanpur*); Narain Din (SC) (Cong.), (*Shahjahanpur (R)*); Smt. Uma Nehru (Cong.), (*Sitapur*); Paragi Lal (SC) (Cong.), (*Sitapur (R)*); Pt Govind Malvia (Cong.), (*Sultanpur*); H H Maharaja Manabrendra Shah (Cong.), (*Tehri Garhwal*); V. D. Tripathi (Cong.), (*Unnao*); Smt. Ganga Devi (SC) (Cong.), (*Unnao (R)*); Raghunath Singh (Cong.), (*Varanasi*).

WEST BENGAL—36

Atulya Ghosh (Cong.), (*Asansol*); Mono Mohon Das (SC) (Cong.), (*Asansol (R)*); Dr. R G. Bandyopadhyaya (Cong.), (*Bankura*); Dr. Pashupati Mandal (SC) (Cong.), (*Bankura (R)*); Arun Chandra Guha (Cong.), (*Barasat*), Bimal Comar Ghose (P S P.), (*Barrackpore*); Smt. Renu Chakravarty (C P I.), (*Basirhat*); Paresh Nath Kayal (SC) (Cong.), (*Basirhat (R)*); Tridib K. Chaudhuri (Ind.), (*Berhampore*); Anil K. Chanda (Cong.), (*Birbhum*); Kamal Krishna Das (SC) (Cong.), (*Birbhum (R)*); Subimar Ghosh (F.B. (M)), (*Burdwan*); Hirendra Nath Mukherjee (C.P.I.), (*Calcutta Central*); Sadhan Chandra Gupta (C.P I.), (*Calcutta East*); Asoke Kumar Sen (Cong.), (*Calcutta North-West*); Biren Roy (Ind.), (*Calcutta South-West*); Pramathanath Banerjee (P.S.P.), (*Contai*); Nalini Rajan Ghosh (Cong.), (*Cooch Behar*); Upendranath Barman (SC) (Cong.), (*Cooch Behar (R)*); T. Manaen (Cong.), (*Darjeeling*); Purnendu Sekhar Naskar (SC) (Cong.), (*Diamond Harbour*); Kansari Halder (SC) (C P I.), (*Diamond Harbour (R)*); Nikunja Behari Maity (Cong.), (*Ghatal*); Muhammed Elias (C.P.I.), (*Howrah*); Prabhat Kar (C.P I.) (*Hooghly*); Smt. Renuka Ray (Cong.), (*Malda*); Narasingha Malla Deb (Cong.), (*Midnapur*); Subedh Hansda (ST) (Cong.), (*Midnapur (R)*); Muhammed Khuda Bukhsh (Cong.), (*Murshidabad*); Smt. Ila Pal Chowdhury (Cong.), (*Nabadwip*); Bibhuti Bhusan Dasgupta (Ind.), (*Purulia*); Jitendra Nath Lahiri (Cong.), (*Serampore*); Satish Chandra Samanta (Cong.), (*Tamluk*); Aurobindo Ghosal (F.B. (M)), (*Uluberia*); Chapalakanta Bhattacharyya (Cong.), (*West Dinajpur*); Mardi Selku (ST) (Cong.), (*West Dinajpur (R)*).

ANDAMANS

Lachhman Singh (Nominated).

DELHI—5

Smt. Sucheta Kripalani (Cong.), (*New Delhi*) Radha Raman (Cong.), (*Chandni Chowk*); Choudhury Brahm Perkash (Cong.), (*Delhi Sadar*); C. Krishanan Nair (Cong.), (*Outer Delhi*); Naval Prabhakar (SC) (Cong.), (*Outer Delhi (R)*).

Note.—R. P. I. = Republican Party of India.

HIMACHAL PRADESH—4

Dr. Y. S. Parmar (Cong.),* (*Mahasu*); Nek Ram Negi (Cong.), (*Mahasu (R)*); Joginder Sen-Mandi (Cong.) (*Mandi*); Padam Dev (Cong.) (*Chamba*).

LACCADIVES

Koyilat Nallakoya (Nominated).

MANIPUR—2

Laisram Achaw Singh (Ind.), (*Inner Manipur*); Rungsung Suisa (ST) (Cong.), (*Outer Manipur (R)*).

TRIPURA—2

Dasaratha Deb (C.P.I.) (*Tripura*); Bangshi Thakur (ST) (Cong.), (*Tripura (R)*).

ANGLO-INDIANS—2†

Frank Anthony; A. E. T. Barrow.

ESTIMATES COMMITTEE

B. G. Mehta (*Chairman*).

S. A. Dange, Jogendra Singh, Mahavir Tyagi, Satyendra Narayan Sinha, Radha Charan Sharma, Ranbir Singh Chaudhuri, Gopalrao Khedkar, Mrs. Sucheta Kripalani, R. R. Morarka, M. Thirumala Rao, J. Rameshwar Rao, C. R. Narasimhan, Amjad Ali, R. Ramanathan Chettiar, Ahmed Mohiuddin, Mrs. Renuka Ray, Uma Charan Patnaik, Raghubir Sahai, Pandit Dwarka Nath Tiwary, Govind Malaviya, R. L. Jangde, N. C. Kasliwal, Dodda Thimmaia, M. L. Dwivedi, A. E. T. Barrow, V. P. Nayar, R. K. Khadilkar, B. K. Gaikwad, Shraddhak Supakar.

PUBLIC ACCOUNTS COMMITTEE

T. N. Singh (*Chairman*), Dr. Ram Subhag Singh, Arun Chandra Guha, N. R. M. Swami, Pandit Jwala Prasad Jyotishi, Rameshwar Sahu, T. Sanganna, Upendranath Barman, Prabhat Kar, N. G. Ranga, H. C. Dasappa, Khushwaqt Rai, N. Siva Raj, Aurobindo Ghose, Jaipal Singh, Rajkumari Amrit Kaur, Amolakh Chand, T. R. Deogirikar, S. Venkataraman, M. Govinda Reddy, Rohit Manushankar Dave, M. Basavapunnaiah.

HOUSING AND MISCELLANEOUS

ALL INDIA SERVICES

During 1957-58, 341 officers were appointed to the Indian Administrative Service, 77 through competitive examination, 84 by promotion from State services and 180 under the Special Recruitment Scheme.

The number of I.P.S. officers was 102, 65 through competitive examination and 37 by promotion from State Services.

Upto March 1958, 180 officers belonging to State services were appointed to the I.A.S. under the Special Recruitment Scheme.

CENTRAL GOVERNMENT EMPLOYEES

No. drawing upto Rs. 250 per month—15,89,243.

No. drawing between Rs. 250 and Rs. 300 per month—12,038.

The figures are as on 30th June 1955.

CRIME

No. of cognizable offences in India in 1954: 5,56,912. In 1955: 5,35,236.

Dacoities fell by 11·4%, robberies by 11·7%, house-breaking by 8·1%, criminal breach of trust by 7·7%, theft by 5·3%.

Rioting cases increased by 3·7% and kidnapping and abduction by 0·3%.

The decrease was noted for Bombay, U.P., Bihar, M.P., W. Bengal, Madras, though in all these States the number of cases was more than 50,000 for each State.

Sixty police officers were killed and 1,570 injured while performing their duty.

FAMILY PLANNING

Two hundred and seventy-three family planning clinics were opened in the rural areas upto April 1958.

The total number of clinics proposed to be opened during the Second Plan period is 2,000 phased as follows: 1956-57, 100; 1957-58, 200; 1958-59, 300; 1959-60, 600; and 1960-61, 800.

During 1957-58 a total amount of Rs. 3,90,457 was sanctioned as grants-in-aid to the family planning programme in the rural areas. Of this amount Rs. 2,81,987 was sanctioned to the State Governments and Rs. 1,08,470 to voluntary organisations.

HOUSING

It is estimated that in 1951 the shortage of houses was about 2·5 million on the assumption that each house-hold should have a separate house.

The total urban population was 61·9 million, occupied houses 10·3 million and house-holds 12·8 million.

The number of houses required to be constructed during 1951-61 to meet the shortage is estimated at 8·9 million. It is also calculated that during this period only about three million dwelling units would be constructed in urban areas. Thus housing shortage in 1961 would be about five million.

The total provision for housing in the Second Plan is Rs. 120 crores, which is more than three times the provision in the First Plan.

In the First Plan period about 1·3 million houses were constructed (742,000 by public authorities and 600,000 by private).

During the Second Plan period it is proposed to construct 1·9 million units.

Apart from finance proposals generally made include the setting up of State Housing Boards, Housing Corporations, legislation to peg land values and facilitate land acquisition. There is also a suggestion that every employer should build at least a reasonable number of houses for his workers.

Housing schemes in operation are slum clearance, industrial housing, low-income group, middle-income group, housing for Scheduled Castes, rural housing and plantation labour housing.

The Slum Clearance Scheme came into operation in May 1956.

Upto 12th Feb. 1958, 124 projects with provision for 9,404 plots and 31,641 tenements at a total cost of Rs. 17·5 crores were received from the State Governments. Of these 49 projects were sanctioned. Amount proposed to be disbursed during the Second Plan is Rs. 11·4 crores. Amount disbursed till 12th Feb. 1958 was a little over Rs. 21 lakhs (represents loan portion only). Two-thirds of the amount is loan and one-third subsidy. The State Government has to find a matching subsidy from its own resources.

Bombay has the largest number of projects—36 with provision for 12,988 tenements. West Bengal has 4 projects with 9,296 tenements.

The total amount of money needed for slum clearance in the country is estimated at between Rs. 10,000 and 20,000 crores.

Under the Subsidised Industrial Housing Scheme 66,700 out of 91,250 authorized for construction were completed upto the end of Jan. 1958. The Scheme was introduced in Sept. 1952. Upto Jan. 1958 the total financial aid sanctioned and dispersed amounted to Rs. 25·79 crores and Rs. 17·32 crores respectively. The allocation for 1957-58 was Rs. 4 crores and the amount disbursed till Jan. 31, 1958 was Rs. 66 lakhs.

Ninety per cent is by way of loan and 10 per cent subsidy.

The total provision under the Second Plan is Rs. 45 crores. About 1,28,000 tenements are expected to be built.

The houses sanctioned and built respectively as at the end of 1957 State-wise:

Andhra: 3,819; 2,312. Assam: 314; nil. Bihar: 4,441; 4,120. Bombay: 32,026; 21,167. Delhi: 1,424; 1,424. Kerala: 200; 180. Madhya Pradesh: 6,494; 5,206. Madras: 2,086; 1,460. Mysore: 6,827; 5,883. Orissa: 1,402; 1,120. Punjab: 3,013; 1,729. Rajasthan: 2,652; 1,560. U.P.: 21,218; 18,622. West Bengal: 3,078; 1,920.

The houses are built by Government employers and Co-operatives.

The Low-Income Group Housing was started in Nov. 1954. Till the end of January 1958 the amount disbursed by the Central Government to the States was Rs. 10·14 crores. The amount sanctioned for 1957-58 was Rs. 6 crores and the amount disbursed upto the end of Jan. 1958 was Rs. 55 lakhs.

The Second Plan target is 68,000 houses.

The State Governments and local bodies can now build houses themselves and either sell them outright or on hire-purchase or rent them to tenants. This has to be on a no-profit basis. Also not more than 25% of the loan can be given to State employees. Ten per cent of the funds received from the Central Government should be earmarked for eligible individuals.

Under the Rural Housing Programme there is a provision of Rs. 10 crores under the Second Plan. About 5,000 villages will be covered by the end of the Plan.

Each project will cover 4 to 6 adjacent villages in the C.D. or N.E.S. areas.

During the first phase of the programme U.P. will have 17 projects, Bihar 12, Bombay 9, Andhra 9, M.P. 7, Madras 7, W. Bengal 7, Mysore 5, Kerala, Orissa, Punjab and Rajasthan 4 each, Assam 3, Kashmir 1. Union Territories will also have one project each.

In the first phase (Oct 1957) 500 villages are to be covered, and another 1,000 will be added in 1958-59.

There is a ceiling of Rs. 1,500 on a Landless house. In 1957-58 Rs. 50 lakhs were allocated.

About Plantation Labour Housing only the Kerala Government drew Rs. 1·50 lakhs upto the end of Jan. 1958) for disbursement of loans to planters. The total Central allocation for 1957-58 is Rs. 25 lakhs.

About the Middle-Income Group housing Government have accepted the Planning Commission recommendation that the Second Plan allocation of Rs. 3 crores should be diverted to other Schemes. Government are now investigating the possibility of the Life Insurance Corporation advancing loans to this group.

House-building advances to Central Government servants were started in 1956. Upto the end of Jan. 1958, 353 applications were received out of which 112 involving grant of loans totalling Rs. 14·24 lakhs were sanctioned.

NATIONAL INCOME

Figures for national income at the 1948-49 level of prices:

1956-57: Rs. 11,010 crores; 1955-56: Rs. 10,480 crores; 1954-55: Rs. 10,280 crores.

Figures for per capita income at 1948-49 level of prices:

1956-57: Rs. 284·0; 1955-56: Rs. 276·0; 1954-55: Rs. 271·9.

The estimates for 1956-57 are based on partial material and are subject to revision.

* Election void.

† Nominated by the President.

AKHIL BHARAT HINDU MAHASABHA

(Hindu Mahasabha Bhawan, Reading Road, New Delhi.)

President : N. C. Chatterjee.

Acting President : Mahant Digvijaynath.

Vice-Presidents : Debendra nath Mookerjee ; Prof. Ram Singh ; Bhagirath Motha.

Acting General Secretary : Niranjan Verma.

Organising Secretary : Brij Narain Brajesh, M P

Treasurer : Seth Bishan Chand, M P.

Total membership of Party : 3,00,000.

Strength in the Lok Sabha : 3.

AIMS AND OBJECTS

The aim of the Hindu Mahasabha is the protection and promotion of all that contributes to the advancement, strength and glory of Hindu Rashtra, Hindu culture and Hindu polity, and as a means to that end, to achieve Hindu Raj and re-establish the integrity of the State of Bharat by constitutional means.

Besides the establishment of 'Akhanda Hindustan' the aims and objects of the Hindu Mahasabha are defined as follows :

The establishment of a really democratic State in Hindustan, based on the culture and Socialist tradition of the land ;

The organisation and consolidation of all sections of the people into one organised whole ;

The creation of a new social order in which all nationals will enjoy equal rights and opportunities and share equal responsibilities ;

The assurance to each national of the dignity of human values and full freedom of thought, expression, association and worship ;

The revival and promotion of the ancient Indian motto of plain living and high thinking, and the glorious ideals of Aryan womanhood ;

Adoption of (Sanskrit-Nishta) Hindi as the national language and Devanagri as the national script of India ;

Removal of all forms of social inequalities and disabilities.

Reclamation of all those who have left the Hindu fold and welcoming of others into the community ;

Ending of gross inequalities in the distribution of wealth, assurance of a decent standard of living to each national, and securing for workers and peasants their rightful share in the economy of the country ;

Industrialisation of the country as rapidly as possible ;

Promotion of cow protection and abolition of cow slaughter ;

Cultivation of friendly relations with other nations with a view to maintaining international peace and progress.

The present Constitution of India is borrowed from the Constitutions of America, England, France and other Western countries and is not suited to the genius of the people The Hindu Mahasabha would undertake the task of amending the Constitution so that it may be in consonance with the tradition and culture of the land and make Bharat a truly democratic Hindu State.

The Hindu Mahasabha wants to discourage all separatist tendencies and hence would amend the Constitution so that Bharat may be a well-knit homogeneous State with a strong centre and not a loose combination of autonomous States Bharat itself would be a State and the units would be provinces and not States.

The Hindu Mahasabha believes in the policy of formation of provinces on a linguistic basis and the readjustment of boundaries of provinces wherever necessary, with due regard to the problems of defence and security, the area, population and economic stability of the province concerned and the rehabilitation of the refugees.

The distinction between States would be removed and all parts of India would enjoy the fullest democratic rights without any distinction.

The Hindu Mahasabha proposes to come out of the Commonwealth in order to make Bharat a really free nation. It will enter into treaty relations with the United Kingdom and other countries for mutual help and co-operation

India's foreign policy will be guided by the principle of enlightened self-interest and reciprocity.

The Hindu Mahasabha will adopt the policy of reciprocity towards Pakistan.

The Hindu Mahasabha will endeavour to build up a strong defence in the present disturbed condition of the international situation and with this object in view, will develop the country as a first rate military power in order to make its voice felt in the United Nations Organisation.

The Hindu Mahasabha will make military education compulsory for all young men between the ages of 18 and 25, who are physically fit and special attention will be paid to industries connected with war machines and materials of all types.

The Hindu Mahasabha will relax the rigours of the Arms Act and issue licences liberally to the inhabitants in border areas

The Hindu Mahasabha recognises the sanctity of private property and guarantees its possession and inheritance to its owners.

All key industries such as electricity, railway, coal and steel mines and industries dealing with war materials and weapons will be owned and controlled by the State. The remaining industries will remain open for private enterprise. In running these industries the Mahasabha assures all investors full facilities to start new industries with State aid and partial exemption from taxation in the initial stages.

The Hindu Mahasabha is convinced that controls, without guaranteeing adequate supply of controlled commodities to the public, are only a nuisance and also often actually lead to blackmarketing and corruption.

The Hindu Mahasabha will give priority to rehabilitation of refugees and would even levy a special tax, if necessary, for the purpose. The Hindu Mahasabha guarantees compensation to all evacuees who have lost their property in Pakistan and will settle the problem of evacuees' properties at Government level speedily. The Hindu Mahasabha also declares that the refugees will become full-fledged citizens of Bharat. The Hindu Mahasabha will take effective steps to recover abducted women from Pakistan.

The Party lays special stress on the reconversion of those who had left Hinduism. It believes that the activities of non-Indian missionaries are harmful to the country. The Party, therefore, demands a ban on foreign missions and the nationalization of Christian churches.

ALL INDIA FORWARD BLOC

(Central Avenue Road, Nagpur.)

Chairman, Hemanta Kumar Basu, M L A

Deputy Chairman, Muthuramalinga Thevar, M P.

General Secretary, R. K. Haldulkar

The aim of the party is to establish socialism through a revolutionary class struggle, as enunciated by Netaji Subhas Chandra Bose.

Number of members in the Rajya Sabha : Nil

Number of members in the Lok Sabha : Three.

Number of members in the State Legislatures : 20.

No of votes polled for Lok Sabha in the general elections, about 10 lakhs.

No of votes polled for the State Assemblies in the general elections : about 17 lakhs.

Total membership of party : about 90,000.

ALL JAMMU & KASHMIR DEMOCRATIC NATIONAL CONFERENCE

Central Office—Srinagar ; Provincial Office for Kashmir Province—Srinagar ; Provincial Office for Jammu Province—Jammu.

Chairman : G. M. Sadiq.

Executive Committee :—

Sardhari Lal Dogra (Ex-Finance Minister), Mir Qasim (Ex-Revenue Minister), D. P. Dhar (Ex-Deputy Home Minister), G. R. Renzu (Ex-Speaker), Ram Piara Saraf, Krishen Dev Sethi, Moti Ram Begra, Syed Hussain Abdul Rehman Rahat, Ghulam Mohd. Mir, Manohar Nath Kaul, Raizada Amar Chand, Sardhari Lal Mahajan, M. L. Misri, Shri Mahashah Nayar Singh.

Policy and Programme :

The policy may be summed up as follows :

Kashmir is an integral part of India—The accession is final and cannot be undone.

There shall be no plebiscite

Friendly relations between India and Pakistan

The autonomy of the State within the Indian Union should be preserved consistent with the States accession to India in respect of defence, foreign affairs and communications and the provisions of the Delhi Agreement.

There shall be no merger.

Foreign intrigue will be resisted.

There should be genuine democracy. The liberties and freedoms embodied in the Indian Constitution should be effective in Kashmir.

An administration free from inefficiency, corruption, red tape.

Suitable elements in the Peace Brigade to be absorbed into the police and be made amenable to police discipline.

Adjustments in the machinery of administration of State-owned industries.

No monopoly control over trade or business by any group.

Reduction in price level and an end to profiteering.

Economic programme embodied in the 'New Kashmir'—social services like health, unemployment benefit, free education, etc.

Strength of Democratic National Conference in Kashmir Legislature : Fifteen in the Assembly and six in the Council.

Total membership of party : about 3 lakhs.

ALL JAMMU & KASHMIR NATIONAL CONFERENCE

(See under article on Jammu and Kashmir.)

BHARATIYA JAN SANGH

(Ajmere Gate, Delhi.)

President, Principal Deva Prasad Ghosh.
General Secretary, Din Dayal Upadhyay.
Secretaries, Atalbehari Vajpayee, M.P.; Jagannathrao Joshi.
Office Secretary, J. P. Mathur.
Total membership of party in country, 600,000.
Strength in the Lok Sabha : 4.
Strength in Rajya Sabha : 1.
Total strength in State Legislatures : 61.

No. of votes polled in elections to Lok Sabha : Over 72 lakhs.

Has branches in all the States. The Praja Parishad of Kashmir is affiliated to it.

AIMS AND OBJECTS

The party has put forward the following programme.

Opposition to copying U.S.A. or U.S.S.R. systems.

Promotion of private enterprise with a lequate checks against concentration of power. The present trends will lead to State capitalism.

Top priority to food, defence, unemployment. Country should be self-sufficient in defence equipment and producer and consumer goods.

Right to work should be a fundamental right. Unemployment benefits.

Is opposed to the mechanization of agriculture.

Economic power should be decentralized.

Spheres of small-scale and large-scale industry should be clearly demarcated. Will promote small-scale industry by reserving markets, encouraging co-operative industries ,giving protection to handloom industry.

Nationalisation of basic industries and defence industries. Other industries subject to supervision and regulation. Is opposed to nationalisation of banking and road transport. The present trend in the nationalisation of industry will destroy democracy.

Indianization of foreign-owned industries (*e.g.* tea, coffee and rubber plantations). In others, two-thirds of investment and staff should be Indian. A ceiling on the profit which can be remitted abroad.

Co-sharing and Co-partnership in industry. Adequate representation of labour on boards of management. Encouragement of labour unions and automatic recognition. A permanent Wage Board. Periodic revision of scales of pay. Rs. 100 as the minimum wage at present. Social security legislation. Special allowance for hazardous jobs. Abolition of the employees' contribution to the Employees' State Insurance scheme. Equal pay for equal work.

Rs. 2,000 as maximum expendable income for individual—to be brought about through taxation and compulsory loans and investment.

Restriction on import of consumer goods as luxury goods. Encouragement of swadeshi. Only swadeshi goods to be used in Government offices.

Generally opposed to indirect taxation. Abolition of Sales Tax and excise duty on the necessities of life such as cloth.

Parity in price between agricultural and industrial goods. Upholds abolition of zamindari and distribution of land to the landless. Rehabilitation grants. Co-operative banks and insurance of villagers and cattle.

Compulsory military training. Establishment of defence industries. Abolition of untouchability and fighting caste feeling to bring about unity in Hindu society. Nationalise non-Hindus by inculcating Bharatiya culture. Will implement recommendations of the Niyogi Committee.

Stands for unitary rather than federal conceptions.

Part of land revenue to Panchayats.

Will abolish Legislative Councils and repeal the Preventive Detention Act and the Public Safety Acts and amend Sections 107, 108, 109 and 144 of the Criminal Procedure Code and Sections 124A and 153 of the I.P.C. to protect civil liberty.

All India services in health, forests and engineering.

Rs. 500 a month as a Minister's salary. Will separate judiciary from executive, abolish honorary magistrates and preserve the system of benches of High Courts.

Strict reciprocity towards Pakistan.

Will press for decent treatment of minorities in Pakistan.

Will press for full compensation for property left by refugees in Pakistan, and no concession in the matter of loans or canal dues.

Kashmir an integral part of India.

No plebiscite in Kashmir; and no special position to Kashmir in the Indian Union, same status as other States.

Non-involvement in foreign affairs. Friendly relations with all Opposition to colonialism and Communist expansion.

Co-operation with U.N.O. Amendment of the Charter to make U.N.O. truly representative of the people. Permanent seat for India in the Security Council. Full support for people's revolt against Western Colonialism or Russian imperialism.

All steps including police action to liberate Goa.

On the question of displaced persons stands for (*i*) immediate payment of small claims, (*ii*) Revaluation of shops and houses, corresponding rents realised towards prices of the tenements, (*iii*) Realisation of values of property on easy instalments spread over thirty years, (*iv*) recovery of amounts up to Rs. 2,000 given as loans. Recommends demanding territory from Pakistan for resettling the refugees.

Is opposed to the extension in the fifteen year limit laid down for the replacement of English by Hindi. Will have a five-year plan for the development of Hindi and other Bharatiya languages. Stands for the inclusion of Sindhi in the list of Bharatiya languages.

Stands for giving Hindi its rightful place in the State of Jammu and Kashmir.

Stands for (1) primary education through the mother tongue, (2) secondary and higher education through the regional language and Hindi as compulsory subject, (3) making learning of one regional language compulsory for Hindi-speaking students, (4) compulsory course of Sanskrit studies, (5) recognition of graduates of Hindi and of other recognised Indian languages as on par with English, (6) autonomy of educational institutions and universities.

Free and compulsory education at the primary and secondary stages. Free education for poor but deserving students at the higher stage.

COMMUNIST PARTY OF INDIA

(7/4, Asaf Ali Road, New Delhi.)

Members of the Secretariat are :

Ajoy Ghosh (General Secretary), S. A. Dange, M. Basavpunniah, B. T. Ranadive, P. C. Joshi, Dr. Z. A. Ahmad, Bhupesh Gupta and A. K. Gopalan.

Membership of the Party : 229,500 at end of March, 1958.

Members in the Lok Sabha : 30 (including one independent).

Members in the Rajya Sabha : 14.

Total Number in the State Assemblies : about 210. In addition, there are 9 Independents elected with the support of the Communist Party (5 of these in Kerala).

Number of votes secured in the general elections of 1957 : Lok Sabha 12,746,056 (including the votes secured by Independents supported by the Party). Assemblies 10,433,032 (including the votes for party-supported Independents).

The Party emerged as the strongest after the Congress both in terms of seats won and the votes polled.

The number of seats that the Party and its allies held in the various State Assemblies was as follows : Andhra 30; Assam 4; Bihar 7; Bombay 21; Kerala 65; Madhya Pradesh 3; Madras 4; Mysore 2; Orissa 5; Punjab 6; Rajasthan 2; U.P. 8; West Bengal 40; Tripura 15; Manipur 4.

In Kerala, the Communist Party which was the most numerous single party and also the majority party formed the Government.

The Election Manifesto issued by the Party in January 1957, stated :

"A determined effort has to be made in the coming elections to put an end to the monopoly which the Congress enjoys. This position has meant callous betrayal of pledges, defiance of popular will, stifling of political life...

"In those States where the democratic movement is especially strong, the Communist Party will strive to create conditions in which democratic Governments, based on a coalition of democratic parties and individuals, can be formed...

"In other States, the Party's endeavour will be to strengthen its own position and the position of the democratic opposition in the legislatures."

In Kerala and West Bengal, the Communist Party fought the elections on the slogan of an alternative Government.

In West Bengal, the Communist Party formed an alliance with the Praja-Socialist Party, the Forward Bloc, the R.S.P. and Independents on the basis of a common programme and the formation of an alternative Government.

At its special Congress held at Amritsar in April 1958, the Communist Party made several changes in its organisational structure. Important ones among these relate to the primary unit and the Central Organs of the Party.

The primary unit of the Party which had been the cell hitherto, will from now on be the branch.

The Central Committee and the Polit Bureau which were the Central Organs of the Party are abolished. Instead there is a 101-man National Council, a 25-member Central Executive Committee and a Secretariat of 8 members, including the General Secretary.

AIMS AND OBJECTS

Describing its aims and objects in the Preamble to the Constitution adopted at Amritsar the Party states :

The aim of the Communist Party of India is the achievement of power by the working people, the establishment of People's Democracy led by the working class, based on the alliance of the working class and peasantry and the realisation of socialism and communism.

In furtherance of these aims and taking into account the immediate tasks confronting the country, the Communist Party of India strives to unite and lead all patriotic and democratic forces in the country in the struggle for the

defence and consolidation of national freedom, the elimination of the power of monopoly capital, the removal of the grip of foreign capital, the strengthening of national economy, an all-sided expansion of democracy and the liquidation of feudal survivals and the darker sides of the heritage of foreign rule in the economic, cultural and social spheres.

The Communist Party stands for a foreign policy based on the principles of Panch Shila. It fights for peace and peaceful co-operation between all countries and supports the anti-imperialist struggles of the colonial and dependent peoples.

While reiterating that in the struggle for its immediate as well as ultimate objectives the Communist Party of India is guided by the philosophy and principles of Marxism-Leninism, the Preamble states that the Communist Party works out its policies by applying the theory of Marxism-Leninism to the realities of the Indian situation. The Party formulates and determines its line of action in accordance with the interests and needs of the Indian people and is responsible to them for its decisions.

The Communist Party of India strives to achieve full democracy and socialism by peaceful means. It considers that by developing a powerful mass movement, by winning a majority in Parliament and by backing it with mass sanctions, the working class and its allies can overcome the resistance of the forces of reaction and ensure that Parliament becomes an instrument of people's will for effecting fundamental changes in the economic, social and State structure.

In co-operation with all forces working for socialism in the country, the Communist Party will strive to build a Socialist society which ensures rapid advance in all spheres and also guarantees the widest possible extension of individual liberty, freedom of speech, press, association and the right of political organisation to all including those in opposition to the government, so long as they abide by the constitution of the country.

For the country's national regeneration, the Party has put forward the following minimum programme:

INDUSTRY

(1) Priority to development of heavy and basic industries, which includes iron and steel, machine-making, including fabrication of steel plants, heavy chemicals, oil, coal, minerals and power, which should be in the State sector.

(2) Protection to national industries against foreign competition.

(3) Location of industries should be so arranged that while taking into account natural advantages, balanced development of various regions is provided for. In backward states where private capital cannot be mobilised even for large-scale light industries, these should be undertaken by the State.

(4) Development of armaments, aircraft and ship-building industries by the State with a view to strengthening national independence.

(5) Pending the development of heavy and basic industries, increased consumer demands should be met, as far as possible, by maximum utilisation of existing capacities in organised industries and by encouragement of small-scale and village industries.

RESOURCES

(6) In order to augment the resources for national reconstruction, certain industries and undertakings should be nationalised. To begin with, banking, general insurance, coal-mining as a whole, aluminium industry, manganese, copper, iron and gold-mining as well as British-controlled jute mills and plantations, should be immediately nationalised.

(7) Impose a ceiling on export of profits, and take over profits in excess of the ceiling as compulsory loan.

(8) Impose a ceiling on profits of all big industries and commercial undertakings, and take over profits in excess as compulsory loan.

(9) These, together with the reserves of large companies to form a National Development Pool, to be invested in the State and private sectors in accordance with national needs.

(10) State monopoly of foreign trade in the principal commodities. This would give the State the profits from such trade. It also enables it to diversify our foreign trade and develop it on the basis of mutual advantage.

Further promotion of State trading in the internal market.

(11) Heavier taxation on corporation profits, tax on personal wealth and tax on capital gains. Steeply graded income-tax, and fixation of ceilings on personal and family incomes.

(12) Postponement of payment of compensation to big landlords.

(13) Cancellation of Privy Purse to Princes.

(14) Requisition of the hoarded wealth of the Princes as compulsory loans.

(15) Reduction of the salaries and allowances of highly-paid officials.

PEASANTS

(16) Immediate carrying out of urgent agrarian reforms and substantial reduction of the burden of the rents and usurious interests.

(17) Immediate fixation of ceiling on land-holdings and distribution, without any payment, of the land in excess to the agricultural labour and peasants.

(18) Setting up agricultural labour and peasant committees to implement land reforms.

(19) Planned free distribution of all Government cultivable waste-land to poor peasants and agricultural labourers within a period of three years and State aid for bringing these under cultivation.

(20) Substantial scaling down of debts owed by peasants to landlords and money-lenders by cancellation of unconscionable debts. Arrangements for the liquidation of remaining debts in easy instalments spread over a number of years. Setting up of Debt Conciliation Boards for this purpose.

(21) Wide extension of co-operatives for rural credit, marketing of produce as well as for supply of agricultural machinery and implements, fertilisers, etc. The existing co-operative law to be drastically amended in a democratic direction, by drastically curtailing the powers of the bureaucratic officials of the co-operative department.

(22) Fixation of minimum wage for agricultural labour, and its enforcement by encouraging the organisations of agricultural labourers.

Cancellation of debts owed by agricultural labourers to landlords and moneylenders.

(23) Guaranteeing of a fair price to the peasants for their produce.

Only criterion of irrigation works should be the degree of benefit conferred on the peasant and not any economic return.

Cost of installation of tube-wells should be borne by Government.

Water-rates should be low enough so that they are within the capacity of the peasant to pay.

WORKING CLASS

(24) The present rationalisation drive in major industries like jute and cotton textiles, in the name of stepping up exports, should be stopped.

(25) The present policy of wage-freeze should be given up. A national minimum wage should be fixed, and workers should be assisted in securing fair wages which should be above the minimum.

(26) Pending such fixation, an immediate increase by 25 per cent to all workers' wages in view of the increased productivity of labour. The dearness allowance should be amalgamated with basic wages.

(27) Social insurance schemes to be rapidly extended to cover all industries and types of benefits and not merely confined to health. The benefit of the present health insurance scheme should be extended to the workers' family members.

(28) Provision for unemployment benefits and bonus.

EDUCATION

(29) Free and compulsory elementary education up to the age of 14 years.

(30) Adequate provision for technical and scientific education on a large scale should be made.

(31) Education at all levels including the University standards should be in the regional language or languages.

The study of Hindi should be encouraged as the language of the Union Government and for communications between Governments and people of different States.

Provision should be made to teach minorities where they are in considerable number in their mother tongue up to the end of secondary stage.

Adequate safeguards for the Urdu language and script and provision for imparting education in Urdu for Urdu-speaking population.

(32) Ensuring academic and democratic rights for students and teachers.

(33) Adequate salaries for all teachers.

(34) Adequate medical service and maternity homes both in the cities and the country-side.

(35) Arrangement for supply of drinking water to all localities.

DEMOCRACY

It is necessary to:

(36) Abolish Upper Houses in the Legislatures; introduce proportional representation in all elections, right of recall, secret ballot even for Panchayat elections; and officials at various levels to be under the control of elected local bodies.

Union territories, as long as they continue, must have a democratic set-up and not be administered by Commissioners with nominated Advisory Councils.

(37) Ensure the right to organise, hold meetings and demonstrations and for this purpose repeal all repressive laws and measures.

(38) Drastically revise the Police Code, curtailing the powers of the police to arrest, shoot, lathi-charge and ban meetings and processions.

(39) Repeal the Dramatic Performances Act of 1876, and police censorship of plays, restrictions on renting of halls, etc.

(40) Repeal of legislation which encourages regimentation; active encouragement to trade unions to unite and form one trade union in each industry or undertaking on the basis of internal trade union democracy.

No imposition of regimented trade unions on the workers.

(41) Assure trade union rights to all workers. The National Security and Safeguarding Rules under which workers in Government undertakings and departments are arbitrarily and summarily dismissed, must be repealed. Declaration of areas like Chittaranjan and Hirakud as prohibited areas must be rescinded.

(42) Give workers and employees an effective voice in the management and direction of industrial enterprises. Committees of elected representatives of workers and employees should be recognised on an equal footing with the administration.

(43) Entrust trade unions with the management and administration of Employees' State Insurance and other social amenity schemes.

(44) Associate, with an effective voice, in rural areas the kisan sabhas and organisations of agricultural labour, in the implementation of agrarian reforms, in the execution of local development schemes.

(45) Vest the local organs of the people like Village Panchayats, Local Boards and Municipalities with powers to discharge their responsibilities. The power of Government officials should be curtailed so that they function as the servants of the elected representatives of the people in the local boards.

(46) Entrust all local developmental work, such as Community Project Scheme, NES, etc., to the Panchayats and reduce the present high administrative cost.

(47) Equal rights to women—in the matter of inheritance, right to own land, equal pay for equal work, maternity leave, benefits.

(48) Provide refugees with gainful employment.

(49) Separation of judiciary from the executive.

GANATANTRA PARISHAD

(Cuttack 1, Orissa.)

President : Rajballabh Misra, M.L.A.

General Secretary : Raghunath Misra.

At the annual conference of the party in May 1958 it was decided to make the party an all-India party.

The aims and objects are :

Promoting the political, economic, social and moral well-being and advancement of the people;

Formation of homogeneous administrative units on economic, linguistic and cultural basis;

Safeguarding the civil, political and cultural rights of minorities and backward areas and classes;

Removing corruption and black-marketing, inefficiency, jobbery, nepotism, indifference and unresponsiveness from the administration;

Restoring civil liberties and faith in justice and democracy among the people;

Abolition of land revenue and the introduction of graduated progressive taxation on agricultural income with a view to achieving a ceiling on income from agricultural resources at Rs. 4,800;

Secure minimum holding to the cultivating tenants and for the purpose exempt from taxation agricultural holding yielding income upto Rs. 1,600;

Increased production, adequate and proper wages to agricultural labour, soil preservation, reclamation of cultivable waste land, flood control, provision for rural credit, establishment of multipurpose co-operatives and improvement of fodder crops;

Nationalisation of the industries which have been established mostly through Government aid; nationalisation of mines to be worked in future; nationalisation of industries in which competition between the State and individuals will not be conducive to public benefit; nationalisation of industries which can be run more efficiently and produce more cheaply under Government management;

Ensure adequate market for cottage industry products, protection to cottage industries from competition from big industries; adoption of the principle of co-management and profit-sharing by capital and labour; encouraging trade unionism to ensure better wages; ensuring dignity of labour and proper conditions of work; checking monopolistic tendencies in industry; extension of industrial aid to deserving enterprises;

Safeguarding the interests of the middle class, reduction of taxation; social security services for the people; economic and social uplift of the scheduled castes and scheduled tribes; separation of the executive and the judiciary; protection of minorities; administrative reforms; free and compulsory primary education; higher pay for teachers; establishment of more colleges, educational and technical institutions; provision for more stipends and loans for students; abolition of the Kendu Leaf Control Order; abolition of monopolies in minor forest products and the supply of bamboo, coal and timber, etc. from the forests to the people in time of need.

Restoration of Seraikella and Kharswan to Orissa and the integration of the outlying Oriya tracts with Orissa; shifting cultivation conversion of Bhogra land into royati; adequate compensation to the people for land acquisition, etc.

The party lays special emphasis on

The removal of regional disparity in the Five Year Plans; uniform per capita income of the constituent States, the rural and agricultural sector of the economy; greater autonomy and freedom to the constituent States.

INDIAN NATIONAL CONGRESS

(7, Jantar Mantar Road, New Delhi.)

President : U. N. Dhebar.

General Secretaries : A. Satyanarayana Raju; Vacant.

Working Committee : U. N. Dhebar, Jawaharlal Nehru, Pandit Govind Ballabh Pant, Dr Bidhan Chandra Roy, Jagjivan Ram, K. P. Madhavan Nair, Morarji Desai, Srikrishna Sinha, Kamraj Nadar, Hafiz Md. Ibrahim, Mohindra M Chowdhry, Indira Gandhi, Khandubhai Desai, Y B Chavan, A. Satyanarayana Raju, Govind Das, Sardar Partap Singh Kairon, U S Malliah, Sadiq Ali, Pushpalata Das.

Presidents of Provincial Congress Committees :

P Ranga Reddy (Andhra), M M Chaudhury (Assam), Nand Kumar Singh (Bihar) K K Shah (Bombay), Vacant (Delhi)* Mazanbhai Shankarbhai Patel (Gujarat), S. N. Ramaul (Himachal Pradesh), K. A Damodara Menon (Kerala), M Naik Nimbalkar (Maharashtra), M Lakshmi Narayan Das (Madhya Pradesh), P Channah (Mysore), Gopikatai Kannamwar (Nagpur), Giani Gurmukh Singh Musafir (Punjab), Harlal Singh (Rajasthan), Raja Ram Naidu (Tamilnad), Biren Mitra (Utkal) Chaturbhu Sharma (Uttar Pradesh), Dr J N Korpe (Vidarbha), Atulya Ghosh (West Bengal), Sawantkar (Marathwada)

Central Parliamentary Board : U. N. Dhebar, Govind Ballabh Pant, Morarji Desai, Jagjivan Ram, Indira Gandhi, Hafiz Md. Ibrahim.

Leader Congress Party, Parliament, Jawaharlal Nehru, *Deputy Leader,* Pandit Govind Ballabh Pant.

Secretaries, Ram Subhag Singh, Dr. N. G. Ranga, T. S. Pattabhiraman.

Total membership of Party in country : 88,00,000 (approx.)

Strength in Lok Sabha : 372.

Strength in Rajya Sabha : 191 (estimate).

Total strength in State Legislatures : 2,041 (Part A States) (at the end of the General Election).

Total number of votes polled in the General Election: Lok Sabha : 5,40,56,646 ; State Assemblies : 4,76,32,427.

The Indian National Congress includes the following bodies :

The All-India Congress Committee, the Working Committee, Pradesh Congress Committees, District Congress Committees, General Assembly of the Mandal Congress Committees, Mandal Congress Committees, Committees above or below the Mandal Committees and subordinate to the District Committee.

There are 19 Pradesh Congress Committees :

Andhra, Assam, Bihar, Bombay, Delhi,* Gujarat, Himachal, Kerala, Maharashtra, Madhya Pradesh, Mysore, Nagpur, Punjab, Rajasthan, Tamilnad, Utkal, Uttar Pradesh, Vidarbha and West Bengal.

The Mandal Congress Committee, on which the organization is finally based, covers an area having a population of round about 20,000, and is made up of members elected by primary members of the Congress at the rate of one for about 2,000 members and of co-opted members, the elected members always having a majority.

The General Assembly of the Mandal consists of the primary members enrolled within the area covered by the Mandal.

The All-India Congress Committee at its session in Aug.-Sept. 1957 approved of certain changes in the constitution of the Congress party, which then came into immediate effect.

These changes concerned mainly three points: indirect election to the higher bodies, functional representation on them for trade unionists, kisan and youth workers, and thirdly the conception of a Mandal Committee as a means of keeping in close touch with the general mass of the people.

The District and Pradesh Committees, for example, are elected by the elected members of the Mandal Committees. Also there will be on them representatives of certain organizations or institutions working in the area in accordance with certain rules.

The A.I.C.C. will also have on it representatives of allied institutions and organizations.

There are two kinds of member Primary and Active. The latter has greater rights and obligations. For example, it is obligatory on him to do social work. And he alone can become a member of any Congress Committee above a Mandal Committee, and of Mandal Committee he alone can be an office-bearer or member of the executive.

AIMS AND OBJECTS

The ideology, outlook and policy may be described as follows :

The object of the Indian National Congress is the well-being and advancement of the people of India and the establishment in India by peaceful and legitimate means of a Socialist Co-operative Commonwealth based on equality of opportunity and of political, economic and social rights, aiming at world peace and fellowship.

The provision of the basic needs of food, clothing and shelter, and of opportunity for cultural growth for all people.

With a view to achieving the above objects planning should take place with a view to the establishment of a socialistic pattern of society where the principal means of production are under social ownership or control and there is equitable distribution of national wealth.

The national aim is a welfare state and a socialist economy.

Full employment should be achieved in ten years.

The State should initiate and operate large-scale schemes, providing services such as power, transport; have over-all control of resources, social purposes and trends; maintain strategic controls; prevent private trusts and cartels; maintain standards of labour and production; the public sector must progressively play a greater part particularly in the establishment of basic industries; the private sector would function in terms of the national plan.

Special stress on the development of steel, building of heavy machines, coal and heavy chemicals. Extensive mineral surveys.

Organization of industry, commerce, agriculture on a co-operative basis.

* At the time of writing replaced by an *ad hoc* committee.

Participation of workers in management of industry.

Perspective planning; flexible short-term plans in the context of a long-term plan.

Backward areas and regions should be specially helped to develop themselves.

The Congress Party's industrial policy in general is embodied in the Government of India resolution, a lengthy summary of which is given in the article dealing with industrial structure and policy.

The per capita income should be doubled in fifteen years.

Belief in a secular state; all citizens to have equal rights; removal of barriers which divide people on the basis of religion, caste, class or region.

Separatist tendencies which hinder national unity should be discouraged. Caste, communalism and provincialism should go.

Land Reform

Abolition of old and out-dated agrarian systems of tenure; security of tenure and fair rents for tenants and tillers of the soil.

Land reform should be effected quickly, agricultural prices stabilized at a reasonable level and facilities for rural credit greatly enlarged. The Government would play its part through the nationalization of the Imperial Bank.

There should be a ceiling on holdings.

Co-operative farming; the village as the unit of co-operative management.

Local administration through Panchayats.

Promotion of small-scale and cottage industries as supplier of consumer goods and source of employment; organization of cottage industries in industrial co-operatives.

Supply of adequate quantities of yarn to handloom weavers.

State trading should be undertaken whenever the balance of advantages lies in favour of such a course.

Control of distribution is essential in times of scarcity.

Time, skill, resources of the people must be organized on a voluntary basis for the economic and social betterment of the community.

Redirection of public expenditure, imposition of estate duties and of tax on wealth and spending for the removal of inequalities and the provision of resources for the Second Plan.

There should be a reasonable relationship of maximum and minimum incomes.

A certain minimum standard of living should be guaranteed to every citizen.

A measure of austerity and avoidance of waste is necessary so that the maximum use could be made of the nation's resources.

Better housing for workers.

Effective machinery to commend good work and condemn bad work in the public services.

Summary method to deal with corruption.

Education

Basic education would provide the future pattern of primary as well as secondary education. Primary Schools will be converted to the Basic type in a well-planned manner within ten years.

Multi-purpose schools will be established.

Manual work as part of curriculum of higher education; no degree or diploma without manual work.

The medium of instruction at the primary stage must be the mother tongue. Where the mother tongue of a child is not identical with the regional language instruction in the mother tongue should be made available, provided there is a reasonable number of persons demanding such instruction.

At the secondary stage instruction should ordinarily be in the regional language, though other languages could be used if there is a large enough demand.

At the university stage, the regional language should be the medium, though Hindi and even English could be used as this will facilitate inter-provincial cultural intercourse.

In the teaching of scientific and technical subjects the transition from English to Hindi or the regional language should be gradual.

Hindi should be a compulsory second language at the Secondary stage.

The study of English should be taken up at the secondary school stage and continued at the university.

Progressively, examinations for the all-India services should be held in English, Hindi and the regional languages. Candidates who have chosen Hindi or a regional language should pass separately in English.

Successful non-Hindi candidates should take a test in Hindi at an early stage.

Hindi Prachar Sabhas in the headquarters of every Taluka in the south.

It is necessary for people in Hindi-speaking areas to learn at least one regional language.

Proper representation to minorities in legislatures and other public bodies.

Removal of social disabilities of women.

Social and legal disabilities hindering the progress of women should be removed and women should be placed on a footing of equality in the matter of marriage, property, inheritance and divorce through a series of Hindu law reform bills.

Provinces on a linguistic basis where there is a demand representing the agreed views of the people of the area: economic, administrative and financial considerations must be taken into account.

The Congress supports Bhoodan and Sampattidan.

The Congress gives active help to movements for communal unity, uplift of Harijans and Adivasis, promotion of cottage and village industries, organization of co-operatives, and in the developmental programme of the Five Year Plans.

The Congress is committed to prohibition.

Foreign Policy

Independent line in foreign policy; friendly relations with all countries.

India's relations with foreign countries will be governed by the Pancha Shil. They should also be the basis of the relations between all nations.

Regional military pacts which happen to serve specific interests of the Great Powers will not promote the cause of peace.

India will not be aligned to any power bloc, and will not take part in other people's wars.

China must be admitted to the United Nations. Membership should, in fact, be universal.

Foreign establishments on Indian soil must revert to India.

Only peaceful methods will be used for the liberation of Goa.

In general, people under colonial rule should be free.

Racialism should end.

The Kashmir dispute must be settled in accordance with the wishes of the people of Kashmir.

On the reorganization of States, specific ideas are embodied in the States Reorganization Act, Language is an important but not dominating factor. Major consideration now is economic development. Also, there are bilingual areas; any attempt to set up rigid unilingual States here is unjust.

Unilingual States may exist where this is considered desirable. But unilingualism cannot be made a fetish.

It is also desirable to encourage where feasible the formation of bilingual States with regional councils for each linguistic area. In this sense any union of two States is specially welcome.

Formation of regions within a State may be necessary for the full development of a language or culture.

On the whole, it is best not to have relatively small units.

RE-ORIENTATION

Mr. Nehru's declaration on May 3 that he wished to retire because he felt stale, tired and vaguely disturbed in mind shook the Congress Party badly. It also led to a good deal of self-criticism and stock-taking and all seemed anxious to bring about necessary reform. Exactly what reform Mr. Nehru desired was not very clear, because in a speech in which he spoke about his own doubts and fears he insisted that there was no division of opinion in the Cabinet and that there was not much that was wrong with the party. What disturbed him was rather the larger picture of India. The sense of idealism, of service and of mission which was so prominent a feature of Congress life and thought before independence now tended to give place to evils like self-interest, personal advancement, communal passion factionalism, revival of primitive instincts.

The A I C C, which met on 10th May and the Working Committee looked searchingly into specific defects and failure and generally into what ailed the Congress and gave the lead in the movement for reform. In the debates that followed in the A I C C much was said about Congress attitudes and policy and where the remedies lay. This was later crystallized into a series of resolutions and directives which the Congress Working Committee sent out. The minor points which might be mentioned were that a fair deal should be given to the minorities and adequate facilities for instruction in and use of Urdu as a regional language wherever prevalent.

On the major question of vitalizing and purifying the party, the Committee made a number of points: The broad ideology of the Congress is governed by the twin principles of democracy and socialism; suitable literature on the ideology and programme of the Congress must be produced and widely distributed; problems must be discussed at study circles and seminars; cadres must be trained at different levels for effective participation in the implementation of the plan; casteism must be faced boldly and overcome; each Mandal Congress Committee which is the basis of the whole structure should prepare a minimum programme for increasing agricultural production, mobilising small savings, and participation in community development work during the next six months. Targets should be laid down; each Mandal Committee should collect Rs 1,000 through small savings, so must each M L A, while a Member of Parliament should collect Rs. 2,000; a sub-Committee of five of the executive of the P C C should meet the State Cabinet periodically to discuss development problems; these sub-Committees could also deal satisfactorily with people's grievances; the presidents and secretaries of District and Provincial Committees should be experienced whole-time persons; Ministers on tour should contact the Committees; there should be special machinery with State Governments for the quick disposal of complaints; methods of eradicating corruption should be given wide publicity; in the selection of candidates for elections opinion of the constituency committees should be given adequate weight.

CONGRESS SOCIALIST FORUM

Towards the end of December, 1958 about 35 Congress Members of Parliament and others met in New Delhi and decided, to constitute themselves into a sort of ginger group within the Party. Later they gave themselves the name Congress Socialist Forum. The members not only believed in socialism but would carry the party's programme down to the rank and file and the people at large.

The convention which met on Dec. 22 and 23 was presided over by the Minister for Mines and Fuel Mr. Keshav Dev Malaviya. Others present, included Mr. N. V. Gadgil, Mr. A. M. Thomas (Deputy Minister for Food), Mr. S. N. Misra (Deputy Minister of Planning), Mr. L. N. Misra (Parliamentary Secretary to the Minister of Planning), Mr. Narsinghrao Dixit (Deputy Home Minister, Madhya Pradesh), Mr. Ram Subhag Singh (Secretary, Congress Parliamentary Party), Mr. Jogesh Chatterjee and Mr. Ansar Harvani.

The proceedings were initiated by Mr. S. N. Misra, Deputy Minister of Planning, who introduced the subject, and gave the background to the development of a thesis, "Keep the Flame Alive", the general principles of which were subsequently adopted by the group.

The general consensus of opinion was in favour of the formation of the group. It was felt that it would strengthen the Congress Party by undertaking ideological discussions, research and training of cadres. Nothing would be done in violation of the letter or spirit of the Congress constitution.

Mr. Malaviya emphasised that the members must observe Congress discipline and must evolve a code of conduct. The group must also encourage self-education and self-criticism among its members.

It was decided that the group would raise a cadre which would be trained to do active work for social and economic reconstruction of the country and planned development on a socialistic basis. This would be a body of active members for the implementation of the "ideology."

Fifty workers would be trained at each of the four regional centres to be set up in 1959.

Certain subjects were selected for study and research. Among these are: "the order of the Socialist society envisaged by the Congress", "the social standards that should be set up in keeping with the pattern of a Socialist democratic society" and "the party and the plan."

THE THESIS

The thesis notes that the remarkable strength and the hold over the masses which the Congress Party enjoyed so far has been because of its identification with the basic urges of the people. There has since been a steep fall in these attributes even though they are vitally necessary in the party's present role.

If the Congress is now to build a socialist order democratically, it must also be able to mobilise the entire nation to the effort on the one hand and effectively check any undue growth in the powers and influence of the bureaucracy and of mere experts on the other. This dual task can be discharged effectively if the party is equipped for it and has also a cadre of its own trained sufficiently in the elements of the science and ethics of socialism and in the mechanics of its implementation.

For this the party is clearly not yet organised.

Whatever thinking is being done in the Congress today is only in the Government and by the Government.

The party, as a whole, is inert and obviously indifferent. Yet, on the success of its performance hinges not merely the future of the Congress but of the entire country as well.

In respect of the First Five-Year Plan, the thesis points out that the party which should have acted as the "eyes and ears" of the Plan, remained only as a passive spectator. Its ranks neither studied nor discussed the Plan on a scale commensurate with its importance. If the Congress had taken the Plan seriously and more actively co-operated in its implementation, it would have, to some extent, perhaps, transformed itself into an effective instrument of social change.

If, unfortunately, the Second Plan fails, the Congress must be held responsible for failing to provide the necessary inspiration and lead to the people at this turning point in the career of the nation. For, the Second Plan is the first real attack on the status quo, and it represents the minimum necessary to make a significant advance towards economic development.

On the ideological plane, although the party has accepted socialism, the inspiration for it has flowed in part, from circumstances and in part from the thinking of one man—Mr. Nehru.

Even though a new and vital ideology has now been adopted, the members of the Congress who are expected to uphold it and practise it, popularise it, are not even fully aware of the true meaning of a socialist society and the implications of a planned economy. Their role continues to be one of mere spectators rather than active participants, and their outlook and pattern of thought and action continue as of old.

Increasingly the question is being asked both in India and outside: "After Nehru—what?" In answering this question, however, the Congress must not engage itself in a search for any other "Nehru," but make a supreme effort to improve the organisation and create the conditions which would bring out the best in each member within the party.

The central fact that stands out today is that there is a complete lack of ideological unity of outlook within the party. In such conditions, it is not surprising that the power nexus in the organisation inevitably tends to be based on power, money and sectarian considerations like caste or language and by what may be called sheer physical sanctions by which groups in different areas succeed in keeping themselves in the saddle.

To make matters worse, there has been an inflow of fresh and young blood into the party in recent years. It has on the other hand lost touch with the thinking sections of society such as teachers, students and the professional classes.

The message and decisions of the party do not reach down to the rank and file. The yawning gap between them and the top leadership at the Centre can only be filled by a trained corps of workers in the legislature and outside who are dedicated, alert and dynamic.

MAHAGUJARAT JANATA PARISHAD

(Mission Road, Bhadra, Ahmedabad.)

President, Indulal K. Yagnik, M.P.

Vice-Presidents, Dr. Ganjatram Patel, M.L.A., Dinkar Mehta, Jaishukhlal Amin, M.L.C., Maulana Habib Rehman Gazvavi.

Secretaries, Harihar Khambholja, Jaswant Sutaria, Dhanvant Shroff, Chhotalal Vakil.

Office Secretary, Chimanlal A. Bhagat.

Treasurer, Ishwarlal Bhavsar.

The Mahagujarat Janata Parishad was founded in the wake of the announcement of the formation of bilingual Bombay State, with the aim of "taking all possible peaceful, non-violent and democratic measures for the establishment of a separate State for Gujarati-speaking people, co-equal in status with other linguistic States".

The Constitution of the Parishad was adopted on December 30, 1956 by some 600 delegates from Gujarat, Saurashtra and Kutch.

Mr. Indulal Yagnik was elected the first President.

Under the constitution, the Parishad will be independent of other political parties, and its members will have to uphold the actions and decisions of the Parishad in cases where these are not consistent with the resolutions or principles of other parties.

Zilla Samities exist in the following Districts: Ahmedabad, Kaira, Broach, Surat, Mehsana, Sabarkantha, Banaskantha, Baroda and Panchmahals.

The party had on its rolls over 1,75,000 members during 1956-57.

In the 1957 general elections, the Parishad contested 16 of the 22 Lok Sabha seats allotted to Gujarat, Saurashtra and Kutch, and 95 of the 132 seats in the State Assembly, and extended support to nine P.S.P. nominees.

Of these the Parishad captured 5 Lok Sabha seats, 30 State Assembly seats while the Parishad-supported P.S.P. were returned to the Assembly.

In terms of votes cast, the Parishad polled 15,74,000 votes in Gujarat and Saurashtra in the Assembly elections, while in the Lok Sabha elections it secured 18,55,251 votes.

Subsequently the Parishad returned nominee to the Rajya Sabha.

The Election Commission has recognised the Parishad as a regional political party and has accepted its elections symbol: the cock

On State-basis, the Parishad claimed 5 per cent of votes cast, in the 1957 elections in Bombay.

PEASANTS AND WORKERS PARTY OF INDIA

(Koliwadi, Fanaswady, Bombay 2.)

General Secretary : D. B. Desai.

AIMS AND OBJECTS

To establish complete independence by severing all connections with British Imperialism.

To establish a People's Democratic Government of Workers and Peasants and all other classes which are firmly opposed to Anglo-American domination and are inside the World Peace Front.

To reorganise India on a linguistic basis, fully recognising the right of nations to self-determination.

To provide constitutional protection to the language and culture of all minorities.

To abolish all vestiges of Princely rule and feudalism.

India and Pakistan to give mutual aid to each other with a view to furthering the interests of the toiling masses of both the States.

Abolish landlordism without compensation, redistribute land, abolish usury, guarantee minimum living wages to agricultural labourers.

To confiscate foreign capital invested in big industrial concerns, banks, means of communications, plantations, mines, etc.

Nationalise big monopolist industries, banks and insurance companies, to secure for workers a control in the management, to guarantee a living wage, seven hour day, old age pension, sickness benefits, etc. to workers.

Guarantee right of work to everybody.

Control profits of private enterprises.

Abolish bureaucracy; officials to be elected by the people with a right to recall.

Equal rights to women, and enforcement of the principle of 'equal pay for equal work'.

Total Membership : As a Marxist Party the membership of the Party is strictly restricted to those who are active workers and devote a major part of their time to party work. The rest are put in the class of sympathisers.

Both classes of members together number about 10,000.

Strength in Lok Sabha : 4.

Strength in Rajya Sabha : 2.

Total strength in State Legislatures : 34 (Bombay Assembly 27, Bombay Council 4, Mysore Assembly 3).

PRAJA SOCIALIST PARTY

(18, Windsor Place, New Delhi.)

Chairman : Ganga Sharan Sinha, M P.

Deputy Chairman, Surendranath Dwivedy M P

General Secretary, N G. Goray, M P

Treasurer : Asoka Mehta, M P.

Jt. Secretaries, Prem Bhasin, K. K Menon.

National Executive : Asoka Mehta, M P., Ganga Sharan Sinha, Dr. Prafulla Chandra Ghosh, M L A., Surendranath Dwivedi, M P, P. S Chinna Durai, M L.A., H. V. Kamat, K. B. Kirant, Triloki Singh, M L A, Dr K B Menon, M P, Prem Bhasin, Hareshwar Goswami, M L A, Pattom Thanu Pillai M L A, S. M Joshi, M L A, Basawan Sinha, M L A, Mir Mushtaq Ahmed Mukut Behari Lal, Ishwarbhai Desai, Suresh Chandra Bannerjee, M S Gurupadswamy, Nath Pai R N Reddy, Genda Singh, Shakuntala Shrivastava, Muridhar Vyas, N G Goray.

There are 20 provincial branches. There are also district branches, the number of which was 336 in 1956-57. The number of organized constituency branches would be about 2,000.

The Party also functions through three different fronts: the peasants (Hind Kisan Panchayat), labour (Hind Mazdoor Sabha), youth (Samajwadi Yuvak Sabha).

The P.S.P. supports the Hind Mazdoor Sabha, which has also the affiliations of unions organized by other parties. The P.S.P. believes that a trade union should be free of all outside influence. The strength of the HMS would be about 4 lakhs. The P.S.P. also functions in a number of smaller unions which are not affiliated to any of the national unions—specially in the railways, ports and telegraphs, banks, insurance and defence industries.

The official organ of the Party is the *Janata*, an English weekly. Provincial branches have journals of their own published in the regional languages.

The central office has a publications department which brings out pamphlets, brochures, etc. on relevant subjects.

There is an International Affairs Committee of the Party which keeps liaison with socialist parties in other countries and concerns itself with international affairs.

The P.S.P. is a member of the Asian Socialist Conference. The P.S.P. maintains an observer status with the Socialist International.

Total membership of the Party, 250,825.

Strength in the Lok Sabha, 20.

Strength in the Rajya Sabha, 8.

Total strength in State Legislatures, 205.

Andhra 2, Assam 8, West Bengal 22, Bihar 35, Bombay 38, Madras 2, Mysore 18, Uttar Pradesh 45, Orissa 11, Madhya Pradesh 12, Rajasthan 1, Punjab 2, Kerala 9.

Total number of votes polled in General Elections :

Lok Sabha, 1,16,59,225.

State Assemblies, 1,13,92,500.

AIMS AND OBJECTS

The Party believes the reconstruction of the country can best be achieved on the basis of an equalitarian social order free from political and economic exploitation and ensuring personal freedom.

The yearnings of the people for clean and efficient administration and expanding and equitable economy can be realised only through decentralisation in administration and economy.

Local initiative and local control must, therefore, be the pivot of our administration and economy.

Village or a group of small villages should be the unit of both administration and economy. Inside the village there has to be full democratic functioning.

Local governments based on the elective principle will be the chief instruments of change in the rural set-up. Local bodies will be endowed with legislative and administrative power, and power over welfare and development departments. Such of those as qualify for it will also be in control of the police except special armed constabularies. After five years of Socialist rule the office of district collector and deputy commissioner will be abolished. This type of functionary would thereafter work under a panchayat. The local authority will have a share of the revenue amounting to about a fourth of the revenue of the State.

To vitalise rural economy, land must belong to the tiller of the soil. It must be redistributed in economic holdings.

Redistribution will be completed in a five-year period by a Socialist Government; a family of five persons will be left with a maximum of three times the unit of land that a family can cultivate without employing hired labour or mechanical tools.

The Party will foster and encourage co-operative farming and distribution.

There will be co-operatives of various kinds and degrees, operated primarily through the village panchayat.

To bring undeveloped land under cultivation a food army of a million persons will be raised. It will be clothed and housed by the State and a modest salary will also be permitted. After two years when the reclamation is over the food army will have turned into farmers of model villages. There will be an additional production of four million tons of food, and a trained technical personnel of over 10,000 persons.

About irrigation, the main emphasis will be on minor irrigation, particularly earth works. These will be constructed by the voluntary labour of almost the entire adult population who will give an hour's free work.

The Socialist Government will try and implement a policy of parity between agricultural and industrial prices.

The Government will also make efforts to replace land revenue whenever possible by a graded income-tax.

Economic development should be effected mainly with the help of local resources in men, material and skill.

To this end the Party advocates decentralisation of industry.

It also envisages the development of a new technology based on small machines operated by power, capable of distribution in small units.

A new type of machine will have to be devised, and a scientific and technical research department will be put on the job of discovering suitable types.

Such a technology not only harmonises with the economic and social conditions in our country, but would create circumstances which would eliminate bureaucratic control.

As regards key industries, foreign trade and the sectors of economy where capital tends to accumulate and power concentrate the policy of the Party will be one of nationalisation.

To enable democratic checks and participation, nationalisation will generally be worked out through autonomous corporations in whose control and conduct the workers, technicians, consumers and other allied interests are represented.

The Party stands for a free trade union movement, that is, trade unionism free from the control of government, employers and political parties.

All incomes must be subject to a ceiling: This will be imposed at Rs. 2,000 at the present level of prices. Other incomes will be adjusted. This may be brought about either through taxation or straight-forward fixation.

Fullest realisation of civil liberties is one of the major objectives of the Party.

The law relating to evidence and criminal procedure will be so altered as to make the processes of justice quicker and cheaper.

The office of Governor will be abolished. The distinction between Parts A, B and C States will also be removed. The second chambers in States will also go. Territorial adjustments are to be on a basis of language, economic viability and good administration.

The spirit of austerity and of swadeshi, so far as goods manufactured by decentralised industries are concerned, will be fostered.

The principle of swadeshi can be extended to centralised private enterprise on the basis of fair price and standard of goods. Both public finance and foreign trade will be so reorganised as to work out the above policy.

Economic equality and social mobility with democratic functioning are the ultimate guiding principles.

In foreign policy, the party favours a policy of neutrality and non-involvement and co-operation with like-minded forces in other countries.

In defence the policy will be one of maintaining minimum armed forces and building up of a popular militia.

In the matter of food, it is necessary to have an integrated plan of production of cereals, pulses, tubers, vegetables, milk, fish, eggs, meat and fruit.

The tiller of the soil should be the owner of the land and there should be intensity cultivation, parity of price between industry and agriculture, minimum wages for agricultural labour.

In the immediate future there is need for a democratic socialist movement of all elements animated by a common purpose, as the Congress party is in a process of decline and disintegration. The emergence of a vacuum can be a source of great danger.

Two unilingual States—Maharashtra with Bombay city and Gujarat—should be created in the place of the present bilingual Bombay.

On Kashmir, the policy should be one of firmness combined with friendliness towards Pakistan. Kashmir being an integral part of India there is no question of a plebiscite on the canal waters, the World Bank award is to be accepted. But there is a time-limit for Pakistan's acceptance, beyond which India cannot postpone her development programme. On all other questions like border firing, minorities, human rights must be fully protected.

THE REPUBLICAN PARTY OF INDIA

(Gandhi Road, Chanda, Vidarbha.)

President, R. B. N. Shivaraj, M.P.

Vice-President, H. D. Avde, M.L.C.

General Secretary, B. D. Khobragade, M.P.

The Constitution of the Party is still under consideration. Hence, until the Constitution is adopted by the provisional General Council, it is not possible to state the exact aims and objects of the Party. However, in general the aims and objects can be stated as:—

To establish by democratic and peaceful means a casteless, classless society, free from any sort of economic, political or social exploitation, and based on the principles of justice, liberty, equality and fraternity.

To organise the down-trodden masses of India viz. The Scheduled Castes, Scheduled Tribes, Buddhists and other Backward Classes; to agitate and to strive for their well being, and political, social and economic advancement.

To engage in organising the peasantry, the landless labourers, the workers in factories and other wage earners.

The party recently started a membership enrolment campaign. The enrolment would be completed in July.

Strength in Lok Sabha: 0.

Strength in Rajya Sabha: 1.

Total strength in State Legislatures: 1.

Total no. of votes polled for the Lok Sabha during the general elections of 1957, 25,61,[illegible].

Total for State Assemblies: 18,08,742.

REVOLUTIONARY SOCIALIST PARTY

(780, Ballimaran, Delhi 6.)

General Secretary, Tridib Kumar Chaudhuri, M.P.

Secretaries, N. Shreekantan Nair, Sushil Bhattacharya, Pratul Chaudhuri.

Aims and Objects: To abolish exploitation of man by man, of class by class and to abolish all classes and establish a socialist organization on the basis of the dictatorship of the proletariat. The immediate political objective is the establishment of a union of Socialist Republics in India.

The party is a Marxist Leninist Party and relies on mass and class action. It is organized on the principle of democratic centralism.

Members in the Lok Sabha: One.

Total number of members in the State Assemblies: four.

Total membership of party, 23,193.

The party has branches in Assam, West Bengal, Bihar, Uttar Pardesh, Delhi, Rajasthan, Bombay, Madras and Kerala.

SAMYUKTA MAHARASHTRA SAMITI

(54, Budhwar Peth, Kaka Kuwa Mansion, Laxmi Road, Poona-2.)

General Secretary: S. M. Joshi.

Joint Secretaries: Shivaji Patil, Mrs. Kamal Bhagwat, Hari Bhaskar Bhide.

Chairman of the Parliamentary Board: S. A. Dange.

Treasurer: R. K. Khadilkar, Datta Deshmukh.

AIMS AND OBJECTS:

To establish a unilingual State of all contiguous Marathi speaking areas as a constituent of the Indian Union on the basis of the principle of the linguistic reorganisation of States.

To establish a democratic and Socialist Maharashtra in a Socialist India and to implement the programme sponsored by the Samiti.

To reorganise the economic, cultural and social life of Maharashtra on the co-operative basis.

NUMBER OF REPRESENTATIVES OF THE SAMITI IN:

Rajya Sabha	3
Lok Sabha	24
Vidhan Sabha	130
Vidhan Parishad	21

TOTAL NUMBER OF VOTES SECURED BY THE SAMITI IN THE GENERAL ELECTIONS (1957) FOR:

Lok Sabha	50,65,078 (more than 50 %.)
Vidhan Sabha	53,23,156

The Samiti has secured an absolute majority in the Municipal Corporations of Bombay, Poona and in the municipalities of Kolhapur, Malegaon and Thana.

Five Members from Belgaum and Nine from Marathawada are elected to the Mysore Vidhan Assembly on the Samiti's ticket.

Two members from Burhanpur are elected to the Madhya Pradesh State Assembly on Samiti's ticket.

THE SIKHS

Broadly speaking there are three groups among the Sikhs. One group forming the main body of the Shiromani Akali Dal is led by Master Tara Singh who is also its President. It is in favour of maintaining the separate identity of the Sikh community.

The Akali president, Master Tara Singh is also president of the Shiromani Gurdwara Prabhandak Committee.

At a meeting in Amritsar on 24th Nov. 1956, the Akali Dal adopted by an overwhelming majority four amendments to its constitution by which members were enabled to join the Congress and exclude politics from the Dal's domain.

On account of the general settlement there is now no difference between the Akali Sikhs and the Congress Sikhs.

In between these two is the Chief Khalsa Diwan with Sardar Mangal Singh Mann as President. It is older than either of the two mentioned above, and was started by the late Sardar Sundar Singh Majithia.

Outside the Punjab there is a U. P. Sikh Pratinidh Board with its headquarters in Lucknow. The President of this body is Dr. Tarlok Singh.

The Sikh point of view as such is underlined by two memoranda. The first is a four-page memorandum presented by Sikh members of the Minorities Advisory Committee of the now defunct Constituent Assembly to the sub-committee which was specifically set up to consider the Sikh case.

This memorandum can be regarded as the most authoritative statement of the demands made by the Sikhs from time to time since independence. (Quoted in earlier editions).

About the same time as Sikh members of the Constituent Assembly handed in their memorandum four Sikh scholars issued a lengthy statement discussing the question of what the Sikhs really wanted.

Among the most urgently-needed relief were the following. 1. The question of the Gurudwaras left behind in Pakistan should be taken up by the Government of India with the Pakistan Government. The Nankana Sahib Gurudwara should be created a free city like the Vatican. The other Gurudwaras in Pakistan should be administered by the Nankana Sahib authorities. An equivalent of the land attached to the Nankana Sahib and other Sikh shrines in Pakistan should be allotted to the S.G.P.C. in the Punjab thus giving the Sikhs an opportunity to re-establish their educational and social life; 2. As the worst sufferers among land-holders they should be given a generous share in the new colony areas in Hissar and Karnal Districts to make up for their losses in the colony areas of Pakistan; 3. All Sikh refugees no matter where they come from West Punjab, N.W.F.P., Bahawalpur or Sind should be accommodated in the Punjab. This will provide a homeland for Sikhs in India; 4. In their rehabilitation policy Government should make no distinction between landlords and tenants.

The Akalis and Sikhs in general have accepted the new Punjab of the States Reorganization Act (Pre-reorganization Punjab and PEPSU) and the regional formula with a zonal council for the Hindi and Punjabi speaking areas. The Sikhs are in a majority in the Punjabi-speaking zone, where the court language is Punjabi in the Gurmukhi script. It is estimated that the Sikhs form about 57 per cent of the population of the Punjabi zone.

SOCIALIST PARTY

(Central Office : 3-6-19 Himayatnagar, Hyderabad.)

Chairman : Madhu Limaye.

General Secretary : G. Muraharl.

National Committee :

Shamshl Minal, Tika Ram, Natha Rawat, Khalilur Rahman, Raj Narain, Bhupendra Narain Mandal, Ram Lakhan Chandapuri, Sadashiv Bagaitkar, Baleshwar Dayal, Chotelal Bhardwaj, Jyotish Joardar, Dinesh Das Gupta, B Ratna Subhapati Shambha Murti, R M Manakalath, Dorai Babu, Golap Barbora, Ram Kishen and Ram Peyare Sharma and Mrs Mrinal Gore and Miss Saraswati

AIMS AND OBJECTS

National : To establish a socialist society through a democratic and peaceful revolution.

International : To end inequality among the nations and establish a World Parliament and a socialist world.

The Socialist Party's planning will be directed towards raising living standards as a whole simultaneously and not sector by sector as attempted by the Congress Government.

It accepts large-scale industry wherever necessary and power driven small industry wherever possible.

The Socialist Party will take measures to narrow down existing differences of incomes aiming at a ratio of 1 : 10.

Will democratise the constitution as well as the administration in the directions both of decentralisation and people's control.

As a first step towards a four pillar State, police powers will be transferred to District and village control, and district and village councils will acquire a quarter share in all revenues and expenditures for the republic.

The police will not be allowed to open fire on the people except in the event of armed insurrection or killing by the crowd.

Believes that people's right to civil disobedience must be recognised as much as Government's right to arrest and imprison under due processes of law.

All Government employees except the army and armed police will have unfettered political rights.

Justice must be made cheaper and of quicker despatch.

Private ownership of land about 3 times the size of the minimum holding, that is a holding which a family of five can cultivate without employing hired labour or heavy mechanisation, will be permitted. All lands in excess of these will be distributed among poor peasants and landless labourers. Common lands which have been usurped by private individuals will be returned to the village. Land tax on profitless agriculture and uneconomic holdings will be abolished.

More land will be brought under cultivation with the help of a food army.

Agricultural labourers will have a guaranteed fair wage. Ejectments will be banned.

Will nationalise all main industries like iron and steel, engineering, sugar, textiles, cement, mines, electric power and chemicals. All foreign capital invested in the country will be nationalised.

Rejects the concept of property compensation, and accepts instead the concept of rehabilitation compensation.

In the nationalised sector workers will have adequate and effective representation in the State Corporations. In the private sector too representation will be provided in the management, but this would not in any way affect the right to strike or other rights inherent in collective bargaining.

Will fight for a "Fair day's wage for a fair day's work".

Will meet the challenge of unemployment adequately, and until then the Party will agitate for payment of reasonable unemployment relief to the unemployed.

Believes that education upto middle standard should be free and compulsory, and is opposed to the continuance of expensive educational institutions like the ones at Dehra Dun, Lucknow, Delhi, Ooty and other places.

Will bring all primary schools under the control of municipalities and district boards.

English must be eliminated forthwith from all Government and public use.

The medical profession will be progressively socialised and the Socialist Government will provide for free medical treatment to large sections of the population.

Will prohibit the plying of rickshaws.

Women will be given equal status with men in all matters, political, social and economic.

In the rural areas water pumps will be fitted to wells so that women who draw water save time.

Is committed to the principle of the equal irrelevance of capitalism and communism for promoting a new human civilisation. It wishes to build a third camp that keeps away from the Atlantic and Soviet systems and does not prefer the one to the other and would strive to create a civilisation of free men in an equal world.

Aims at India's dissociation from the Commonwealth.

Is certain that no solution to the problems of Goa, Pakistan and Indians overseas is possible without a change of the present Government.

Will enact legislation providing the right of recall.

The Socialist legislator or successful candidate pledges to wipe out illiteracy in his constituency under a phased 10 year programme.

He will equip his constituency with regularly functioning manure pits and Wardha latrines.

He will organise minor earth-works, particularly for irrigation, wherever possible and they will also help set up small-unit industry preferably run on power.

Socialist legislators will also make themselves responsible for such fulfilment of the above plans as is possible through agitation within and outside the Legislatures. If their efforts do not succeed, they will undertake civil disobedience.

SOME WOMEN'S ASSOCIATIONS

ALL-INDIA WOMEN'S CONFERENCE

Address : 6, Bhagwandas Road, New Delhi.

Office bearers (1958-59) :

President : Smt. Lakshmi N. Menon.

Vice-Presidents : Smt. Lalita Sachar, Smt. Vijayaraje Scindia, Smt. Avabai Wadia, Smt. B. Tarabai, Smt. Jayashri Raiji, Smt. Indirabai Deodhar.

Hon. Gen. Secretary : Smt. Mithan J. Lam (C/o F.P.A.I., 1 Metropolitan House, Dr. D. Naoroji Road, Fort, Bombay).

Hon. Treasurer : Smt. M. S. H. Jhabwala.

Hon. Secretary, A.I.W.E.F. Association : Smt. Kunti Batra.

Directress, Lady Irwin College : Smt. B. Tarabai.

Hon. Gen. Secretary, Village Mobile Health Van Committee (A.I.W.C. Skippoo) : Smt. Gulab Dalal.

Member-in-charge, Departments :

Legislation, Smt. Mithan J. Lam.

International Relations, Begum Husain Ali Khan

Asian-African Conference, Smt. Avabai Wadia.

Handicrafts, Smt. Visalakshi Narayanswamy.

Constitution, Smt. Urmila Mehta.

Editor "Roshni" (English), Smt. Tapti Mukerjee.

Editor "Roshni" (Hindi), Smt. Chandrakala Sahai.

Handicapped Children : Smt. Kamala Nimbkar

Employment Opportunities : Smt. Kundrani Gandhye.

Sarojini Naidu-Margaret Cousins Memorial Fund : Smt. Vijayaraje Scindia.

Margaret Cousins Memorial Library : Smt. Jaya Rajan

Family Planning : Smt. Pushpa R. Mehta.

The Conference was started in 1926 and is the oldest women's welfare organization in the country.

It publishes a monthly journal in English and Hindi called *Roshni*.

There are 39 branches in :

Ajmer, Andhra, Assam, Baroda, Bengal Central, Bengal West, Berar, Bhavnagar, Bhopal, Bihar, Bombay, Calcutta, M.P. North, M.P. South, Cochin, Delhi, Gujarat, Gwalior, Hyderabad, Indore, Jath, Junagadh, Karnatak, Kolhapur, Konkan, Madras, Maharashtra, Malabar, Mysore, Orissa, Phaltan, East Punjab, Patiala Rajasthan, Sangli, Tamilnad, U.P. Agra and Kashmir with about 275 constituent branches and 54,600 membership.

BOMBAY STATE WOMEN'S COUNCIL

Address : Town Hall, Bombay 1.

Office bearers :

President : Mrs. Gulastan R. Billimoria.

Vice-President : Mrs. Sushila D. Joshi

Hon. Treasurer : Mrs. Padmavati B. Sarniya.

Executive Secretary : Mrs. Dolly P. F. Masani.

There are branches in Ahmedabad and Poona.

Thirty-six societies are affiliated to the B.S.W.C.

There are committees for :

Rescue, Home Industries Depot, Labour, Parliamentary Affairs, Education, Children's Holiday Library, Health, Haj, Poona Collecting, Child Welfare, Social Education, Children's Films, Small Savings, Bapou Ghar, Beggar Problem and Children's Recreation.

B.S.W.C. has 1,119 members.

FEDERATION OF UNIVERSITY WOMEN IN INDIA

Affiliated to the International Federation of University Women, with headquarters in London.

Address : "Vani Vilas", Padriah Garden Street, Park Town, Madras 3.

Office bearers :

President : Mrs Mona Hensman.

Vice-President : Miss V. Kannan.

Hon. Treasurer : Dr. A. Zachariah.

Hon. Gen. Secy. : Miss M. Ramalingam.

There are branches (organized on University basis) in :

Bombay, Madras, Poona, Nagpur, Delhi, Lucknow, and Allahabad. *Sub-Branch :* Kodaikanal.

One of the chief aims of the Indian Federation is to promote friendship and understanding among the University women of different nationalities. Number of University women in India is about 40,000.

NATIONAL COUNCIL FOR WOMEN IN INDIA

Founded in 1925.

Affiliated to the International Council of Women.

Head Quarters Office :

Ground Floor, Kashmir House, 94, Nepean Sea Road, Bombay 6.

Present Office Bearers :—

President : Smt. Sarladevi Sarabhai ;

Vice-Presidents : Smt. Taraben M. Premchand, Smt. Niroj B. Shome ; Miss S. B. Das ; Smt. Vimla Virmani *Hony Genl Secty* Smt. Leelabai Phadke ; *Hony Treasurer :* Lady Vatsalabai Chandavarkar.

Affiliated State Councils : Bombay State Women's Council, Bombay ; West Bengal Council of Women, Calcutta ; N.C.W., Lucknow ; National Council of Women in India (U.P. Branch), Allahabad ; National Council of Women in India, Nagpur ; National Council of Women in India, Jamshedpur ; Orissa Nari Seva Samaj, Cuttack ; National Council of Women in India, Simla ; Delhi State Council of Women, Delhi ; Assam Provincial Mahila Samity, Gauhati ; Bihar Council of Women, Patna.

Affiliated Societies : Trained Nurses Association of India, Delhi ; Young Women's Christian Association of India, New Delhi ; Association for Moral & Social Hygiene in India, New Delhi.

Standing Sectional Committees on : (Convenors).

Legislation : Miss Avi J. Cama, Nagpur ; *Education :* Smt. S. Khandarkar, Poona ; *Bulletin and Editor of the Bulletin :* Smt. Vimla Virmani, Delhi ; *Child Welfare :* Smt. Anila Dey, New Delhi ; *Village Welfare :* Smt. Anila Dey, New Delhi ; *Health & Hygiene :* Dr. (Smt.) K. Sahgal, Dehra Dun ; *Prison Reforms :* Smt. Shudha Mazumdar, Calcutta ; *Handloom & Small Scale Industries :* Smt. Kety Shroff, New Delhi ; *Welfare work for Harijans and Backward & Scheduled Classes :* Smt. Usha Rahi, New Delhi ; *Welfare work for Adivasis :* Smt. J. Jaipal Singh, New Delhi ; *Small Savings Scheme :* Smt. S. Ram Lall, New Delhi ; *Khadi & Village Industries :* Smt. Kamala Bhandari, New Delhi ; *Co-operation with Bharat Sevak Samaj :* Smt. Priyadarshini Atal, New Delhi ; *Co-operation with UNESCO :* Madame Sophia Wadia, Bombay ; *Co-operatives :* Smt. Lilavati Banker, Bombay ; *Trades & Professions :* Smt. Malini Lele, Poona ; *Delinquency & Rehabilitation :* Smt. Tarunica Dehejia, Bombay.

SIR RATAN TATA INDUSTRIAL INSTITUTE

Address : Hughes Road, Bombay 7.

Office bearers :

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The Sir Ratan Tata Industrial Institute founded in 1928 by the Trustees of Sir Ratan Tata is a unique centre raised to the memory of an illustrious member of the famous House of Tatas.

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YOUNG WOMEN'S CHRISTIAN ASSOCIATION

This is a Christian Association and membership and programme participation open to women irrespective of race, class or creed, linked to similar organisations in other countries through affiliation to the World YWCA.

Address : Parliament Street, New Delhi.

Office bearers :

President : Mrs. Achamma Matthai

Vice-Presidents : Rani Maharaj Sahib of Kumari Amrit Kaur ; Mrs. J. Pathrose ; Mrs. Tharyan Verghese ; Mrs. R. K. Shanmukham.

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There are branches in all the large cities. In addition there are Youth Clubs known as "Y-Deepas."

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The programme is varied to meet the needs and interests of all members and the social welfare work has always been prominent. In rural areas, vocational training classes, employment bureaus are special features of the programme in local centres as well as child and health education.

WHO'S WHO IN INDIA

ABDULLAH, Sheikh Mohamad, ex-Prime Minister, Jammu and Kashmir. *b.* 1905, in Soura, near Srinagar; *Educ.:* Srinagar; Jammu; graduated with distinction from Lahore; M.Sc., Aligarh Univ.; while at Kashmir College he formed a Students' Union. 1927. Was a science teacher in the State High School; initiated a regular campaign for responsible Government, crystallising in the formation of the Kashmir Muslim Conference; created political consciousness among the people and took the opportunity of converting the Muslim Conference into the National Conference in 1938; launched the 'Quit Kashmir' movement, 1946, which aimed at complete democratisation of Kashmir; was put in prison; elected Pres., All-India States Peoples Conference; released, 1947; organised a Peace Brigade to maintain communal harmony in the State; organised national defence against the tribal raiders; was invited by the Maharaja of Kashmir to be the Head of the Emergency Administration at the time of the signing of the Instrument of Accession; member, Kashmir Delegation from India to the U.N.O.; M.P. for Kashmir till 1952; was detained for 4½ years from Aug. 9, 1953; released, Jan. 8, 1958; detained again, May 1, 1958 under the Preventive Detention Act. *Address:* C/o Soura, P.O. Noushera, Srinagar.

ABID Ali, Deputy Minister for Labour, Govt of India. *b.* 1900, Started life when 13 as Mill Mazdoor and hawker, Kanpur Mills, 1914-16; Govt. service at Wardha, 1916-20; resigned to join non-co-operation movement, 1921; Secy.: Wardha Khilafat and Congress Cttees., 1921-25; C.P., P.C.C., 1924-25; National Flag Satyagraha Cttee., 1923; sentenced 22½ months; Secy., Indian Assoc., Singapore, 1927-28; deported from Malaya for political reasons, 1927-28, joined Bardoli struggle, 1928; General Secy.: B.P.C.C., 1929-34; Congress Reception Cttee., Bombay, 1934; member: A.-I.C.C., for several years now; Bombay Legislative Council, 1949-52; organised and conducted Salt Satyagraha in the freedom movement; participated in all national struggles; arrested about a dozen times; was opposed to the formation of Pakistan; organised Bihar earthquake relief on behalf of Bombay, 1934; Trade Unionist since working in Kanpur Mills at the age of 13; among founders of the I.N.T.U.C., 1947; its Vice-Pres.; Founder and also Office-bearer of large number of Trade Union Organisations; Pres., Bombay I.N.T.U.C., 1948-51; represented Indian workers in International Conferences thrice, 1946, '48 and '50; Leader, Indian Delegation to I.L.O. conferences, 1953 and 1954; widely travelled; believes in Gandhian ideology. *Address:* Secretariat, New Delhi.

ACHARYA, Bejoy Krishna, B.A. (Hons.) (Econ.) (Calcutta), Jt. Secy., Ministry of External Affairs. *b.* May 1, 1912; *Educ.:* Calcutta and London Universities. Entered I.C.S., 1936; held charge of several important Bengal districts like Howrah, 24 Parganas, Bakarganj & Darjeeling; served as Dewan of Tripura & Dy. Chief Commissioner, Himachal Pradesh; Deputy High Commissioner for India at Dacca; Indian Minister in Cambodia. *Recreations:* Motoring; Photography. *Clubs:* Delhi Gymkhana Club; Darjeeling Gymkhana Club; Dacca Club. *Address:* External Affairs Ministry, New Delhi.

ADANI, Raisaheb Maleshankar, Minister for Prohibition, Village Panchayats and Cottage Industries, Govt. of Bombay, since Nov. 1, 1956. *b.* at Bhanwad in Halar Dist. Left studies early in 1930 to join Satyagraha Movement; courted imprisonment several times; started constructive work at Tarawada after his release from jail in 1934; went underground in 1942 and was active in the Quit India movement, was C.-in-C., Arazi Hakumat organised in 1947 to liberate Junagadh from Pakistan, elected member, Saurashtra Leg. Assembly in 1951 from Keshod Constituency and appointed Minister for Development and Planning, 1951 *Address.* Sachivalaya, Fort, Bombay 1.

ADARKAR, Bhaskar Namdeo, M.A. (Cantab.), B.A. (Bombay Univ.), M.B.E. (1946), Executive Director, International Monetary Fund, Washington, since June 1957. *b.* May 18, 1910; *Educ.:* Wilson Coll., Bombay, Gonville and Caius Coll., Cambridge Agent, Bank of India, Ltd., Bombay, 1938; Research Officer to the Economic Adviser to the Govt. of India, 1938-40; Chief Research Officer, 1940-41; Under-Secy. to the Govt. of India, Commerce Dept., 1941-43, Asstt. Economic Adviser to the Govt of India 1943-45; Dy. Economic Adviser to the Govt of India, 1945-49; Member, Indian Tariff Board, June-November, 1949 and May 1950-Jan. 1952; Member, Indian Tariff Commission, January 1952 to March 1957; Officer on Special Duty, Ministry of Finance, April-June, 1957; Secy. Reconstruction Cttees., 1941-43, Govt. of India's Delegate to Preparatory Cttee. on Trade and Employment, Drafting Cttee. of that Cttee. Havana Conference on Trade and Employment, E.C.A.F.E. Sessions and meetings of the I.T.O. *Publications: Indian Tariff Policy; Devaluation of the Rupee, The Gold Problem: History of the Indian Tariff;* and several official publications. *Address:* I.M.F., Washington.

ADVANI, Pritamdas Bhojraj, M.Sc. Tech. (Manch.), M.I.E. (India), Consulting Engineer and Industrial Adviser; Director: New India Fisheries Ltd.; Bharat Barrel and Drum Mfg. Co. Ltd. *b.* May 21, 1891: *Educ.:* Hyderabad, Sind and Manch. Univ. Engr., Metropolitan Vickers in their Manchester Works and Bombay till end of 1921 and thereafter Manager, Bombay Region till Aug. 1928; Director of Industries, Govt. of Bombay from August 1928 to January 1944; Chairman, Board of Direction for Technical Education and Industrial Training, Bombay till Oct. 1944; Chairman, Board of Trustees, Victoria Jubilee Technical Institute, Bombay, 1938-48; member, Bombay Legislative Council, 1932-36; on special duty in U.S.A., 1939 in connection with proposal for the establishment of the automobile industry in Bombay; Member of Senate, Bombay University, 1931 to 1945; Member, Central Board of Irrigation and Power; Electrical Commsr., Govt. of Bombay, 1944-51. *Address:* "Oceana," Netaji Subhas Road, Bombay.



ADVANI, Tillumal Mangharaj, M.A., LL.B., Principal, Jai Hind College, Bombay, since June 1948 and Vice-Chancellor, Univ. of Bombay, since March 1957. *b.* March 26, 1888; *Educ.:* Navairai Hiranand Academy, Hyderabad (Sind); D. J. Sind College, Karachi; B.A. in 1908 in High Second Class; M.A., 1909 with Languages and Literature (English and Persian); LL.B., 1911; Dakshina Fellow, D. J. Sind Coll., Karachi, 1908-09. Prof. of English, D. A. V. Coll., Lahore, 1912-14; Prof. of English, S. P. Coll., Srinagar, March 1914; Prof. of English, D. J. Sind Coll., Karachi, 1914-17; Principal, D. J. Sind Coll., Karachi, 1947-48, Member of the Senate, Univ. of Bombay from 1930; Univ. Delegate to the Conference of English Teachers in Lucknow and in Allahabad and presided at the latter; visited U.K., France, Germany, Italy, Switzerland and Holland, 1951 and again, 1954 as Official Guest of the British Council, saw all the important Univs. in the U.K., *viz.* London, Oxford, Cambridge, Edinborough and Glasgow, 1954; also saw the Univ. of Sarbonne (Paris), Heidelberg (Germany), Milan (Italy), and Geneva (Switzerland). *Publications:* Commentaries on several English Classics. *Recreations:* Swimming; Gardening. *Clubs:* Willingdon Sports Club. *Address:* Jai Hind College, Bombay 1.

AGARWALA, Dr. Amar Narain, M.A., B.Com., D.Litt., Professor & Head, Department of Commerce & Dean, Faculty of Commerce, Allahabad University. Sometime Dean, Faculty of Commerce, and Head of the Depts. of Economics & Commerce Univ. of Saugar, M.P. *b.* July 8, 1917. *Educ.:* K.P. Coll., Allahabad, and Univ. of Allahabad. Had a brilliant academic career, winning most of the prizes and scholarships including Queen Empress Victoria Jubilee Medal (highest academic distinction, Allahabad Univ.) A leading economist; an expert on social security and economic planning. Vice-Pres., Indian Commerce Assoc., 1957; Editor, *Ind. Jrl. of Econ.* and *Ind. Jrl. of Com.*; his book *Samajvad ki Ruprekha* recognized the best book in Hindi on Socialism by Sahitya Sammelan (1939) which gave him the Muraraka Prize for it; contributor to many learned journals in India and foreign countries including *Economic Journal* (London) and *International Labour Review* (Geneva); was for some time on deputation in the Labour Dept., Govt. of India; associated with 21 economists in issuing a Manifesto on Government's monetary policy in 1946; edited symposiums on *Position and Prospects of India's Foreign Trade* with the co-operation of Trade Commissioners and on *Indian Labour Problems* containing articles of India's 24 leading labour experts; Mg. Ed., *Indian Journal of Economics*, Organ of the Indian Economic Association, 1943-1947; Mg. Ed., *Indian Journal of Commerce*, Organ of Ind. Cmmr. Assn., 1947-51; member, various bodies. Allahabad, Lucknow, Rajputana, Bihar, Patna, Vikram, Jabalpur, Utkal, Sagar 'Varsities; Secy. (1947-51) and Founder-Member, Indian Commerce Association; Genl. Secy., Bharatiya Vidyabhavan, Allahabad, 1952-53; Founder and Director of Research, Indian Institute of Economic and Social Research; extensively toured China as member of Universities' Delegation and studied its educational and economic institutions, 1955. *Hobbies:* Journalism, cinema and tennis. *Publications: Insurance in India, Social Insurance Planning in India, Health Insurance in India, Pessimism in Planning, Socialism without Prejudice*, etc. *Address:* 5, Balrampur House, Allahabad.



AGARWALA, Chandra Bhan, M.A., B.L., Ex-Judge, Allahabad High Court. *b.* 1897; *Educ.:* St. Stephen's School, Delhi, Hindu College, Delhi and Calcutta University; Matric from Delhi, 1914; B.A. with Honours from Punjab Univ., 1918; M.A. in 1920 and B.L., Calcutta Univ., 1921. Gold Medallist (Cal.). Enrolled as Vakil, High Court, Alld., 1923 and of Calcutta High Court,

1923; practised at Bulandshahr, 1922-32; practised at the High Court, 1932-48; Hony. Treasurer, Lucknow Univ., Lucknow. *Publications:* Author of the Commentary on U.P. Tenancy Act, 1939, etc. *Address:* 25A, Purshottam Das Tandon Road, Allahabad.

AGARWALA, Jagdish Prasad, M.A., B.Com., Banker, Landlord and Millowner. *b.* July 1913, in Uttar Pradesh; *Educ.:* St. John's Coll. Entered business at an early age; Managing Proprietor, Educational Press, Agra; Partner in the Managing Agency of Oriental Publishers (Agra) Private Ltd.; was Director, Vishal Bharat Bima Co., Ltd; Agra Hotel (Hills) Limited, Delhi; Scientific Industries Ltd.; Sooryodaya Films Ltd.; Glasswares Ltd; Bharti Prakashan Mandir Ltd.; partner: Gaya Prasad & Sons, Booksellers and Publishers; National Press; Central Manufacturing Co.; Univ. Book Depot; Prasad Bros., Wal & Co.; Popular Book Depot, Jaipur; Mitra Prakashan; General Traders (India), Iron & Steel Traders; Director: National Chamber of Commerce & Industries; Treasurer, Indian Council of World Affairs; member: League of Help; International Fellowship; Rotary Club of Agra; Hony. Secy., U.P. Automobile Association; sponsored the All-India Seth Gaya Prasad Memorial Cricket Tournament; President, Publishers' Assoc.; Vice-Pres.: Agra Athletic Assoc.; Goladevi Pathshala; St. John's Coll Old Boys' Assoc.; Krishna Lila Cttee.; Trustee, Victoria Higher Secondary School, Fakirchand Inter Coll. *Publications:* Several Hindi and Economic books including *Rashtra Nirmata*, life sketch of Indian leaders, *Elementary Economics in Hindi for Beginners*, books on Co-operation, Statistics and Transport for M.A. students. *Recreations:* Music, Cricket and Sight-seeing. *Clubs:* Agra Rotary Club; Agra Club Ltd. *Address:* Gaya Kunj, Bankey Vilas, Agra.



AGARWALLA, Bhagwati Prasad, Business man mainly in Coal Mining and Refractory Manufacturing. *b.* July 12, 1910; *Educ.:* St. Xavier's Coll., Calcutta. Carried on family business after the death of his father, 1928; subsequently added Jharia Firebricks and Pottery Works and a few Coal Mines; has agency business also; has been Pres.: Indian Colliery Owners' Assoc.; Bihar Chamber of Commerce; The Geological Mining and Metallurgical Society of India; attended several I.L.O. conferences in U.S.A. and Europe as employers' representative from India, 1948-53. *Publications:* Various articles contributed to Newspapers and Journals on Coal Industry. *Recreations:* Travelling; Painting. *Clubs:* Rotary Club, Dhanbad; Sindri Club, Sindri. *Address:* P.O. Jharia, Dist. Manbhum (Bihar).

AGGARWAL, Kundan Lal, M.A. (Oxon.), B.A. (Oxon.), M.Sc. (Punjab), I.F.S., M.B.E. (1941), Ex-President, Forest Research Institute and Colleges, Dehra Dun. *b.* Aug. 21, 1900; *Educ.:* Punjab and Oxford Univs.; awarded Gold Medal for securing highest marks in B.Sc. and M.Sc.; awarded the Currie Scholarship for topping the list of successful candidates, 1922-24. Was Divisional Forest Officer, Kulu, Kangra, Seraj and Rawalpindi forest divisions; the first Indian to undertake and plan for the world-famous Kulu-Seraj forests in the Punjab; Head of the Forest Deptt., former Chamba State, for 4 years; Director of Forest Education, Nov. 1940-Feb. '53; was also in charge of Publicity and Liaison Branch of the Institute; Conservator of Forests, South Circle, Punjab, 1953; toured U.K. and the Continent; represented the Govt. of India at the 12th Congress of International Union of Forest Research Organizations held at Oxford, July 1956; attended the first meeting of Forestry Education Panel of F.A.O. at Oxford. *Address:* C/o Forest Research Institute and Colleges, New Forest P.O., Dehra Dun.

AGRAWALA, Dr. Vasudeva S., Ph.D., D.Litt., Hindi Writer; Professor, Banaras Hindu University. *b.* 1904; *Educ.:* Banaras Hindu Univ. (1923-27); Lucknow Univ. (1927-31); took Ph.D., 1941 and D. Litt., 1946. Curator, Mathura Museum (1931-39); Curator, Lucknow Museum (1940-45); Supdt., Museums Branch of the Archaeological Survey, Govt. of India, New Delhi (1946-51); (on deputation) Professor, Art and Architecture, Banaras Hindu Univ. (1951-56); Editor, *Journal of the Numismatic Society of India*; General Editor, *Prakrit Text-Society Series*. *Publications: Catalogue of the Mathura Museum; India as Known to Panini; Harshacharita—A cultural Commentary; Jayasi's Padmavata—A Commentary.* *Address:* Professor, Banaras Hindu University, Banaras 5.

AHMAD, Mr. Justice Khaleel, B.Sc., LL.B., Bar-at-Law, Judge, Patna High Court. *b.* April 4, 1907; *Educ.:* Patna, Aligarh and U.K. Practised first in the Dist. Court, Patna and then at the Patna High Court; raised to the Bench, 1951. *Recreations:* Golf, bridge. *Clubs:* The Bankipore Club, Patna. *Address:* 3, King George Avenue, Patna 1.

AHMAD, Muzaffar, Member, Central Committee of Communist Party of India; member of the secretariat, West Bengal State Committee, C.P.I. *b.* 1889; *Educ.:* Noakhali Zilla School and Bangabasi Coll., Calcutta. Member, Communist Party of India since its inception, 1921; Editor of Bengali daily *Navayug*, 1920; also edited Bengali weekly *Ganabani* (1926-28); convicted in Cawnpore Communist Conspiracy Case, 1924; convicted in Meerut Communist Conspiracy Case for transportation for life, but reduced to three years' R.I. by Allahabad High Court. *Publications:* A Treatise on Agrarian Question in India, 1937. *Address:* 64A, Lower Circular Road, Calcutta 16.

AHMED, Dr. Rafiuddin, D.D.S. (Iowa, U.S.A.), F.D.S., Royal Coll. of Surgeons of England. Minister of Agriculture & Animal Husbandry, Govt. of West Bengal. *b.* Dec. 24, 1890; *Educ.:* Calcutta Univ.; State Univ. of Iowa, U.S.A. Founder & Principal, Calcutta Dental Coll. and Hospital; Councillor and Alderman, Calcutta Corporation; member, West Bengal Leg. Assembly. *Publications:* Author of *Students' Handbook of Operative Dentistry*. *Recreation:* Swimming. *Clubs:* Calcutta Club. *Address:* 103, Ballygunge Place, Calcutta 19.

AIYAR, Bangalore Subba Iyer Doraswamy, M.A., B.Sc. (Hons.), D.I.I.Sc. (Tech.), A.M.I.E., Master of the Mint. *b.* July 9, 1914; *Educ.:* Mysore and Annamalai Univs.; Indian Institute of Science; foreign training with Messrs. Henry Wiggins Ltd. and other reputed firms dealing in non-ferrous metallurgy. Joined the Hindustan Aircraft Factory as an Engineer, 1941 and subsequently took service with the Defence Dept. in their ordnance factories as Electrical Engineer for Planning, Aug. 1941—Feb. 1947; was Technical Officer in charge of Communications Installations, Civil Aviation Directorate, Ministry of Communications; joined the Ministry of Finance as Asstt. Mint Master, Aug. 1947; was assigned the 1st rank on an All India basis selection by the U.P.S.C. *Recreations:* Billiards, Tennis, etc. *Address:* Master of the Mint, Fort, Bombay-1.

AIYAR, Mr. Justice T. L. Venkatarama, B.A., B.L. (Madras), Judge, Supreme Court of India, New Delhi, since Jan. 4, 1954. *b.* Nov. 25, 1893; *Educ.:* Madras Christian Coll.; Law Coll., Madras. Practised as Advocate, Madras High Court, 1917-51; raised to the Bench, July 7, 1951, retired, Nov. 24, 1953. *Address:* No. 5, Safdarjang Road, New Delhi.

AKILANDAM, V. *alias* Akilan, Tamil Novelist and Short Story Writer. *b.* Feb. 7, 1923; *Educ.:* Maharajah's Coll., Pudukkottai. Participated in the freedom movement, 1941-44; took to writing; takes active part in social uplift; attends college meetings as a speaker etc.; broadcasts on radio; Hon. Secy., Tamil Writers' Assoc., Trichy Dist., Trichy; awarded first prize for his novel by the Tamil Academy on behalf of the Madras Govt. *Publications:* 20 books (short stories, novels, literary articles plays and translations); contributes short stories and serial novels to *Kalaimagal*, *Kalki* and other leading journals in Tamil Nad. *Recreations:* Reading. *Address:* 5, Pattabiram Pillai Street, Tennur, Tiruchirapalli 1.

AL. Vallappa, Writer of children's book in Tamil; General Secy., Tamil Writers' Assoc., Madras; Pres., Children's Writers' Assoc., Madras. *b.* Nov. 7, 1922; *Educ.:* Pudukottai, Madras State. Some time Editor *Poonjolai*, a monthly Tamil magazine for boys and girls; has been working for the growth of children's literature for the past 15 years. *Publications: Malarum Ullam*, a collection of 135 poems for children; got the Central Govt. award and also the Madras State award for it; got the Madras State award for his story book for children *Nalla Nanbarkal*, 1955. *Address:* 10, Vaidyaraman Street, Madras 17.

ALBUQUERQUE, Colonel V. M., I.M.S. (Lond.), M.R.C.S. (Eng.), F.R.C.S. (Eng.), M.B.E. (Military Division) (1937), Director General, Employees' State Insurance Corporation, since Dec. 1953. *b.* Jan. 5, 1901; *Educ.:* St. Xavier's High School, Bombay; St. Joseph's Coll., Naini Tal; King's Coll. Hospital, London. Principal Medical Officer, Bikaner, commissioned I.M.S., 1933; Surgical Specialist, Mohmand operations, 1933 and 1935; Waziristan operations; mentioned in despatches 1937-38; World War II O.C., Indian Military Hospital, Allipore; Officer I/C Surgical Division, Indian War Base Hospitals at Moradabad and Lucknow; Adviser in Surgery, Central Command; Medical Planning Officer and Deputy Surgeon General, Bengal 1946-47; Additional Deputy Director-General of Health Services (Social Insurance) 1947-49; Medical Commissioner, Employees' State Insurance Corporation, 1949-50; Professor of Surgery, Armed Forces Medical College, Poona, 1951-53. *Recreations:* Tennis. *Clubs:* Delhi Gymkhana, "The 300 Club". *Address:* Grindlays Bank Ltd., New Delhi, 14, Lal Murti Lane, New Delhi.

ALENCAR, His Excellency Jose Cochrane de, LL.B. (Lond.), Member of the Royal Economic Society, O.B.E., Ambassador Extraordinary & Plenipotentiary of Brazil to India since Oct. 1, 1956. *b.* Nov. 19, 1898 at Rio de Janeiro; *Educ.:* Germany, Switzerland and England. Second Secy., Oslo, July 1923-Feb. 1938; First Secy., Feb. 1938—April 1940; Consul General, San Francisco, April 1940-Aug. 1948; Envoy Extraordinary & Minister Plenipotentiary, New Delhi, Aug. 1948-Nov. 1949; Canberra, Nov. 1949-Oct. 1954; Stockholm, Oct. 1954—March 1956; Ambassador Extraordinary & Plenipotentiary, Karachi (Pakistan), March to Oct. 1956; recipient of many decorations amongst which is the Grand Cross of the Order of Malta. *Clubs:* St. James Club, London; Jockey Club, Rio de Janeiro; Delhi Golf Club, New Delhi. *Address:* Brazilian Embassy, 8, Aurangzeb Road, New Delhi.

ALI, Sir Saiyid Fazl, Kt. (Jan. 1941), Padma Vibhushan (Jan. 26, 1956), B.A. (Allahabad), Bar-at-Law, LL.D. (Honoris Causa) (Muslim Univ., Aligarh), Governor of Assam, since May 15, 1956. *b.* September 19, 1886; *Educ.:* London Mission School, Banaras; Queen's College, Banaras; Muir Central College, Allahabad; Middle Temple, London. Practised as a Barrister at Chapra and Patna; appointed Judge of the Patna High Court, April 1928; acted as Chief Justice, 1938; deputed by the Govt. of Bihar to settle certain industrial disputes



at Jamshedpur; appointed permanent Chief Justice, January 1943; appointed Chairman, R.I.N. Mutiny Enquiry Commission, April 1946; appointed Member, Calcutta Disturbances Enquiry Commission, Sept. 1946; went as Delegate for India to the 2nd Session of the U.N. General Assembly at New York in Sept. 1947 and elected Chairman of the Fifth Committee of the Assembly during that session; Judge, Federal Court of India, 1947-Jan. 1950; Judge, Supreme Court of India, 1950-52; Governor of Orissa, 1952-54; Chairman, States Reorganisation Commission, 1954-55. *Address:* Bank Road, Patna; Shillong, Assam.

ALI YAVAR JUNG BAHADUR, Dr. Nawab (Mirza Ali Yar Khan), B.A., Hons (Oxford), Ambassador of India to Yugoslavia. *b.* Feb. 16, 1905; *Educ.:* Nizam Coll., Hyderabad-Dn.; Queen's College, Oxford. Professor of History, Osmania University, 1927-34; Director of Information, Hyderabad Govt., 1934-36; Secy. to Govt., Constitutional Affairs, Information and Broadcasting, 1936-42, Secy. to Govt., Constitutional Affairs, Police, Education and Judicial, 1942-45, Vice-Chancellor, Osmania Univ., 1945-46; Minister for Constitutional Affairs, Local Govt., Medical, Public Health and Education, 1946-47; resigned from Hyderabad Govt. Service, Aug. 1947; Indian delegate to U.N., 1948, 1950, 1952 and 1953 and Deputy Chairman of the Indian Delegation to the 1954, 1955, 1956 and 1957 Sessions; Vice-Chancellor, Osmania University, Hyderabad-Dn., 1948-52, Leader of the Indian Delegation to the Economic and Social Council, 1953; Indian Ambassador to Argentina and Minister Plenipotentiary, to Chile, 1952-54; elected Chairman, United Nations Ad Hoc Cttee. for SUNFED, May 1956; Doctor of Laws Honoris Causa, Osmania Univ., 1956, Ambassador to Egypt, 1954-58 *Publications: Hyderabad in Retrospect; External Relations of Hyderabad* (Official). *Address:* Indian Embassy, Belgrade.

ALTEKAR, Dr. Anant Sadashiv, M.A., LL.B., D.Litt., Director, K. P. Jayaswal Research Institute, Patna. *b.* August 30, 1898. *Educ.:* Deccan College, Poona. Chairman, *Numismatic Society of India* since 1951. President, All-India Oriental Conference, 1957. Visiting lecturer, Yale University, America 1954; deputed by Indian Govt. to Br. West Indies to lecture on Indian culture, 1954; Professor of Ancient Indian History and Culture, Patna University, 1949-57; at Hindu University, Banaras, 1930-40; member, West German Govt. Guest Delegation, 1957. *Publications: History of Village Communities in Western India*, 1927; *Education in Ancient India*, 5th Ed., 1957; *Rashtrakutas and their Times*, 1932; *Position of Women in Hindu Civilisation*, 1938, 1956; *The Age of Vakatakas and Guptas*, 1946, 1954; *State and Government in Ancient India*, 1949, 1955; *Sources of Hindu Dharma*, 1953; *Cat. of Bayana Hoard of Gupta Gold Coins*, 1954; *Corpus of the Coins of the Gupta Empire*, 1957. *Club:* Staff Club, Patna University. *Address:* Ranighat, Patna 6.

ALUWIHARE, H. E. Sir Richard, K.C.M.G., C.B.E., High Commissioner for Ceylon in India, since June 1957. *b.* 1895; *Educ.:* Received his early education at Trinity Coll., Kandy. Went to France joining the Royal Fusiliers, Public Schools Battalion, 1915; was wounded while on active service in France and after convalescing in England returned to France as Welfare Officer with the Indian Army; returned to Ceylon and was appointed to Ceylon Civil Service, 1919; held several high administrative posts; Inspector-General of Police, 1947-56; while holding the post of Inspector-General of Police, was on several occasions acting Permanent Secretary to the Ministry of Defence and External Affairs; was also Chairman, Ceylon Civil Service Assoc. and Pres., Ceylon Arts Council; after retirement appointed Chairman, Ceylon Prohibition Commission. *Address:* 224, Jor Bagh, New Delhi.

ALVA, Joachim, B.A., LL.B., M.P., Journalist. *b.* Jan. 21, 1907; *Educ.:* St. Aloysius Coll., Mangalore; St. Xavier's Coll., Elphinstone Coll. and Law Coll., Bombay; First Prize Winner, Bombay Law Coll., Extempore Speaking, Gold Medallist and First Prize Winner, All-India Inter-Univ. Oratorical Contest, Benares Univ. Suffered three years' imprisonment in the Congress movement; enrolled Advocate, Bombay High Court and practised for seven years; Founder and Editor (1943), *Forum*, Indian weekly news magazine; member: Standing Cttee., All-India Newspaper Editors' Conference, 1945, Member, Govt. of India Delegation of Indian Editors to the Sokol, Czechoslovakia, 1948; Sheriff of Bombay, 1949; member, Panel of Chairmen of the first sessions of the Republican Parliament of India; member, Parliamentary Standing Cttees. for Defence and External Affairs, 1950-51; elected to the Lok Sabha (from North Kanara district); Member, Indian Parliamentary Delegation to Turkey (1954). Member, Parliamentary Consultative Committees on Defence, External Affairs and Finance, 1956; attended The Annual Air Show at Farnborough at the invitation of the British Society of Aircraft Constructors, 1957. *Publication: Men and Supermen of Hindustan* (Thackers). *Clubs:* Delhi Gymkhana Club, Chelmsford Club, Constitution Club, Delhi; Cricket Club of India, Bombay; Willingdon Club, Bombay. *Address:* "Forum," Apollo St., Bombay 1.

ALVA, Shrimati Violet, M.A., LL.B., M.P. (Rajya Sabha), Deputy Minister for Home Affairs, Govt. of India since April 1957. *b.* April 24, 1908; *Educ.:* St. Xavier's Coll., Govt. Law Coll., Bombay; holds Diploma of Social Service League, Servants of India Society. Hon. Prof. of English, Indian Women's Univ. (1936-37); Hon. Presidency Magistrate, J.P., Jail visitor etc., Vice-Pres. Indian Christian Conference (1944-47); jailed with her five months old son in the "Quit India" campaign (1943); first woman Advocate in India or Pakistan to have argued out successfully a case before any Full Bench of any High Court (1944); Founder Editor of now defunct *Begum*, later known as *Indian Woman*; first Indian woman to be deputed abroad—on the Indian Press Delegation to Egypt (1950); Founder and Pres., Agripada Rahiwasi Seva Mandal (a labour centre in Bombay) (1946-52); elected unopposed to the Bombay Municipal Corporation (1946); M.L.C., Bombay (1947-52); first woman member elected to the standing Cttee. of the All-India Newspaper Editors' Conference (1952); elected to the Ex.-Cttee. of the Congress Party in Parliament (1953 and 1955); member: Central Board of Film Censors (1954-57); Public Accounts Cttee., Indian Parliament (1954-55); Secy., Indian Women's Cultural Delegation to Soviet Union (1954); Vice-Pres. for India of the International Federation of Women Lawyers, from 1953; Observer on behalf of the International Federation of Women Lawyers for the UNESCO Ninth Session at New Delhi, 1956. *Subjects in Parliament:* Defence and Foreign Affairs. *Address:* 2, Khatau Mansion, Cooperage, Bombay 1; 3, Asoka Road, New Delhi.

AMIN, Ramanbhai Bhailalbhai, Director and Chairman, Alembic Glass Industries Ltd., Baroda and Alembic Chemical Works Co., Ltd., Baroda. *b.* May 19, 1913, at Baroda; *Educ.:* Baroda, Bombay and Germany; trained in Engineering at Darmstadt (Germany) where he studied from 1931-34. Engineering Adviser and Chairman, Alembic Chemical Works Co., Ltd., Baroda. *Address:* Alembic Colony, Baroda 3.

AMRELIWALA, Gulamhusein Alibhai, Justice of the Peace, Partner, A. G. Bookwalla; Book Manufacturer. *b.* March 21, 1906; *Educ.:* Bombay. After leaving school, started business in book manufacturing, takes keen interest and active part in the Bahai movement; is Vice-Pres., National Bahai Assembly of India, Pakistan and Burma; Pres. of its local branch; has travelled all over India to teach Bahai Faith; went on pilgrimage to Haifa (Israel) to the tomb of Bahaullah and his son Abdul-Baha, 1952; toured Germany, Switzerland, Italy and Israel, 1953; member, W.I.A.A. *Publications:* Many poems in Gujarati magazines under the pen-name *Mitra*, has contributed articles to Gujarati papers *Be-Gadi*, *Mouj* and *Watan* on various subjects. *Address:* 9, Mirza Street, Bombay 3.



AMRIT KAUR, Rajkumari, M.P. (Rajya Sabha), Ex-Minister, Govt. of India. *b.* Feb. 2, 1889, at Kapurthala Palace, Lucknow. *Educ.:* in England. Foundation Member, All India Women's Conference and All India Women's Education Fund Association, and working Chairman of latter for many years; Member, Advisory Board of Education, Govt. of India for many years; Secretary to Gandhiji for 16 years, served on Board of All India Spinners' Association and Hindustani Talimi Sangh during Gandhiji's life-time; Deputy Leader of Indian Delegation to UNESCO Meetings in 1945 and 1946 in London and Paris, Leader of Indian Delegation to WHO Annual Meetings in 1948, 1949, 1951 and 1953; President of the World Health Assembly in 1950, President, All India Conference of Social Work, 1948-49. Union Minister of Health 1947-57; held additional charge of Communications Portfolio 1951-52. Chairman, Indian Red Cross Society; Vice-President and Vice-Chairman International Red Cross and League of Red Cross Societies respectively, Chief Commissioner, St. John Ambulance Brigade in India, Pres.: Indian Council of Child Welfare since inception, National Sports Club of India since inception, Chairman, Rajkumari Sports Coaching Committee, Pres.: All India Lawn Tennis Association, Tuberculosis Association of India, Hind Kusht Nivaran Sangh since inception; Trustee, Gandhi Smarak Nidhi; Trustee Jallianwalabagh National Memorial Trust; Guru Nanak Memorial Trust; Member, Governing Body, Council of Scientific and Industrial Research, President Delhi Music Society; Table Tennis Federation of India; All-India Institute of Medical Science; Hony Fellow, American Public Health Assoc; Minister of Health, Government of India, 1947-57; awarded Count Folke Bernadotte Medal of the League of Red Cross Societies, Nov. 1957. A lover of sports and keen tennis player having won many tennis championships. Loves children and flowers. Strict vegetarian. *Permanent Address:* "Manorville", Summer Hill, Simla-West.

ANAND, K. R., Industrialist and business man. *b.* Jan. 5, 1908, at Khanpur (N.W.F.P., Pakistan); *Educ.:* Peshawar. Came to Bombay, 1934; extensively toured the whole of India, Burma, Ceylon and Afghanistan to study the markets closely; entered manufacturing business, 1939; for the first time in India, developed and designed his own plant for the manufacture of the Lead Storage Batteries without the aid of foreign technicians; produced complicated electrical equipment for the Indian Railways and also Water Distilling Stills, Battery Chargers, Lead Melting Industrial Furnaces, Ignition Parts, and other electrical appliances of utility; went to Germany as a delegate of the Indian Standards Institution, Govt. of India, to



attend the meetings of the International Electro-Technical Commission, 1956; thereafter went round the world to gain knowledge and experience; designs and develops his own tools, plant and jigs for anything he decides to manufacture; is always busy carrying out research or experiments; Founder Chairman, Hinco (India) Private Ltd., Bombay, Delhi and Madras; is also Director, New Famous Litho Works Ltd. *Address:* Jacob Circle, Bombay 11.

ANAND, Mulk Raj, B.A. (Hon.), Ph.D., Author, Novelist and Critic; Editor, *Marg* Magazine. *b.* December 12, 1905, *Educ.:* Punjab University, Universities of London and Cambridge. Lecturer in literature and philosophy to the London County Council adult education schools, 1939-42; Editor of various magazines; Leverhulme Fellow for research in Hindustani literature, 1940-42. Broadcaster at the B.B.C., Film script-writer at the M.O.I., 1942-45. *Publications: Novels: Private Life of An Indian Prince, Seven Summers, The Big Heart, The Sword and the Sickle, Across The Black Waters, The Village, Two Leaves And A Bud, Coolie, Untouchable, Tractor and the Corn Goddess, The Barber's Trade Union.* Essays: *Apology for Heroism, Lines Written to an Indian Air, Hindu View of Art, Persian Painting,* etc. *Address:* 25, Cuffe Parade, Colaba, Bombay.

ANANT, Ganeshram, M.A., LL.B., Minister for Social Welfare and Co-operation, Madhya Pradesh, since April 15, 1957. *b.* Sept. 22, 1923; *Educ.:* Matriculated from Govt. High School, Bilaspur, 1942; graduated from S.B.R. Arts Coll., Bilaspur, 1948; M.A. in Economics from Morris Coll., Nagpur, 1950; LL.B. from Univ. Coll. of Law, Nagpur, 1950; Secy., Students Congress, Bilaspur, 1944; Pres., Harijan Students' Union, Mahakoshal, 1947; Bhartiya Depressed Classes League, Mahakoshal, since 1955; member, Executive of Harijan Education Society, M.P., since 1954; acted as Chairman, Reception Cttee., All-India Harijan Convention, 1952; Chairman, Swastik High School, Nagpur, 1956; elected M.L.A., Madhya Pradesh on Congress ticket from Janjgir-Pamgarh Constituency, 1951; Dy. Minister for Agriculture, 1951-56; Minister for Social Welfare, new M.P., Nov. 1, 1956-57; returned unopposed to M.P. State Assembly from Masturi Constituency, March 1957; re-appointed Minister, M.P. *Publications:* Has written for *Sahitya Sandesh* of Agra; *Saket Sant; Chhayavad Aur Rahasyavad,* etc. *Recreations:* Bridge, Music, etc. *Address:* Minister for Social Welfare, Polo Bungalow, Bhopal.

ANCHAL, Rameshwar Shukla, M.A. (Nagpur). Hindi Poet; Reader in Hindi, Institute of Languages and Research, Jabalpur, since Nov. 1956. *b.* May 1, 1915; *Educ.:* Lucknow Univ. and K. K. Inter Coll., Lucknow. Lecturer in Hindi, Robertson Coll., Jabalpur, 1945-52; Asstt. Prof. of Hindi, Robertson Coll., 1952-56. *Publications:* Seven collections of poems, two collections of short stories, four novels, one history of Hindi literature and two collections of critical essays and research papers. *Recreations:* Walking, Reading and Writing. *Address:* Shiva Kutee, Napier Town, Jabalpur.

ANDREW, James Anderson, Chartered Accountant, Managing Director, A. & F. Harvey Ltd.; Chairman: Board of Directors, Madura Mills Co., Ltd., Madurai, Tuticorin and Ambasamudram, Pandyan Insurance Co., Ltd., Punalur Paper Mills Ltd., Pandyan Bank Ltd., The Indian Textile Paper Tube Co., Ltd.; Director: National Machinery Manufacturers Ltd., Travancore Titanium Products Ltd., Yenner, Cockill Ltd., etc. *b.* 1910, at Hoylston, Scotland. Joined Madura Mills, 1933; member: All-India Handloom Board; Cotton Textiles & Cotton Control Cttee.; All-India Handloom Fabrics Marketing Co-operative Society Ltd. *Recreations:* Golf, Tennis. *Address:* Pasumalai Hills, Madurai.

ANEY, Dr. Madhao Shrihari, B.A., B.L., Ex-Governor of Bihar. *b.* August 29, 1880; *Educ.:* Morris Coll., Nagpur. Teacher, Kashibai Private High School, Amraoti, 1904-07; joined Bar, 1908 at Yeotmal; Vice-Pres., Indian Home Rule League; Pres., Berar Provincial Congress Cttee., 1921-30; joined Civil Disobedience Movement; Ag. Pres., Indian National Congress, 1933; M.L.A. for Berar, 1924-26, 1927-30 and 1935; member, Congress Working Cttee., 1924-25 and 1931-34; founded Yeotmal District Assoc., 1916; member, Nehru Cttee.; Vice-Pres., Responsivist Party; General Secy., Congress Nationalist Assembly Party, 1935; General Secy., Anti-Communal Award Conference Working Cttee., 1935; member, Viceroy's Executive Council (Indians Overseas), 1941-43; Representative of the Govt. of India in Ceylon, Aug. 1943—July 1947; Pres., Vaidik Sanshodhan Mandal, Poona, 1944; Member, Constituent Assembly of India, July 1947—Jan. 1948; Governor of Bihar, 1948—June 1952. *Publications:* Collection of writings and speeches in Marathi and English. *Address:* 39/1, Civil Lines, Nagpur 1.

ANJARIA, Jashwantrai Jayantilal, M.A. (Bombay), M.Sc. (Econ.) (Lond.), Chief Economic Adviser, Government of India Ministry of Finance and Chief, Economic Division, Planning Commission. *b.* July 15, 1908; *Educ.:* Bombay and London. Prof. of Economics, Wilson Coll., 1938-39; Reader in Economics, School of Economics and Sociology, Bombay, 1939-46; Asstt. Chief, International Monetary Fund, 1946-48; Director of Monetary Research, Reserve Bank of India, Bombay, 1948-50; Pres., annual conference of the Indian Society of Agricultural Economics, 1955. *Publications: Grounds of Political Obligation in the Hindu State; Indian Rural Problem; Price Control and Food Supply in India; Essay on Gandhian Economics; War and the Middle Class in India.* *Address:* C/o Ministry of Finance, Govt. of India, New Delhi.

ANSARI, Abdul Qaiyum, Ex-Minister for Public Works, Public Health Engineering and Housing, Govt. of Bihar; Leader of the Momins and backward Muslims. *b.* July 1, 1905, at Dehri-on-Sone, Bihar; *Educ.:* Sasaram and Dehri High Schools and the Aligarh Muslim, Calcutta and Allahabad Universities. Joined the N. C. Movement, 1920; has been a staunch Congressman since then; courted jail several times in the freedom struggle; started the Momin Movement, 1938; Pres.: Bihar Provincial Jamiat-ul-Momineen, 1938-47; All-India Momin Conference, since 1947; Bihar State Backward Muslims Federation, since 1952; All-India Postal and R.M.S. Union (Bihar Pradesh Branch), 1953-56; elected M.L.A., Bihar, 1946 and 1952; Chairman: Zoological Society of Bihar; Bihar State Handloom Weavers' Co-operative Union; Member: Advisory Cttee. on Fundamental Rights, Minorities and Excluded and Tribal Areas of the Constituent Assembly of India, 1947-50; All-India Handloom Board formed by the Govt. of India and its Standing Cttee., since 1952; Pres., Indian Muslim Youth Kashmir Front; Editor, *Tahseeb,* an Urdu monthly; Fellow, Patna Univ., 1940-51; first Momin to be a Fellow of a Univ. and a Minister in India; Minister for Public Works, Cottage Industries, Relief and Rehabilitation and Backward Muslim Communities Welfare, Bihar, 1946-52. *Address:* Dehri-on-Sone and Patna.

ANSARI, Fazil, Barrister-at-Law, Politician; Ex-Secretary, Praja-Socialist Party. *b.* 1895; *Educ.:* St. Catherine Coll., Oxford; Middle Temple, London; called to the Bar, 1923. Started practice in Delhi, 1925; was one of the defence lawyers in the Meerut Conspiracy Case, 1929, and Delhi Conspiracy Case, 1931; joined politics during Simon Commission boycott 1927; joined the Indian National Congress, 1927; elected member, A.I.C.C.; left Congress in 1948, when the All-India Socialist Party went out of the organisation; participated in the national struggles for Independence courted jail, 1942-45; one of the founder of the Congress Socialist Party, 1934; member of the National Executive of C.S.P.; a member National Executive of the Praja-Socialist Party. *Recreations:* Gardening, Photography. *Address:* C/o 18, Windsor Place, New Delhi.

ANTHONY, Frank Reginald, B.A. (Nagpur Univ.), M.P. and Pres., Anglo-Indian Asso Viceroy's Gold Medallist in English, Un Prizeman and Scholar, Bar-at-Law of th Inner Temple, London. *b.* Sept. 25, 190 *Educ.:* Nagpur Univ. and at the Inner Temp London. Leading criminal lawyer in Madhy Pradesh; elected President-in-Chief of th Anglo-Indian and Domiciled European As ciation, All-India & Burma, in 1942 in su cession to the late Col. Sir Henry Gidne nominated to the Central Legislature in 194 renominated in 1946; member of the Vice roy's National Defence Council; membe Sapru Conciliation Cttee., etc., membe Central Pay Commission; one of India Delegates to the General Assembly of th United Nations in 1946; one of India's re presentatives to the Commonwealth Parl mentary Conference held in 1948; member o the Constituent Assembly of India; nominated to the Lok Sabha under special provision in the Constitution for the Anglo-Indian Community, March 1952, again April 1957. *Address:* New Delhi and Jabalpur.

ANTIA, Khursed Framroze, B.Sc. (Hons. (Lond.), M.Sc. (Eng.) (Lond.), F.N.I., M Inst. E. (Ind.), M.I. Struct. E. (Lond.), F.P.W Inst., Diploma of King's College (Londo Executive Head, The Associated Cement C Ltd. *b.* Dec. 7, 1904; *Educ.:* St. Xavier's Co Calcutta and King's Coll., London. On Londo and North Eastern Railway, 1929-27; Struc tural and Railway Engineer, B. N. Rly., 1927 40; Executive Engineer, Bridge Enginee Deputy Chief Engineer, Western Railway 1940-47; Dy. Chief Controller, Ministry of Rail ways, Central Standards Office, 1947-50. Life Permanent Way Institution Journal Bom bay and Western India Centre, 1944-46 member of several Technical Cttees of the Indian Standards Institution, Indian Road Congress, Scientific and Industrial Research Institution of Engineers (India), etc. *Publications: Fundamentals of Reinforced Concrete; Railway Track; Railway Engineering Accounts;* Numerous Technical Articles. *Recreations:* Hockey, Tennis, Soccer, Cricket. *Clubs:* Willingdon; Cricket Club of India (Bombay); National Sports Club of India. *Address:* 'Rockside', Walkeshwar Road, Malabar Hill, Bombay 6.

APTE, Narhar Gangadhar, B.Ag., Jala-Shastra Parangata (M.Sc.), Maharashtra Vidyapitha, Fruit Preservation and Location of Underground Water Currents. *b.* Sept. 25, 1900; *Educ.:* Dravid High School, Wai; Nutan Marathi Vidyalaya, Poona; New Poona Coll., Poona; College of Agriculture, Poona. Entered Govt. service as a temporary Asstt.; worked with Mr. G. K. Devadhar in the Rural Uplift Movement; started the Business of Water-Finding independently; was a Representative of the Indian National Defence League; started the Rural Products Company; was Secretary, Democratic Swarajya Party; initiated the Lokamanya Swadeshi Samiti; held an exhibition of Maharashtrian goods and subsequently started a permanent exhibition in Poona; elected Representative, Federation of Indian Chambers of Commerce and Industry; on the Governing Body of the Imperial (now Indian) Council of Agriculture 1942 and subsequently on two more occasions 1948 and subsequently on two more occasions 1952; reorganised the Maharashtra Manufacturers' Assoc.; was its Secy. and Later



Pres.; organised the Maharashtra Food Production Conference and helped in organising the Samyukta Maharashtra Vyapari and Karkhandar Parishad; worked in organising the first three Rural Uplift Conferences under the guidance of Mr. G. K. Devadhar; was Hon. Underground Water-supply Consultant to the Govt. of Bombay for a year and trained 100 assistants in the technique of water-finding; has made a study of the tendency of boys of 13/14 age group. *Publications: Maharastratil Pani Parasastha, Rural Reconstruction; Thoughts & Work about Villages; Food Problem of Maharashtra; Food Position of the Contiguous Marathi Speaking Area of India; Mumbai Pant Sarvasadharan Mahati; Bhima Valley:* about thirty pamphlets on economic and rural problems as well as water-finding; has almost completed *Maharashtra Grama Kosh. Address:* 754, Shukrawar, Poona, P. B. No. 533; 8215, Sadashiv, Poona 2 (*Office*).

ARMSTRONG, James Ridley, A.M.I. Mech. E., General Manager, Richardson & Cruddas Ltd., Engineers, Bombay and Madras, since 1950. *b.* June 18, 1902, at Bosworth, Leicestershire; *Educ.:* Latymer Upper School, London; Kilmarnock Technical Coll., Ayrshire; Heriot Watt Coll., Edinburgh; Pupil with The Kilmarnock Engineering Co. Ltd., Kilmarnock, Scotland. Joined Richardson & Cruddas and came to India, 1925; became Partner, 1946; Officer in Royal Artillery A.F. (I), 1926-30; Officer Commanding, Royal Engineers A.F. (I), Bombay, 1939-40. *Clubs:* Royal Bombay Yacht Club; Bombay Gymkhana Ltd. *Address:—Residence:* B-3, Mafatlal Park, Warden Road, Bombay 26; *Office:* Byculla Ironworks, Bombay 8.



ARORA, Bhishma, B.Sc (Allahabad), General Manager, Central Railway, since June 16, 1958. *b* June 16, 1904, *Educ.* Kanpur and Allahabad. Joined former Eastern Bengal Rly. as Probationary Asstt. Dist Traffic Supdt., May 1927; officiated as Dist. Traffic Supdt from April 1933; Dy. Director, Statistics, Rly. Board, from Feb. 1942; Officer on Special Duty (Reconstruction), Rly Board from June 1944; Joint Director, Projects, Rly Board, from March 1946; Dy. Chief Commercial Manager and later Dy. General Manager (Personnel) of former Bengal Assam Rly. upto 1947; Transfer Officer (India), Calcutta, attached to the Rly. Board, July 1947; was responsible as Transfer Officer for arranging suitable postings on Indian Railways for more than 20,000 railwaymen who opted for India from Eastern Pakistan; Director (Traffic), Rly. Board, April 1948; Chief Administrative Officer, Ex-Assam Rly. June 1948; Senior Deputy General Manager, North Eastern Rly., 1952-53; General Manager, North Eastern Rly., Aug. 1953-June 1958 *Address:* Central Railway, Victoria Terminus, Bombay.

ASERAPPA, Major-General Richard Edwin, M.A. (Cantab.), M.I.E., Engineer-in-Chief, Indian Army, since Oct. 1955. *b.* Dec. 27, 1910; *Educ.:* St. Paul's School, London; Royal Military Academy, Woolwich; School of Military Engineering, Chatham; Cambridge Univ. 15 Fd. Coy., N.W.F.P., April 1935-July 1938; A.G.E., Razmak, Aug. 1938-July 1940; 103 C.R.E. Works, Adj., July 1940-Feb. 1942; HQ. BT. Iraq, SORE II (G), Feb.-Aug. 1942; HQ. Tenth Army, G.S.O. II, Aug. 1942-Aug. 1943; G.H.Q. Paiforce, G.S.O. II, Aug. 1943-May 1944; 3 & 6 Engr. Depots, Lahore, May 1944-Sept. 1945; 7 Engr. Bn. Italy, CO, Nov. 1945-Feb. 1946; 2 Engr. Bn. Burma, CO, Feb.-Oct. 1946; 14 Engr. Bn. Malaya, CO, Oct.-Nov. 1946; D.C.E., Peshawar, SORE I Works, Nov. 1946-Aug. 1947; E-in-C's Br., SORE I, G.H.Q. (I), Aug. 1947; E-in-C's Br., Army HQ., RES, Aug. 1947-Sept. 1949; Chief Engr., Eastern Comd., Ranchi, Sept. 1949-Sept. 1952; Chief Engr., W.C., Simla, Sept. 1952-Oct. 1955. *Clubs:* Delhi Gymkhana Club, New Delhi. *Address:* 8, Akbar Road, New Delhi.

AYYANGAR, M. Ananthasayanam, B.A., B.L. (Madras), Speaker, Lok Sabha, since March 8, 1956; Advocate. *b.* Feb. 4, 1891 at Thiruchanoor, Chittoor Dist.; *Educ.:* Devasthanam High School, Tirupati; Pachaiyappa's Coll. and Law Coll., Madras. Mathematics Teacher, 1912-13; is interested in Harijan uplift and spread of Hindu culture; member: Municipal Council, Chittoor; Fiscal Commission; Constituent Assembly of India; Steering Cttee. of Indian Constituent Assembly; Andhra P.C.C.; A.I.C.C.; Central Advisory Board of Education; Director, Co-operative Dist. Bank, Chittoor; Dy. Speaker, Lok Sabha; Chairman: Criminal Tribes Enquiry Cttee.; Estimates Cttee., 1950-54. Railway Convention Cttee., 1954; Pres.: Harijan Sevak Sangh; D.C.C., Chittoor; Renaissance Society of India; Bar Assoc., Chittoor; Indian Assoc. for a World Federal Govt.; Vice-Pres., Ram Vilas Sabha and Dramatic Assoc.; Secy., Constitution Club; non-co-operated, 1921; suspended practice for a year; offered individual satyagraha and was jailed for 8 months, 1940; detained at Vellore and Amraoti Jails in Quit India Movement, Aug. 1942-Dec. 1944; Delegate, Commonwealth Parliamentary Conference, Ottawa, 1952; conferred "Doctorate of Literature" by Shri Vaishnava Theological Univ., Brindavan, 1954; Leader, Parliamentary Delegation to China, 1956; re-elected Speaker, May 1957. *Publications: Our Parliament:* Edited a Telugu Weekly *Shri Venkatesa Patrika, Special interests.* Study and propagation of Sanskrit and Indian Culture; social welfare work, music. *Address:* Tirupati, Chittoor District (Andhra Pradesh).

AYYAR, Mr. Justice A. S. P., M.A. (Oxon.), I.C.S., F.R.S.L., Bar-at-Law (Inner Temple), Certificate of Honour & Langdon Medal (1936), Fellow of the Royal Society of Literature of the United Kingdom, London (1933), High Court Judge, Madras, since Sept 1948. *b.* January 26, 1899; *Educ.:* Madras, Oxford, London. Entered the I.C.S., 1921, by open competition examination at London; came to India, 1922; was Collector and District Magistrate, Cuddapah and South Kanara; entered the Judiciary, 1930; was District and Sessions Judge in several districts. *Publications: Indian After-Dinner Stories,* Vols. I to III; *Baladitya, Three Men of Destiny; Panchatantra and Hitopadesa Stories; Bhasa; Two Plays of Bhasa; An Indian in Western Europe; Gripping Tales of Ind; Trial of Science for the Murder of Humanity; Sense in Sex and other Stories; Finger of Destiny and other Stories; Hindu Law's Contribution to World Jurisprudence; Sri Krishna, the Darling of Humanity; A Layman's Bhagavad Gita; Kovalan and Kannaki; Manimekalai, Famous Tales of Ind,* etc. *Address:* 18, College Road, Nungumbakam, Madras 31.

AYYAR, G. Venkateswara, B.A. (Hons.), I.C.S., Chairman, Madras Port Trust, since Sept. 1, 1951. *b.* Feb 19, 1905; *Educ.:* C.M.S. Coll., Kottayam; Maharajah's Coll., Trivandrum; London Univ. Joined I.C.S., 1930; Chief Presidency Magistrate, Madras, 1941-44; Secy., Board of Revenue, Madras, 1944-46; Joint Secy., Revenue Deptt., Madras, 1946-47; Secy., 1947-48; Special Officer, June to July 1948; Secy., 1948-49; Administrative Officer, Cochin Port, 1949-51. *Clubs:* Cosmopolitan Club, Madras, Madras Cricket Club, Madras. *Address:* Harbour House, Madras 1.

AYYAR, Swaminatha Vaidyanatha, B.A. (Hons.) (Madras), M.A. (Madras), Dip. in Economics, Professor of Economics, The Indian Institute of Economics, Hyderabad. *b.* August 1895; *Educ.:* Tiruchirapalli; Madras Univ.; Dip. in Economics with distinction. Reader in Economics, Madras; Reader in Economics, Dacca Univ.; Head of the Deptt. of Economics, Dacca Univ.; served on a number of Univ. Cttees.; member, Univ. Senate and Academic Council; Director of Economic Surveys in Dacca and at Annamalainagar; Vice-Pres., Pakistan Economic Assoc., 1948-54; member, Executive Cttee., All-India Commerce Assoc.; Prof. and Head of the Deptts. of Economics & Commerce and Hony. Librarian, Annamalai Univ., 1954-57; Reviewer of Books for the *Hindu,* Madras. *Publications:* Contributed to: *Some South Indian Villages* (Madras); *Indian Journal of Economics; The Enterprise,* Pakistan; *Asian Studies,* Bombay, Reviewer to the *Servant of India* for many years. *Address:* The Indian Institute of Economics, Hyderabad; "Dacca House", Madras 17.

BACHCHAN, Harbans Rai, M.A. (Alld.) Ph.D. (Cantab), Officer on Special Duty (Hindi), Ministry of External Affairs, New Delhi, since Dec 1955. *b.* Nov. 27, 1907. *Educ.:* Allahabad, Benares and Cambridge. Lecturer in English, Univ. of Allahabad, 1942-52. Research student at the Univ. of Cambridge (U.K.), 1952-54. Producer, All India Radio (Allahabad), 1955; is a popular Hindi poet; has been writing since 1929. *Publications:* Author of about 20 books some of which are *Madhushala* (1935) (which has been translated into English as *House of Wine* by Marjorie Boulton), *Mushani Mantran* (1939) (collection of songs); *Bengal Ka Kal* (1943) (which has been translated into Bengali by Bhupendra Nath Das), *Khadi Ke Phul* (1948) (Tributes to Mahatma Gandhi); *Milan Yamini* (1950); *Arti Aur Angare* (1950), (both collection of Lyrics), *MACBETH* (1957) (Hindi translation in blank verse). *Address:* 219 D 1, Diplomatic Enclave, New Delhi 3.

BADHWAR, Fateh Chand, M.A. (Cantab.), M.B.E. (1941), O.B.E. (1946), Padma Bhushan (1955), Managing Director, Bird & Co. (Private) Ltd., Calcutta, since Aug. 1955. *b.* Sept. 29, 1900; *Educ.:* Wood-stock College, Mussoorie, Sherwood College, Naini Tal; Christ College, Cambridge. After 2 years of varied experience on ships, docks, bridges, canals and railways in Europe and America, was posted to the E.I. Rly., 1925; commissioned into the Corps of Indian Engineers in Sept. 1941 and commanded No. 6 Tech. Training Group until Dec. 1943, appointed Secy., Railway Board, April 1944; General Manager, O.T. Rly., Jan. 1947; Chairman and Member, Engineering, Rly. Board and Ex-Officio Secy., Rly. Ministry, Govt. of India; granted Hon. rank of Lieut.-Col. in Territorial Army, Nov. 1952; Chairman, Customs Reorganisation Cttee., appointed in Feb. 1957. *Recreations:* Shooting, fishing, riding and racing; keen on trekking in the Himalayas and natural history in all its aspects. *Club:* Delhi Gymkhana. *Address:* C/o Bird & Co. (Private) Ltd., 74, Janpath, New Delhi.

BAGLA, Lala Rameshwar Prasad, Business man. *b.* May 18, 1904; *Educ.:* Privately under the training and guidance of his father. Took to business at a very early age and enlarged his father's business considerably; Director and Managing Agent, Maheshwari Devi Jute Mills Ltd.; Proprietor, Messrs. Gangadhar Baijnath, Kanpur; Chairman, Board of Directors: India United Mills Ltd., Bombay; Muir Mills Co., Ltd., Kanpur; Partner, Agarwal & Co., Managing Agents of the India United Mills Ltd.; has travelled widely in Europe; Hony. Secretary, U.P. Chamber of Commerce, 1931-40 and its President, 1940-45; Member, Executive Committee, Federation of Indian Chambers of Commerce and Upper India Chamber of Commerce for several years; Member, Central Assembly from constituency of Cities of U.P., 1930-34; Member: Employers' Delegation to the International Labour Conference at Geneva in 1931; Employers' Delegate to the Second Session of I.L.O. Textile Committee held in Geneva in 1948; tendered evidence before the Whitley Commission, Lothian Committee, and Joint

Parliamentary Committee; awarded the title of Rai Bahadur, 1934; has endowed in revered memory of his parents, the Dinanath Parbati Bagla Infectious Diseases Hospital. *Address:* Bagla Cottage, Shrimati Parbati Bagla Road, Kanpur.

BAHADUR, Raj, Minister for Shipping, Govt. of India, since April 1957. *b.* August 21, 1912; *Educ.:* Sadar High School, Bharatpur; Maharaja's Coll., Jaipur; Agra Coll. and St. John's Coll., Agra. Started practice at Bharatpur and then at Rajasthan High Court; later enrolled as Advocate, Supreme Court; took active part in the freedom movement both of the State and of the country; elected Municipal Commissioner, Bharatpur on Praja Parishad ticket, 1941; elected to State Representative Assembly, 1943; Secy., Assembly Praja Parishad Party, 1943-48; Vice-Pres., Bharatpur Dist. Congress Cttee.; Pres., Bharatpur Bar Assoc., 1948-51; elected to the Indian Constituent Assembly, 1948; has been an M.P. since then; Secy., Congress Party in Parliament, 1951-52; member: Rajasthan P.C.C.; A.I.C.C.; Executive of the Congress Party in Parliament; Dy. Minister for Communications, 1951-56; Minister in the Ministry of Communications, Feb. 14-Dec. 7, 1956; Minister for Communications, Dec. 7, 1956-April 16, 1957; re-elected M.P., 1957. *Address:* 9, Akbar Road, New Delhi.

BAIG, Mirza Rashid Ali, Chief of Protocol, Govt. of India, since 1955. *b.* March 25, 1905; *Educ.:* Clifton Coll., England; Royal Military Coll., Sandhurst. Commissioned, 1924 and posted to 16th Light Cavalry; resigned after six years' service to enter business; Pres., Indian Progressive Group, 1939; Sheriff of Bombay, 1942; Consul at Goa, 1946; Consul-General in French Establishments and Portuguese Possessions in India, stationed in Pondicherry, Sept. 1947-Dec. 1949; was First Secy., Indian Embassy in Indonesia for a brief period from Dec. 1949; was with the Central Govt. till April 1952; Indian Minister to the Philippines, 1952-55. *Address:* Ministry of External Affairs, New Delhi.

BAJAJ, Kamalnayan, Economics Tripos PT. I (Cambridge Univ.), Hindi Visharad, Prayag, M.P., business man and industrialist. *b.* Jan. 23, 1915; *Educ.:* Sabarmati Ashram, Gujarat Vidyapeeth, Ahmedabad, Satyagraha Ashram, Wardha, under Mahatma Gandhi and Acharya Vinoba Bhave; later at Colombo and Cambridge Univs. (England). Entered the family business concern of Bachhraj & Co. Private Ltd. and other allied concerns popularly known as the Bachhraj group of industries; Chairman, Mukand Iron & Steel Works Ltd.; Radio Lamp Works Ltd.; Managing Director, Bachhraj & Co., Private Ltd.; Director in several sugar, cement, banking and insurance companies, etc.; Trustee, Gandhi Smarak Nidhi, etc.; Mg. Cttee. Member, Federation of Indian Chambers of Commerce and Industry, New Delhi; Indian Merchants' Chamber, Bombay; Rajasthan Chamber of Commerce & Industry, Jaipur; several educational, social and cultural institutions and assocs.; elected member, Lok Sabha from Wardha on Congress ticket, 1957. *Recreations:* Travelling, Sports, Bridge, etc. *Clubs:* Willingdon Sports Club; C.C.I.; Chelmsford Club, Delhi; R. W. I. Turf Club, etc. *Address:* 51, Mahatma Gandhi Road, Bombay 1.

BAKHLE, Kamalakar Chintaman, B.Sc. (Hons.) (Eng.), London, Member of Institute of Transport, Member of Institution of Engineers (India), Fellow of the Permanent Way Institution; Director, Tata Industries Ltd. *b.* Nov. 17, 1898; *Educ.:* Dulwich College, University College, London. Joined G.I.P. Railway as Assistant Engineer, March 1, 1924; retired as Chief Commissioner of Railways, Govt. of India, June 30, 1961; Director, Tata Hydro-Electric Agencies Ltd. *Clubs:* Willingdon Sports and Cricket Club of India, Bombay; Delhi Gymkhana Club, New Delhi. *Address:* Bombay House, Bruce Street, Bombay 1.

BAKSHI, Ghulam Mohammed, Prime Minister, Jammu and Kashmir, since Aug. 9, 1953. *b.* July 1907. Began life as a school teacher; served with the Local Branch of the All India Spinners' Assoc.; courted imprisonment four times during the freedom movement in the State; jailed for 16 months, 1934; worked underground during the movement for Responsible Govt. in Kashmir, 1938; took a prominent part in mobilising Indian opinion from outside the State during the "Quit Kashmir" movement; organised the Peace Brigades and Border Scouts in Kashmir and Jammu during the tribal raids of 1947; Deputy Prime Minister in charge of Police, Militia, Transport, Supplies and P.W.D., Emporia in the Sheikh Abdulla Cabinet till Aug. 8, 1953; re-elected Leader, National Conference Parliamentary Party, July 1957 after the General Elections in the State. *Address:* Srinagar.



BALAMANI Amma, Shreemati N., Writer. *b.* July 19, 1909; *Educ.:* Privately. Only literary career. *Publications: Mother* and twelve other volumes of poems. *Recreation:* Reading. *Address:* "Sarvodaya", Punnayurkulam P.O., Kerala.

BAM, Arvind Shankar, B.Sc. (Bombay), B.Sc. (Hons.) (London), I.C.S., Iron and Steel Controller, Govt. of India, since April 1957. *b.* March 12, 1918. *Educ.:* B.A. from Fergusson Coll., Poona, 1939; B.Sc. (Hons.) from King's Coll., London, 1941. Entered Indian Civil Service, 1941; Asstt. Collector, Dharwar, 1942-March 1944; deputed to W. Bengal during famine; Special Officer, Civil Supplies, Darjeeling, 1944-45; Dist. Controller of Civil Supplies, Jalpaiguri, 1945-46; Asstt. Collector, Broach, July 1946-April 1947; Under Secy., Home Deptt., Govt. of Bombay, April-Aug. 1947; Deputy Secy., Aug. 1947-Aug. 1949; First Collector and District Magistrate, Kolhapur, Aug. 1949-Dec 1952; Dy. Secy., Govt. of India, Ministry of Rehabilitation, Calcutta, Dec 1952-March 1957. *Recreations:* Tennis, Golf, Bridge. *Clubs:* National Sports Club of India, Royal Calcutta Golf Club, etc *Address:* 33, Netaji Subhas Road, Calcutta 1.

BANERJI, S. K., I.C.S., Indian High Commissioner in Malay, since July 1958. *b.* Oct. 21, 1913; *Educ.:* Allahabad Univ. and New College, Oxford. Joined the Indian Civil Service, 1937 and served in Madhya Pradesh as Asstt. Commissioner; Deputy Commissioner (April 1942) at Khandwa, Balaghat, Nagpur and Akola and Secretary to Govt., 1946; selected for the Indian Foreign Service, 1947 and served in the Embassy of India, Teheran, as First Secy., and later as Charge d'Affaires; was Deputy Secy. to the Govt. of India in the Ministry of External Affairs, March 1949 to May 1951; Dy. High Commissioner for India in Pakistan, Lahore, May 1951-April 1954; Consul General in San Francisco, Aug. 1954-March 1956; Chairman, U.N. Visiting Mission to British and French Togolands (West Africa), 1955; Minister to Syria, June 1956-March 1957; Ambassador to Syria 1957-58; *Address:* C/o External Affairs Ministry, New Delhi.

BANGARUSWAMI, Ramaswami, B.A. (Madras), Freelance Journalist. *b.* Dec. 17, 1901; *Educ.:* Hindu Coll., Tirunelveli; St. Joseph's Coll., Tiruchirapalli; took degree in History and Economics, 1923; Law College, Madras. First Asstt., St. Ignatius Girls' High School, Palamcottah, 1926-27; Pleader, practising at Srivaikuntam till 1939; Asstt. Editor, *My Magazine of India*, 1942-43 and 1944-46; Asstt. Editor, *Free Press* (English Daily), 1946-48. *Publications: My Lord Kulasekara Khan* (1948). *Recreations:* Gardening. *Address:* Kotanallur P. O., (via) Melakallur R. S., Tirunelveli Dt., Madras.

BANSAL, Ghamandi Lal, M.A., LL.B., Secretary-General, Federation of Indian Chambers of Commerce and Industry, Director, Central Board of the State Bank of India. *b.* Dec. 3, 1914; *Educ.:* A. V. M. School, Ranikhet; Govt. Coll., Almora; Lucknow Univ. Represented International Chamber of Commerce at 5th Session of ECAFE; attended International Labour Conferences, Geneva, 1950 and 1951; visited U.S.A. as Leader Specialist on American Govt. invitation; elected member of Parliament on Congress ticket from Jhajjar-Bahadurgarh constituency, 1952-57; was member of Indian Delegation to GATT, 1953; attended 10th and 12th Session of ECAFE as Govt. of India's delegate; member, Indian Industrial Delegation to Europe and America, 1957. *Publications: India and Pakistan—An analysis of economic, mineral and agricultural resources. Recreations:* Painting; Gardening. *Address:* 1, National Sports Club of India *Office*, Ferozshah Road, New Delhi.

BANTHIA, Seth Champalal, Partner of Messrs. Hamirmull Champalal, 2, Rajaswadi Street, Calcutta. *b.* Dec. 15, 1902. Has considerable interest in the concerns of Kanoria Matchwel Electricals (India) Ltd., Delhi, the Rampuria Ice Factory Ltd., Bikaner, and Bikaner Gypsums Ltd.; Director in all the above concerns; has huge landed property at his native town of Bhinasar and in Bikaner; Ex-President, Municipal Board, Bhinasar; Ex-Honorary Magistrate, member of former Bikaner State Legislative Assembly; had received many high honours from the Government of His Highness the Maharaja of Bikaner like hereditary right to wear Gold Vessel, KAIFIYAT (CHHARI), Chapras and Long Service Medal; has been playing a prominent part in the social field; initiated a campaign in 1943 for the prevention of infanticide being made sadhus and received good response from all the leading political, social and religious leaders of India; was recently the recipient of a Gold Medal for meritorious service rendered to the Jain Samaj of Bikaner. Ex-President, All-India swatambar Sthanakvasi Jain Conference *Address:* Bhinasar (Bikaner).



BAPAT, Shriram Balkrishna, B.Sc. (Bom.), B.A. (Cantab.), Bar-at-Law, I.C.S., Joint Secretary, Ministry of Home Affairs and Director, Organization and Methods Div., Govt. of India. *b.* August 22, 1906; *Educ.:* Fergusson College, Poona; Royal Institute of Science, Bombay; Emmanuel College, Cambridge; School of Oriental Studies, Middle Temple, London. Held various posts in the Indian Civil Service under the Bengal Government and the Central Government. *Clubs:* Calcutta Club, Calcutta and Delhi Gymkhana Club, New Delhi. *Address:* C/o Ministry of Home Affairs, Government of India, New Delhi.

BARTOS, John Frank, Managing Director, Bata Shoe Co., Private Ltd., Calcutta, and Director in other Bata Companies in Far East. *b.* November 21, 1900 in Zlin, Czechoslovakia; British subject. *Educ.:* in Czechoslovakia and U.S.A. Started career in Bata organization in Zlin; came to India in 1933 and assumed charge of Bata organisation here; built up Batanagar, an industrial town 12 miles south of Calcutta, connected with various bodies and organisations; Past Pres., Rotary Club, Calcutta; Chairman, Institution of Leather



Industry (London), Indian Section; member, Calcutta Club, etc.; Vice-President, Bengal Olympic Association; member, Governing Body, Calcutta Blind School; Patron: Indian Schools Sports Assoc., Bengal; South Calcutta Bharat Scouts and Guides, etc. *Publications: Evolution of Indian Shoemaking*—an outline of the history of shoemaking in India. *Address:* 5, Mayfair, Calcutta 19.

BARUA, Dr. Birinchi Kumar, M.A., B.L., Ph.D.(Lond.), Writer in Assamese and English; Professor and Dean of the Faculty of Arts, Gauhati University. *b.* Nov. 20, 1910; *Educ.:* Calcutta, London, Oxford, Upsala (Sweden); member, Official Language Commn., Govt. of India, appointed in 1955. *Publications: Assamese Literature* (P.E.N. publication); *A Cultural History of Assam; Studies in Early Assamese Literature; Jibanar Batat* (a novel in Assamese); *Purani Katha Sahitya; Sahitya Aru Abhivyanjana; Aghoni Bar; Pat Parivartan; Ankiya-Nat* (edited); *Bandha Dharma Aru Sahitya; Early Geography of Assam; Mahamoha Kurya* (edited); *Asamiya Bhasha Aru Samskruti. Address:* Gauhati, Assam.

BARVE, Sadashiv Govind, B.A. (Bombay), B.A. (Cantab.), Economics Tripos, I.C.S., Secretary to the Government of Bombay, Public Works Deptt., since May 1957. *b* April 27, 1914; *Educ.:* Fergusson College, Poona; St. John's College, Cambridge. Joined I.C.S., 1936; appointed Under-Secretary, Home Department, 1939; Deputy Secy., Home Dept. and Deputy Secy., Food Dept., 1940-45; Collector of Dharwar, Ahmedabad and Poona Districts, 1945-48, Commissioner, Poona Corporation; Joint Secretary, Ministry of Finance, Govt. of India, 1952 to 1955; Secretary, Official Language Commission; Jt. Secy., Ministry of Finance, Govt. of India; Motor Transport Controller, Bombay. *Clubs:* Poona Club; Club of Maharashtra; Mahableshwar Club; Cricket Club of India; Imperial Gymkhana, Delhi. *Address:* Sachivalaya, Bombay.

BASHIR, Sheikh Mohammed, Managing Director, Jugglal Kamlapat Iron and Steel Co., Ltd.; Partner, Indian National Tannery and Proprietor, Auto Service Garage, Kanpur. *b.* September 1902; *Educ.:* B.Sc., Allahabad; B.Com. (Lond.), F.R.E.S., Bar-at-Law (Middle Temple). Ex-Member, Municipal Board and Ex-Member, Kanpur Development Board; Ex-Director, Reserve Bank of India (Northern Delhi area); Member, Iron and Steel Panels (both Major and Minor) of Govt. of India for Post-War Development; Founder member and Ex-President, Rotary Club of Kanpur and Merchants' Chamber of U.P.; was Honorary Magistrate; Captain, Indian Gymkhana Club in London, 1924 and 1925. *Recreations:* Shooting, Cricket and Tennis. *Address:* Bashir Lodge, Kanpur.



BASU, Anath Nath, B.A. (Cal.), M.A. (Lond.), M.Ed. (Winnetka, U.S.A.), Prof. of Education, Visva Bharati Univ., Santiniketan. *b.* Feb. 26, 1900 at Bhagalpur, Bihar; *Educ.:* Calcutta Univ.; London Day Training Coll. and King's Coll., London Univ.; Graduate, Teachers' Coll., Winnetka, U.S.A. Joined Non-Co-operation Movement and took up constructive work; later taught in the Visva Bharati, Santiniketan. Represented India at the 11th International Conference on Public Education in Geneva, 1947; was Group Chairman, UNESCO Seminar at Mysore, 1949; Group Leader, UNESCO Seminar on education for living in a world community held in Netherlands, July 1952. Member-Secretary, Govt. of India Secondary Education Commission, 1952-53; Member-Secretary, W. Bengal Secondary Education Enquiry Commission, 1954; Chairman, Andaman Education Enquiry Cttee., 1955; was Principal, Central Institute of Education, Delhi and Prof. of Education, Univ. of Delhi. *Publications: Education in Modern India, A Review; University Education in India, Past and Present; Primary Education in India; Indian Education in Parliamentary Papers; Mirabai, etc. Recreations:* Art; Literature; Handwork. *Address:* Vinaya Bhavan, Santiniketan (West Bengal).

BASU, Jyoti, B.A., Bar-at-Law, Communist leader, M.L.A. (West Bengal); Leader of the Opposition, West Bengal Leg. Assembly. *b.* July 8, 1914; *Educ.*, St. Xavier's Coll and Presidency Coll., Calcutta. Barrister, Calcutta High Court; member: Communist Party of India, since 1940; Central Cttee. of the C.P.I.; member and Secy., West Bengal Cttee., C.P.I.; detained without trial and imprisoned as undertrial on several occasions since 1948. *Address:* 55, Hindusthan Park, Ballygunge, Calcutta 29.

BASU, Saradindu, M.Sc., F.N.I., F.N.A.Sc., F.I.P.S., Director-General of Observatories, India Meteorological Deptt. *b.* Oct. 23, 1903; *Educ.:* Govt. High School, Basti, U.P. (1914-19); Govt. High School, Gorakhpur, U.P. (1919-20); Muir Central Coll., Allahabad, Univ., 1920-27. Joined Indian Meteorological Service, 1927; held various offices in the India Meteorological Deptt.; Indian Representative to the International Meteorological Conferences at Hongkong, 1937, at Paris, 1946 and 1951 and at Geneva, 1955; elected Vice-Pres., Climatological Commission of the World Meteorological Organisation (W.M.O.); is now India's member, Commissions for Synoptic Meteorology and for Aeronautical Meteorology of the W.M.O., Permanent Representative of India to the W.M.O., since 1954; Pres. of its Regional Assoc. II (Asia), is also member, Special Cttee. of the International Union of Geodesy and Geophysics for the International Geophysical Year, 1957-58; Chairman, Atmospheric Research Cttee. of the Council of Scientific & Industrial Research under Govt. of India and Standing Advisory Board for Astronomy of India; member, National Cttee of India for the International Geophysical Year, 1957-58. *Publications:* 10 Papers on meteorological and scientific subjects in various journals. *Recreations:* Gardening, Music, Literary pursuits. *Address:* Meteorological Office, Lodi Road, New Delhi 3.

BATRA, Ratan, Artist. *b.* Sept. 14, 1912 in Amritsar; *Educ.:* in Lahore and later in the Mayo School of Art; was one of the six art students to work on the frescoes (Moghul Style) in the domes above the main entrance of the south block of the Indian Secretariat, Delhi; recipient of a merit scholarship and John Lawrence scholarship for 3 years; won a prize of the Punjab Fine Art Society. Joined the "Times of India," Art Department, 1933; passed meritoriously the Advance Painting Examination of the Sir J. J. School of Art; worked on his own and established Studio Ratan Batra, 1936; later, founded Ranjit Sales and Publicity Ltd.; was associated with the Art & Industry Movement, 1945-48; Life member, Art Society of India, Bombay Art Society, All-India Arts and Crafts Society, New Delhi; member, All-India Board of Technical Studies in Applied Art, Ministry of Education, Govt. of India; Indian Society of Oriental Art, Calcutta; Promoter, Commercial Artists' Guild and Society of Advertising Practitioners. *Address:* Ilaco House, Sir Phirozshah Mehta Road, Fort, Bombay.

BAYLIS, Clifford Henry, B.A. (Oxon.), United Kingdom Trade Commissioner in charge at Bombay since March 24, 1955. *b.* March 20, 1915; *Educ.:* Alcester Grammar School; Keble Coll., Oxford: 1st Class Hons. in Modern History, 1937. Harrods Ltd., 1937-40; service in H.M. Forces (R.A.S.C.), 1940-46; Board of Trade, London (1947-55). *Clubs:* Willingdon Club; Royal Bombay Yacht Club; Oriental Club, London. *Address: Office:* Mercantile Bank Buildings, Mahatma Gandhi Road, Bombay 1; *Residence:* "Sorrento", Mount Pleasant Road, Bombay 6.

BAZAJ, Lala Gilleomal, Business man and public worker, Kanpur. *b.* Dec. 28, 1901; Director, Regd. Kanpur Kapra Cttee.; General Secretary, Shri Marwari Balika Vidyapith Inter College and Shri Marwari Aushdhalaya Society, Kanpur; Pres., Shri Agrawal Sabha, Kanpur; Vice-Pres., Marwari Intermediate College and Marwari Library; Treasurer: Kanpur Gaushala Society; Akhil Bhartiya Bal Vidyapith and Vaishya Sabha, Kanpur; member: All-India Marwari Federation and Indian Red Cross Society, Dist Branch, Kanpur; is connected with several other public institutions; Selling Agents: Swadeshi Cotton Mills Co. Ltd., Kanpur; Raymond Woollen Mills Co. Ltd., Bombay. *Address.* Gilleomal Jainarain, Generalganj, Kanpur.



BEDEKAR, Gopal Vaman, B.Sc. (Bombay), B.Sc (Eng.) (London), I.C.S., Divl. Commr., Aurangabad Div., Bombay. *b* Oct. 10, 1908; *Educ.:* Miraj High School; Fergusson College, Poona; London University. Joined I.C.S., Nov. 1933; Asstt. Collector, Nawabshah, Sukkur, Mirpurkhas (Sind), 1933-37; under financial training, Nov. 1935-Feb 1936; Manager, Encumbered Estates and Court of Wards, Sind, 1937-38; Collector, Sukkur, 1938; Registrar, Co-operative Societies, Sind, 1938-41; Collector, Kaira, 1941-43; Additional Director of Civil Supplies, Bombay, May-Nov. 1943; Collector, Thana & Bombay, 1943-46; Deputy Secretary, Govt. of India, Home Dept., 1946-49; Chief Commissioner, Ajmer-Merwara, 1947; Secy., Press Laws Enquiry Cttee., 1948; on Special Duty (Merger of Baroda State), March-April 1949; Secy., Home Dept., Revenue Dept., P.W.D., C.S.D., Education, 1949-58. *Address.* C/o Old Secretariat, Bombay.

BEDI, Rajinder Singh, Author, Producer (Films) and Screenplay-Wright. *b.* Sept 1, 1915, *Educ.*, D. A. V. Coll., Lahore. Clerk in Post Office, 1933-40; Playwright with A.I.R., Lahore; Programme Asstt. with A.I.R., Lahore, 1941-44; I/C, Far Eastern Broadcasts—N. India Languages in G.H.Q., G.S.I.Q., Delhi, 1945-46; Mg. Director, Sangam Publishers Ltd., Lahore, 1946-47; Station Director, Jammu & Kashmir Broadcasting Service, 1947-48; produced 'Garm Coat'; 'Lal Batti'; written 'Badi Behen', 'Aaram', 'Daag', 'Badnam', 'Bahu Beti', 'Mirza Ghalib', 'Barati', 'Milap', 'Dev Das', 'Basant Bahar', 'Madhu Mati', 'Musafir', 'Dhake Ki Mulmul', 'Garm Coat' and 10 others. *Publications: Dana-o-Dam; Grahan; Kokh-jali* (short stories); *Bejan Cheezen; Saat Khel* (Plays). *Address:* 18, Society Building, Opp. Don Bosco School Ground, Matunga, Bombay 19.

BELVALKAR, Shripad Krishna, M.A., Ph.D. (Harvard Univ.), I.E.S. (Retd.). Indologist. *b.* Dec. 12, 1880; *Educ.:* Rajaram Coll., Kolhapur and Deccan Coll., Poona and at Harvard. Joined Bombay Educ. Dept., 1907; Prof. of Sanskrit, Deccan Coll., 1914-34; 'Gujarat Coll., Ahmedabad, 1935; Univ. Prof. of Sanskrit, Banaras Hindu Univ., 1935-38; Basu Mallik Lecturer on Vedanta Philosophy (Calcutta Univ., 1925); one of the principal founders of the Bhandarkar Oriental Research Institute, Poona, and its Hon. Secy., 1915-18 and 1927-33; General Editor of the B.O.R. Institute's critical edition of the Mahabharata, since April 1943; Editor, *Bhishmaparvan* (pub. 1947), *Shantiparvan* (4 vols., 1949-56) and the concluding four Parvans (1957-58); President, All-India Oriental Conference, Twelfth (1943, Banaras) Session; Hon. Fellow of the Royal Asiatic Society, London and of the Asiatic Society of Bombay. *Publications: Systems of Sanskrit Grammar;* Edition and translation of Bhavabhuti's *Later History of Rama* in the Harvard

Or. Series; English translation of Kavyadarsa; critical editions with notes and translation of the Bhagvadgita, and Brahmasutrabhashya; and (in collaboration with Prof. Ranade) *History of Indian Philosophy*, Vols. 2 and 7; besides, over 250 papers on various aspects of Indology published in Oriental Journals of India and outside. *Address:* "Bilvakunja," Poona No. 4.

BENDRE, Narayan Shridhar, B.A. (Agra Univ.), G.D. Art (Bombay), Painter; Professor and Head of the Dept. of Painting, Faculty of Fine Arts, Maharaja Sayajirao Univ. of Baroda, since 1950. *b.* Aug. 21, 1910; *Educ.:* Holkar Coll., Indore; formal training at School of Art, Indore, under the guidance of Sri D. D. Deolalikar; training in Graphic Arts at Art Students' League, New York, U.S.A. and in Ceramic art at Y.W.C.A., New York, 1947. Artist-cum-Journalist at Visitors' Bureau, Kashmir, 1936-39; Free lance artist at Bombay, 1939-50; has travelled abroad visiting U.K., Middle European countries, and U.S.A., 1947-48; member, First Govt. of India's Cultural Delegation to China, 1952; member, General Council and Executive Board, Lalit Kala Akademi; Pres., Art Society of India, Bombay, 1957; has won numerous prizes at major Art Centres in India; paintings collected at various museums in this country and some private collections abroad; held one man shows at Bombay, 1943 and 1950. *Address:* Baroda University, Baroda.

BENJAMIN, Dr. Perakath Verghese, M.B., B.S. (Madras), T.D.D. (Wales), Kaiser-I-Hind Gold Medal (1945), 'Padma Shri' (26th Jan. 1955), Technical Adviser to the Tuberculosis Association of India, since 1942; Tuberculosis Adviser to the Govt. of India, since 1948. *b.* Jan. 21, 1896; *Educ.:* High School, Travancore; Coll., Madras Univ.; Medical Coll., Madras for M.B., B.S.; Univ. of Wales for T.D.D. Medical Officer, Union Mission T.B. Sanatorium, Arogyavaram, Chittoor Dist., 1922-39; Medical Supdt., 1939-48; Medical Commissioner and then Technical Adviser to the Tuberculosis Assoc. of India, advising the Govt. of India on all important matters connected with tuberculosis, since 1941; conducted a survey of all important civil sanatoria in India at the request of the Govt. of India for the sake of providing accommodation for tuberculous patients in the Indian Army; submitted a Memorandum on Tuberculosis to the Bhore Cttee. and various other schemes; first recipient of Philip Gold Medal from the Duchess of Kent, at the Commonwealth Health and Tuberculosis Conference, June 1955; Pres.: XIVth International Congress on Tuberculosis held in India in Jan. 1957; International Union Against Tuberculosis, Paris; member, B.C.G. Sub-Cttee., I.U.A.T.; Councillor Member, I.U.A.T.; member, Trudeau Society; Editor, *The Indian Journal of Tuberculosis*. *Publications:* Over 100 papers on surveys, researches and general aspects of tuberculosis, pamphlets, etc. *Recreation:* Light reading. *Address: Office:* 23, Red Cross Road, New Delhi 2; *Residence:* 15, Lodi Estate, New Delhi.

BHABHA, C. H., M.A., B.Com., J.P., Vice-Chairman, Central Bank of India Ltd., and Oriental Assurance Co. Ltd., etc. Ex-Chairman, Eastern Shipping Corporation. *b.* July 22, 1910; *Educ.:* St. Xavier's College and Sydenham College of Commerce, Bombay; Fellow of St. Xavier's College (1932-34); Fellow and Lecturer in Banking Law and Practice, Sydenham College of Commerce, Bombay (1932-33). Justice of Peace and Presidency Magistrate (Hony.); Commerce Member, Interim Government of India, September 1946; Member, Works, Mines & Power, Government of India, November 1946; Commerce Minister, Govt. of India, 15th August 1947; resigned, April 1948; Leader of the Indian Delegation to World Trade Conference, Havana, November 1947; Vice-Chairman, Rural Banking Enquiry Cttee.; elected Vice-President, International World Trade Conference, Havana, November 1947. *Publications:* Contributions to Journals and Newspapers on Banking and Commercial topics. *Hobbies:* Riding, Swimming, Photography. *Address:* Construction House, Ballard Estate, Bombay 1.



BHABHA, Dr. Homi Jehangir, B.A. (Cantab.), 1930, Ph.D. (Cantab.), 1934, D.Sc. Honoris Causa (Patna), 1944 (Lucknow), 1949 (Banaras), 1950 (Agra), 1952 (Perth), 1954, F.R.S., 1941, Padma Vibhushan, 1954, Director and Professor of Theoretical Physics, Tata Institute of Fundamental Research, Bombay and Secretary to the Govt. of India, Department of Atomic Energy; Chairman, Atomic Energy Commission, India; Director, Atomic Energy Establishment, Trombay. *b.* Oct. 30, 1909; *Educ.:* Cathedral and John Connon High School, Elphinstone Coll., and Royal Institute of Science, Bombay; Gonville and Caius College, Cambridge; in Cambridge he held Rouse Ball Travelling Studentship in Mathematics in 1932, and Isaac Newton Studentship from 1934; held the Senior Studentship of the Exhibition of 1851 from 1936. Became special Reader in Theoretical Physics in 1940 at the Indian Institute of Science, Bangalore; Adams Prize, 1942, Professor, Cosmic Ray Research Unit, Indian Institute of Science, 1942-45; Hopkins Prize, 1948; Pres, Indian Science Congress, 1951; Pres., International Conference on the Peaceful Uses of Atomic Energy, Geneva, Aug. 1955; Hon. Fellow, Gonville & Caius Colleges, Cambridge, 1957; Hon. Fellow, Royal Society of Edinborough, 1957. *Publications.* On quantum theory, elementary physical particles, cosmic radiation. *Address:* 12, Little Gibbs Road, Bombay 6.

BHAGAT, Dhanraj, Incharge, Sculpture Section, Delhi Polytechnic, Delhi. *b.* Dec. 20, 1917; *Educ.:* Lahore (West Pakistan). Apart from many Silver Medals and Cash prizes, won Governor's Gold Medal at Akadami of Fine Art, Calcutta; Secretary, Delhi Silpi Chakra, exhibited all over India and abroad; visited U.S.A. on Rockefeller fellowship and toured throughout the continent and England; executed several works for Govt. and semi-Govt. buildings; held many group shows and four one man shows of sculpture; works and review published in most of the important Art Journals in India and abroad; competed in an international competition for unknown political prisoners; his works are in the Modern Gallery of Indian Art, Baroda Museum and other private collections in India and abroad; some important works have been acquired by the Prime Minister of India. *Address:* Art Deptt., Delhi Polytechnic, Kashmiri Gate, Delhi.

BHAGAT, Phoreomal Chanchamdas, B.Sc., (Glasgow), A.M.I.C.E., M.I.E. (India), Director, Hindustan Steel (Private) Ltd. and General Manager, Rourkela Steel Project, Rourkela. *b.* Sept. 19, 1900; *Educ.:* Karachi and Glasgow. Served for 24 years with the Govt. of India in the India Store Dept. and retired as Director General, India Store Dept., London; General Manager, Turner Hoare & Co. Ltd., Bombay for five and a half years. *Club:* Delhi Gymkhana Club. *Address:* Hindustan Steel Private Ltd., Rourkela.

BHAGAVANTAM, Dr. S., M.Sc. (Madras) (Hon.), D.Sc. (Andhra), Director, Indian Institute of Science, Bangalore since Feb. 1957. *b.* Oct. 14, 1909; *Educ.:* Nizam Coll., Hyderabad; Indian Assoc. for the Cultivation of Science, Calcutta. Professor of Physics and Principal, Andhra Univ., Waltair, 1942-48; Indian Scientific Liaison Officer, D.C.S.O., London, 1948-49; Director, Physical Laboratories, Osmania Univ., Hyderabad, 1949; Pres., Physics Section, Indian Science Congress, 1948; Convener, General Education Team appointed by the Govt. of India to visit U.S.A. and U.K., 1956. Vice-Chancellor, Osmania University. *Publications:* Several scientific papers and two books, *viz., Scattering of Light and Raman Effect* and *Theory of Groups and Its Application to Physical Problems. Address* Indian Institute of Science, Bangalore.

BHAGAVADACHARYA, Panditaraj Swami, Sanskrit Poet and Philosopher; is the disciple of Swami Rama Manohara Prasada Acharya Ayodhya. *b.* 1880 at Sialkot; *Educ.:* Ayodhya, Kasi, Mithila. Is a Sanyasi of the Shri Ramanand Sampradaya; was initiated into the order by the great Acharya Swami Shri Rama Manohara Prasadji of the Shri Bindugadi of Ayodhya; was responsible for convincing the people and proving with the authority of scriptures during the Kumbha Mela in Ujjain in the Vikram year 1978 that Shri Ramanand Sampradaya was an independent Shri Sampradaya and not merely a sect of one of the pupils of the Ramanuja Sampradaya. *Publications:* about 100 in various languages and include authoritative writings on the Vedas, Upanishads, Vedants, etc and epics in Sanskrit language like *Bharatparyatam, Parijatapaharah, Parijata Saurabham* and *Ramanand Digvijayam, Sama Samskara Bhashyam* on Samaveda; *Vaidic Bhashyam* on *Brahmasootram* of Vyasa; *Bhagavad bhashya* of *Bhagavadgita. Recreations* Pursuit of knowledge and search for truth. *Address:* Rajnagar Society, Ellis Bridge Ahmedabad 7.

BHAGWATI, Mr. Justice Natwarlal Harilal, M.A., LL.B., Judge, Supreme Court of India, New Delhi, since Sept. 8, 1952. *b* August 7, 1894; *Educ.:* Baroda Coll., Elphinstone Coll and Govt. Law Coll., Bombay. Senior Parsee Fellow, Elphinstone Coll., Bombay. Advocate (O.S.), High Court, Bombay; sometime Professor, Government Law Coll., Bombay, sometime member of the Bar Council; Vice-Chancellor, Univ. of Bombay, 1949-51. Judge Bombay High Court, 1944-52. *Publications* Translation into Gujarati of V. L. Mehta's *Co-operative Movement*, for the Gujarat Vernacular Society. *Address:* Supreme Court New Delhi.

BHAKTAVATSALAM, M., Minister for Agriculture, Home, Courts and Prisons Prohibition, Govt. of Madras. *b* 1897 Gave up practice at the Bar, 1927; was connected with "India", a Tamil daily; Deputy Mayor, Madras Corporation, 1936; was member and Vice-President, Chingleput District Board for 6 years from 1932; Vice-President, Tamil Nad Congress Committee, 1935; acted as Secretary, Tamil Nad Congress Committee for a number of years; member, All-India Congress Committee; Parliamentary Secretary to the Minister for Local Administration in the first Congress Ministry, 1937; Public Works Minister, Madras, 1946-51; Convener, Bharat Sevak Samaj (Tamil Nad Branch); Minister for Agriculture and Community Projects, Madras, 1953-54. *Address:* "Mallika", Mylapore, Madras.

BHAN, Brish, B.A., LL.B., Ex-Chief Minister former PEPSU and Ex-Minister for Planning, Community and Capital Projects and Justice, Punjab. *b.* Sept. 1908; *Educ.* Munak (Distt. Sangrur); Hissar (Punjab) and Lahore (Punjab P). Practised law Sunam, Dist. Sangrur; distinguished himself as a leading advocate; was Secy. and Pres. Bar Assoc., Sunam, for about 10 years; was member, Executive and Financial Secy. All India States Peoples Conference Session, Ludhiana, under the Chairmanship of Pt. Nehru, 1939; courted jail several times for active participation in various national movements; organised "Quit India" movement in the Punjab and Punjab States, 1942-43; organised agitation against Hidayat of 1938 for Faridkot Satyagraha, 1946; gave up practice at the bar, 1946; Pres.; Regional Council, Punjab Rayasti Praja Mandal, 1944-47 and PEPSU Congress Cttee., 1948-51; Deputy

Chief Minister, PEPSU, 1951-52; elected M.L.A. (PEPSU) in the general elections, Jan. 1952; again elected M.L.A. in the PEPSU elections of 1954; Finance and Education Minister, 1954 and Chief Minister, Jan. 1955–Oct. 31, 1956, PEPSU. *Recreation:* Tennis. *Club:* Rajindra Gymkhana Club, Patiala. *Address:* C/o Secretariat, Punjab Govt., Chandigarh.

BHAN, Pandit Durga Prasad, Oriental Astrologer and Director, Bhrigu Institute of Scientific Astrological Research. *b.* Aug. 13, 1910, of an ancient family of Jagirdars, Gwalior; *Educ.:* Victoria Coll., Gwalior, 1927-30. Has been doing research work on scientific lines in Astrology, Numerology, Mole Science, Physiognomy and Palmistry; is a pioneer in the field of astrology; many of his predictions of national importance have come true; work commended by leading men in India and abroad; as Director, Bhrigu Institute of Scientific Astrological Research, is actively engaged in raising the science of astrology to higher standards of perfection. *Publications: Can heavenly stars influence your Destiny? Is Astrology a perfect Science?; How to predict about a man, a nation and the world as a whole?; What are the Inner Secrets of the Nine Planets of the Astral World? Recreations:* Reading books on other worlds written in Sanskrit by the Great Rishis of ancient India. *Address:* A-131, Vinaynagar, New Delhi 3.



BHANDARI, Chief Justice Amar Nath, B.A. (Hons.), Bar-at-Law, Chief Justice, High Court, Punjab (India), since 1952. *b* November 21, 1899; *Educ.:* Punjab and Oxford Universities. Entered Indian Civil Service, Oct. 1924; Dy. Commissioner, Gujrat, Sialkot & Karnal (1929-32); Sessions Judge, Montgomery and Delhi (1933-39); Dy. Secy. and Secy. to Govt., Punjab Legislative Dept. (1939-44); Judge, High Court, Lahore, 1944-47 and East Punjab High Court, 1947-52; Fellow and Syndic of the Punjab Univ.; Dean, Faculty of Law. *Recreations:* Gardening and Travelling. *Clubs:* Simla Amateur Dramatic Club; Annandale Gymkhana Club (President); Delhi Gymkhana Club; Gulmarg Club. *Address:* Punjab High Court, Chandigarh.

BHANDARI, S. N., Jain Ratna, Industrialist and Banker of Indore. *b.* 1904. Chairman, Board of Directors: Nandlal Bhandari Mills Ltd.; The Central India Insurance Co., Ltd.; Nandlal Bhandari & Sons (Private) Ltd.; Member: Aid-to-Industries Board and Cotton Cttee. of the State; Roberts Nursing Home Managing Cttes.; Working Cttee., Madhya Pradesh Millowners' Assoc., Indore and Indore Labour Housing Cttee.; Local Advisory Cttee. of the Regional Centre at Indore of the Ahmedabad Textile Industry's Research Assoc. and Indian Merchants' Chamber, Bombay; Dir., Madhya Pradesh Financial Corporation and Bank of Indore Ltd.; Patron, Rifle Club, Daly Coll., Indore; Vice-Pres., Madhya Bharat Chamber of Commerce, Indore; Ex-Chairman, Working Cttee., All-India Industrial-cum-Agricultural Exhibition, held at Indore in 1951; recipient of high honours of Gold Anklet from Udaipur Durbar; has liberally donated for social, educational, medical and religious advancement; runs a Boarding House at Rampura and the Nandlal Bhandari High School at Indore, imparting vocational training; has provided ample amenities for mill workers; takes keen interest in economic and industrial development of the country; visited Japan, America and the Continent on an industrial tour and acquired deep knowledge of the textile industry there. *Address:* Nandanwan, 19, Tukoganj, Indore.



BHANJA DEO, Raja Shri Sailendra Narayan, Minister for Works Department, Orissa. *b.* Sept. 29, 1908; *Educ.:* Ravenshaw Collegiate School, Cuttack; Ravenshaw Coll., Cuttack; Patna Coll., Patna. Started public career, 1932; was elected Municipal Commissioner, Cuttack Municipality; elected member, Cuttack District Board as an independent candidate, 1934; was its Chairman till 1937; in 1932, 1935 & 1938 undertook extensive tours in England and the Continent; was elected to the State Assembly, 1945; was Leader of the Opposition; as an M.L.A., served on many Committees. *Address:* Kanika-Rajbati, Cuttack.

BHARADWAJA, Yajnavalkya, M.Sc. (Punjab), Ph.D. (London) in Botany, Retd. Prof. of Botany and Head of the Dept. of Botany, Banaras Hindu University, 1933–55 *b.* Aug. 13, 1895; *Educ.:* Govt. Coll., Univ. of the Punjab, Lahore; East London Coll. (now Queen Mary Coll.), London Univ. Worked under late Prof. F. E. Fritsch, F.R.S. and made investigations on the morphology and anatomy of the Algæ; Prof. of Botany, St. John's Coll., Agra, 1919-22; Asstt. Prof. of Botany, Banaras Hindu Univ., 1922-33; Principal, Jaswant Coll., Jodhpur, 1948-50; Dean, Faculty of Science, B. H. Univ. (1944-46 and 1952-54); has been actively engaged in research work on Algology, more especially on the Myxophyceæ and the Chlorophyceæ and the marine algæ; lately member, Univ. Grants Comm and Scientific Research Comm, U.P.; Fellow, Linnean Society of London and National Institute of Sciences of India; member Physiological Society of America, British Ecological Society; presided at the Botany Section, Indian Science Congress, Madras, 1940; Past Pres. and Secy. and Fellow, Indian Botanical Society. *Publications:* Numerous publications in notable journals, both Indian and foreign. *Recreations:* Photography, Music, Histrionics. *Address:* C/o Major K. Bharadwaja, 505, Command Workshops, E.M.E., Delhi Cantt 10.

BHARDWAJ, Manohar Lal, B.A. (Hons.) (Economics), Registrar of Newspapers for India, Govt. of India, Ministry of Information & Broadcasting, since July 1, 1956. *b.* July 23, 1913; *Educ.:* D. A. V. High School, Lahore, 1920-29; Forman Christian Coll., Lahore, 1929-34; Punjab Univ. Worked for seven years on the editorial staff of the "C. & M. Gazette", Lahore, and as Political Correspondent contributed a large number of signed articles; Information Officer, Press Information Bureau, Oct. 1941-June 1945; promoted Dy. Principal Information Officer, June 1945; immediately after partition acted as Public Relations Officer to the first Indian High Commissioner in Pakistan and later appointed Director, Information & Publicity, Ministry of Relief and Rehabilitation; Director, Indian Information Services, Ministry of External Affairs, 1948-49; Deputy Principal Information Officer, 1949-53; Armed Forces Information Officer, Ministry of Defence, Sept. 1953-March 1954; Principal Information Officer to the Govt. of India, March 1954-Oct. 1955; Officer on Special Duty, Ministry of Information and Broadcasting, Govt. of India, Oct. 1955-June 30, 1956. *Club:* Delhi Gymkhana Club, New Delhi. *Address:* Ministry of Information and Broadcasting, Govt. of India, New Delhi.

BHARGAVA, Dr. Gopi Chand, Minister for Planning and Community Projects, Punjab. *b.* March 1890 at Sirsa; *Educ.:* In his home town, Hissar and D. A. V. and Medical Colleges in Lahore. Practised as a doctor; entered the political arena under the leadership of the late Lala Lajpat Rai; was elected member, Municipal Cttee. and Pres., Lahore Congress Cttee.; chosen as member, old Punjab Legislative Council, 1927; resigned in 1929 as a protest against the repressive policy of the Govt.; was General Secy., Reception Cttee. of session of Congress at Lahore; gave up practice in 1935 to concentrate on politics; arrested during non-co-operation movement in 1921 and in 1923; detained twice during C. D. movement of 1940 and 1942; released in 1943; elected to the Punjab Legislative Assembly, 1937 and was elected as leader of the Opposition; is essentially a constructive worker; was returned to the Assembly, 1946; elected leader of the Congress Assembly Party in the East Punjab. Premier, East Punjab, August 15, 1947-June 1951. *Address:* Amrit Nivas, Nicholson Road, Ambala Cantt.

BHARGAVA, Kalka Prasad, M.A. (Allahabad), I.C.S., Chief Commissioner, Tripura, since Nov. 1956. *b.* July 15, 1908; *Educ.:* Agra Coll., Agra; Allahabad Univ.; Emmanuel Coll., Cambridge. Passed the I.C.S. Exam. in India, 1931; spent the probationary period at Cambridge; allotted to the U.P. Cadre of the Service; Food Commissioner, U.P., April 1951-Feb. 1953; Chief Secy., U.P., March 1953-Aug. 1954; Chief Commr., Bhopal, Dec. 1954-Oct. 1956. *Recreations:* Photography, Gardening. *Club:* Mohammad Bagh Club, Lucknow. *Address:* Chief Commissioner's House, Agartala, Tripura.

BHARGAVA, Manmohan Prasad, M.Sc., B.Com., Co-operation Adviser to the Govt. of India, Ministry of Food and Agriculture. *b.* Dec. 24, 1913; *Educ.:* Univ. of Minnesota, U.S.A.; S. D. Coll. and D. A. V. Coll., Kanpur. Inspector Co-operative Societies, Madhya Pradesh, 1936-48; Assistant Registrar, Co-operative Societies, M.P.; Asstt. Economic and Statistical Adviser, Ministry of Food and Agriculture, 1948-50; Asstt. Chief of the Food and Agriculture Division, Planning Commission, 1950-51; Chief, Food and Agriculture Division, Planning Commission, 1951-55. *Address:* C/o Ministry of Food and Agriculture, New Delhi.

BHASIN, Prem, M.A. (Political Science) (Lahore), Joint Secretary, Praja Socialist Party. *b.* Dec. 27, 1917, at Rawalpindi; *Educ.:* D.A.V. School and College, Rawalpindi; and M.A. from Dyal Singh Coll., Lahore, 1939. Vice-Pres., Lahore Students Union, 1936-37, joined the Congress Socialist Party, 1937; arrested in June 1941 and detained as Security Prisoner at Lahore Fort, Montgomery Central Jail and Special Jail, Gujrat; released Feb. 1946; Joint Secy., Punjab C.S.P., 1946-47; elected to the National Executive, Socialist Party of India, 1947; Joint Secy., Socialist Party of India, 1948-52; Joint Secy., Praja Socialist Party, October, 1952; Representative of the Socialist and subsequently the Praja Socialist Party on the Preparatory Cttee., Asian Socialist Conference, Rangoon (Burma), July 1952-Jan 1953; Secy., First Asian Socialist Conference, Rangoon, Jan. 1953; member, Fraternal Delegation of the Asian Socialist Conference to Stockholm Congress of the Socialist International, July 1953; toured Sweden, Norway, Denmark, United Kingdom, France, Switzerland, West Germany, Austria, Yugoslavia, Italy, Israel and Pakistan, July-Oct. 1953; Representative of the P.S.P. on the Asian Socialist Conference Bureau, 1956-57; arrested at New Delhi in May 1949 for defying Sec. 144 and sentenced to six months; arrested at Hissar (Punjab) in Jan. 1954, for leading Kisan satyagrahis and sentenced to six months. *Publications: Pakistan and its Implications*—1947, Lahore. *Address:* 18, Windsor Place, New Delhi.

BHAT, Atmaram Raoji, M.Com., M.L.C., Editor, "Sampada", Marathi Commercial monthly, Poona. *b.* 1905; *Educ.:* Sydenham Coll. of Commerce and Economics, Bombay. Joined the "Kesari-Mahratta" office, 1929; retired as its Business Manager, 1952; founded

the Mahratta Chamber of Commerce and Industries, Poona, 1934; its Honorary Secy. since then; Pres.: Indian Languages Newspapers' Assoc., since 1949; member: Bombay Leg. Council, since 1952; Press Commission, 1952-54; Textile Enquiry Cttee., 1952-54; Import Advisory Council, Govt. of India, since 1952; Bombay State Labour Laws Forms Consolidation Cttee., 1953-54; State Transport Authority, 1952-57; State Industries Advisory Council and the Communications Board, Bombay State, since 1950; Advisory Board of Small Industries Service Institute, Bombay, 1955-56; Bombay State Apprenticeship Cttee., since 1957; Chairman, Minimum Wages (Printing Industry) Cttee., Bombay State, 1955; Delegate to first World Congress of Press Assocs., Sau Paulo (Brazil), Nov. 1954; member: Wage Board of Working Journalists, 1956-57; Faculty of Moral, Material and Social Sciences and Employment Bureau, Univ. of Poona, since 1955. *Address:* 256, Sadashiv, Poona 2.

BHATNAGAR, Kalka Prasad, M.A., LL.B., Vice-Chancellor, Agra Univ., since Jan. 1, 1956. *b.* May 24, 1890; *Educ.:* Agra Coll., Agra, 1912-1914; M.A.O. College, Aligarh, 1914-1919; M.A. in 1918 and LL.B. in 1919. Professor of Economics and Warden of Hostel, D.A.V. Coll., Kanpur, July 1919 to June 1940; Principal, D.A.V. Coll., Kanpur, July 1940 to Dec. 1955. *Publications: A History of Economic Thought; Transport in Modern India; Rural Economy of India; Co-operation in India & Abroad;* In Hindi: *Principles of Economics; Indian Economics; Banking, Currency and Foreign Trade. Address:* Vice-Chancellor, Agra University, Agra.

BHATT, Gokulbhai Daulatram, Ex-M.P. and Ex-President, Rajputana Provincial Congress Cttee. *b.* 1899; *Educ.:* St. Xavier's College, Bombay. Left studies to join Non-Co-operation Movement, 1919; actively participated in the national activities of the Indian National Congress; Chairman, Reception Cttee., Jaipur Congress; Political Adviser and Chief Minister, Sirohi State, 1948-49; courted jail several times; occupied high positions in Congress; member, Working Cttee., Indian National Congress; A.I.C.C.; Trustee of several institutions in the Bombay Suburban District, Gujarat Vidyapith, Ahmedabad, Rajasthan, etc.; has been doing public work since 1917; is now actively engaged in Bhoodan work in Rajasthan. *Publications:* Edited several Gujarati books; translated *Ramen Gita* and other works into Gujarati verse. *Address:* Sirohi, Rajasthan; 21, Bajaj Road, Vile Parle, Bombay 24.

BHATT, Jyotindra Manibhai, Post-Diploma in Painting, President's Gold Plaque (1956), Painter. *b.* March 12, 1934; *Educ.:* Fine Arts Coll.; M.S. Univ. of Baroda, Baroda; Diploma in Painting, 1954 and Post-Diploma (Specialization), 1956; has been a painter; awarded President's Gold Plaque under the auspices of the Lalit Kala Akadami, 1956. *Address:* 507, Shishuvihar, Bhavnagar (Gohilwad Dist.).

BHATT, Ravishankar Santoshram, B.A. (Bombay), B.A. (Hons.) (Lond.), M.A. (Lond.), Member, Tariff Commission, Govt. of India, since May 1957. *b.* Dec. 13, 1909; *Educ.:* Samaldas Coll., Bhavnagar; Bombay School of Economics and Sociology; B.A. (Hons.), 1932 and M.A., 1936 from London School of Economics and Political Science, London. Secy., Industrial Investment Trust, 1936-40; Secy., Diwan's Office, Bhavanagar and subsequently Nayab Diwan (Finance and Railway), 1940-47; Finance Officer, Oriental Govt. Security Life Assurance Co., 1948-53; Managing Director, Bombay State Financial Corporation, Nov. 1953-May 1957. *Publications:* Literary essays and special studies on Economics and financial subjects in various journals. *Recreations:* Cricket; Tennis. *Clubs:* Rotary Club, Bombay; University of Bombay Club. *Address:* Queen's Road, Bombay 1.

BHATT, Dr. Suryakant Jethalal, M.B.B.S. (Bom.), J.P. and Hon. Presidency Magistrate, Medical Practitioner; Ex-Pres., Malad Dist. Municipality. *b.* Sept. 29, 1913; *Educ.:* Radhanpur High School; Baroda Coll. and Grant Medical Coll., Bombay; took M.B.B.S., 1938. Worked as House Surgeon, J. J. Hospital for 1½ years; started independent practice at Malad, 1940; was Medical Officer, Choksey Charitable Dispensary, Malad and Goregaon and Manori Local Board Dispensaries; Divisional Medical Officer, A.R.P., Malad Divn., during World War II; Life Member, St. John's Ambulance Assoc.; Secy., St. John's Ambulance Assoc., Malad Centre; member, Working Cttee., West Suburban Branch of Bombay Provincial Branch, All-India Medical Assoc.; elected the first Pres., Malad Dist. Municipality, 1951; Pres., Shree Baj Khedawal Samaj, Bombay; Chief Medical Officer, Bombay Talkies Ltd., Malad, 1944-53; Chairman, Advisory Board of the Fatimadevi English High School, Malad; Life Member, Malad Kandivlee Education Society, Malad; Hon. Treasurer, Bombay Baj Khedawal Educational Society, Bombay. *Address: Dispensary:* Krishna Bang, Station Road, Malad; *Residence:* Podar Estate, Block No. 21, Daftary Road, Malad.



BHATTACHARYA, Dr. Bhabani, B.A. (Hons.) (London), Ph.D. (London), Author and Journalist. *b.* Oct. 22, 1906; *Educ.:* Patna and London. Since leaving Univ., engaged in historical research, journalism and literary work; was Press Attache at the Embassy of India in Washington, 1949-50; Asstt. Editor, "The Illustrated Weekly of India," Bombay, 1950-52. *Publications: Some Memorable Yesterdays; Indian Cavalcade; The Golden Boat; So Many Hungers* (Translations in twelve European languages and in Chinese); *Music for Mohini; He Who Rides a Tiger; A Goddess Named Gold. Address.* "Godhuli", Bezon Bagh, Nagpur.

BHATTACHARYYA, Chapalakanta, M.A., B.L., M.P. (Lok Sabha), Editor, *The Ananda Bazar Patrika. b.* January 1901; *Educ.:* Orthodox Sanskrit Schools; the Calcutta Aryan Institution, now the Saradacharan Aryan Institution; Presidency Coll., Calcutta Univ. Advocate, Calcutta High Court; was Secy., Bengal Bankers' Federation and Editor of its Journal; edited an English weekly "The New Era"; editorial staff of "Forward" of late Deshbandhu C. R. Das; Congress worker since 1920; member, Provincial Cttee. and the All-India Congress Committee; joined the Unity Conference at Allahabad, 1932 on invitation of Pt. Madan Mohan Malaviya and also the Congress Nationalist Party founded by him; Secretary of the Party in Bengal; member, Indian Association; member, International Press Institute, Indian Cultural Academy, International Sanskrit Institute; Secy., Dept. of Journalism; member, Senate and Syndicate, Calcutta Univ.; Secy, Sanskrit Sahitya Parishad, Bengal Akhil Bharat Devabhasa Parishad. *Publications: Congress in Evolution; Radcliffe Award—a case for Revision* in English; and several works in Bengali. *Address:* 24A, Hemendra Sen Street, Calcutta 6.

BHATTACHARYYA, Panee Chandra, M.A., Chairman, Board of Directors, State Bank of India, since March 1, 1957. *b.* March 1, 1903; *Educ.:* Univ. of Calcutta and Dacca. Joined the Indian Audit and Accounts Service, 1928; was in the Railway Accounts Dept. upto 1939; served in the Ministry of Finance, Government of India, in different capacities, 1939-52; Financial Commissioner, Railways, 1952-56; Secretary, Ministry of Finance, Govt. of India, Nov. 1956-Feb. 1957. *Address:* State Bank of India, Bombay.

BHAVE, Acharya Vinoba, Social Worker. *b.* Sept. 11, 1895, in a Brahmin family, Gagoda village near Pen, Kolaba Dist., Maharashtra; *Educ.:* Primary education, Gagoda; Baroda Coll., Baroda. At the age of 10, took a vow of celibacy and dedicated his life to the service of the country; at the age of 19, gave up studies and left home; went to Varanasi to study Sanskrit; heard of Gandhiji's historic speech at Varanasi Univ. and contacted him. Joined the Sabarmati Ashram, 1916; took a prominent part in all the activities of the Ashram; was made the head of the Ashram at Wardha; started another hermitage at Paunar on the banks of the river Dham, six miles from Wardha; was named by Gandhiji as his first representative in the Individual C. D. movement, started against the Br. Govt.'s policy of involving India in the World War II, 1940; was Director, Maganwadi Ashram, Wardha for a long time; imprisoned in the Freedom movement; a staunch advocate of the right of the landless poor to own lands; originated the Bhoodan Yagna and the Sampattidan Movement; travelled over Telangana and successfully persuaded the landlords to donate land and made it over to the landless poor; went on a walking tour through many States to preach the cause of Bhoodan which has now reached the phase of Gramdan and Gram Rajya; has made a study of all religions; is a linguist, knows Marathi, Hindi, Gujrati, Urdu, Arabic, English, Bengali, Assamese, Oriya, Tamil, Telugu, Malayalam and Kannada; is an effective speaker. *Publications:* several Marathi and Hindi Books of a scholarly nature, *Gita*, Marathi translation of Bhagavat Gita. *Address:* Sarva Seva Khadigram P.O., Monghyr Dt., Bihar.

BHAVNAGAR: Commodore His Highness Maharaja Raol Shri Sir Krishnakumarsinhji Bhavsinhji, K.C.S.I. (1938), Maharaja of. Was First Class Ruling Prince in India's war. *b.* May 10, 1912; *Educ.:* at home by Major Lentaigne and A. P. Pitman; joined the Rajkumar Coll., Rajkot, 1922; proceeded to England for further studies in 1931 and joined the Rev. Brayer's School at Eastbourne and then was admitted to Harrow in 1932; from England in 1928 and attended to the History, Politics, English, etc., at the Samaldas Coll., Bhavnagar. Lieutenant in 1937, Captain in 1945; Hon. Commodore in the Indian Navy; attended meetings of the R.T.C., Round Table various parts of India, England and America; invested with ruling powers on 15th August 1931; granted responsible government in his State, Jan. 1948; Uparajpramukh of Saurashtra Union, Feb. 1948; Acting Rajpramukh, June 1948; Governor of Madhya Bharat, 1948-52. *Recreations:* Riding, Hunting, Racquets, Tennis, Polo, Golf, Rowing, Fishing, Farming and Cricket. *Address:* Nilambag Palace, Bhavnagar.

BHIDE, M. R., B.Sc. (Nagpur), B.A. (Cantab), I.C.S., Adviser on Programme Administration, Planning Commission. *b.* Dec. 1, 1909; *Educ.:* Nagpur and Cambridge. Indian Civil Service. Jt. Secy., Dept. of Economic Affairs, Govt. of India, Dec. 1955-June 1957; Jt. Secy., Planning Comm., Govt. of India. *Publications: Marketing of Sugarcane in United Provinces. Recreations:* Cricket, Tennis and Bridge. *Clubs:* Cricket Club of India, Delhi Gymkhana; Roshanara Club. *Address:* 4B, York Place, New Delhi.

BHOGILAL, Pratap, M.A., Business Man. *b.* Oct. 25, 1916; *Educ.:* Deccan College, Poona; Elphinstone Coll., Bombay; School of Economics, Bombay. Director, Shree Ram Mills, Ltd.; Bhoglal Menghraj & Sons Private Ltd., Bombay; Bhoglal Leherchand Private Ltd., Bombay, proprietors of Batliboi & Co., Bombay including all their branches and Bhoglal Leherchand (Bombay) Batliboi Private Ltd., Bangalore; Batliboi & Co. (Hyderabad) Private Ltd., Secunderabad; Bombay Cotton Private Ltd.; Peerless Inditalia Mercantile and Industrial Co. Ltd., Bombay, Bhoglal Leherchand & Sons,

Bombay, and Director, South India Insce. Co. Ltd., Bombay. The New Great Insurance Company of India Ltd., Bombay, and Amar Dye-Chem. Ltd., Bombay. *Recreations:* Swimming. *Clubs:* C.C.I.; Willingdon Club. *Address:* 26, Ridge Road, Bombay 6.

BHOJWANI, N. K., B.A. (Hons.) (Bombay), B.Sc. (Econ. Hons.) (Lond.), Secretary, Department of Parliamentary Affairs, New Delhi. *b.* Jan. 25, 1911; *Educ.* D. J. Sind Coll., Karachi; Elphinstone Coll., Bombay; Univ. Coll. and London School of Economics, London. Prof. of Economics, Khalsa Coll., Amritsar, 1936-38; Lecturer in Economics, Hindu Coll., Delhi, 1938-44; Statistician, Labour Investigation Cttee., Govt. of India, 1944-45; Principal, B.A.A. Coll. of Commerce and Economics, Karachi, 1945-48; Director of Imports, Ministry of Food, 1948-51; Dy. Secy., Ministry of Agriculture, 1951-54. *Publications:* Articles of popular and academic interest published in *Indian Journal of Economics, Bankers' Journal, Commerce, Illustrated Weekly*, etc. *Recreations:* Swimming; Billiards. *Club:* Delhi Gymkhana Club, New Delhi. *Address:* 5, Meena Bagh, King Edward Road, New Delhi.

BHONSLE, J. K., Adviser, National Discipline Scheme, Government of India. *b* Dec. 10, 1907; *Educ.:* Prince of Wales' Royal Indian Military Coll., Dehra Dun; Royal Military Academy, Sandhurst. Commissioned 2nd Lt., Indian Army, Feb. 1928, promoted Captain, Feb. 1937; travelled round the world, 1937; attended Staff Coll., Quetta, 1940-41; promoted Lt.-Col. and given command of 18 Garhwal Rifles, Feb. 1942; joined the I.N.A. and commanded 18 Field Force Group, Oct. 1942; Dir. of Military Bureau, I.N.A., 1942; Chief of Staff, I.N.A., 1943; underwent trial in the Red Fort; released from Red Fort, May 1946; elected Chairman, I.N.A. Advisory Cttee. for rehabilitation of I.N.A. personnel, 1947; Director of Rehabilitation, Bombay, 1948-51; returned to the Lok Sabha from Ratnagiri North Constituency; Deputy Minister, Rehabilitation 1952-56, elected President, Indian Ex Services Association since May 1953. *Address:* Ministry of Education, New Delhi

BHOPAL: Air-Vice-Marshal His Highness Sikandar Saulat-Iftikharul-Mulk Nawab Muhammad Hamidullah Khan Bahadur, G.C.S.I., G.C.I.E., C.V.O., B.A., LL.D., the Nawab of. *b* Sept. 9, 1894, *Educ.:* Bhopal and M.A.O. Coll., Aligarh, underwent a thorough practical training in all branches of the State administration including the Chief Secretaryship of Bhopal. Ascended the *gadi*, May 17, 1926. Chancellor, Chamber of Princes, 1931-32 and 1941 till the lapse of paramountcy, as Chancellor took active part in the R.T.C., London, 1930, 1931-32; is an all-round sportsman; is one of India's finest polo-players; is entitled to a salute of 21 guns within and 19 guns outside the State; followed the other States in having his State acceded to the Indian Union. *Recreations:* Sports. *Address:* Bhopal.

BHOSLE, Dattajirao Madhavrao, President of the Prince Shivaji Maratha Boarding House, Kolhapur. *b.* June, 15, 1903; *Educ.:* Panchgani; St. Mary's High School, Bombay and Baldwin's, Bangalore. Joined Kolhapur Government service in 1920; Financial Secretary to His Highness, 1925-29; Huzur Chitnis, 1929; Acting Dewan, 1930-31; Chief Secretary, 1931; Acting Prime Minister, 1932-33; Chief Secretary, 1933-40; Home Member and Deputy Prime Minister, 1940-42 when he retired; Chairman of the Kolhapur Agricultural Exhibitions held in 1927 and 1929 and also of the Reception Committee of 17th Session of the Marathi Literary Conference over which His late Highness Shri Sayajirao Maharaj Gaekwar, Maharaja of Baroda presided; first President and Zone Chairman, Lions Club, Kolhapur; Secretary, Kshatrya Maratha Mandal, Kolhapur; Asstt. State Commissioner (Scouts), Bombay State; Owner, Shahu Chitra (Cinema) Mandir, Kolhapur; Recipient of King George V Silver Jubilee Medal in 1936, and Coronation Medal in 1937. *Address:* Sukha Niwas, Tarabai Park, Kolhapur 3.



BHOSLE, Shrimati Nirmala Raje, Deputy Minister for Education, Bombay, since Nov. 1956. *b.* Dec. 1, 1917; *Educ.:* Baroda and Bombay. Joined the Congress as an active working member after the merger of Akalkot State, 1948; was elected M.L.A., Bombay from North Sholapur constituency, 1952, appointed Hon. Parliamentary Secy to the Chief Minister of Bombay, Sept. 1952; took over the Chairmanship of the Sholapur City Social Education Cttee., 1952, has been Chairman, Bombay Labour Welfare Board, since July 1953; is a member of the Bombay State Bharat Scouts and Guides State Executive Cttee. and the Working Cttee of the Bombay Art Society. *Recreations:* Reading, gardening, poultry keeping, tennis, riding, badminton, swimming painting and Indian classical music. *Club:* Cricket Club of India. *Address:* 8-A, Foreshore Road, Opp Sachivalaya, Bombay 1, Shobha Nagar Sholapur

BHUSHAN, Vidya, G. D. Art (Bombay), Diploma in Mosaic and Fresco (Belgrade). Head of painting Deptt., Govt. Coll. of Fine Arts, Hyderabad. *b* June 15, 1922; *Educ.:* Udgir (Dist. Bidar), former Hyderabad State, took G. D. Art (Bombay), 1944 and Diploma in Mosaic and Fresco (Belgrade), 1955. Won several prizes in A. I. art competitions, took first class in Diploma exam; held one man shows in Hyderabad and Delhi; did Murals for Nizam's palace, Delhi, did several life size portraits for Govt. Buildings in Hyderabad and Delhi; won Gold Medal in Hyderabad, 1942; was free lance artist till 1952; had been to Europe for higher training, 1954-55; won President's Gold Plaque in the National Exhibition of Art at Delhi, 1957, won silver medal in the International Exhibition of Art in Moscow, July 1957, was a Kathak dancer, member, Music and Dance Academy, Active member, Hyderabad Art Society, is an active worker in cultural affairs in Hyderabad. *Address:* Gagan Mahal Co-operative Colony, Hyderabad-Dn.

BIDKAR, Dattatray Malhar, Social Worker. *b* March 19, 1910; *Educ.:* New English School, Poona; Nizam Coll., Hyderabad. Left Coll. to join the C.D. movement, 1930; took up village reconstruction work; started uplift work among Adivasis, 1937; member, Gandhi Seva Sangh 1935-40; M.L.A., Bombay, 1947-51. Sanchalak, Gandhi Smarak Nidhi, Maharashtra, 1953-57; Life worker of All India Cadre of Bhartiya Adimjati Sevak Sangh, Delhi, Pres., Dang Seva Mandal, Nasik and other Institutions engaged in constructive work. *Publications:* *Economic Survey of the Adivasis of Maharashtra*, in Marathi and a number of articles on Adivasis in papers. *Recreations:* Swimming, touring in forests, reading novels, and cinema. *Address:* Dang Seva Mandal, Nasik.

BIKANER: His Highness Maharaja Sri Karni Singhji Bahadur, B.A. (Hons.), M.P., Maharaja of. *b* April 21, 1924, *Succeeded*, Sept. 26, 1950; *Educ.:* St. Stephen's Coll., Delhi; St. Xavier's Coll., Bombay; passed B.A. (Hons.) in History and Politics; conducts post-graduate research in Medieval Indian History for Doctorate of Philosophy. Visited the Middle East War Front in Nov. 1941 with his grandfather General His late Highness Maharaja Sri Ganga Singhji Bahadur, G.C.S.I., G.C.I.E., etc; was awarded the Africa Star War Medal, Indian Service Medal, also visited Switzerland, France, England, Norway, Sweden and Egypt; elected to the first Indian Parliament as Member of Lok Sabha as an Independent by an overwhelming majority of votes, 1952; again elected to the Lok Sabha as an Independent by a margin of about 99,000 votes, 1957. *Recreations:* Tennis, Golf, Cricket, Mechanics, Photography, Shooting, Social Service and Flying; has qualified for Private Pilot's Licence. *Clubs:* Willingdon Sports Club, Bombay; Cricket Club of India, Bombay; Bombay Flying; Bombay Presidency Golf (Bombay); Western India Automobile Association (Bombay); Roshanara, Delhi; Delhi Flying (Delhi); Rajputana (Abu), etc.; member, Asiatic Society of India. *Address:* Lalgarh Palace, Bikaner, Rajasthan.



BILLIMORIA, (Mrs.) Gulestan Rustom (*née* Gulestan Bahadurji), M.A., Licentiate, Trinity College of Music, London; Sheriff of Bombay (1957), obtained various University and College Scholarships, was for a number of years Fellow and Syndic of the Bombay University; her paintings have won prizes at Art Exhibitions all over India and one has been bought by and hangs in the Prince of Wales Museum; Chairman, Junior Red Cross, Chairman United Women's Organizations Cttee; Pres., Bombay State Women's Council. Hon. Secretary, All-India Conference of Social Work, 1949-56; Asstt. Treasurer International Conference of Social Work, Chairman, Bombay State Advisory Board for Women's Small Savings Scheme; Treasurer, Bombay State Social Welfare Advisory Board, 1954-56 and is actively connected with various other associations; has travelled widely in Europe and America and led delegations to International Conferences; gave evidence before Government Commission on Education, the University Commission; takes keen interest in her husband's Bel-Air Sanatorium at Panchgani for consumptives; contributes articles to various papers, awarded Kaiser-I-Hind Silver Medal. *Publications:* Joint Author of *Government of India* and also of *Constitution, Functions and Finance of Indian Municipalities*, a book favourably reviewed by the Press, including the *London Times Literary Supplement*. *Address:* Thoburn House, Apollo Bunder, Bombay.



BILLIMORIA, Sir Shapoorjee Burnomjee, Kt. (1928), M.B.E., J.P., Partner, S. B. Billimoria & Co. *b* July 27, 1877, *Educ.* St. Xavier's College. Hon. Presidency Magistrate; Pres., Indian Merchants' Chamber, 1926-28; Pres., Indian Chamber of Commerce in Great Britain, 1928-29; Trustee, N. M. Wadia Charities and a number of other charity trusts and institutions; member, Board of the Bombay Properties of the Indian Institute of Science, Bangalore; Sheriff of Bombay, 1935; Grand Master of the Grand Lodge of Scottish Freemasonry in India, Pakistan and Ceylon. Grand Supdt., Grand Royal Chapter in India and founder and First Master of Lodge Justice and Peace (E.C.); Rotary Governor, 89th District (India); Director, Rotary International, 1943-44; Second Vice-President, Rotary International, 1949-50. Fiscal Agent, Rotary International, since 1948. *Address:* 21, Cuffe Parade, Colaba, Bombay.

BIRLA, B. M., Industrialist. *b.* 1904, at Pilani, Rajasthan. One of the founders, Indian Chamber of Commerce; Pres.: Indian Chamber of Commerce, 1936 and 1944, Federation of Indian Chambers of Commerce & Industry, 1954; Founder and Pres.: Indian Sugar Mills Assoc.; Indian Paper Mills Assoc.; member, Fiscal Commission, Govt. of India; Director, Central Board of the Reserve Bank of India;

Chairman: Local Board, Reserve Bank of India, Eastern Area; West Bengal Financial Corporation; Hindustan Motors Ltd.; Ruby General Insurance Co., Ltd.; India Exchange Ltd.; Managing Director, Birla Brothers Ltd.; Director: Atul Products Ltd.; Hukumchand Jute Mills and various other concerns. *Address:* C/o 8, India Exchange Place, Calcutta 1.

BIRLA, Ghanshyamdas, Padma Vibhushan (1957). *b.* 1894. Managing Director of Birla Brothers, Ltd.; member, 2nd Indian Legislative Assembly; resigned in 1930 as a protest against legislation for Imperial Preference; President: Indian Chamber of Commerce, Calcutta, 1924; Federation of Indian Chambers of Commerce and Industry, 1929; has been responsible for the founding and maintenance of a large number of educational and other public institutions in various parts of the country; member: Indian Fiscal Commission; Bengal Legislative Council; Royal Commission on Labour; Delegate, Labour Conference at Geneva, 1927; member, 2nd Round Table Conference, 1930; Unofficial Adviser to Government of India for Indo-British Trade Negotiations, 1936-37; President, All-India Harijan Sevak Sangh. *Address:* 8, Royal Exchange Place, Calcutta.

BIRLA, Rameshwardas, Industrialist and Business man *b.* May 1892; Director Birla Bros. Private Ltd., The Cotton Agents Private Ltd. *Address:* Industry House, 159, Churchgate Reclamation, Bombay 1.

BISHOP, Major-General William Henry Alexander, C.B. (1946), O.B.E. (1941), Commander of Order of St. John of Jerusalem (1951), Deputy High Commissioner for the U.K. in India, Calcutta *b.* June 20, 1897, *Educ.:* Plymouth Coll.; Royal Military Coll., Sandhurst. Served in First World War with 3rd Indian Division in Mesopotamia and Palestine, 1916-19; served in India, 1919-25, served in War Office, 1933-35; and Colonial Office, 1937-39; served in East Africa, North Africa and West Africa in Second World War, 1939-44; Regional Commissioner, North Rhine Westphalia, 1948-50; Principal Staff Officer to Secretary of State for Commonwealth Relations, 1951-57. *Recreations:* Farming. *Clubs:* Travellers, Army and Navy, United Hunts, Bengal, Calcutta, Tollygunge. *Address:* Office of the Deputy High Commissioner for U.K., 1, Harrington Street, Calcutta 16.

BISWAS, Charu Chandra, M.A., LL.B. (Cal.), M.P., Ex-Minister for Law and Minority Affairs, Govt. of India; was Minister of State for implementation of Prime Minister's Agreement dated 8th April 1950 and 1950-52. *b.* April 21, 1888, at Calcutta; *Educ.:* Hindu School and Presidency Coll., Calcutta; Ripon Law Coll., Calcutta. Enrolled Advocate, Calcutta High Court, 1910; Fellow and member, Syndicate, Calcutta Univ., 1917-22 and 1926-52; Commr. and Councillor, Calcutta Corpn., 1921-37; Delegate to H.M.G.'s Ctttees. in London on Reserve Bank and Statutory Rly. Board in India, 1933; Alternate Delegate to General Assembly of the League of Nations, Geneva, 1936; member: Calcutta Improvement Trust, 1926-37; Indian Leg. Assembly, 1930-37; Radcliffe Commr. for Demarcation of Boundaries of East and West Bengal and Assam, 1947; Judge, Calcutta High Court, 1937-48; Chairman, Calcutta Corpn. Investigation Commn., 1948-50; Vice-Chancellor, Calcutta Univ., 1949-50; Dean, Faculty of Law, Calcutta Univ., 1938-50; Pres., China Aid Ctttes., 1942; is specially interested in cultural advancement, civic welfare and politics; elected member, Rajya Sabha, since 1952; Minister for Law, Govt. of India upto April 1957. *Publications:* Occasional contributions to newspapers and periodicals. *Hobby:* Journalism. *Club:* Calcutta Club. *Address:* 58, Puddopukur Road, Elgin Road P.O., Calcutta 20.

BONERJEE, Karanjaksha, M.R.S.L., Novelist; Consul for El Salvador, since 1947; ex-member, Visva-Bharati, etc.; poet and story-writer. *b.* Oct. 11, 1911; *Educ.:* Calcutta Univ. Entered Consular service of Chancellor of several Consulates in Calcutta; has been associated with many literary and educational institutions of Calcutta, London, Edinborough and Paris; was associated with the Indian Red Cross Society; Pres. of several Literary and Philosophical societies. *Publications:* Contributes to journals in Bengali, Hindi, English and Spanish. *Address:* The Palace, 12, P. K. Tagore Street, Calcutta 6.

BORKAR, Shankar Keshav, M.Sc. (Bombay), A.R.I.C., Drugs Controller, Govt. of India, since Dec. 1956. *b.* Jan. 28, 1909; *Educ.:* Wilson Coll., Bombay. Govt. Medical Stores Factory, Bombay, up to 1942; Manager, Govt. Medical Stores Factory, Chheharta, Amritsar, 1942-43; associated with the erection of the factory; Addl. Officer, Medical Store Depot, Bombay, 1943-47; Asstt. Drugs Controller, Govt. of India, 1947-51, Advisory Chemist, Directorate General of Health Services, New Delhi, 1951-56; Deputy Drugs Controller, Govt. of India, May-Dec 1956; visited the U.S.A. and Canada to study Drug Control Administration and laboratory methods of drug standardisation, 1954-55; also visited pharmaceutical manufacturing establishments in the U.S.A., England, West Germany and Switzerland; member, Indian Pharmaceutical Delegation which visited Russia, Italy and Germany in 1956 to study pharmaceutical industry in those countries. Member-Secy., Drugs Technical Advisory Board; Indian Pharmacopoeia Cttee.; National Formulary Cttee.; member: Development Council for drugs & pharmaceuticals; Scientific Advisory Board of the Central Drug Research Institute, Lucknow; Director: Hindustan Antibiotics (Private) Ltd.; Chairman, Drugs Consultative Cttee. under the Drugs Act; Industrial Adviser, Drugs and Pharmaceuticals *Address: Residence:* 2, Pusa Road, New Delhi; *Office:* Directorate General of Health Services, New Delhi.

BOSE, Buddhadeva, M.A. (English), Writer in Bengali and English; Professor and Head of the Deptt. of Comparative Literature, Jadavpur Univ., Calcutta, since Aug. 1956. *b.* Nov. 30, 1908; *Educ.* Dacca Collegiate School and Dacca Univ. Lecturer in English, Ripon Coll (now Surendranath Coll.), Calcutta, 1934-45; Adviser, UNESCO Seminar for Adult Education, Delhi and Mysore, 1952-53. Visiting Professor of English Literature at Pennsylvania Coll. for Women, Pittsburg, U.S.A., 1953-54; Founder-editor of *Kavita* (*Poetry*), a Bengali quarterly of poetry & criticism. *Publications.* About 100 titles in Bengali; English: *An Acre of Green Grass. Recreations:* Reading and Conversation. *Club:* P.E.N. *Address:* Kavitabhavan, 202, Rashbehari Avenue, Calcutta 29.

BOSE, Debaki Kumar, Motion Picture Producer and Director, *b.* Nov. 25, 1898; *Educ.:* Metropolitan Institution, Central Coll. and Vidyasagar Coll., Calcutta. Joined the non-co-operation movement while taking B.A. degree examination; managed and edited a nationalist weekly for some time; came to films as a story-writer, then turned actor and director; directed his first film "Blind God" produced in 1929; has so far directed 40 pictures; floated his own producing company, 1946. *Address:* 5, Dr. Satyananda Roy Road, Calcutta 29.

BOSE, Mr. Justice Himansu Kumar, M.A., B.L. (Calcutta), Bar-at-Law (Lond.), Judge, High Court, Calcutta, since Dec. 8, 1949. *b.* March 1, 1904, *Educ.:* Univ. of Calcutta; called to the Bar from Lincoln's Inn, London, June 1929. Practised as Barrister in the Calcutta High Court from Sept. 1929. *Club:* Calcutta Club, Calcutta. *Address:* 9/4, Middleton Row, Calcutta 16.

BOSE, Nandalal, D.Lit., Desikottama, Padma Vibhushan (Jan. 26, 1955), Painter, *b.* Dec. 3, 1883, at Kharagpur in Monghyr (Bihar). *Educ.:* Matriculation from Calcutta, 1903, went to College; left after two years; joined Govt. Art School, Calcutta and completed the course; was thereafter a student of Abanindra Nath Tagore. Was Principal, School of Arts of the Oriental Society, Calcutta; joined Kala Bhavana, the school of Arts at Santiniketan, as its Director, 1922; travelled in China and Japan, with poet Rabindranath Tagore, 1924, helped Mrs. Heringham and executed along with other artists copies of Ajanta Frescoes, 1909; painted frescoes in Sir J. C. Bose Science Institute, 1919; co-operated with other artists in making copies of Bagh caves frescoes, 1921; organised exhibitions and decorated pandals at the All India Congress sessions at Lucknow, Faizpur and Haripura at the call of Mahatma Gandhi; commissioned by the Baroda Darbar, executed frescoes in the Kirti Mandir, 1939; was conferred Doctorate by the Benaras Hindu Univ., Dec. 26, 1950 and the title of Deshikottama by the Visva-Bharati Univ., Dec. 28, 1952. Emeritus professor, Visva-Bharati Univ., Santiniketan; is an outstanding representative exponent of Indian Arts *Publications. Rupavali, Ornamental Art, Silpakatha,* etc. *Address:* Santiniketan.

BOSE, Rajshekhar, M.A. (Science) I.C.S. (retd.), D.Litt., Padma Bhushan (1956), Director Bengal Chemical and Pharmaceutical Works Ltd., Calcutta *b.* March 1880; *Educ.* Patna and Calcutta; took his M.A. degree, 1900 and B.L., 1902; awarded Sarojini Gold Medal and Jagattarini Gold Medal by Calcutta Univ. Manager, Bengal Chemical and Pharmaceutical Works Ltd., 1904-32; was Chairman, Univ. Cttee. for technical terms and W. Bengal Govt. Cttee. for official terms; awarded Rabindra Memorial Prize (West Bengal Govt.), 1955, awarded Padma Bhushan by the Govt. of India, 1956. *Publications:* Several collections of short stories in Bengali; A Bengali Dictionary, Translations of Ramayana and Mahabharata. *Address:* 72, Babulbagan Road, Calcutta 24.

BOSE, Satyendra Nath, M.Sc., D.Sc., Padma Vibhushan, (M.P. Rajya Sabha), Vice-Chancellor, Visva-Bharati Univ., since 1956 *b.* Jan. 1, 1894, *Educ.:* Presidency Coll. and Univ. Calcutta; took M.Sc. degree 1915, worked with Madame Curie, 1924-25 and with Albert Einstein, 1925-26. Lecturer, Calcutta Univ., 1916-21; Reader, Dacca Univ., 1921-24 Professor, Dacca Univ., 1926-45, Professor Calcutta Univ., 1945-56. *Address:* Santiniketan, West Bengal.

BOSE, Sunil Kumar, Scholar-musician, West Bengal; Asstt. Station Director in charge, A.I.R., Nagpur. *b* June 23 1911. Graduated from Calcutta Univ., 1936; Post Graduate studies for two years; studied music under the gurus, Sangitacharya Girija Shanker Chakravarty, Chhote Khan and Ustad Mushtaque Hussain and others; won the Calcutta Univ. Music Championship as also the Best Man's Gold Medal, and All India Music Championship (Gold Medals) organised by the Benares Hindu Univ. in 1933; represented Bengal in almost all the All India Music Conferences held in the country between 1934-38; recorded his voice in His Master's Voice, Hindusthan, Megaphone and Broadcast (Bombay) Recording Companies; Music Director in some Bengali films in Calcutta 1933-35; member, Curriculum Cttee. for the Degree Course of Music of the Univ. of Baroda 1950; joined All India Radio, 1939; Invented one music instrument while in Dacca and named it 'Ballaki'; Examiner, B. Mus. exam., Calcutta Univ. *Publications:* Several articles and Rotary lectures published in India and abroad in different Languages. *Address:* Asstt. Station Director in Charge, All India Radio, Nagpur.

BRAR, Pardaman Singh, Army Service, Leading Athlete. *b.* June 11, 1927; *Educ.* High School, Bhagta Bhai-ka. *Recreations:* Putting the shot; Discuss throw. *Address:* Dafadar, Hodson's Horse, C/o New Delhi, A.P.O.

BROKER, Gulabdas Harjivandas, B.A. (Bom.), Gujarati Playwright and Short Story Writer; author and share broker. *b.* Sept. 20, 1909; *Educ.*: Porbandar High School, Bharda New High School, Bombay and Elphinstone Coll., Bombay; graduated in English literature, 1930. Joined the Satyagraha Movement; jailed in 1932 for 16 months; member, B.P.C.C. and its Executive Cttees., till 1936; began writing while in jail; won gold medal in 1943 from Sahitya Parishad in Gujarati; won first prize for best drama written during 1947-54 from Government of Bombay in 1954; several other prizes in literature; member: Advisory Board for Gujarati of Sahitya Akademi, Delhi; Executive of Sahitya Parishad, Gujarat; writes criticism and poetry also. *Publications*: About a dozen books of short Stories and Plays. *Recreations*: Walking, Talking and Reading. *Clubs*: Literary Associations; Life Member and member, Executive Committee of P.E.N., India. *Address*: 26, Ghodbunder Road, Vile Parle West, Bombay 24.

BUNKER, His Excellency Ellsworth, A.B. (Yale), American Ambassador to India. *b* May 11, 1894; *Educ.*. Yale University, took A B, 1916 Business (1916-50) included interests in sugar producing and refining, shipping, insurance and banking, Trustee or Director of charitable, educational and research organizations including New School for Social Research, Institute for International Education; Experiment in International Living; Hampton Institute, Marlboro Coll, Vermont; Union Settlement, New York; Institute for International Social Research; U.S. Ambassador to Argentina, 1951-52; U S. Ambassador to Italy, 1952-53; Pres, American Red Cross, Nov. 1953 Dec 1956. *Recreations*: Farming, tennis, golf, sailing, reading *Address* American Embassy, Bahawalpur House, New Delhi.

BUTCHI BABU, Sivaraju Venkata, Subbarao, M A, Telugu Writer, Programme Assistant, All India Radio *b* June 14, 1916 *Educ.*: A. C. Coll, Guntur; Presidency Coll, Madras; M.A. from Nagpur Univ., 1942. Worked in the Deptt. of English in Govt. Ceded Districts Coll., Anantapur, 1942-44 and Mrs. A. V. N. Coll., Vizagapatam, 1944-45. *Publications*: Stories: *Butchibabu Kathalu*; *Adavikachina Vennela*; *Medamettu*; *Niranlara Trayam*; *Chatanya Sravanti*; *Anupriya*; *Ame Needa*; Plays: *Atmavanchana*, adjudged the best play of the year 1950 by the Andhra Nataka Kala Parishad (Kakinada); *Varini Poyye Danayya*; *Uttama Illalu*; *Adyantalu—Madhya Radha*; Novel: *Chivariki Migiledi*. *Recreations*: Painting; Theatricals; Chess. *Address*: Programme Assistant, All India Radio, Hyderabad (Dn.).

CAMERON, Ian Harley, Deputy Managing Director, A. & F. Harvey Ltd *b.* 1907, at Palamcottah, S. India. Joined Madura Mills, 1928; Director: Madura Mills Co., Ltd., Madurai, Tuticorin and Ambasamudram, Pandyan Insurance Co. Ltd.; The Indian Textile Paper Tube Co. Ltd.; Punalur Paper Mills Ltd.; Fenner, Cockill Ltd.; The Madura Sugars and Allied Products Ltd., etc.; member: Cotton Advisory Board, Bombay; State Cotton Cttee., Madras. *Recreations*: Golf, Ornithology, Field Sports. *Address*: Race Course, Madurai.

CARIAPPA, General K. M., O.B.E. (1945), Ex-High Commissioner in Australia and New Zealand and Ex-Commander-in-Chief, Indian Army. *b.* Jan. 28, 1900, in Coorg, South India; *Educ.*: Central High School, Mercara; Presy. Coll., Madras. Among the first batch of Indian cadets to be commissioned from Daly Coll., Indore, Dec. 1919; served in Iraq (Arab Rebellion), 1920-21 and on the N.W.F.P., 1922-25, 1928-30 and 1946; first Indian Officer to enter the Staff College, Quetta, 1933; saw service in Iraq, Syria and Iran, with the 10th Indian Division 1941-42 and in Burma (Arakan) with the 26th Indian Division, 1943-44; graduated at the Imperial Defence Coll, London, 1947; was Member, Army Reconstruction Cttee. before partition; promoted Major-General, Aug. 1947; was Chief of the General Staff for some time, before being appointed G.O.C.-in Chief, Eastern Command, Dec. 1947; promoted Lieut.-General; transferred as G.O.C.-in-Chief, D.E.P. Command, now Western Command, Jan. 1948; Commander-in-Chief, Army, Jan. 1949 to Jan. 1953 in the full rank of a General; conferred "Legion of Merit," Degree of Chief Commander, by President Truman, Aug. 31, 1949; awarded the Hon. rank of a full General in the Nepalese army by H. M. the King of Nepal, Oct. 1952; conferred the Hon. degree of Doctor of Science of the Agra Univ., Jan. 1953. *Recreations*: Polo; Squash; Golf; Riding; Cricket; Tennis. *Hobby*: Stamp collecting. *Address*: The Roshanara, Mercara, Coorg.

CARLILL, Vice-Admiral Sir Stephen Hope, K.B.E. (1957), C.B. (1954), D.S.O. (1942); Ex-Chief of the Naval Staff, Indian Navy. *b* Dec. 23, 1902, *Educ.*. Royal Naval Coll, Osborne, 1916-17 and Dartmouth, 1917-20. Entered Royal Navy, 1916, Lieut, R N, 1925; qualified as Gunnery Officer, 1929; Comdr, 1937; Commanded H.M. Destroyers Hambledon, 1940, & Farndale, 1941-42, Capt. 1942, Captain (D), 4th Destroyer Flotilla, H M S Quilliam, 1942 44 (despatches); Admiralty, 1944-46; Chief of Staff to C-in-C., British Pacific Fleet, 1946-48; Captain, H.M.S. Excellent, 1949-50; Commanded H M S. Illustrious, 1950-51; Rear-Admiral, 1952; Senior Naval Member, Imperial Defence Coll., 1952-54; Flag Officer, Home Fleet Training Squadron, 1954-55, Vice-Admiral, 1954; Chief of Naval Staff, Indian Navy, July 1955-April 22, 1958. *Recreations*: Hockey, Squash, Cricket, Tennis, Rugby refereeing *Clubs* United Service Club, London; Gymkhana Club, New Delhi *Address* Avenue Cottage, Havant, Hants.



CASSAD, Dhunjisha Pestonji Rattonji, M.Sc. (Eng.) (Lond.), B.Sc. (Bom.), M.R.San I (Lond.), M.M.G.I., M.I.E., M.Am. Soc. C.E., M.A.I.M.E., Chartered Engineer (Civil & Mining); Managing Director, The Central Provinces Syndicate Private Ltd., Nagpur and ex-Officio Director, The Kanhan Valley Coal Co Private Ltd, Nagpur; Managing Director, The Byramji Mining Combine Private Ltd., Bombay, Chairman and Managing Director, Nagpur Electric Light & Power Co., Ltd Nagpur & Wardha; Managing Director, The Star Ginning and Pressing Factories Ltd, Nagpur *b.* Sept. 16, 1907; *Educ.* St Paul's European High School, Rangoon, Burma; Deccan & Fergusson Colleges, Poona, Banaras Hindu University and University College, London. Conducted researches in London and Berlin in Water Filtration and Rigid Frame Structures; formerly Consulting Civil Engineer, Bombay and Quetta; R.C.C. Engineer; Designer, Tata Chemicals Ltd., Mithapur; Civilian Engineer, M E S.; Commissioned Officer, Corps of Indian Engineers, Professor, School of Military Engineering, Roorkee; at present connected with the mining industry for coal and manganese in Madhya Pradesh and iron ore mining in Bihar and Orissa; member, Local (M.P. Centre) Cttee. and Member of Council and Chairman, General Section and President (1958-59), Institution of Engineers (India); Member of the Advisory Board, Indian School of Mines and Applied Geology, Dhanbad; member, Madhya Pradesh Mining Assoc., Nagpur; member: Indian Standards Institution International Electro-technical Commission, and Alternate Member, Engineering Division Council, representing the All India Manufacturers' Organisation, Bombay; Regional Posts and Telegraphs Advisory Cttee. (M.P. and Vindhya Pradesh Zones); member, Divisional Users' Consultative Cttee., Central Rly., Nagpur; member, Board of Secondary Education, Vidarbha; member, Rotary Club, Nagpur and Pres., Lions Club, Nagpur; Vidarbha Table Tennis Assoc.; widely travelled in Great Britain, Europe, Iraq, Iran, Egypt and Burma; member, Indian National Cttee., World Power Conference (Sectional Meeting), India, 1951; American Institute of Mining and Metallurgical Engineers, 1952; Board of Control, New Engineering Coll., Sangli, 1954; Delegate, Employers' Federation of India to the I.L.O. Tripartite Technical Meeting for all mines except coal mines, at Geneva, 1957; Past Pres., M. P. Chamber of Commerce and Industries, Nagpur. *Publications*: *Determination of the Temperature Coefficient in Water Filtration*, "Water and Water Engineering Journal," July 1936; *Typical Design for a R.C.C. Chimney - 320 ft. height and 12 ft. dia*, "Indian Concrete Journal," Sept. 1941. *Clubs*: Pres., Modi Cricket Club, Nagpur, Vidarbha Table-Tennis Assoc; Willingdon Club, Bombay, Gondwana Club and C. P. Club, Nagpur. *Address*. The C P Syndicate Private Ltd., Dolly Dale Byramji Town, Nagpur. *Residence*: Shirin Lodge Byramji Town, Nagpur and Currimbhoy Manor, Warden Road, Bombay 26.

CASTELL, Robert Eric, Senior Director, Binny & Co (Madras) Ltd *b* Oct 25, 1905, *Educ* Manchester Grammar School Joined Binny & Co (Madras) Ltd March 1926; Chairman, Madras Chamber of Commerce, 1954; Director, State Bank of India, since 1955; Sheriff of Madras, 1955-56 *Recreations*, Shooting, Fishing, Tennis, Swimming Music. *Clubs*, Madras Club; Madras Cricket Club; Madras Boat Club; Adyar Club Madras, Kolar Club; Ootacamund Club; Oriental Club, London, Royal Automobile Club London *Address* 'Waterside', Mowbrays Avenue, Adyar, Madras.

CHAGLA, Chief Justice Mahomed Ali Currim, B A. (Oxon), Bar-at-Law, Chief Justice, High Court Bombay, since Aug. 15, 1947. *b* Sept 30, 1900, *Educ*: St Xavier's High School and Coll, Bombay, and Lincoln Coll, Oxford, graduated at Oxford in Honours School of Modern History, 1922; President, Oxford Asiatic Society, 1921; President, Oxford Indian Majlis, 1922; called to the Bar (Inner Temple), 1922; Prof. of Constitutional Law, Govt. Law Coll, Bombay, 1927-30; Hon. Secy., Bar Council of the High Court of Judicature at Bombay, 1933-41; Delegate to U.N to fight the cause of Indians in South Africa, 1946; Puisne Judge, Bombay High Court, 1941-47; Vice Chancellor, Bombay University, April-November, 1947; Pres., Asiatic Society of Bombay, since 1947; Chairman, Legal Education Cttee, 1948; member, Law Commission; Delivered Shri Krishnarajendra Silver Jubilee lecture on Individual Freedom and Welfare State, under the auspices of the Mysore University on 7th August 1954; Governor of Bombay, Oct. 14-Dec. 10, 1956. *Ad Hoc* Judge of the International Court of Justice, The Hague, 1957. *Publications*: *The Indian Constitution* (1929); *Law, Liberty & Life*. *Address*: High Court, Bombay.

CHAINANI, Mr. Justice Hashmatrai Khubchand, B.A. (Cantab.), High Court Judge, Bombay, since Aug. 27, 1948. *b.* Feb. 29, 1904; *Educ.*: D J. Sind College, Karachi and Magdalene College, (Cambridge). Joined Indian Civil Service, Dec. 1927; toured round the world March-June 1935; thereafter appointed as Secretary, Bombay Legislative Council and Assistant Legal Remembrancer; was the first Secretary of the Bombay Legislative Assembly constituted under the Govt. of India Act, 1935; again visited Europe,

1939; Joint Secretary, Home Department, Govt. of Bombay, 1942; subsequently transferred to Govt. of India, Home Dept. where he officiated for some time as Joint Secretary; posted to Surat as District Judge, Jan. 1944, and subsequently served in the same capacity at Ahmedabad; Commissioner, Central Division, Sept. 1947-Aug. 1948. *Address:* High Court, Bombay.

CHAKRABARTI, Mukunda Chandra, B.Sc. (Dacca), first class first with double honours in Maths. & Physics, M.Sc. first class first, Reader and Head of the Univ. Dept. of Statistics, Bombay Univ., since 1948. *b.* January 31, 1915; *Educ.:* Dacca Univ., and Indian Statistical Institute, Calcutta. Lecturer in Mathematics, J. B. College, Assam, 1939-40; Lecturer, Calcutta Univ., 1943-44; Lecturer, Dacca Univ., 1940-43, 1944-48; Fellow, Univ. of Bombay; member, Academic Council; Chairman, Board of Studies in Statistics, Bombay Univ.; member, Board of Studies in Statistics, Nagpur Univ.; member, Faculties of Arts, Science & Commerce, Baroda Univ.; Vice-President, Calcutta Statistical Association. *Publications:* Author of a large number of original papers in Statistics in various Journals. *Address:* Morparia Cottage, 150, Ghodbunder Road, Andheri, Bombay.

CHAKRAVARTI, Monindra Nath, M.Sc., Ex-General Manager, Central Railway; *b.* March 6, 1904; *Educ.:* Allahabad Univ. Probationary Asstt. Transportation Officer, former N.W. Rly., March 1928-Dec. 1936; worked in various capacities, 1936-43; Divisional Transportation Officer, Karachi, 1943-46; Officer on Special Duty, Railway Board and later Secy., Indian Railway Inquiry Cttee., 1946-49; Chief Director of Movements, Ministry of Food and Agriculture where he rationalized all movements of foodgrains in the country and assisted in the formulation of the basic plan for the distribution of foodgrains, 1949-52; Senior Deputy General Manager, Eastern Rly., 1952 and later Director, Efficiency Bureau, Railway Board, till Jan 1955; General Manager, Central Railway, 1955-58 *Recreations:* Reading and Study of Mathematical Problems. *Club:* Delhi Gymkhana. *Address:* c/o "Glenogle", Mount Pleasant Road, Malabar Hill, Bombay 6.

CHAKRAVARTTI, Chief Justice Phani Bhusan, M.A., LL.B. (Calcutta), Chief Justice, High Court, Calcutta, since June 13, 1952. *b.* Oct 15, 1898; *Educ.:* Dacca Collegiate School and Presidency Coll., Calcutta. Lecturer in English, Jagannath Intermediate Coll., Dacca, 1920-26; Asstt Editor and leader-writer, *Calcutta Weekly Notes*, and Advocate, High Court, Calcutta, 1926-45; raised to the Bench, April 26, 1945; Legal Adviser to the Govt. of India for Income-tax matters in Bengal, 1940-45; on deputation as member, Income-tax Investigation Commission, Feb. 1949-April 1951; reverted to High Court in May 1951; Chairman, Medical Education Enquiry Cttee., Calcutta Univ., 1951; Acting Governor of West Bengal from Aug., 8 to November, 2, 1957. *Recreations:* Long walks and reading. *Address:* 117/1, Southern Avenue, Calcutta 29.

CHAKRAVARTY, Birendra Narayan, B.Sc., O.B.E. (1945), Special Secretary, Ministry of External Affairs, New Delhi, since Oct 1956. *b.* Dec. 20, 1904; *Educ.:* Presidency College, Calcutta, University College, London. Joined the Indian Civil Service in 1929; held various appointments in Bengal districts and the Bengal Secretariat; Finance Secy., Bengal Govt., Nov. 1944; Secy. to Governor, West Bengal, August 15, 1947; Counsellor, Indian Embassy in Nanking, China, February 1948; Head of Indian Liaison Mission, Tokyo, Japan with personal rank of Minister, June 1948-49; Jt. Secy., Ministry of External Affairs, 1949-51; Secy., Commonwealth Relations, External Affairs Ministry, Govt. of India, 1951-52; Indian Ambassador in the Netherlands, Jan. 1952 to Aug. 1954; was Ag. High Commissioner in U.K.; High Commissioner for India in Ceylon, April 1955-Sept. 1956. *Hobbies:* Photography and Gardening. *Clubs:* Calcutta Club, Calcutta; Delhi Gymkhana Club, Delhi. *Address:* 44/3, Hazara Road, Calcutta 19; c/o The External Affairs Ministry, New Delhi.

CHALIHA, Bimalaprosad, Chief Minister, Assam, since Dec. 1957. *b.* March 26, 1912, at Sibsagar; *Educ.:* Sibsagar Govt. High School; City Coll., Calcutta; left studies when he was in I.Sc. class, to join the national movement. Arrested in 1932 and jailed for six months; invented a mechanical automatic spinning wheel and obtained a patent for it; deputed by Mahatma Gandhi for training in Khadi under Shri Mathuradas Purushattam, Bihar; elected Secy., All India Spinners' Assoc., Assam Branch till 1942; detained for two years as security prisoner during 1942 Movement; engaged himself exclusively in khadi and village uplift work after release from jail; elected M.L.A., Assam, from Sibsagar West, 1946; appointed Parliamentary Secy., 1947; was Hon. Provincial Rural Development Organiser, Govt. of Assam; was Director of Rural Development Deptt.; became first Chairman, Assam Co-operative Apex Bank and Assam Co-operative Cottage Industries Assoc.; became General Secy., A.P.C.C., 1950; elected Pres., A.P.C.C., 1952; won by-election from Sibsagar to become Member, Lok Sabha, 1953; Regional Organiser for constructive work, A.I.C.C. for Eastern Zone, 1952; elected Chairman, Reception Cttee. of the 63rd Session of the Indian National Congress; resigned, Dec. 1957. *Recreations:* Spinning; Reading. *Address:* Shillong.



CHALMERS, David Nolan, Insurance Manager, The New Zealand Insurance Co. Ltd., Bombay, since 1954. *b.* Dec. 27, 1926 *Educ.:* Wanganui Collegiate School, New Zealand and New Zealand Univ. New Zealand Insurance Co. Ltd., at Bombay 1948-51; Bahrain, 1951-52; Baghdad, 1952-54. *Recreations:* Cricket, Golf. *Clubs:* Bombay Gymkhana, Bombay Presidency Golf Club Ltd. *Address:* Flat No. 6, Hill Park, Pawal Road, Malabar Hill, Bombay 6.

CHAND, Khub, B.A. (Hons.), I.C.S. Indian Ambassador to Italy. *b.* December 16, 1911. *Educ.:* Univ. of Delhi; Oriel College, Oxford. Joined the I.C.S., 1935 having stood first in the I.C.S. Competition in India; Joint Magistrate and later Additional District Magistrate, Cawnpore, 1936-39; Under Secy. to the Govt. of India, Defence Dept. and Secy., Indian Soldiers' Board, 1939-43; District Magistrate, Azamgarh and Regional Food Controller, Benares Region, 1943-47; Deputy Secretary, Ministry of Defence, 1947-48. Head, Indian Military Mission, Berlin with military rank of Major-General, 1948-50 and Head of the Indian Mission in Bonn with rank of Minister Plenipotentiary, 1949-50; appointed Dy. High Commissioner for India in Pakistan, Sept. 1950; acted as High Commissioner for India in Pakistan, Nov. 1950-Aug. 1951; Minister in Iraq and Jordan, 1952-55; Jt. Secy., Ministry of External Affairs 1955-58. *Recreations:* Riding, Shooting, Conversation. *Address:* Embassy of India, Rome.

CHAND, Dr. Tara, M.A. (Alld.), D. Phil. (Oxon.). Member, Rajya Sabha, New Delhi; on the staff of the Indian School of International Studies, New Delhi. *b.* 1888; *Educ.:* St. Stephen's Mission School, Delhi; Meerut College, Meerut; Muir Central College, Allahabad; Queen's College, Oxford. Professor of History, Kayastha Pathshala College, Allahabad; Principal, K.P.U. College, 1925-45; Professor of Politics, Allahabad Univ., 1945-47; Vice-Chancellor, Univ. of Allahabad, 1947-48; Secretary and Educational Adviser, Ministry of Education, Govt. of India, 1948-51; Pres., Secondary Education Conference; Secretary, Hindustani Academy, U.P.; Indian History Congress; Pres., Indian History Congress; Ambassador in Iran, Dec. 1956 to Sept. 1956; member, Rajya Sabha, 1957. *Publications:* *A Short History of Indian People; Influence of Islam on Indian Culture, and Hindustani.* *Address:* 73-G, Sujan Singh Park, New Delhi.

CHANDA, Anil Kumar, B.Com. (Dac.), Senior Scholar, Dacca Univ. (1925), (Econ.) (Lond.), Deputy Minister, Housing and Supply, Government of I. *b.* May 23, 1906. *Educ.:* Silchar High School; Santiniketan, Visvabharati, Dacca, Calcutta and London Univs. Lect. Visvabharati; Secy. to Rabindranath Principal, Coll. of Arts and Science, Santiketan; Professor of Politics, Visva Univ.; visited Iraq and Iran, 1953; Indian Delegation to 8th Session of U.N. General Assembly, 1953; led the Indian Cultural Delegation to China, June 1955; U.S.S.R., Yugoslavia and the Eastern European countries, 1956; Dy. Minister Affairs, Govt. of India, 1952 April *Publications:* Writes occasionally the pen name "Acacia". *Recreation* Travelling. *Club:* Calcutta Club, *Address:* Ministry of Works, Housing Supply, New Delhi.

CHANDA, Asok Kumar, B.Sc., O.B.E. (Jan 1945), Comptroller and Auditor-Gen India, from Aug. 1954. *b.* 25th Oct *Educ.:* Calcutta Univ., London Sch Economics. Joined Indian Audit counts Service, 1926; on deputati Madras Govt., 1937-39; Joint Secy., of India, 1945; Member of Indian Delegation to U.S.A., 1946; Adviser, Partition Council, 1947; Additional Govt. of India, 1947; Defence Dept to U.K., Nov. 1947 and Feb. 1948, Balances Delegation, May-July 1948; High Commissioner for India in the U Oct. 1948-May 1949; Financial Comm Rlys., 1949-52; Head of Railway Del to Europe, 1950 and 1952; Secy. Min of Production, Govt. of India, 1952-Mar Chairman, Board of Directors, Sindri F tilizers and Chemicals Ltd., Hindustan Tools Ltd. and Hindustan Steel Ltd. March 1954; visited Europe and the establishment of a Rs 100 crore Steel Plant. *Recreations:* Golf, Tennis, Swimming. *Clubs:* Delhi Gymkhana, Calcutta, Shillong and Ranchi Clubs. Comptroller and Auditor-General of New Delhi.

CHANDARANA, Uttam Mohanlal, (Bombay), Leading Table Tennis Business man. *b.* June 26, 1911. Elphinstone Coll. and Royal Institute Science, Bombay. Started sports at an early age; won the National Tennis titles in 1943, 1948, 1949 and won several other important tournaments in India; represented India at the International Table Tennis Championships, captained India at Budapest and Eastern Tour, 1950; captained India at the Asian Championship, Singapore, 1954 *Recreations:* Sports. *Clubs:* Cricket Club of India Ltd.; P. J. Hindu Gymkhana. *Address:* 194 F, Gaiwadi, Girgaum, Bombay 4.

CHANDAVARKAR, Sir Vithal Narayan, Kt. (1941), M.A. (Cantab.), Barrister-at-Law, Mg. Director, N. Sirur & Co., Ltd., Cotton Mill Agents. *b.* 26 Nov., 1887; *Educ.:* Aryan High School and Elphinstone High School, Elphinstone College, Bombay and King's College, Cambridge. Advocate, Bombay High Court, 1913-20; Acting Professor of History, Elphinstone Coll., Bombay, July to October 1915; joined N. Sirur & Co., 1920; member, Bombay Municipal Corporation, 1924-29; Standing Chairman, Law Cttee., 1928-29;

(Finance) Cttee., 1929-30; Revenue Cttee, 1930-31; Mayor of Bombay, 1932-33; Deputy Chairman, Millowners' Assoc., Bombay, 1935, 1942, 1951 and 1953; Chairman in 1936, 1940, 1941, 1943, 1944, 1945, 1948, 1949, 1950 and 1954; Vice-President, Employers' Federation of India; Vice-Chancellor, Bombay Univ., 1933-39; Pres., National Indian Liberal Federation (Calcutta), 1940-41; Hon. Fellow, Member of Council since 1935 and Chairman since 1947 of the Indian Institute of Science, Bangalore; member, Bombay Legislative Council, 1933; M.L.A. (Central), 1941-45; Pres., Rotary Club of Bombay, 1942-43 *Address*: 41, Pedder Road, Cumballa Hill, Bombay 26.

CHANDRA, Satish, M.A., B.Sc. (Agri.), Deputy Minister for Commerce and Industry, Govt. of India, since April 1957. *b.* Jan. 17, 1917, at Bareilly; *Educ.*: Govt. Agricultural Coll., Kanpur; Bareilly Coll. Trustee: Shyam Sundar Memorial Coll, Chandausi; Gandhi Eye Hospital Trust, Aligarh. Joined Congress, 1936; courted jail several times for Congress activities; member: U.P.C.C., since 1939; A.I.C.C.; Kasturba Gandhi National Memorial Fund Cttee., 1947-49; Indian Constituent Assembly, 1948-50; ex-member: Food Grains Investigation Cttee., Govt. of India; Central Board of Archaeology; Central Advisory Council for Rlys.; Parliamentary Secy. to the Prime Minister, 1951; returned to the Lok Sabha from Bareilly Dist. South Constituency, U.P.; Dy. Minister for Defence, Govt. of India till July 1955; Deputy Minister for Production, July 1955-April 1957. *Address*: Alamgiriganj, Bareilly (U.P.), New Delhi

CHANDRASEKARAN, Chidambara, M.Sc. (Nagpur), Ph.D. (Lond.), M.P.H. (Johns Hopkins), U.N. Expert in Demography to the Govt. of Thailand; Permanent position; Professor of Statistics, All-India Institute of Hygiene and Public Health, Calcutta. *b.* Oct. 30, 1911; *Educ.*: M.Sc. from Science Coll., Nagpur, 1932; Ph.D. from Univ. Coll., London, 1938; M.P.H. from Johns Hopkins School of Hygiene, Baltimore, U.S.A., 1948; Balwant Rao Mahajan Prizeman, Nagpur Univ., 1932; Rockefeller Fellow, 1947-48; Fellow of the Indian Academy of Science since 1945. Appointed Prof. of Statistics, All India Institute of Hygiene & Public Health, Calcutta, May 1945, was on loan to the U.N., May 1948 to Oct. 1954; Social Affairs Officer, Population Division, U.N. May 1948 to Oct. 1950; Director, U.N. Office for Population Studies, New Delhi, Oct. 1950-54; resumed as Professor of Statistics, Oct. 1954; Vice-President, International Union for the Scientific Study of Population, 1954-57. *Publications*: Over fifty scientific papers on Mathematical and Public Health Statistics and Demography. *Address*: All-India Institute of Hygiene and Public Health, 110, Chittaranjan Avenue, Calcutta 12.

CHANDRASEKHAR, Shrimati M., B.Sc., I.T. (Madras), B.Sc. (H. & S.S.) (London), Ex-Deputy Health Minister, Govt. of India. *Educ.*: Madras Univ.; King's Coll., London. First Harijan lady from South India to obtain a foreign degree; attended courses at National Training College of Domestic Science and Westminster Technical College, London, and studied various aspects of Domestic Science; underwent a practical course in Dietetics at the Middlesex Hospital, London; visited important Public Health Institutions in London to study special Public Health problems; also attended a course of Free Lance Journalism at the London School of Journalism; visited various educational institutions and social welfare centres in England, Scotland, Ireland, France, Belgium, Italy, Switzerland and Czechoslovakia and gathered knowledge about their working; led the Indian Cultural Delegation to U.S.S.R., Poland and Czechoslovakia, 1954; takes keen interest in social work especially in the education of under-privileged women and slum improvement; while at London as a member of the India League, Y.M.C.A. and National Union of Students, took active part in their public and social activities; member of various organisations connected with women's welfare, social service and education; first Harijan lady from South India to be elected to the Lok Sabha; member, A.I.C.C.; Regional Organiser, Women's Branch of the Congress; Central Election Cttee. Representative for Mysore Pradesh. *Address*: C/o Ministry of Health, New Delhi.

CHANDRASEKHAR, Dr. Sripati, M.A., M. Litt. (Madras), M.Sc. (Columbia), Ph.D. (New York), Director, Indian Institute for Population Studies, Gandhinagar, Madras and Visiting Professor of Demography, University of Missouri, Columbia, U.S.A., 1957-58. *b.* Nov. 22, 1918; *Educ.*: American Mission Voorhess High School, Vellore; Madras Presidency Coll.; Univ. of Madras; Columbia, New York and Princeton Universities, U.S.A. Lecturer in Indian Economics, Pennsylvania Univ.; Visiting Professor, Asia Institute, New York, 1944-46; Professor of Economics, Annamalai Univ., 1947-50; Director of Demographic Research, UNESCO, Paris, 1947-49; member, Indian Delegation to International Conference of Agricultural Producers, Paris, 1947; Indian UNESCO delegate to the International Family and Resources Conference, Cheltenham, 1948; represented Annamalai Univ. at the British Empire Universities Congress, Oxford, 1948; UNESCO's delegate to the World Population Conference, Geneva, 1949; Pres., First All-India Conference on Family Planning, Bombay, 1951; Prof. and Head of the Dept. of Econ., Baroda Univ., 1951-53; Delegate to the International Conference on Population and Planned Parenthood, Stockholm, Aug. 1953, Tokyo, Oct. 1955; Nuffield Foundation Fellow, London School of Economics and Oxford Univ., 1953-55; first Indian Lecturer under the Norwegian Indian Foundation, Oslo Univ., April 1954, delegate to U.N. World Population Conference, Rome, Sept. 1954; lectured before Canadian Univs. under the auspices of the Canadian Institute of International Affairs, Winter, 1954. *Publications*: *India's Population* (New York, 1946); *Indian Emigration* (Madras, 1948); *Hungry People and Empty Lands* (Bombay, 1952); *Hungry People and Empty Lands* (London, 1954); *Population and Planned Parenthood in India* (London, 1955). *Recreation*: Tennis. *Address*, Gandhinagar, Madras.

CHANNABASAPPA, H. M., B.Sc., Minister for Public Works and Electricity, Mysore, since May 1958 *b.* at Haralahally, Mysore Dist., *Educ.*: B.Sc. from the Central Coll., Bangalore, 1929, was a Research Scholar till 1932. Has been in public life for over 25 years in various capacities; Pres., Mysore Dist. Board, 1947-55; is member, M.P.C.C. and the A.I.C.C. *Address*, Bangalore.

CHARI, V. K. Thiruvenkata, M.A., B.L., Advocate-General, Madras, since Feb. 25, 1951; Member, Law Commission. *b.* Jan. 30, 1904, at Tiruchirapalli; *Educ.*: M.A. from Presidency Coll., Madras, 1924 and B.L. from Law Coll., Madras, 1926. Enrolled as Advocate, Madras High Court, 1927; Lecturer, Law Coll., 1933-37. *Clubs*: Cosmopolitan Club, Madras; Delhi Gymkhana Club. *Address*: 132, Lloyds Road, Madras 6.

CHATHAN, P. K., Minister for Local Self-Government, Kerala State, Trivandrum, since 1957. *b.* 1920, at Madayilkonam village, former Cochin State; *Educ.*: Primary School, Mapranom; High School, Irinjalakuda; Maharaja's Coll., Ernakulam. Political activity from 1941; took up active social work early in life with a view to removing the social disabilities suffered by the Scheduled Castes; was an office-bearer of the All Cochin Pulaya Maha Sabha and the Scheduled Castes Federation, etc.; was a teacher in Government service; took active part in the Koodalmanickom Temple road agitation and the Paliam Satyagraha; resigned Government job to play a more prominent part in public affairs; joined the Communist Party just before the Calcutta Congress; remained underground for a long time; returned to the Kerala Leg. Assembly as a Communist Party candidate from the Irinjalakuda double member constituency and also from the Chalakudy Constituency in the 1957 elections. *Address*, Secretariat, Trivandrum.

CHATTERJEE, Bimalananda, B.A., LL.B., D.S.S.A., Executive Secretary, Indian Conference of Social Work, since 1948; Asstt. Secretary-General, International Conference of Social Work. *b.* Dec. 30, 1919; *Educ.*: Robertson Coll., Jubbulpore; Univ. Coll. of Law, Nagpur; and Tata Institute of Social Sciences, Bombay. Huzur Works (Social Service and Reconstruction) Officer, Dhrangadhra State, 1945-47; on the staff of the Tata Institute of Social Sciences, 1947-48; founder-member and Jt. Hony. Secy., All-India Conference of Social Work, 1947; addressed the First All Burma Conference of Social Workers, Rangoon, 1953; inaugurated Biennial Conference of Australian Assoc. of Social Workers at Melbourne, 1955; addressed the first Pakistan Conference of Social Workers, Karachi, 1955; associated with a number of social service agencies; attended many international conferences on social welfare; travelled widely in Asia, Australia, Europe, Canada and the U.S.A.; member, Executive Cttee., Indian Council of World Affairs, 1953-56. Member: Editorial Board of the *Indian Journal of Social Work*, Board of Studies and Faculty of Social Work, Baroda Univ., 1954-57, Correspondent for International Social Service in India. *Publications*: Several articles, monographs and papers on Social Problems and Social Work. *Address*: Jehangir Mansion, 73-3, Hughes Road, Bombay 7.

CHATTERJEE, Nirmal Chandra, M.A., P.R.S., LL.B., Bar-at-Law, Senior Advocate, Supreme Court of India; Pres., Hindu Mahasabha. *b.* Oct. 19, 1895; *Educ.*: Univ. of Calcutta and Univ. of London and Middle Temple. Ex-Judge, Calcutta High Court, member, Lok Sabha representing Dist. Hooghly. Pres., All India Hindu Mahasabha, led Jammu Satyagraha movement along with late Dr. Syama Prosad Mookerjee, represented Bengal Hindus before Dacca Riots Enquiry Commission and Boundary Commission and did relief work in Dacca and Noakhali. *Publications*: *Awakening of New India*; *Problems of Jammu*. *Recreations*: Gardening; Travelling. *Clubs*: Calcutta Club; Chelmsford Club, Delhi. *Address*: 22, Alipore Road, Calcutta 27; 7-B, Pusa Road, New Delhi.

CHATTERJI, Commodore Adhar Kumar, Deputy Chief of the Naval Staff, Indian Navy, since Feb. 8, 1958. *b.* Nov. 22, 1914; *Educ.*: Ravenshaw Collegiate School, Cuttack, 1926-30; Brojo Mohan Coll., Barisal, 1930-32; Presidency Coll., Calcutta, 1932. Joined the Navy, 1933; received initial Naval training in the U.K., 1933-35; Lieutenant, 1938, qualified in Anti-Submarine Warfare in H.M.S. Osprey, 1940; War Service in the Atlantic and Indian oceans; Staff Officer, Anti-Submarine, 1942-44; Lieutenant-Commander, 1943; commanded H.M.I.S. Kathiawar, 1944-45; commanded H.M.I.S. Chamak, 1945-46; passed Staff Course at R.N. Coll., Greenwich, 1947; Commander, 1947; Director of Naval Plans, 1947-49; Commander, I.N.S. Delhi, 1949-50; Captain 1950; Captain, I.N.S. Delhi, 1950; Naval Adviser, London, 1950-53; Captain, I.N.S. Delhi, 1953-54; Commodore-in-Charge, Bombay, 1954-56; Imperial Defence Coll., London, 1957. *Recreations*: Tennis. *Clubs*: Delhi Gymkhana Club, New Delhi; Radio Club, Bombay; Cricket Club, Bombay. *Address*: Naval Headquarters, New Delhi.

CHATTERJI, Gyanesh Chandra, M.A. (Punjab), B.A. (Cantab.), Vice-Chancellor, Rajasthan Univ., since Nov. 1953; member, University Grants Commission, since March 1957; Hony. Chairman, Board of Secondary

Education, Rajasthan. *b.* March 4, 1894; *Educ.:* St. Stephen's Coll., Delhi; Trinity Coll., Cambridge, England; London Day Training Coll, Southampton Road, London. Appointed to the Indian Educational Service as Prof. of Psychology, C.T. Coll., Lahore, 1919; Prof. of Philosophy, Govt. Coll., Lahore, 1921; founded Laboratory of Experimental Psychology, Lahore, 1927; Principal, C.T. Coll, Lahore, 1939; D.P.I. and Education Secy., Punjab Govt., 1940; D.P.I. and Education Secy., E. P. Govt., 1947-49; Vice-Chancellor, E. P. Univ., April-July 1949; Member, U.P.S.C., 1949-53. *Publications:* *"Commonsense Empiricism" in Contemporary Indian Philosophy*; *"Empiricism" in History of Philosophy Eastern and Western* (G. A. Unwin); numerous papers in Indian and British Journals. *Recreations:* Lawn Tennis, Golf, Bridge. *Clubs:* Delhi Gymkhana; Ashok Club, Jaipur. *Address:* Rajasthan University, Jaipur.

CHATTERJI, Dr. Suniti Kumar, M.A. (Cal.), D.Litt. (Lond.), F.A.S., Hon. Member, Société Asiatique, Paris (1946), American Oriental Society (1947), Oslo Academy of Sciences (1956), Padma Bhushan (1955), Chairman, Govt. of India Sanskrit Commission (1956-57), etc., etc., Chairman, West Bengal Legislative Council, since 1952 *b.* Nov. 26, 1890; *Educ.:* Motilal Sil's Free Coll., Scottish Churches Coll and Presidency Coll., Calcutta; Univ Coll and School of Oriental Studies, London; Univ. of Paris and Ecole Francaise des Langues vivantes Orientales, Paris. Asstt. Prof. of English, Calcutta Univ, 1914-19; Govt. of India Linguistic Scholar in Europe, 1919-22, Khaira Prof. of Indian Linguistics and Phonetics, Calcutta Univ, 1922-52; Visiting Prof. School of South Asia Studies, Univ. of Pennsylvania, Philadelphia, U.S.A, 1951-52; represented Cal. Univ and Govt. of India at various international conferences *Publications: Origin and Development of the Bengali Language*, 1926; *Indo-Aryan and Hindi*, 1941; *Kirata-jana-kriti*, 1951; and Volumes on Travel and of Essays on linguistic, historical and cultural subjects; as well as scientific and popular articles in English, Bengali and Hindi *Recreations:* Travelling; Collecting Small Art; Study of Art. *Address:* "Sudharma," 16, Hindusthan Park, Calcutta 29.

CHATTERJI, Dr. U. N., B.Sc. (Hons.), M.Sc., D. Phil., D.Sc., Fellow, National Academy of Sciences of India; Fellow of the Royal Society of Arts (Lond.); Fellow of the American Assoc. for the Advancement of Science; Editor of Publications, Indian Council of Agricultural Research, New Delhi. *Educ:* Ewing Christian College, Allahabad and the University of Allahabad. Lecturer, Agra College and Meerut College (Agra University); Assistant Editor of Publications, Indian Council of Agricultural Research. *Publications:* Research Papers in Plant Respiration; articles on various subjects. *Address:* Editor of Publications, Indian Council of Agricultural Research, New Delhi.

CHATTOPADHYAYA, Harindranath, ex-M.P., Received Banner for Best Fighter for Peace (Nov. 1950) from I.U.S.; Poet and Playwright. Actor, Musician and Painter. *b.* April 2, 1898; *Educ.:* Home and for a year Cambridge Univ. for Ph.D. Elected M.P. by big majority over Congress candidate from Vijayawada constituency, 1952. Has held exhibitions of his own paintings. *Publications: The Feast of Youth*; *Magic Free*; *Perfume of Earth*; *Wizard's Masks*; *Out of the Deep, Dark Mould*; *Cross Roads*; author of famous Hindi songs such as *Surya Astha Hogaya* and *Hindi Chini Bhai Bhai*; Poems and Plays: Five Plays (Verse): *Life and Myself*; *The Divine Vagabond*; *Horizon-ends*; *The Dark Well*; Lyrics: *Blood of Stones*; *Treasury of Poems*: *Freedom Come*; Five Plays (*Prose*); 15 *Dry Points* (Mukul Dey and Chattopadhyaya), etc.; *I Sing of Man* (Poems); *Siddhartha, Man of Peace* (3 Act Play—Jaico); *Spring in Winter* (Love Poems); *Tuti Tuti Tota* (Poems for Children in Hindi). *Address:* 3, Krishna Iyer Street, Nungumbakam, Madras.

CHATURVEDI, Benarsi Das, M.P. (Rajya Sabha), Hindi Writer. *b.* Dec. 24, 1892; *Educ.:* Agra Coll., Agra. Hindi teacher, Rajkumar Coll, Indore, 1914-20; Assistant to C. F. Andrews at Shantiniketan, 1920-21; in charge of the work for Indians abroad at Sabarmati Ashram, 1921-25; Editor, *Vishal-Bharat*, Calcutta, 1928-37; Work in Bundelkhand, 1937-52; M.P. since 1952; Pres., Indian Federation of Working Journalists, 1955-58 *Publications:* Some books on Indians abroad in Hindi; several biographies in Hindi; Life of C. F. Andrews (in English) in collaboration with Miss Marjorie Sykes. *Recreations:* Walking. *Address:* 99, North Avenue, New Delhi.

CHATURVEDI, Mr. Justice Misri Lal, B.A., LL.B., Judge, High Court, Allahabad, since Aug. 8, 1952. *b.* July 7, 1899; *Educ.:* Canning Coll, Lucknow upto B.A.; Law from Univ school of Law, Allahabad. Practised Law in the Dist. Court at Lakhimpur Kheri, July 1923-Dec 1927; High Court, Allahabad, Jan. 1928-Aug. 1952. *Club:* Allahabad Gymkhana Club. *Address:* 3, T. B. Sapru Road, Allahabad.

CHAUDHARI, Madhukar Dhanaji, B.Com. (Nagpur), M.Com. (Nagpur), Deputy Minister for Irrigation, Govt. of Bombay, since April 12, 1957. *b.* June 16, 1928, at Nasik; *Educ.:* Janata Shikshan Mandal, Khiroda, East Khandesh; Municipal High School, Faizpur, East Khandesh; D. S. High School, Bhusawal, East Khandesh; G. S. Coll of Commerce and Economics, Wardha; took B.Com. in 1951 and M.Com in 1953. During college days stayed at Sevagram and Kakawadi to keep in touch with the activities there; was Secy., Sadhana Salan; took keen interest in village reconstruction; appointed Sanchalak of the Sarvodaya Kendra at Khiroda, East Khandesh Dist., 1953; was responsible for bringing freshness and energy to the activities of the Centre; took a lead in organising co-operative movement in the East Khandesh Dist. and took active interest in the work of the Harijan Sevak Sangh and Adivasi Seva; actively associated with the work of the Dist. Development Board, Dist. Industrial Assoc., Maharashtra Samajik Parishad, Maharashtra Seva Sangh, etc., elected M.L.A. Bombay from the Raver Constituency in E. K. Dist., in the General Elections, 1957. *Publications:* Wrote a thesis on 'A Five Year Plan for the Socio-Economic Development of Village Mahakal'. *Address:* Bungalow No. A-4, Road No. 1 (Foreshore Road), Bombay 1.

CHAUDHRI, Girdhari Lal, M.A. (1940) Minister for Public Works (Sarvajanik Nirman Mantri), U.P. *b.* November 16, 1912; *Educ.:* D. A. V. College, Dehra Dun, and Hindu University, Banaras. One of the leading members of All-India Depressed Classes League; also an active member of the Indian National Congress; elected member, U. P. Legislative Assembly, 1946; same year included in the Provincial Cabinet; elected President of the U.P. Depressed Classes League, 1947; re-elected to U.P. Leg. Assembly, 1952; re-elected 1957. *Address:* 3, Sarojini Naidu Marg, Lucknow.

CHAUDHRI, Suraj Mal, B.A., LL.B., Minister for Consolidation and Health, Punjab, since April 1957. *b.* January 1, 1901; *Educ.:* Hissar, Rohtak; graduated from D.A.V. Coll., Lahore; LL.B. from Law Coll., Lahore, 1924. Practised at the Hissar Bar till April 1957 was Pres., District Bar Assoc. for six years; elected member and then Vice-Chairman, Dist. Board, Hissar, 1928; elected M.L.A., Punjab, 1937; had been Parliamentary Private Secy. and Parliamentary Secy., undivided Punjab; member, Punjab Legislature till 1954; elected member, first Constituent Assembly of India; Dewan/Chief Minister, Bharatpur State, 1947-48. *Address:* Co-operation, Consolidation and Health Minister, Punjab, Chandigarh.

CHAUDHURI, Lieut.-General Joyanta Nath, O.B.E., Indian Army. *b.* June 1, 1908; *Educ.:* Hastings House, Bishops Colle. and St. Xavier's College, Calcutta; Highga School, London and Royal Military Colle. Sandhurst, England. Commissioned, Feb 1928; served one year with 1st Bn., North Staffordshire Regt., then posted to 7th Light Cavalry; during World War II saw servi in the Middle East, Far East; was instruct at Staff College, Quetta; commanded 16th Light Cavalry in Burma; was mentioned in despatches five times; at end of war was Brigadier, i/c Administration, Malaya; com manded the Indian Victory Contingent t U.K., 1946; attended the Imperial Defe College in London in 1947; on return t India officiated as Chief of General Staff and later commanded 1st Armoured Division Military Governor, Hyderabad State, till Dec. 1949; again commanded 1st Armoured Division; Adjutant-General, Jan. 10, 195 Sept. 28, 1953; Chief of the General Staff Sept. 29, 1953-Dec. 11, 1955; Corps Com mander, Dec. 15, 1955; Colonel Commandant Corps of Electrical and Mechanical Engineering and 16th Light Cavalry. *Publications: Operation Polo* (account of operations by 1st Armoured Division). *Recreations:* Travel Writing and Music. *Address:* C/o Lloyd Bank, New Delhi.

CHAUDHURI, Nabakrushna, Ex-Chief Minister, Orissa. *b.* 1901, at Cuttack; *Educ.:* Cuttack, Sabarmati, Santiniketan Took to agriculture, 1927, joined the C.D. movement, established the Congress Socialist Party in Orissa 1934 started a weekly *Sarathi*, 1935, took leading part in agitation against the oppression of the Durbars of Talcher and Dhenkanal, Was elected member of Orissa Leg. Assembly led the left wing of the Congress Parliamentary Party; imprisoned in 1942 movement, appointed Revenue Minister, Orissa, 1946 Chairman of Cttee. to recommend legislative and other measures for land reforms in the State, resigned from the Ministry and Legislature, 1948; drafted the final report of the Land Revenue and Land Tenure Cttee. has been connected with the work of the 'Bajiraut Chhatrabas', a model centre of basic education, run by his wife at Angul, Secy., Board of Basic Education in Orissa was unanimously elected leader of the Congress Parliamentary Party in Orissa, Feb elected M.L.A., Orissa in the general elections and again elected leader of the Congress Party, member, Congress Working Committee from 1951. *Address:* Bhubaneshwar.

CHAUDHURY, Prof. Dr. Emran Husain, B.A., D.Sc. Pol., Professor, J. B College Jorhat, since 1950. *b.* Oct. 24, 1914 *Educ.:* Jorhat, Aligarh, Berlin; graduated from Aligarh Univ., 1934; Secy., Univ. Union, 1934-35; gave evidence before Sapru (Unemployment) Cttee., 1935; after completing M.A. (Econ.), LL.B. courses, joined Berlin Univ. as Alexander Von Humboldt Scholar, Nov. 1936; studied under Profs. J. Jessen and H. Weigmann (former executed for complicity in the anti-Hitler Putsch of July 1944); took D.Sc. Pol. (Econ.) degree, 1939 Asstt. Lecturer, Economics, M.C. Coll., Silchar later in Cotton Coll., Gauhati, 1940-45; started Bengal Famine Relief, 1943, which broke down owing to Govt.'s policy; elected M.L.A. from Silbasgar Muslim Constituency, 1946; elected President, All-India Rly. Muslim Employees' League, June 1947; elected Leader of the Opposition, Assam Assembly, 1951; Represe sentative on Gauhati Univ. Court of Assam Coll. Teachers' Assoc., since Dec 1947, divides time between Politics and Economics (national and foreign) and religion and public service. *Publications: Der indische Arbeiterservice*, *Publications: Der indische Arbeiterservice unter britischer Herrschaft*. *Address:* Jorhat, Assam.

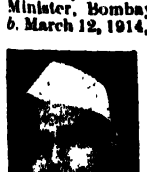


CHAUDHURY, M. Moinul Haque, B.A., (Hons.), M.A., LL.B., Minister for Agriculture, Veterinary, Co-operative, etc, Govt. of Assam since April 22, 1957. *b.* July, 1923; *Educ.:* Cotton Coll., Gauhati; Presidency Coll., Calcutta; Aligarh Univ.; passed B.A. (Hons.), 1944, M.A. first class first in History and Political Science, 1946; LL.B. (first class), 1946. After completing his education, took to social and political activities; joined legal profession and rose to the top in that profession; was member, Silchar Local Board and Municipal Board; connected with several educational institutions; twice under detention for political activities; elected M.L.A., Assam, 1952 on Congress ticket; re-elected, 1957 *Recreations:* Gardening, Reading *Clubs:* Shillong Club. *Address:* Shillong, Assam.

CHAUHAN, Devisingh Venkatsingh, B.A. (Hons.), LL.B., Deputy Minister for Agriculture, Bombay Govt, since April 1957. *b.* March 2, 1911; *Educ.:* Poona and Nagpur; passed B.A (Hons.), 1938 and LL.B, 1941 Participated in the State Congress Struggle leaving his studies at Gokhale Institute, Poona, 1938; started Bharat Vidyalaya High School, 1941; practised Law for three years; joined the School, 1943; was arrested in the Satyagraha Struggle in Hyderabad State, 1947; was in jail for 14 months, till released by the Indian Military, Sept. 1948, was Asstt. Editor, *New Life*, Hyderabad Daily; member, Ex Cttee. of the Hyderabad State Congress and Pradesh Congress, since 1950; is Pres., Marathwada Pradesh Congress Cttee.; Minister for Education and Rural Development, Hyderabad, 1952-54. *Publications:* A Series on Arithmetic for Primary Schools; Books on Land Reforms; contributed articles to Newspapers. *Address.* Bungalow No A 1, Foreshore Road, Reclamation, Bombay No 1.

CHAVAN, Shankarrao Bhaorao, B.A., LL.B., Deputy Minister for Revenue, Government of Bombay, since Nov. 1, 1956. *b.* 1920; *Educ.:* Studied upto VII Standard in Paithan (Aurangabad District); City Coll., Hyderabad; Nizam Coll., Hyderabad; graduated from Madras Univ.; Law Degree from Osmania Univ. Has been connected with several social, educational, co-operative and other activities in the Marathwada area; was Pres., Maratha Yuvak Parishad; was member, Minimum Wages Board, appointed by Govt. of India, Ginning and Pressing Minimum Wages Board, Local Bodies Advisory Cttee. and the Tenancy Reform Advisory Cttee, appointed by the Govt. of former Hyderabad; Vice-Pres., Central Co-operative Bank at Nanded for five years; was Director, Hyderabad State Co-operative Bank; Vice-Pres., Hyderabad Agriculturist Co-operative Assoc., 1953; was on the executive body of the State Co-operative Land Mortgage Bank; Chairman, Nanded Municipality, 1952-56; member, Executive Body of All India Federation of Local Authorities; entered politics, 1945; gave up practice and became a full time Congress worker, 1946; Secy., Nanded District Congress Cttee., 1950-53; General Secy., Hyderabad P.C.C. for about 2 years; elected to the former Hyderabad State Council, 1956. *Address:* A/3, Foreshore Road, Bombay 1; *Permanent Address:* Mondha Line, Nanded.

CHAVAN, Yashwantrao Balwantrao, Chief Minister, Bombay State, since Nov. 1, 1956. *b.* March 12, 1914, at Devrashtre, Satara Dist.;



Educ.: Tilak High School, Karad; won several prizes in elocution competitions; was a voracious reader; organised students movement, 1930; participated in the C.D. Movement, 1932; imprisoned for his political activities, 1930; matriculated, 1934; graduated from the Rajaram Coll., Kolhapur, 1938; took his LL.B. Degree from Law Coll., Poona, 1941. Started practice at Karad; was a Royist first, but later dissociated himself from that movement in 1939 on the issue of the Second World War; directed underground movement in Satara Dist., Aug. 1942–May 1943 until his arrest at Phaltan, 1944; elected Pres., Dist. Congress Cttee., Satara; member, Maharashtra P.C.C., since 1940; was its Secy., 1948, 1949 and 1950; elected M.L.A., Bombay, 1946; appointed Parliamentary Secy., 1946; took active part in organising Home Guards, started a Marathi daily, *Prakash* at Satara, 1948; in early days also started the Marathi weekly *Lokkranti*; after the general elections of 1951, appointed Minister for Civil Supplies, Bombay; as Civil Supplies Minister succeeded in introducing progressive decontrol; was Minister for Local Self-Govt and Forests, Bombay; was also in charge of Community Projects; after the second general elections was unanimously re-elected leader of the Congress Legislature Party. *Recreations.* Sports, Poetry, Music, Fine Arts *Address:* Corsley, Ridge Road, Malabar Hill, Bombay 6

CHAVDA, Kishan Singh, Gujarati Writer, Short stories, Belles-lettres, Managing Director, Chetana Press Ltd *b.* Nov 19, 1904; *Educ:* Baroda, Ahmedabad, Santiniketan, Pittsburgh (U.S.A.); Pres: Rotary Club, Kala Kendra, Lekhak Milan. *Publications* Twenty-five books in Gujarati literature *Recreations.* Music, Reading, Walking *Address.* 8, Alakapuri, Baroda.

CHAVDA, Shiavax Dhanjibhai, G.D. Art, (Bombay), Diploma in Fine Arts, Practising Artist. *b.* Dec. 11, 1914 in Gujarat; *Educ.* C.J.N.Z. Madresa High School, Navsari; Studied art at Sir J. J. School of Art, 1930-35; scholarships enabled him to have further training and experience in Europe; obtained diploma in Fine Arts at the Slade School London, 1938; worked at the Academie de la Grande Chaumiere, Paris; learned stage designing under the well-known Russian artist Polunin at the Slade School; also studied in St. Martin's School of Art, London. Represented in the UNESCO Exhibition in Paris, 1947, the Exhibition of Indian Art at Burlington House, London, 1948, the Salon de Mai, Paris & Exhibition of Indian artists in the U.S.A.; held 15 one-man shows in and outside India - Djakarta, Singapore, 1951, London 1955, Paris, 1955 and Zurich, 1956. Travelled widely in Bali, Europe and Malaya *Recreations:* Indian Classical Music *Address:* Ava Chambers, 1, Cinema Road, Dhobitalao, Bombay 1.

CHERIAN, Dr. P. V., M.B.B.S., D.L.O. (R.C.S.), F.R.F.P.S.G., F.R.C.S.E., Ex-Chairman, Madras Legislative Council. *b.* July 9, 1893; *Educ.:* C.M.S. College, Kottayam; Madras Medical College; London, Glasgow and Edinburgh Temporary commission in the I.M.S., 1917-22; was in Iraq, 1918-22; Asstt. to Prof. of Surgery, Madras Medical College, 1923-25; specialised in diseases of the Ear, Nose and Throat in London, Glasgow, Edinburgh and Vienna, 1925-27; Ear, Nose and Throat Surgeon, General Hospital and Prof. of Ear, Nose and Throat Diseases, Medical College, Madras, 1927-48; Principal, Madras Medical College, 1945-48; acted as Surgeon-General, Madras, 1947; retired, Aug. 1948; member, Syndicate of Madras Univ.; was Mayor of Madras, 1950; Ag. Vice-Chancellor, Annamalai Univ., March-May 1955. *Recreation:* Tennis. *Clubs:* The Presidency Club, Madras; Madras Gymkhana; Madras Cricket Club; Lawley Institute, Ootacamund. *Address:* 5, Victoria Crescent, Egmore, Madras.

CHETTIAR, Dr. A. Chidambaranatha, M.A., Ph.D., Professor of Tamil and Head of the Department of Tamil (Arts), Annamalai Univ., since 1946. *b.* April 3, 1907; *Educ.:* Govt. Coll., Kumbakonam; Annamalai Univ. Lecturer, Govt. Muslim Coll., Madras (1930-33); Lecturer, Govt. Victoria Coll., Palghat (1935); Lecturer, Annamalai Univ. (1936-45); Acting Vice-Chancellor, Annamalai Univ. (1948); Member, Syndicate of the Univ.; member: Managing Committee, Tamil Encyclopaedia, Madras; General Council of Sahitya Akademi, Delhi; Board of Studies in Tamil, Madras, Travancore, Tirupati, Osmania and Annamalai Univs.; visited the Universities in the U.K. on invitation from the British Council, Jan 1955; visited the Continent, April 1955; visited Singapore and Malaya on cultural tour, Jan. 1956; Pres., Social Service League, Annamalainagar. *Publications: History of Tamil Prosody; Life of Sir Thomas Munro; Life of Booker T. Washington; Mun Pani Kalam* (a Book of Lity. Essays); *Tamil Osai* (Lity. Essays) *Club:* Staff Club, Annamalainagar. *Address:* Professors' Quarters, Annamalainagar (S. India).

CHETTIAR, A.M.M. Murugappa, Industrialist. *b* Jan. 23, 1902; *Educ.:* Madras; Managing Director: T.I. Cycles of India, Ltd, Madras; Carborundum Universal, Ltd, Madras; Tube Products of India Ltd, Madras; Director: Madras Industrial Investment Corpn. Ltd., Madras; The Century Flour Mills, Ltd, Madras, Thiru Arooran Sugars, Ltd, Madras; Sri Sarvaraya Sugars, Ltd, Madras; Ashok Leyland, Ltd., Madras; Export Risks Insurance Corpn. Private Ltd., Bombay; Triton Insurance Co., Ltd, Calcutta; New Ambadi Estates Private Ltd, Trivandrum; Murugappa Sons (Travancore) Private Ltd, Trivandrum; Coromandel Engineering Co. Private Ltd., T. & M Industries Private Ltd, Madras; The Murugappa Agencies Private, Ltd, Madras; Ajax Products, Ltd (in voluntary liquidation); Kanadukathan Elec. Supply Corpn, Ltd, Madras (in voluntary liquidation), Kanadukathan; Pres., Southern India Chamber of Commerce, Madras, 1949-50; Cttee. member, Federation of Indian Chambers of Commerce & Industry, New Delhi; has extensive business interests in Burma, Malaya and Ceylon; has made extensive tour of the United Kingdom, Continent, United States of America and Far Eastern countries and has travelled around the World. *Clubs:* Cosmopolitan Club, Madras; Gymkhana Club, Madras; Madras Race Club, Ltd, Madras; Presidency Club, Madras; Century Club, Bangalore *Address.* "Chamundeswari Baugh," 9, Santhome High Road, Santhome, Madras 4.

CHETTIAR, L. P. KR. Ramanathan, Panditha Vidwan, Panditha (Madura Tamil Sangam), Vidwan (Madras Univ.), Muttamil Vittakar (Dharmapuram Mutt, Sept. 1957); Prof. and Head of the Dept. of Tamil (Oriental), and Dean, Faculty of Oriental Studies, Annamalai University, since June 1953 *b.* Nov. 6, 1915; Winner, King George V Thousand Rupee Prize (Madras Univ.); Pandit's Training (Annamalai Univ.). Joined the Tamil Research Deptt., Annamalai Univ, Aug 1936; Teaching Section, since July 1937; serves on various academic bodies of the Univs. of Annamalai, Madras, Mysore, Osmania and Travancore, and on Special Cttees. constituted by the Govt. of Madras and the Annamalai Univ.; Secy.: Tamil Music Research Cttee. of the Madras Tamil Isai Sangham from 1940; Secy., Music Advisory Cttee. of the Annamalai Univ., Oct. 1943-48; Convener of the Cttee. and compiler of a National Bibliography of Contemporary books of literary merit in Tamil, under the Sahitya Akademi, set up by the Govt. of India; is writing the *History of Tamil Literature* at the invitation of the Sahitya Akademi; member, Syndicate, Senate and Academic Council, Annamalai Univ.; member, Advisory Board for Tamil, Sahitya Akadami; Chairman, Board of Control, Arumughanavalar Trust, Chidambaram. *Publications:* Several papers and books such as *Kalluri Kovai; Annamalai Arasar;* and *Sanga Kala Tamilar Valru;* compiled twenty books on Tamil music published by the Annamalai Univ. *Address:* Dean, Faculty of Oriental Studies, Annamalai University, P.O. Annamalainagar.

CHETTIAR, T. S. Avinashilingam, B.A., B.L., Ex-Minister for Education, Madras. *b.* May 5, 1903, at Tiruppur; *Educ.:* Pachaiyappa's Coll. & Law Coll., Madras. Enrolled Advocate, Madras High Court, 1926; interested in public work and education; jailed in connection with Salt Satyagraha, 1930, C. D. Movement, 1932, Satyagraha Movements of 1941 and 1942, etc.; Founder, Ramakrishna Mission Vidyalaya, Coimbatore; Pres., Dist. Congress Cttee., 1930-46; member, Central Assembly, 1935-46; elected M.L.A., Madras, 1946; President & Founder, Tamil Valarchi Kazhagam (Tamil Academy) which prepares the Tamil Encyclopaedia; Minister for Education, Madras, 1946-49; was responsible for the introduction of Basic Education, Reorganisation of Secondary Education and Adult Education in the province; Chairman, Gandhi Smarak Nidhi Cttee. to bring out Gandhi's complete works in Tamil in 10 volumes; Founder, the Avinashilingam Education Trust and Avinashilingam Home Science Coll., Coimbatore. *Publications: Thirukethara Yathirai; Inthia Porulathara Nool; Nankanda Mahatma* and other books; compiled and translated Swami Vivekananda's 'Thoughts on Education' and his Indian Lectures. *Address:* Sri Ramkrishna Vidyalaya, P.O. Coimbatore Dist., S. India.

CHIMANLAL, Smt. Indumati, Ex-Minister for Social Welfare and Rehabilitation, Govt. of Bombay; Managing trustee, C. N. Vidya Vihar. *Educ.:* Secured the Chatfield Prize by passing the matriculation examination in the first class with high distinction; passed the Snatak (B.A.) examination from Gujarat Vidyapith with Sociology in first class with honours and secured the All-India Students Prize; was Professor of Politics in the Gujarat Vidyapith for some time; took active part in the management of Seth C. N. Vidya Vihar, courted arrest in the freedom movement; selected Khadi work as a special interest; was Secy., Foreign Cloth Boycott Cttee., 1930; appointed member, Joshi Cttee. for educational reorganisation and also of the Basic (Education) Board, 1937; elected uncontested to the Bombay Leg. Assembly, 1946, was Parliamentary Secy. for Education; re-elected to the Assembly, 1952; was Deputy Minister for Education and Aarey Milk Colony; was associated with the Mavlankar Committee appointed for the formation of Gujarat Univ.; later a member of the Senate and Syndicate of that Univ.; member, Rural Univ. Board, Central Film Censor Board, Labour Education Cttee., etc.; Convener, Guj. Pradesh Mahila Congress. *Address:* Khanpur, Ahmedabad.

CHINAI, Babubhai Maneklal, L.T.M. (V.J.T.I.), M.P. (Rajya Sabha), President, Swadeshi League; a leading Silk Merchant, Bombay. *b.* April 19, 1913; *Educ.:* Bombay. After completing his early education, joined his family firm of Messrs. Nagindas Fulchand Chinai; is prominently concerned with the establishment and development of the Rayon Industry in India; Member: Official Trade Delegation to Japan, 1947. Entered public life during Salt Satyagraha Movement, 1930; member "Shadow Cttee." during the "Quit India" Movement and was in charge of the movement for some time; arrested, 1942; elected to the Bombay Municipal Corporation; was Hon. Treasurer, Mahatma Gandhi National Memorial Fund (Bombay Cttee.); Director: Chinai & Co. (Private) Ltd., Managing Agents of the National Rayon Corporation Ltd., etc.; Member: Indian National Committee, International Chamber of Commerce; Board of Management of the Assoc. of Trade & Industry, Central Silk Board, and Development Council for Art Silk Industry; Representative: Indian Merchants' Chamber on the Board of Trustees, Bombay Port Trust for several years; member: B.P.C.C., A.I.C.C. Cttee. of the Federation of Indian Chambers of Commerce & Industry; Cttee. of the All India Organisation of Industrial Employers; Employers' delegate to the International Labour Conference, Geneva, 1945; member: Indian Industrial delegation to U.S.A. and Continent, 1957; Cttee. of the Silk Merchants' Assoc. for a number of years; its Pres. for some years; Ex-Pres., Indian Merchants' Chamber, 1955; Federation of Indian Chambers of Commerce & Industry, 1957-58; Society of Hon. Presy. Magistrates; ex-Chairman, Life Insurance Corporation; Western Zone Advisory Cttee., 1957-58. *Clubs:* C.C.I.; W.I.A.A.; Bombay Presy. Radio; National Sports Club of India; Shree Krishna Hindu Merchants' Club; New Poona Club. *Address: Res.:* St. James' Court, Netaji Subhas Road, Bombay-1; *Office:* The National Rayon Corporation Ltd., Ewart House, Bruce Street, Fort, Bombay-1.

CHINOY, Sir Sultan Meherally, Kt. (1939). *b.* February 16, 1885; *Educ.:* Bharda New High School and Elphinstone College. A pioneer in the Motor Car and Petroleum trade in India; responsible for the introduction of Wireless Telegraphy in India on a commercial scale and founded the Indian Radio and Cable Communications Co., Ltd. (now nationalised by Govt.); Mayor of Bombay, 1938-39; President, Bombay Rotary Club, 1940-41; District Governor, Rotary I, 89th District, 1944-45; raised large funds for the Bombay Hospitals as a member of Hospital Maintenance Committee and as Chairman of the Silver Jubilee Motor Parade Committee and the Motor Trade Sub-Committee of the King George V Memorial Fund; organised Pageant in 1937 in aid of funds for Red Cross and again in 1940 in aid of the Amenities for Troops Fund, Bombay Presidency. *Recreation:* Horse-flesh. *Address:* Dilabhar, Carmichael Road, Bombay.

CHISHOLM, Ronald George, F.S.A. (Scot.), T.D., Norwegian War Medal (1948), United Kingdom Deputy High Commissioner in India, Madras, since March 1957. *b.* Jan. 26, 1910; *Educ.:* Inverness Royal and Peterhead Academies. Appointed to Scottish Home Dept. on qualifying in legal subjects (1929); Staff Coll., Camberley (1939); Battery Commander, Royal Artillery (1939); Staff Officer, R-A Scottish Command (1940); Sheriff Clerk Depute (1941); D.A.Q.M.G., G.H.Q., Home Forces (1941-43); D.A.A. & Q.M.G., Sussex (1943-44); D.A.Q.M.G., G.H.Q., Middle East (1944-45); released, Oct. 1945; Burma Office (1945); India Office (1945-47); Commonwealth Relations Office (1947); Acting Deputy High Commissioner for the U.K. in Pakistan (1951-53). *Recreations:* Golf, Reading. *Clubs:* East Indian Sports (London); Madras; Adyar (Madras); Sind (Karachi); Bengal (Calcutta). *Address:* 'Cottingley', 4, Anderson Road, Madras.

CHIVATE, Mahadeo Virupaksha, B.A., Pres., Miraj Municipality. *b.* Aug. 4, 1925; *Educ.:* Primary and Secondary education at Miraj; Willingdon Coll., Sangli; in student days was fond of games; won many prizes in sports. Was Managing Director, Bharat Consumers' Co-operative Society, Miraj, for some time; is Chairman, Bhusar-Vyapari Mandal (Grocers' Assoc.), Miraj; Chairman: Public Works Cttee., Miraj Municipality, 1952-53; Law Cttee., Miraj Municipality, 1954; elected Pres., Miraj Municipality as Samyukta Maharashtra Samiti candidate, Dec. 23, 1957; elected to the Municipality as an independent candidate supported by Samyukta Maharashtra Samiti, Nov. 1957; takes keen interest in social and civic activities. *Recreations:* Sports. *Address:* Somwar Peth, Miraj (S. Rly.).



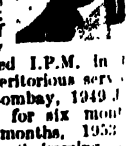
CHOPRA, Major-General Mahinder Singh, Indian Ambassador in Philippines, since Jan. 1, 1958. *b.* January 12, 1909; *Educ.:* R. I. M. College, Dehra Dun; Royal Mily. Coll., Sandhurst, England. Commissioned, Aug. 29, 1926; attached to 1st Battalion, The Royal Fusiliers, for one year; joined 1st Battalion, The Rajput Regiment, 1928-32; transferred to 6th Royal Battalion (Belooch), 10 Frontier Force Rifles as the First King's Commissioned Indian Officer in the newly Indianised Battalion; was Staff Captain in the Paiforce; promoted D.A.Q.M.G. after six months in the same H.Q. was G.S.O. II Operations at H.Q., Sind Dist. Karachi; saw active service with a Frontier Force Battalion in Burma, 1943; promoted Lt.-Col. and appointed Commandant at the Army School of Physical Training in Oct. 1944; Inspector of Physical Training, 1946; commanded the 1st Battalion, Assam Regiment, 1947; Dy. Mily. Secy., Army H.Q. India after partition; was given command of Frontier Brigade Group, Oct. 1947; Maj.-Gen., G.O.C., Inf. Division, Indian Army, Oct. 1949 May 1956; Indian Minister in Philippines, June 1956 Dec. 1957. *Address:* c/o The External Affairs Ministry, New Delhi.

CHOUDHURI, Mr. Justice Binoy Kumar, B.A., LL.B., Puisne Judge, High Court of Judicature, Madhya Pradesh, since Nov. 1, 1956. *b.* April 2, 1898; *Educ.:* Robertson Coll., Jabalpur; Univ. School of Law, Allahabad. After practising at the Bar at Jabalpur joined the Judicial Service, 1927, District and Sessions Judge, 1947-51; Judge, Nagpur High Court, Nov. 3, 1951-Oct. 31, 1956. *Recreations:* Shikar and all outdoor games, tennis. *Clubs:* Nerbudda Club, Jabalpur. *Address:* South Civil Station, Jabalpur.

CHOUDHURY, Mahendra Mohan, B.A., B.L., M.P. (Rajya Sabha), President, Assam Pradesh Congress Cttee., since 1957. *b.* April 12, 1908; *Educ.:* Cotton Coll., Gauhati, Ewing Law Coll., Gauhati. Pres., Assam Pradesh Congress, 1955-56; Minister, Assam Govt., 1951-55; resigned ministership to join the organisation; member: Assam Leg. Assembly, 1946-56; All India Congress Working Cttee., 1955-56; Gen. Secy., A.I.C.C., 1956. *Publications: Life of Mahatma Gandhi* in Assamese. *Recreation:* Reading. *Address:* Nowgaon Vill. (Barpeta).

CHOWDHRY, Mr. Justice Radha Krishna, M.A., LL.B., Puisne Judge, Allahabad High Court, since Nov. 11, 1954. *b.* Nov. 18, 1898; *Educ.:* Muir Central Coll., Allahabad, Allahabad Univ. Was in the U.P. Judicial Service, March 1925-Sept. 1950; Judicial Commissioner, Himachal Pradesh, Sept. 1950-Nov. 1953; later Chairman, Election Tribunal, P.E.P.S.U. at Bhatinda. *Recreations:* Tennis; Literature. *Address:* High Court, Allahabad.

CHUDASAMA, Mansinhji M., B.A., LL.B. (Bombay Univ.), Inspector-General of Police, Bombay State, since July 11, 1955. *b.* April 1905, of a Rajput family. *Educ.:* St. Xavier's College, Bombay; Law College, Poona and Ahmedabad. Joined Imperial Police, Dec. 1929; served as D.S.P. in several districts of the Province and in Thar Parkar District in Sind where he had to deal with the Hur menace; appointed D.I.G.P., N.R., Ahmedabad, 1947; Dy. Inspector-General of Police, C.I.D., Bombay Province, 1948-49; awarded I.P.M. in the same year for long and meritorious service; Commissioner of Police, Bombay, 1949-55; officiated as I.G.P. for six months, 1949-50 and for four months, 1953. *Recreations:* Tennis, Golf, Swimming. *Clubs:* Ahmedabad Gymkhana Club, Poona Gymkhana Club, W.I.A.A. Club, Bombay Willingdon Sports Club, Radio Club, Bombay. *Address:* Bombay.



CLARK, William Arthur Weir, C.M.G. (1948), C.B.E. (1948), M.A. (Edin.), Deputy British Commissioner for United Kingdom. *b.* Dec. 1908; *Educ.:* Stewarts Coll., Edinburgh; Edinburgh Univ.; Trinity Coll., Oxford. Colonial Service, 1930-39; seconded to Control Commission Office, 1939-45; Private Secy. to Lord Altrincham, 1945; Chief Secretary, Central African Council,

1945-48; Chief Secretary, Basutoland, Bechuanaland and Swaziland, 1948-54; Under-Secretary of State, Commonwealth Relations Office, 1954-56. *Recreations:* Reading, Shooting, Fishing. *Address:* 19, Aurangzeb Road, New Delhi; Old Vicarage, Wrotham, Kent, England.

COLEMAN, Ronald, Regional Manager, I.C.I. (India) Private Ltd., Madras. *b.* March 1, 1909; *Educ.:* University of Reading. Joined I.C.I., U.K. Organisation, 1934; Commissioned R.A. P.A., 1936; on active service, 1939-46; posted to India, 1941 and joined Indian Mountain Artillery; transferred from I.C.I. Ltd. to I.C.I. (India) Ltd., 1946. *Recreations:* Golf, Shooting, Hunting. *Club:* East India Sports Club. *Address:* C/o I.C.I. (India) Private Ltd., Madras.

COOPER, Jal Manekji, F.R.G.S., Member, British Philatelic Association Ltd.; Hon. Secy., The Empire of India Philatelic Society. *b.* March 29, 1905. Member, Glasgow Philatelic Society, Philatelic Traders' Society, The Air Mail Society, etc.; Editor and Publisher of "India's Stamp Journal" (a monthly Philatelic Magazine); Auctioneer and Philatelic Valuer; Dealer in Rare Stamps and all kinds of Philatelic accessories. *Publications: Indian Rocket Mails, Early Indian Cancellations, Stamps of India, India used in Burma,* and *India used Abroad.* *Address:* Standard Building, Dadabhoy Naoroji Road, Bombay



COSSIMBAZAR, Maharajkumar Somendra Chandra Nandy, M.A., Head of a premier Zamindar family of West Bengal *b.* 1928; *Educ.:* Calcutta Univ., M.A., 1950. Pres., Governing Body, Krishnath Coll. (Berhampore), Maharaja Manindra Chandra Coll (Calcutta), Maharaja Cossimbazar Polytechnic Institute, Calcutta; Krishnath Coll. School (Berhampore), Maharani Kasiswari Girls' School (Berhampore), Manindra Chandra Vidyapith (Saidabad), Maharaja Srischandra Girls' School (Saidabad); Murshidabad Deaf & Dumb School; Pres., Centr l Calcutta Rifle Club; Vice-Pres., Murshida' d Dist. Library Assoc.; Asstt. Secy., Bangiya Itihash Parisad; Curator, Banghiya Sahitya Parisad, Member, British Indian Assoc.; Director: Bengal Potteries Ltd., Manindra Mills Ltd., Rajgaon Stone Co., Ltd., C. B. Syndicate Private Ltd.; Seakdah Cold Storage & Transport Ltd., C. B. Chemicals Private Ltd.; Maharaja Cossimbazar Stone Works Private Ltd.; Proprietor: Maharaja Cossimbazar China Clay Mines (Singhbhum); is an all-round sportsman, taking particular interest in Cricket and Football. *Address:* "Sreepur Palace," P.O. Cossimbazar Raj, Murshidabad; "Cossimbazar House," 302, Upper Circular Road, Calcutta 9.



DABOO, Raj Priya Dinshaw Rattanji, B.A., M.L.C., Bombay State, former Nayab Dewan and member, Executive Council of Baroda State. *b.* 25th Sept. 1885. Daboo family founded the Parsee General Hospital, Daboo Students' Hostels, and several other charitable and religious institutions. Himself, besides his other charities, gave a lakh of rupees to found a Girls' High School at Navsari to commemorate the name of his late mother Bai Dinbai; has created a public Charitable Trust, taking effect immediately, of all his immoveable estates worth three and a half lakhs of rupees.



Educ.: Elphinstone College, Bombay. Joined his father's business of Forest and Public Works contracts. Toured Europe in 1912. Was Director, The Associated Cement Cos., Ltd., Tata Hydro-Electric Co., Ltd., Andhra Power Co., Ltd., Devkaran Nanji Investment Co., Ltd., The Navsari Electric Supply Co., Ltd.; Ex-member, Indian Council of Agricultural Research; Director, The Powell Industries Ltd.; Member, Baroda Legislative Council, 1918-25, again from 1940 to 1948. Appointed Development Minister, Baroda State, 1944-48; Member, Navsari Municipality, 1914-1942, its first elected President, 1923-1925, again 1934-1936. Member, Navsari District Board, 1917-42, its Vice-President, 1918-25, its first elected President in 1939. Director, District Co-operative Bank, 1922-42, its first elected President, 1925-42. Founded District Land Mortgage Co-operative Bank in 1936 and its President, 1936-42. Was member, Baroda Banking Inquiry Committee, Baroda Education Board, Agricultural Improvement Committee, Baroda Economic Board, Central Communication Board. Was given a civic address by the public of Navsari for selfless services to people in 1925 and 1943. Was awarded titles of Raj Bhushan in 1927, Raj Ratna in 1936 and Raj Priya in 1943. Was awarded Gold Medal on the occasion of H. H. the late Maharaja's Diamond Jubilee. *Address:* Loonsikui, Navsari (Western Rly.).

DA COSTA, Eric Paul Woollet, M.A. (Oxon.), Editor, *The Eastern Economist,* New Delhi, since June 1948. Managing Director, Indian Institute of Public Opinion Ltd., New Delhi *b.* June 5, 1909; *Educ.:* Presidency Coll., Madras; St. John's Coll., Oxford; George Webb Medley Scholar in the Univ. of Oxford, 1933. Entered Mysore Civil Service; Secy to the Dewan of Mysore, 1939-42; Secy. to the Prime Minister, Jaipur, 1942-43, Development Secy. Jaipur, 1943-44, General Manager, Textile Machinery Corporation, Calcutta, 1944-48. Member: Tea Board, from 1954; Import Advisory Council. *Clubs:* Delhi Gymkhana Club; The Calcutta Club. *Address:* 5, Kitchener Road, New Delhi.



da COSTA, Joshi, Major, Albert F. W., F.R.C.S., I.M. & S., D.T.M., V.D., A.F.M.C.; I.M.S. *b.* Jan. 13, 1880; *Educ.:* St Joseph's Girls' School, Bombay, 1893-98; St. Mary's School, Goa upto 1903, St. Xavier's High School and Coll. and Grant Medical Coll., Bombay, upto 1910; L.M. & S., Calcutta, D.T.M., Edinburgh, F.R.C.S. Entered M. P. Medical Service as Plague Medical Officer, 1912; Commissioned I.M.S., 1914, served as Medical Officer 2-9th King George's Own Gurkha Rifles, World War I, Third Afghan War and Frontier Expeditions; Prof. of Midwifery, Gynæcology, Pediatrics, Hygiene, Surgery and Eye, Ear, Nose and Throat in Robertson Medical School, Nagpur, 1921; Civil Surgeon, M. P., 1927; retired 1938, with the rank of Major; General Secretary, Catholic Union of India; member, Indian Medical Assoc., M.P. Medical Assoc., Bombay Medical Union; former member of British Medical Association; recipient of the Volunteer Officer's Decoration, 1929; decorated by His Holiness The Pope Pius XII with the "Bene Merenti" Gold Medal, May 30, 1950. *Hobbies:* Polo, Golf, Photography, Sport, etc. *Publications: Entire absence of the Uterus; Atresia of the Vagina absence of the Uteri; Appendix, Tonsils, Adenoids, and Cervi Uteri; Appendix, Tonsils, Adenoids, Cholera, Strangulated Hernia, Teeth at Birth, Suspended Animation.* *Address:* Chateau d'Emilia, Kamptee Road, Nagpur 1.



DADACHANJI, Nariman Merwanji, M.Sc. (Tech.) (Manchester), M.Sc. (Benaras), Managing Partner, Hind Dyes Manufacturing Co. (Manufacturers of Coal Tar Dyes); partner, American Colour & Chemical Co. and Kumar Colour Trading Co. *Educ.:* Benaras Hindu Univ. and Coll. of Technology, Manchester. Conducts an up-to-date Dyes Manufacturing Factory and a Laboratory for testing of Dyes & Chemicals; has travelled extensively on the Continent and U.S.A. on business; Vice-Pres., The Dyestuffs Manufacturers' Assoc. of India *Publications.* Thesis written on The Fading of Naphthol and Bleaching of Textile Fibres by Pressurised Oxygen at Manchester Univ. *Clubs.* National Sports Club of India. *Address:* 69-C, Ashiana, Breach Candy, Bombay No. 26

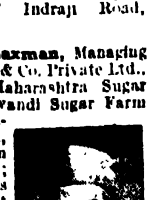


DAFTARDAR, Bhagwant Ambaji, B.A. (Bombay), Journalist. *b.* Jan. 22, 1903; *Educ.* Sangli High School and Willingdon Coll., Sangli. Was for some time tutor in History to Sangli Princess, Sou Indumati Raje; Pres. (first elected), Sangli City Municipality, 1940-42; again 1948-49; its Chairman, 1947; Sangli State Delegate to attend the Publicity & Information Officers' Conference at New Delhi, 1944; was member: Bombay State Prohibition Board, South Satara (Sangli) Dist.; Bombay State Yarn Distribution Advisory Cttee for South Satara (Sangli) Dist.; was Chairman, Sangli Dist. Central Co-op. Bank Ltd.; gave oral evidence before the Local Finance Inquiry Cttee. appointed by India Govt., 1950; Chairman, New Education Society, Sangli; Pres., Rotary Club of Sangli, 1956-57, as Pres.; Sangli Journalists' Conference; S.S. Dist. Industrial Co-operative Assoc. Sangli, as Dist. Hon. Co-operative Organiser (Industrial) for South Satara, Sangli, Vice-Chairman (non-official), Dist. Small Savings Cttee., member, Miraj Rly. (southern) Consultative Cttee. *Address:* "Amba-Prasad", Shivajinagar, Sangli (S. Rly.).

DAHANUKAR, Dattatreya Mahadeo, Director: The Maharashtra Sugar Mills Ltd.; M. L. Dahanukar & Co. Ltd.; New Asiatic Insurance Co. Ltd.; Managing Director, the Premier Wire Products Private Ltd. *b.* Dec. 21, 1911; *Educ.:* Bombay., Member, The Indian Merchants' Chamber and The Maharashtra Chamber of Commerce, Bombay. *Recreations:* Swimming, Golf, Bridge, etc. *Clubs:* Willingdon Sports Club; Cricket Club of India Ltd.; Bombay Presidency Radio Club. *Address: Office:* Industrial Assurance Building, opp. Churchgate Station, Bombay 1; *Residence:* "Ratnakar," Indraji Road, Malabar Hill, Bombay 6.



DAHANUKAR, Mahadeo Laxman, Managing Director, M. L. Dahanukar & Co. Ltd., Managing Agents, The Maharashtra Sugar Mills Ltd., and The Belvandi Sugar Farm Private Ltd.; Director, Dahanukar Sons Private Ltd., New United Construction & Eng. Co. Private Ltd.; World Chemical Works Private Ltd., The Amrut Oil Mills Ltd., The United Commercial Bank Limited, The Hindusthan General Insurance Society Ltd.; ex-Sheriff of Bombay; ex-President, The Maharashtra Chamber of Commerce; Employers' delegate to the International Labour Conference, Geneva, 1939; Ex-member of the Committee of the Indian Merchants' Chamber, the



Federation of Indian Chambers of Commerce & Industry, Indian National Committee of the International Chamber of Commerce, All-India Organisation of Industrial Employers; Provincial Housing Advisory Committee, Regional Disposal Advisory Committee, Bombay and other Govt. Bodies; Employers' Federation of India; Councillor, Bombay Municipal Corporation (1932 to 1939), and Bandra Municipality (1930-34) Divisional Rly. Users' Consultative Cttee., Central Rly., Bombay; takes active part in all commercial, industrial and social activities. *Address:* Shree Sadan, 4A, Carmichael Road, Cumballa Hill, Bombay; Industrial Assurance Building, opp. Churchgate Station, Bombay.

DALAL, Jayanti G., Gujarati Writer. *b.* Nov. 18, 1909; *Educ.:* Surat, Ahmedabad and Gujarat Coll., Ahmedabad. Gave up studies to join satyagraha, 1930; jailed, 1930, 1932-33, 1941, 1942-44, 1957; took to journalism and writing; organised Mahagujarat Janata Parishad, 1956; elected to Legislative Assembly; had been Chairman, Gujarat P.S.P. *Publications:* novels, short stories, one act plays, drama, etc., translated entire *War and Peace Recreations:* Reading, Drama. *Address:* Jivan Pole, Sankadi Sheri, Ahmedabad.

DALAL, Manockji Nadirshaw, Industrialist and Chartered Civil Engineer. *b.* January 7, 1905; member, Council of State for over a decade; Chairman, Council of State; Sheriff of Bombay; Vice-Pres., Indian Branch of the Dominion Parliamentary Assoc.; Member of the Court, Delhi Univ.; served on almost all Advisory Cttees. of Ministries of the Govt. of India, like the Industries and Civil Supplies Cttee., Supply and Munitions Production Cttee., Central Advisory Council of the Railway Board, Civil Defence Cttee., Food Cttee., Central Food Council, Roads Cttee., Commonwealth Relations Cttee., Central Consumers Council, etc.; member, Ex. Cttee., Anti-Tuberculosis Assoc., Delhi; Secy., the Engineering Industries Sub-Cttee. of the National Planning Cttee., 1939, etc.; Chairman, M. V. Taxation Enquiry Cttee., appointed by the Govt. of India, 1950; Pres. and member of Council, Indian Roads and Transport Development Assoc., India; Director, International Road Federation representing India; in Bombay served on the Board of Communications, Provincial Transport Authority, Traffic Advisory Board, Famine Relief Cttee., Food Council, Food Advisory Board, Western Railway Local Advisory Council, etc.; member, Executive Cttee. of the Indian Merchants' Chamber; Chairman: Tractors (India) Ltd.; Palanpur Vegetable Products Ltd.; Director, Sepulchre Bros (India) Ltd.; Member, Royal Institute of Civil Engineers (London); Fellow, Incorporated Assoc. of Architects and Surveyors (London); Honourably mentioned for the Charles Hawksley Prize, 1931, by the Royal Institute of Civil Engineers (London). *Address:* Nepean House, Ridge Road, Bombay 6.



DALMIA, Jaidayal. *b.* 1905, younger brother of Seth Ramkrishna Dalmia; *Educ.:* Privately. A leading industrialist and an able executive; has wide knowledge of machinery and plant; keenly interested in mass literacy, labour problems and maternity welfare; has travelled in India and Europe; has visited workshops of many important machinery manufacturers in Great Britain and the Continent and has good experience of different processes of cement manufacture; a keen student of mechanical and electrical engineering; Chairman, Orissa Cement Ltd. and Dalmia Iron & Steel Ltd.



Hobbies: Industrial Chemistry, Numerology, Tennis, Photography. *Address:* 2, Hardinge Avenue, New Delhi.

DALMIA, Seth Ramkrishna. *b.* April 7, 1893. Industrialist; his ancestors, noted for their love of spiritual service, belonged to Dalma, a village in the Punjab States, from where they migrated to Rajputana; *Educ.:* Without the help of a tutor, by reading books in leisure time, practical experience and natural gift, acquired knowledge specially in finance, banking, commerce, economics and philosophy; also acquired good knowledge of Hindi, Bengali, Gujrathi and English, all of which he speaks well and with ease; well read in Hindu scriptures; started career at the age of 12 on Rs. 10 per mensem, as an apprentice with his maternal uncle; is the founder of the Dalmia-Jain Group of Industries consisting of many companies including banks, insurance and investment companies, chains of cement and sugar factories, chemicals, biscuit factories, aviation companies, railways, collieries, publishing house and newspapers; has now distributed most of the concerns between his brother and son-in-law, keeping just a few in his hands; had numerous ups and downs in his career but his steadfastness and strong will power raised him to his present position; his centres of activity have grown into self-sufficient towns, named after his ancestors and relations—Dalmianagar (Bihar), Dalmiapuram (South India), Dalmia-Dadri (Punjab), Ramkrishna Lok, Sawai Madhopur (Rajasthan), and Shantinagar (Karachi, Pakistan); one of the biggest philanthropists, his charities include schools and other institutions such as hospitals, widows' homes, poor houses, and religious institutions being run by Charity Trusts like the Bhrigu Raj Charity Trust, the Yogiraj Charity Trust; eats the plainest food and wears cheap and unostentatious clothes confining his personal expenses to the barest necessities of life; his connections are widespread and he is on terms of close friendship with leading politicians, religious and social leaders; a staunch Hindu, orthodox in his living and having implicit faith in his own religion, he has respectful regard for other religions. *Hobbies:* Study of Hindu Philosophy and propagation of Adwait. *Address:* Dalmia House, New Delhi.



DAMLE, Kashinath Raghunath, B.Sc. (Hons.) (Allahabad and London), I.C.S., Secretary, Ministry of Food and Agriculture, Govt. of India. *b.* March 3, 1906; *Educ.:* Allahabad Univ.; King's Coll., London. Joint Magistrate and Dist. & Sessions Judge in various places in U.P. and Ajmer (1930-44); Secy. to High Commissioner for India in Australia, also Acting High Commissioner (1944-48); Joint Secy. and Offg. Secy. to Govt. of India and Vice-Pres., Indian Council of Agricultural Research (1949-55); Chairman, Tariff Commission 1955-58. *Recreations:* Tennis, Golf. *Clubs:* Delhi Gymkhana Club; Delhi Golf Club. *Address:* New Delhi.

DANDEKAR, Gopal Ganesh, L.M.T. (Baroda), Mechanical Engineer, Bhiwandi (Thana Dist.).



b. 1895; *Educ.:* Kala Bhuwan Technical Institute, Baroda. Founder and Managing Director, G. G. Dandekar Machine Works Ltd., Bhiwandi; Managing Director, Dandekar Engineers Private Ltd., Bhiwandi; elected Pres., Maharatta Chamber of Commerce & Industries, Poona, 1950-51; travelled widely in the United Kingdom and Europe, 1948; member, State Advisory Council of Industries, Bombay, 1955. *Address:* Bhiwandi (Thana District), *Via* Kalyan.

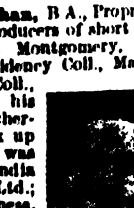
DANDEKAR, Gopal Neelkanth, Marathi Novelist. *b.* July 8, 1917; *Educ.:* Upto 5th standard at Nagpur; left school and house to join national movement of 1930; wandered all over India in company with Sages for a period of 15 years. *Publications:* Novels: Marathi *Binduchi Katha; Tudavlele Gharkul; Padma, Sindhukanya; Shitu; Jagannatha Pandit, Pavnakathacha Dhondi; Padghavli; Purnamayechi Lekre; Kuna Ekachi Bhraman Gatha*, Hindi; *Kisi Ekaki Bhraman Gatha;* Dramas; Collections of stories, 60 books of various nature in Hindi and Marathi. *Address:* Talegaon-Dabhada, District Poona.

DANDEKER, Narayan, B.Sc. (Econ.), (Hons.) (London), B.Com. (Hons.) (London), A.S.A.A. (Hons.), A.C.A. (Eng.), A.C.A. (India), I.C.S. (Retd.). Managing Director, Cement Agencies (Private) Ltd., Managing Agents for the Associated Cement Companies Ltd., since Dec. 1954. *b.* June 24, 1908; *Educ.:* St. Mary's European High School, Madras; Univ. Coll., Colombo, Ceylon; London School of Economics, London School of Oriental Studies, London. Joined the I.C.S., 1931, Commissioner of Income-Tax (1941-44), at Calcutta and then in Punjab, Delhi and N.-W.F. Provinces (1944-46); on special duty with the Central Board of Revenue (1946-47); Commsnr. of Income-Tax, Bengal (1947-48); Member, Central Board of Revenue (1948); Joint Secy., States Ministry (1948); member, Expert Cttee. to enquire into Finances of Indian States, appointed member, Cttee. on State Trading, Oct. 1949; was with Scindia Steam Navigation Co., Ltd., Bombay, 1949-51. *Clubs:* Presidency Club, Madras; Calcutta Club and '300' Club, Calcutta; Roshanara and Delhi Gymkhana, New Delhi; Lahore Gymkhana, Rotary Club, Willingdon Sports Club and Radio Club, Bombay. *Address:* Southlands, 177, Upper Colaba, Bombay 5.

DANGE, Shripad Amrit, M.P., General Secretary, All India Trade Union Congress. *b.* Oct. 10, 1899; *Educ.:* Bombay. Member Central Committee of the Communist Party of India; Vice-Pres., World Federation of Trade Unions; courted jail for over 10 years under the British Govt. and the Congress Govt. for conducting strikes, struggles and political activities on behalf of the Communist Party; elected to Lok Sabha, 1957. *Publications: India from Primitive Communism to Slavery*, 1949; *Hell Found*, 1928; *Gandhi vs Lenin*, 1921. *Address:* 9, Kohinoor Road, Dadar, Bombay 14.

DAPHTARY, Chandra Kisan, M.A. (Cantab.), Bar-at-Law, Solicitor-General, Govt. of India, since July 1951. *b.* April 1, 1893; *Educ.:* St. Paul's School, London, Magdalene Coll., Cambridge; called to the Bar, January 1917, Advocate O.S., High Court; Advocate General, Bombay, till July 1951. *Address* 68-E, Nepean Sea Road, Bombay; 3, Hastings Road, New Delhi.

DARGAN, Rajinder Mohan, B.A., Proprietor Aar Dee Publicities, producers of short films. *b.* Nov. 22, 1924, at Montgomery, West Pakistan; *Educ.:* Presidency Coll., Madras-B.A. from Hindu Coll., Delhi, 1945. Started his career with Begg, Sutherland & Co., Ltd.; took up insurance career, 1948; was Resident Secy., All-India General Insurance Co., Ltd.; started his own business, 1953; has produced short films in colour for several reputed firms; can also write short scripts; is a freemason and a member of Lodge "Clair". *Recreations:* Bridge, Photography. *Clubs:* Wheeler Club, Meerut; Chelmsford Club, New Delhi. *Address:* Nariman Bhavan, Warden Road, Bombay 26.



DAS, Arup, Graduated in Art from the Govt. College of Arts & Crafts, Calcutta in 1949, Senior Artist, Directorate of Advertising & Visual Publicity, Ministry of Information and Broadcasting, Govt. of India. *b.* July 5, 1927; *Educ.:* Calcutta. Paintings exhibited extensively in the principal cities of the world and are in the private collections and Art Galleries with U.S.S.R., Cairo, Warsaw, Hungary and Australia; awarded many prizes from different exhibitions; one of his paintings was presented to Madam Sun Yat Sen by the Govt. of India, two are in the National Gallery of Modern Art, New Delhi, two in the Hyderabad Art Gallery, one in the Art Gallery of Madras and one in the Parliament House; awarded the National Prize from the Lalit Ka'a Akadami, Min. of Education, Govt. of India, 1955; held a one-man exhibition of paintings in New Delhi, 1954 and in Calcutta 1956. *Address:* C/o All India Fine Arts & Crafts Society, Old Mill Road, New Delhi.

DAS, Mr. Justice Bachu Jagannadha, M.A., M.L., Judge, Supreme Court of India, since March 9, 1953; on other duty as Chairman, Second Central Pay Commission, Govt. of India, since Sept 9, 1957. *b.* July 27, 1893, at Berhampur, Ganjam Dist; *Educ.:* Berhampur, Ganjam; Srirangam; Presidency Coll and Law Coll., Madras; was first in first class in B.L.; won the L. C. Miller medal; awarded the Sir T. Muthuswami Aiyar scholarship Enrolled as Advocate, 1917; joined Madras Bar, 1918; practised on the appellate side, Madras High Court, till 1948; detained and interned in the 1942 freedom movement, Sept. 1942 June 1944; member, Madras Bar Council, 1943-48; Judge, Orissa High Court, July 1948-Oct. 1951; Chief Justice, Oct. 1951 March 1953; member, Madras Corporation, 1933-43; Secy. & Vice-Pres., Thakar Bapa Vidyalaya, Madras, 1936-48; member, Senate and Dean, Faculty of Law, Utkal Univ., 1948-53. *Address:* 5, York Place, New Delhi 2.

DAS, Dr. Bhagavan, M.A., D.Litt., Bharat Ratna (1955). Author, Litterateur and Philosopher. *b.* Jan 12, 1869. *Educ.:* M.A. (Calcutta Univ.), 1887, D.Litt (Honoris Causa), Benares, 1929 and Allahabad, 1937. Entered Govt service, 1890, resigned, 1898; Foundation Member & Hon. Secy., Central Hindu Coll., Benares, 1899-1914, Foundation Member, Benares Hindu Univ., 1916 and Kashi Vidyapith, 1921, political prisoner in connection with the first Civil Disobedience Movement, 1921-22, Pres., United Provs. Social Conference, 1919 and Political conference, 1920; Hindi Sahitya Sammelan, 1921; Chairman, Benares Municipal Board, 1923-25; member, Indian Leg. Assembly, 1935-38; awarded Bharat Ratna by the President of India, 1955. *Publications: Science of Peace, Science of Emotions; Science of Social Organisation; Science of the Sacred Word; Essential Unity of all Religions,* and various other books and pamphlets in English, Sanskrit and Hindi on Philosophy, Psychology and Sociology. *Recreations:* Indian exercises, and now walking. *Address:* Shanti Sadan, Sigra, Banaras (Varanasi).

DAS, Durga, Chief Editor, *The Hindustan Times,* since Aug 1957. *b.* Nov. 23, 1900, at Aur (Punjab); *Educ.:* Jullundur and Lahore. Parliamentary Correspondent and Editor, Associated Press of India, New Delhi-Simla 1918-37; Special Representative of the *Statesman,* 1938-43; Joint Editor, the *Hindustan Times,* 1944-57; studied working of the Press and Parliaments in Europe and the U.K., 1931; visited the Middle East, Italy and the U.K. as War Correspondent, 1945; Pres., U.P. Press Conference, 1946; Secy., Press Assoc., New Delhi, 1943-47; member, Indo-Pakistan Press Consultative Cttee., 1949-51; Chairman, Press Gallery Cttee., Indian Parliament, since 1951; Delegate to the Commonwealth Press Conference, Ottawa, 1950; Pres., Press Club of India, New Delhi; made round-the-world tour, 1957. *Publications: India & The World; Ram Rajya In Action. Recreations:* Tennis; Swimming; *Clubs:* Chelmsford Club, Constitution Club and Press Club of India, New Delhi. *Address:* 2, Keeling Lane, New Delhi.

DAS, Hareswar, M.A., B.L. (Calcutta), Minister for Revenue, Assam, since April 22, 1957. *b.* Nov. 2, 1897; *Educ.:* Univ. Coll., Gauhati and Law Coll., Calcutta; took Law degree, 1922. Practised as a lawyer from 1930; gave up practice and joined the Gaudiya Mission of Calcutta, an organisation for the spread of Vaisnavism; after some time rejoined practice; became Municipal Commissioner and then Chairman, Goalpara Municipal Board; started several high schools and M.E. Schools; was elected M.L.A.; became Parliamentary Secretary and later Dy. Minister. *Publications:* A book in Assamese called *Bhagwati Vaishnab Dharma. Address:* La Chaumier, Shillong.

DAS, Dr. Mono Mohon, M.B.B.S., Dy. Minister for Scientific Research and Cultural Affairs, Govt. of India, since Apr. 1957. *b.* 1910; *Educ.:* Graduated from Calcutta Medical College. Was member, Forward Block; House Physician, Calcutta Medical Coll. Hospitals for one year; served in Calcutta Corporation for several years; was member, Constituent Assembly; was Parliamentary Secretary and Dy. Education Minister, Govt. of India. *Recreations:* Gardening. *Address:* 15-3, Nirode Bihary Mallick Road, Calcutta; New Delhi.

DAS, Dr. Nabagopal, B.A. (Calcutta), Ph.D. (Lond.), I.C.S., Special Officer, Anti-Corruption, Govt. of West Bengal. *b.* Feb. 20, 1910; *Educ.* Presidency Coll., Calcutta Univ., 1926-30; First class first in Economics, London School of Economics and Political Science, Univ. of London, 1930-32 and again in 1937; Bireswar Mitter Gold Medalist and Griffith Memorial Prizeman of Calcutta Univ. Entered I.C.S. by open competition, 1931; assigned to Bengal, 1932; served in the districts and secretariat in Bengal, 1932-39; Agricultural Marketing Adviser to the Govt. of India, Delhi, 1940-43; Director-General of Resettlement and Employment, Govt of India, New Delhi, 1947-52; represented India in three I.L.O. delegations, 1948, 1949 and 1950; Secretary, Irrigation, Govt of W. Bengal, 1952. *Publications: Banking and Industrial Finance in India; Industrial Enterprise in India; Unemployment, Full Employment and India; Studies in Indian Economic Problems; Essays in Applied Economics; The Public Sector;* also four novels and three books of short stories in Bengali. *Recreations:* Photography, Philately. *Club:* Delhi Gymkhana Club, New Delhi. *Address:* C/o Grindlays Bank Ltd., 6, Church Lane, Calcutta 1.

DAS, Dr. Pandit Nilakantha, M.A., D.Lit., Speaker, Orissa Legislative Assembly, Poet and Writer. *b.* August 5, 1884. Appointed by Calcutta University to Postgraduate Professorship in 1920; imprisoned in N.C. movement, was Provincial Congress President, Utkal, several times from 1934-39 and President, Utkal All-Party Conference; elected Chairman, Reception Committee, I.N. Congress, Puri Session, 1931-32; Member, Delhi University Court for 7 years from 1924; Chairman, Orissa University Committee, M.L.A. (Central), 1924-30, again from 1935-45; M.L.A. (Orissa), 1952-57; Pro-Chancellor, Utkal Univ., 1955. *Publications:* Books for children on new lines; Critical Treatises, Essays, etc.; a new thesis on the Gita with commentary; Evolution of Oriya Literature; Pres., Oriya Sahitya Akademi, since 1952. *Address:* Village and P.O. Sriramchandrapur, Dist. Puri.

DAS, Omeo Kumar, B.A., Ex-Minister for Labour and Education, Govt. of Assam. *b.* 1896, at Tezpur, *Educ.:* Govt. High School, Tezpur; passed B.A. from Scottish Churches College. Gave up study in Law to join N.C. Movement, 1921; President, District Congress Cttee., Tezpur, 1921; associated with Assam Students Conference since its inception, 1916; Editor, *Asaamiya* (Weekly); worked in the Editorial Staff of the *Forward* and *Liberty,* 1928 and 1929; imprisoned, 1930, '32 and '41; Security prisoner, 1942-45; Secy.: Congress Election Cttee., 1936-37; Assembly Party, 1937-39; Hony. Prohibition Commissioner, 1939; Editor, *Barhi* (monthly magazine), 1934-36; elected to the Constituent Assembly, 1946; Minister for Supply, Food and Labour, Assam, Oct. 1947; Leader, Indian delegation to I.L.O., Geneva, 1949; elected M.L.A., Assam from Dhekiajuli Constituency, 1952. *Publications:* Published books in Assamese: *Gandhiji's Life; Gandhiji's Epic Fast; Visit to U.K. to attend R.T.C.; India's Public Debt,* etc. *Address:* Dhekiajuli, Darrang, Assam

DAS, Ramnath, B.L., M.L.A., Ex-Minister in-Charge of Forests, Electricity, Government of Assam. *b.* 1910, at Nazira, Assam; *Educ.:* Cotton College, Gauhati; B.A., 1932; B.L., 1935. Elected member of Assam Legislative Assembly, since 1936; joined the Congress Coalition Ministry, 1938; resigned, 1939; P.W.D., Electricity and Transport Minister, Assam, till 1957; returned uncontested from Dergaon Constituency in the 1957 elections. *Address:* Nongthymmai, Shillong, Assam.

DAS, Mr. Justice Sudhansu Kumar, B.A., Judge, Supreme Court, since April 30, 1956. *b.* Sept. 3, 1898; *Educ.:* Collegiate School, Krishnagar (West Bengal), Pres. Coll., Calcutta and London School of Oriental Studies, London. Joined the Indian Civil Service by competitive examination held in London in 1921; served in Bihar and Orissa as Asst. Magistrate & Collector; later as District & Sessions Judge; Registrar, Patna High Court; Secy., Legislative Deptt; Judicial Secretary & Legal Remembrancer, Labour Commissioner, Govt. of Bihar; appointed Officiating Judge, Patna High Court, 1944; Additional Judge, 1945-48, Permanent Judge, 1948-55; Chief Justice Jan. 1955-April 1956. *Address:* Supreme Court, New Delhi.

DAS, Mr. Justice Sudhi Ranjan, Chief Justice of India, since Feb. 1, 1956. *b.* Oct. 1, 1894, *Educ.:* Tagore's School, Santiniketan; Bangabasi College, Calcutta; Univ. College, London; Graduated, Calcutta Univ., 1915; LL.B. (Lond.) 1st class 1st, 1918; called to the Bar, Gray's Inn, 1918. Joined Calcutta Bar, 1919; Lecturer, Univ. Law College; Additional Judge, Calcutta High Court, 1942-44; Puisne Judge, Calcutta High Court, 1944-49; Chief Justice, East Punjab High Court, 1949-50; Judge, Supreme Court of India, 1950-55. *Recreation:* Tennis. *Club:* Calcutta. *Address:* Supreme Court, New Delhi.

DAS Gupta, Bimal, Diploma in Commercial Art, a leading painter; Senior Artist, Govt. of India Photo Litho Press, New Delhi. *b.* Dec. 28, 1917; *Educ.:* Berhampore Collegiate School, Berhampore; Govt. College of Arts and Crafts, Calcutta. Art Editor, *Victory* magazine for one year; Poster Artist in the Recruting Directorate, one year; Commercial Artist in Adarts, Delhi; won several prizes in all India poster competitions; also gold and silver medals as best water colourist in various exhibitions in India; awarded the national prize by the President of India, 1955; paintings exhibited in the principal cities of the world; held one man exhibitions of paintings in Delhi, Sept. 1955, Sept. 1957 and in Calcutta, Feb. 1957; his latest experiments are in unconventional *gouache* paintings; a water colour "Sacks and Sands" preserved in the Hermit Art Gallery, U.S.S.R.; extensively toured India for study. *Recreations:* Yogic Asanas; Touring for study; Study in studio. *Clubs:* All India Fine Arts and Crafts Society, New Delhi; Yogasram, New Delhi. *Address:* 15 A/5, Western Extension Area, Karol Bagh, New Delhi 5.

DAS-GUPTA, Dr. Hirendra Nath, M.Sc. (First-class) (Silver medallist), D.Sc., Professor of Chemistry, Fuels & Metallurgy, Indian School of Mines and Applied Geology, Dhanbad. *b.* November 1904; *Educ.*: The University of Calcutta, Bengal. Worked as a Chemist under Bengal Paint and Varnish Mfg. Co., Dum Dum upto the end of 1929; awarded a Post-graduate Research Scholarship by the Govt. of Bengal for carrying on original investigation on organo-arsenic drugs, 1930-33; Lecturer in Inorganic Technology and Silicates in the Department of Applied Chemistry, Calcutta University, 1933-48; Council Member, Indian Chem. Soc., 1948-50; Ex-Com. Member, C.U., 1942-47. *Publications*: Published numerous papers embodying the results of original investigations in branches like organo-arsenic compounds; glass and silicates; sulphur, phosphorus, analytical chemistry and metallurgy. *Address*: 8/3, Hari Nath De Road, Calcutta 9; Dhanbad.

DAS GUPTA, Dr. Jayanta Kumar, First Class Honours in English, M.A. (Cal.), Ph.D. (London). Principal, Guru Das College, Calcutta, since July 1956. *b.* March 19, 1901; *Educ.*: Calcutta and London Universities. Was for some time on the staff of the School of Oriental Studies, Univ. of London; formerly Principal, Maharaja Coll., Chhatarpur, Madhya Pradesh. Formerly member of the Senate, Executive Council and Faculty of Arts of the Agra University; formerly member of the Central Board of Secondary Education, Ajmer; formerly Principal, Darbar College, Rewa, Madhya Pradesh; selected in 1956 by the West Bengal Public Service Commission to be Principal of one of the Govt. sponsored Colleges in and around Calcutta. *Publications*: *Life and Novels of Bankim Chandra Chatterjee* (University of Calcutta); College and University text-books; author of a large number of research papers contributed to various important journals in India and abroad. *Recreations*: Reading; Newspaper cutting; Fine Arts. *Clubs*: The Indian P.E.N. *Address*: Guru Das College, Calcutta 11; 50 X, Garcha Road, P.O. Ballygunj, Calcutta 19.



DAS GUPTA, Prodosh Kusum, B.A., F.R.S.A. (Lond.), (1955), Curator, National Gallery of Modern Art, New Delhi, since July 1957. *b.* Jan. 10, 1912, in Barca; *Educ.*: B.A. from Scottish Church Coll., Calcutta, 1932, Govt. School of Arts and Crafts, Lucknow, and Madras; received first training in sculpture under Mr H. Roy Chowdhury and Mr. D. P. Roy Chowdhury at Lucknow and Madras awarded Guru Prasanna Ghose Travelling Scholarship by the Calcutta Univ. in 1938 to study sculpture in Royal Academy of Arts, London; L.C.C. Central School of Arts and Crafts, London; Ecole De Grand Schaumere, Paris. Set up a studio in Calcutta, 1940, founded Calcutta Group, 1943; practised as a professional sculptor till 1950; went twice to South East Asian countries, 1950-51; joined Univ. of Baroda as Reader and Head of the Deptt. of Sculpture, 1950; Prof. of Sculpture, Govt. Coll. of Arts and Crafts, Calcutta, 1951-57; represented India in the International Sculpture Competition held in Tate Gallery, London, 1953. *Publications*: *My Sculpture* (1956); many articles on Art in various magazines, periodicals and dailies both in English and *Bengali*. *Recreations*: Music, Sports and Photography. *Address*: Jaipur House, New Delhi.

DAS GUPTA, Mr. Justice Subodh Ranjan, Chief Justice, Mysore High Court, since July 25, 1957. *b.* 1901; *Educ.*: Mitra Institution and later in the Scottish Church Coll., Calcutta; called to the Bar at the Middle Temple, 1928. Began practice at the Calcutta High Court; Judge of the Calcutta High Court, 1949-57. *Address*: High Court of Mysore, Atara Kacheri Building, Bangalore 1.

D'ASPREMONT-LYNDEN, His Excellency Comte Geoffrey-Gobert, Belgian Ambassador in India and also Minister Plenipotentiary to Afghanistan. *b.* Jan. 10, 1904; *Educ.*: Univ. of Louvain (D. en D.-P. Sc.). Attaché of Legation, Belgrade, 1930; with Cabinet de Premier Ministre, 1933; Secy. of Legation, Warsaw, 1937-39; Counsellor of Embassy, Paris, 1944; Chargé d'Affaires, Rome, 1945; Envoy Extraordinary and Min. Plenipotentiary to Lebanon, Syria and Iraq, 1947; Foreign Office in Brussels, Director for U.N. Affairs, 1952; Officer, Ordre de Léopold; Knight Sovereign Military Order of Malta; Médaille de la Résistance (France); Commandeur Ordre du Cèdre du Liban; Commandeur Ordre du Mérite Syrien. *Address*: Belgian Embassy, 24, Hardinge Avenue, New Delhi.

DATAR, Balwant Nagesh, M.A., Minister in the Ministry of Home Affairs, Govt. of India, since Feb. 14, 1956. *b.* Aug. 13, 1894, at Tasgaon, Satara; *Educ.*: Deccan Coll., Poona; Baroda Coll., Baroda. Member: Senate and Faculty of Arts, Bombay Univ., 1937-42; Board of Studies in Kannada language, 1939-42; Part-time Prof. of Law, R. L. Law Coll., Belgaum, 1939-52; Dean, Faculty of Law, Karnatak Univ., 1950-51; member: Syndicate, Senate and Academic Council, Karnatak Univ., 1947-52; Karnatak P.C.C.; Separation of the Executive from the Judiciary Cttee., Bombay, 1947; Bombay Univ. Reorganisation Cttee., 1949; Karnatak Univ. Cttee., 1948; Pres., City Congress Cttee., Belgaum; elected to the Lok Sabha from Belgaum North Constituency in the general elections, 1952 and again in 1957; Deputy Minister for Home Affairs, 1952-56. *Address*: Ramana Niwas, Kadolkar Street, Belgaum.

DATAR SINGH, Sardar Bahadur Sir, F.R.S.A., M.D.D., Development Adviser for Kashmir and Addl. Secy., Ministry of Home Affairs, Govt. of India; formerly Production Commissioner & Addl. Secy., Govt. of India, Ministry of Food & Agriculture, New Delhi; Formerly Cattle Utilisation Adviser to Govt. of India & Vice-Chairman, Indian Council of Agricultural Research; Pres., Indian Central Cotton, Jute, Sugarcane, Lac Cess, Arecanut, Tobacco, Coconut and Oilseeds Cttees., 1946-52; Vice-Pres., All India Cattle Show Society; Member, Export Advisory Council, Food Advisory Council and Selection Cttee. for Armed Forces; Chairman, Cattle Preservation and Development Cttee.; Pioneer in scientific breeding and dairy farming in India; represented India at International Dairy Congress, Copenhagen, 1931 and Berlin, 1937; Non-official Adviser to Govt. of India for Trade Negotiations between British Govt. and Govt. of India, 1937; led Indian Industrial Delegation to Australia and New Zealand, 1945; Indian Delegate to International Wheat Conference, London, 1947, and to Australia for Food Purchase and to Food & Agriculture Organization Conference, U.S.A., 1948; Leader of Indian Delegation, Food & Agriculture Organization, S.E. Regional Animal Breeding Conference (Conference Pres.) and Chairman, International Standardization Organization, Technical Cttee., New Delhi, 1950; Indian Delegation to F.A.O. Conference, Rome, 1951; and F.A.O. Co-ordinating Cttee. and Council Meetings, 1952, 1953, 1954 and 1955; Leader, Indian Delegation to International Dairy Congress, Hague, 1953. *Club*: Gymkhana, New Delhi. *Address*: 3, Tughlak Road, New Delhi.

DATTA-MAJUMDER, Dr. Nabendu, M.A. (Anthropology), Ph.D. (Anthropology), Fellow of the American Anthropological Assoc. and Member of Sigma Xi, U.S.A., Director of Anthropology & Anthropological Adviser to the Govt. of India, since Aug. 1954. *b.* Feb. 8, 1907; *Educ.*: Calcutta Univ., London and Cambridge Univs. (England), and Northwestern Univ. (U.S.A.). Lecturer, Northwestern Univ., U.S.A., 1946; Professor of Indian History and Culture, The American Univ., Washington, D.C., U.S.A., 1947-48; appointed to the Indian Administrative Service, May 1949; Addl. Dist. Magistrate, Keonjhar Dist., Orissa, 1949-50; Dist. Magistrate, Sundargarh, Baudh and Phulbhani Districts, Orissa, 1950-52; Dy. Secy. in charge of Commerce and Labour Deptts., Orissa, 1952-53, Secy. to the Tribal Research Bureau, Govt. of Orissa, 1953; Joint Secy. Backward Classes Commission, Govt. of India, Dec. 1953-Aug. 1954. *Publications*: About 100 pages in foreign and Indian Journals—Some of them being Cranial capacity; Comparative data on the techniques of Macdonell and Breitinger, in American Journal of Physical Anthropology; Notes on "Village Notes from Bengal," in American Anthropologist; Rural Survey in Travancore, Science and Culture; Anthropology at Cambridge and London, Calcutta Review; Origin and Development of World War II (in Bengali), Krishak, Puja Number; Aboriginal Peoples of the Andaman & Nicobar Islands, Vanyajati, Vol. 3; The Tribal Problem; The Adivasis, (Publications Division, Government of India); *Monograph*. The Santal: A Study in Culture Change, published as Memoir No. 2 of the Deptt. of Anthropology, Govt. of India, 1956. *Recreations*: Travelling, Mountaineering and Swimming. *Clubs*: National Sports Club of India. *Address*: "Museum House," 1, Sudder Street, Calcutta 13.

DATTA, Sisir Kumar, B.A. (Hons.) (Calcutta), I.C.S., Chief Secy. to Govt. of Assam. *b.* Nov. 27, 1911; *Educ.*: Presidency Coll., Calcutta; London School of Economics and Trinity Coll., Cambridge. Recruited to the I.C.S. in London, 1935; appointed Asstt. Commr., Assam, Feb. 1937; served in various capacities as S.D.O., Deputy Commr., Director of Industries, Provincial Textile Commr. and Secy. to Govt., Assam, till 1949, Deputy Secy. to Govt. of India, Ministries of Food, Relief & Rehabilitation and Commerce & Industries, till 1951; attended course at the Administrative Staff Coll., Henley-on-Thames, U.K., 1956. *Recreations*: Tennis, Bridge, Music, Amateur Dramaticals. *Clubs*: Delhi Gymkhana; Shillong Club. *Address*: Lumpyngad, Shillong, Assam.

DAVE, Shantilal Somnath, Post Diploma in Painting, Artist. *b.* Sept. 25, 1931. *Educ.*: Premier High School, Ahmedabad; Fine Arts Coll., Baroda; took post-diploma in painting 1956. Awarded Lalitkala Akadami Prize and Governor's Prize Bombay Art Society 1956, for paintings. *Recreations*: Music, Travelling. *Address*: Fine Arts College, Baroda.

DAYAL, R.E. Rajeshwar, M.A., I.C.S., Indian High Commissioner in Pakistan, since July 1958. *b.* Aug. 12, 1909, at Naini Tal, U.P. *Educ.*: Naini Tal; Allahabad and Oxford Univs.; M.A. in History; had a brilliant academic career. Entered I.C.S. by open competition, 1933; was Magistrate and Collector in U.P.; represented U.P. on first Govt. of India Foodgrains Policy Commission, 1943; Home Secy., U.P., 1946-48; was member, U.P. Police Reorganisation Commission; Counsellor Minister, Embassy of India, Moscow, 1948; Charge d'Affaires, Aug. 1948-Sept. 1949; Special Commissioner to Govt. of India to organise relief work in Assam, 1950; Alternate Representative of India to Security Council with rank of Minister, 1950; handled several issues, including Suez Canal Question, Kashmir case, etc.; was Chairman, Cttee. of 12 on Disarmament; Indian Delegate to 5th, 6th, 7th and 8th Sessions of the U.N. General Assembly; Permanent Representative of India to the U.N., Jan. 1952-Sept. 1954; has negotiated on several occasions with Dr. Graham on the Kashmir Question; handled many important items such as the Question of Indians in South Africa, the Question of Racial Discrimination in South Africa, etc. In the

U.N. General Assembly; was founder member, Asian-African group of countries; was one of its leading members; spoke extensively at public meetings of various organisations in the U.S.; and appeared frequently on the radio and television; Ambassador in Yugoslavia, 1954-58; Envoy Extr. & Min. Plenipot. to Rumania, Bulgaria, 1955-58; Indian Ambassador to Greece, Jan. to June 1958; Indian Representative in the U. N. Observation team for Lebanon, 1958. *Recreations:* Riding, tennis, hunting and painting. *Address:* C/o External Affairs Ministry, Govt. of India, New Delhi.

DE, Biren, Artist. *b.* Oct. 8, 1926; *Educ.:* Studied up to Intermediate in Science; later at Calcutta Govt. Coll. of Arts and Crafts, 1944-49. Practised as free lance artist; executed many commissioned portraits of distinguished people and Mural decoration at convocation hall, Delhi Univ.; held several one-man shows; is now connected with art school, Delhi polytechnic; participated in several exhibitions abroad, e.g. Salon De Mai, 1951, etc. *Recreations:* Angling, Music, Drama, Travelling. *Address:* C/o Art Deptt., Delhi Polytechnic, Delhi 6; *Residence:* 1, Ramkishore Road, Civil Lines, Delhi.

DE, Provas Chandra, B.Sc., C.P.E. (Glasgow), General Manager, National Instruments Factory (P.) Ltd., Calcutta. *b.* Sept. 24, 1901; *Educ.:* Hare School and Presidency Coll., Calcutta; Univ. of Glasgow, U.K. Was in the Indian Railway Service of Engineers, Eastern Railway; retired as Deputy General Manager (Personnel). *Recreations:* Interested in Scout movement. *Address:* National Instruments Factory (P.) Ltd., 15, Wood Street, Calcutta 16.

DE, Sushil Kumar, M.A., Premchand Roychand Scholar (Calcutta Univ.), D. Litt. (London Univ.), Hon. F.R.A.S. (England) (1954), Sarojini Gold Medalist for researches in Bengali (Calcutta Univ.), Professor, Jadavpur University; Member, Sanskrit Commission, Govt. of India. *b.* 1891; *Educ.:* Presidency Coll., Calcutta; School of Oriental Studies, London; under Prof. H. Jacobi at Bonn, Germany. Lecturer, Calcutta Univ till 1922, Prof. and Head of the Dept. of Sanskrit, Dacca Univ., 1922-47; General Pres., All-India Oriental Conference, Bombay Session, 1949; Hon. Pres., Vangiya Sahitya Parishad, 1950; Professor of Sanskrit, Research Deptt., Sanskrit Coll., Calcutta, 1951-56. *Publications: Bengali Literature in the 19th century* (1919); *History of Sanskrit Poetics* (2 vols., 1923, 1925); *Early History of the Vaisnava Faith and Movement in Bengal* (1942); *History of Sanskrit Kavya Literature* (1947); Joint Editor of the BORI edition of the Mahabharata, Poona (Udyoga (1940)); *Bengali Proverbs* (1953) etc; and more than one hundred articles and monographs in various Oriental Journals, European and Indian, etc. *Address:* 19-A, Chaudhuri Lane, Calcutta 4.

DEEN YAR JUNG BAHADUR, Nawab (Alladdin Ahmed), Chairman, Managing Committee, H.E.H. the Nizam's Private Estate.



b. Sept. 26, 1893; *Educ.:* Nizam Coll., Hyderabad; underwent revenue training in the Districts of Madras Presidency. Entered service as Deputy Collector; served as Collector, Civil Judge, City Magistrate, Director, Ecclesiastical Deptt., Secy., Home Deptt., Commissioner of Police and Director-General of Police; first Indian in Hyderabad who was appointed as Director-General of City, District and Railway Police; after the Police Action, was taken in General Chaudhuri's Cabinet and was in-charge of Police and Revenue portfolios; Pres., All-India Dargah Cttee., Ajmer, 1941-44; recipient of three medals including the Asafia Gold Medal in recognition of his meritorious services. *Address:* Asia Bagh, Hyderabad (2).

DEHEJIA, Venilal Tribhovandas, B.Sc., I.C.S., J.P., Special Secretary to Government, Political and Services Department, Bombay. *b.* July 23, 1908; *Educ.:* Wilson College, Bombay; Royal College of Science, London; awarded Pragji Thackersey Mulji prize for standing first in the University in B.Sc.; Dakshina Fellow, Wilson Coll. Joined the Indian Civil Service, 1931; was Collector of Ahmednagar, Jacobabad, Kaira, Dharwar and Poona; reorganised Excise Administration in Sind; served in the Central Secretariat and in Sind and Bombay Secretariats; was Chief Secretary, Sind and Saurashtra; ex-Special Commissioner, Baroda; Secy. Home Department, Bombay, 1947-52; Finance Deptt., 1952-56; Special Secy., Political & Services Deptt., 1956-57. *Clubs:* Willingdon; W I A A. Club, Bombay; Delhi Gymkhana. *Recreations:* Tennis and Chess. *Address:* 9, Mount Pleasant Road, Bombay 6.

DEKA, Mr. Justice Holiram, M A., LL.B. (Calcutta), Judge, Assam High Court, since June 5, 1951. *b.* June, 1901; *Educ.:* Passed with honours in Mathematics from Cotton Coll., Gauhati, Assam, 1922; M.A. in Modern Languages from Calcutta Univ., 1925; B.L., Cal. Univ., 1926. Enrolled as Pleader, Gauhati Bar, 1927, and as Advocate (Calcutta High Court), 1931; Member, Revenue Tribunal, Assam, 1946-48; Registrar, Assam High Court, 1948-49; District and Sessions Judge, 1949-51; is a writer, critic and essayist. *Publications:* Short stories, essays and an epistolary novel, in Assamese. *Recreation:* Literary works. *Address:* Gauhati, Assam.

DEO, Kumar Prafulla Chandra Bhanj, M.A., Fellow of the Royal Anthropological Institute (1935), M P. (Rajya Sabha), Political and Social Worker. *b.* May 23, 1909; *Educ.:* Rajkumar Coll., Raipur; Magdalene Coll., Cambridge. Trained in all Departments of Administration of Bastar State; banished abroad for anti-British propaganda for ten years; served in India League; Hon Special Officer, Backward Classes Welfare Dept., Govt. of Orissa for one year; elected Pres., All-India Ganatantra Parishad till 1954; Fellow, Utkal Univ Senate twice; Pres., Ganatantra Parishad, Orissa State, April 1952; is Pres., Ganatantra Parishad, Mayurbhanj District Organisation; Fellow of Tribal and Rural Welfare Department, Govt of Orissa. *Publications:* Several articles in leading Indian journals and newspapers; *Financial Position of the Government of India; Three years of Parliament. Recreations:* Research in Vedic philosophy, Yoga and Tantras; Sanskrit poetry-composition and writing in Hindi, Oriya and English. *Address:* Bhaswati Bhavan, Nagarpada, P.O. Baripada, Mayurbhanj, Orissa.

DEO, H. H. Maharaja Rajendra Narayan Singh, K.C.I.E., M.L.A. (Orissa); Leader of the Opposition, Orissa Leg. Assembly. *b.* March 31, 1912; *Educ.:* Mayo Coll., Ajmer; St. Columba's Coll., Hazaribagh. Ruler of Patna State, 1933-47; was one of the first Rulers to sign the Merger Agreement; member, Chamber of Princes; Vice-Pres., Council of Rulers of E.S.U. and Chairman, Eastern States Board of Forestry and Agriculogy; member, Eastern States Post-War Reconstruction Cttee., and Standing Cttee. of Eastern States Union; Chief Patron, fifth All-India Cultural Unity Conference; Patron of several cultural, literary and research societies; as a Ruler provided improved Social amenities, removed untouchability and bar on temple entry, established Colleges and Schools; Member, Lok Sabha, 1952-57; Pres., Ganatantra Parishad 1950-52 and 1956-57; Utkal Sammilani, 1953-57. *Recreations:* Photography, Cinematography, Sports and Games. *Clubs:* National Sports Club, Ranchi Club, Sambalpur Club. *Address:* Sailashree Palace P.O. Bolangir (Orissa); 30, Sarojini Naidu Marg, Lucknow.

DEO, Rama Chandra Mardaraj, M L.A., Rajah Bahadur of Khallikote, Minister for River Valley Development, New Capital, Construction, Vigilance and Administrative Tribunal, Orissa. *b.* Jan. 1900, at Rambha (Ganjam Dt.); *Educ.:* completed B.A. course, Madras Christian Coll. Estate handed to him on becoming a major, 1921, nominated by the Madras Govt as Pres., Dist. Board, Ganjam, 1922; elected after the 1st term of 3 years; elected unopposed as Pres. for four more terms; member, Madras Leg Council, 1924-36; was a delegate to the Third Round Table Conference in London, 1932; took a prominent part in the deliberations regarding Indian Constitutional Reforms, was largely responsible for the declaration by His Majesty's Government that Orissa shall be created a separate Province; was member, Orissa Leg. Assembly, till 1945; was member representing Orissa, National Defence Council during the war; Officer, Indian Territorial Force 1925-30; member, Indian Central Assembly, 1945-50; served in the Indian Finance Cttee and several other Cttes.; elected M.L.A., Orissa, in the 1952 General Elections, member, Orissa Estimates Cttee.; unanimously elected by the Orissa State Assembly as member Eastern Railway Consultative Cttee; elected again M.L.A, Orissa in the 1957 General Elections on Congress ticket defeating a P.S.P. leader by a big majority; is a keen sportsman and a good rider; knows many languages and talks fluently Tamil and Telugu. *Address:* Bhubaneswar, Orissa

DESAI, Chandulal Chunilal, B.A. (Cantab.), C.I.E. (1945), I.C.S. (Retd.), Ex High Commissioner for India in Pakistan. *b.* April 27, 1900; *Educ.:* Nadiad High School; Elphinstone Coll., Bombay; Cambridge Univ. Joined the I.C.S., 1923; was posted as Asstt. Commr., C.P. and Berar; for some time was Under-Secy. to Govt.; became Dy. Commr., Buldana District, 1927; transferred to the Government of India as Deputy Director-General of Supply, 1942, Controller-General of Civil Supplies, 1943-45, was member-secy of the Indian Tariff Board and later its Chairman, 1945-47; was Addl. Secy., Govt. of India, Ministry of States, 1947-48, visited Australia as leader of the Indian Delegation for the ECAFE, also Geneva as leader of the Indian Delegation to the Conference of General Agreement on Tariffs and Trade, 1948; Secy., Ministry of Commerce, Feb. 1948-Jan. 1951; Secy., Ministry of Works, Housing and Supply and Ministry of Production, 1951-53; Leader of the Indian Delegation to negotiate various trade treaties with Pakistan, Afghanistan, Switzerland, Hungary, Czechoslovakia, Australia and Ceylon, 1948-51; Leader of the Indian Steel Delegation to England and U.S.A. to negotiate loans for the Indian Govt. schemes for the expansion of steel industry in India; High Commissioner for India in Ceylon, March 1953-54; High Commissioner in Pakistan, 1955-58. *Publications:* A *Compilation on Nazul. Address:* C/o Grindlay's Bank Ltd., Bombay.

DESAI, Dajiba Balavantrao, B.A. (Hons.), LL.B., General Secretary, Peasants and Workers Party, since 1955. *Educ.:* Primary Education at Gunji, Nanadi and Ichgaon, secondary education at Marathimandal High School and Gilginchi Artal High School, Belgaum; Lingaraj Coll., Belgaum, Rajaram Coll., Kolhapur; Raja Lakhmagauda Law Coll., Belgaum. Has been a political and social worker; at the secondary education stage began conducting adult education night classes in villages; a prominent worker in Kurundwad Senior State Rayat Sabha; Secy., Action Cttee., Deccan States, 1946-47; was a Congress worker in the State; joined Peasants and Workers Party, 1948; member: Central Cttee. of P. & W. Party, since inception; Political Cttee. of P. & W. Party; elected General Secy., P. & W. Party in Latur Conference, 1955; detained in prison, April 1956; released, Oct. 1956; member: Secretariat of Samyukta Maharashtra Election Cttee.; Action Cttee. of Maharashtra Ekikaran Samiti

Belgaum. *Publications :* Marathi : *Jamin Konachi ? Kasel Tyachi Ki Vikat Ghenaryach. Address :* 3360/6, College Road, Belgaum.

DESAI, Doulatrao Shripatrao, B.A., LL.B., Pleader, Minister, Public Works Deptt., Govt. of Bombay, since 1957 ; *b.* March 17, 1910, at Marali near Patan, Dist. North Satara ; *Educ. :* Rajaram High School, Rajaram Coll. and Sykes Law Coll., Kolhapur. Commenced practice at Karad and Patan, 1939 ; twice elected Pres., Rural Development Board, Taluka Patan, 1940 ; Pres., Dist Local Board, Satara, 1941-52 ; member : Provincial Commodity Board since its foundation ; Provincial Education Board ; Provincial Physical Education Board ; Soldiers', Sailors, and Airmen's Board, Satara (N) ; Maharashtra Pradesh Social Education Board ; Bombay State Road Transport Corporation, 1955-57 ; Pres ; Central Advisory Cttee. of Regulated Markets in Maharashtra ; Gen. Secy., P.C.C., 1952-57 ; Chief Whip, Congress Leg. Party ; elected M.L.A., Bombay from Patan Constituency, 1952 and 1957. *Address :* 'Meghdut', Narayan Dabholkar Road, Malabar Hill, Bombay.

DESAI, Hitendra Kanaiyalal B.A., LL.B., Minister for Education, Bombay State. *b.* Aug. 9, 1915, at Surat ; *Educ. :* Surat and Bombay ; while at school, left studies for a year and joined the C. D. Movement, 1930 ; took leading part in debates, sports and other students' activities ; graduated in 1937 with highest number of marks in Econ. Hons. at the Bombay Univ. and obtained "Cobden Club Medal" ; was Fellow for a year ; passed LL.B., 1939. Started practising law and made a mark in legal profession ; courted jail during freedom movement ; elected member, Surat Borough Municipality, 1946 ; Chairman : Law Cttee., 1946-49 ; Standing Cttee. since 1949 ; Vice-Pres. and Chairman, Standing Cttee., since 1952 ; member, Senate, Gujarat Univ. and Rural Advisory Cttee. of All India Radio ; associated with several other institutions, takes active interest in the students movement and has worked hard in the social sphere ; M.L.A., Bombay from the Mangrol Constituency in the 1957 general elections *Publications :* Several popular booklets on political, economic and social topics. *Address :* Sachivalaya, Bombay.

DESAI, Mr. Justice Kantilal Thakordas, B.A. (Hons.), LL.B., Judge, High Court, Bombay since 1956. *b.* May 23, 1903 ; *Educ. :* New High School, Bombay ; St. Xavier's High School, Bombay ; Elphinstone Coll. Bombay ; Wilson Coll., Bombay ; Govt. Law Coll., Bombay ; passed the Articled Clerks Examination, 1928, passed the Advocate (O.S.) Exam 1930. Practised as an Advocate on the Original Side of the Bombay High Court, 1930-56. *Clubs :* Willingdon Sports Club, Bombay. *Address :* "Rylstone", 8-B, Carmichael Road, Bombay 26.

DESAI, Khandubhai Kasanji, Snatak (Gujarat Vidyapith, Ahmedabad), Ex-Minister for Labour, Govt. of India. *b.* Oct. 23, 1898 ; *Educ. :* Bulsar Bai Avabai High School ; Wilson Coll., Bombay ; had a brilliant academic career Joined the N. C. Movement, 1920 ; was for some time a teacher in the Gujarat Vidyapith ; took up trade union work in right earnest ; began as Asstt. Secy., Textile Labour Assoc., Ahmedabad, became its Gen. Secy. ; established a net-work of unions throughout Gujarat and assisted the labour movement in Indore and other centres ; elected M.L.A., Bombay, 1937 ; as member, Textile Labour Enquiry Cttee., assisted in the first legislation of Industrial Disputes in Bombay Assembly ; elected to the Constituent Assembly, 1946 ; since then was an active M.P. ; was Vice-Chairman, B.P.C.C. ; member, A.I.C.C. and Congress Working Cttee. for several years : as M.P. served on various cttees. such as Railway Grainshop Enquiry Cttee., D.A. Merger Cttee. ; has been associated with numerous cttees. in the Ministries of Commerce and Industry, Railway and Labour ; was member, Fiscal Commission ; was Dir., Industrial Finance Corpn. ; member, Employees State Insurance Corpn. ; led the workers' delegation to I.L.O., 1950 ; was mainly responsible for establishing the I.N.T.U.C., 1947 ; elected its first Gen. Secy. ; was its Pres. successively for three years ; attended the Asia Regional Conference of the I.L.O., Tokyo, 1954 ; visited China ; is Chairman, Unifying Cttee. of all Pradesh Congress Cttees. for the bilingual State of Bombay. *Address :* Textile Labour Assocn., Gandhi Majoor Sevalaya, Bhadra, Ahmedabad.

DESAI, Manilal Jagdish, B.A., LL.B. (Bombay), C.I.E. (1946), I.C.S., Secretary, Commonwealth Affairs, Ministry of External Affairs, since Dec. 12, 1955. *b.* January 4, 1904 ; *Educ. :* Gujarat College, Ahmedabad ; Wilson College, Bombay ; School of Economics, London. Asstt. Collector and Collector in Bombay State, 1928-35 ; Director of Land Records and Settlement Commissioner, 1936-38 and 1940-42 ; Deputy Secy., Revenue Dept., Govt. of Bombay, 1938-39 ; Secy. to Govt. of Bombay, Revenue and Reconstruction Depts., 1942-46 ; Establishment Officer to the Govt. of India and Principal, Indian Administrative Service Training School, 1947-48 ; one of the Advisers to the Indian Delegation to the U.N. at the 1948 Session in Paris ; Commercial Adviser to the High Commissioner for India in London, 1948-51 ; Envoy Extraordinary and Minister Plenipotentiary for India in Sweden, Finland and Denmark, 1951-53 ; Secretary, Commonwealth Affairs, Ministry of External Affairs, 1953 ; Acting High Commissioner for India in U.K. April to Aug. 1954 ; India's Representative on the International Commission for Supervision and Control in Viet Nam, 1954-55. *Recreations :* Tennis and Riding. *Clubs :* Delhi Gymkhana Ltd. and Cricket Club of India Ltd. *Address :* Ministry of External Affairs, New Delhi.

DESAI, Mr. Justice Manilal Chunilal, B.A. (Tripos) (Cantab.), Judge, High Court of Judicature, Allahabad, since Dec. 12, 1948. *b.* Feb. 25, 1904 ; *Educ. :* Govt. High School, Nadiad ; Elphinstone Coll., Bombay ; Baroda Coll., Baroda ; Cambridge Univ., Asstt. and Jt. Magistrate, 1926-33 ; Collector and Dt. Magistrate, 1933-42 ; Dt. and Sessions Judge, 1943-48. *Recreations :* Golf, Bridge, Chess, Badminton. *Address :* 31, Thornhill Road, Allahabad.

DESAI, Morarji Ranchhodji, B.A., Minister for Finance, Govt. of India, since March 22, 1958. *b.* 29th Feb. 1896, at Bhadeli, Dist. ; *Educ. :* Bai Avabai High School at Bulsar and Wilson College, Bombay ; took his B.A. with 1st Class Hons., 1917 ; was appointed Dakshina Fellow in the Wilson College ; was a Viceroy's Commissioned Officer in the U.T.C. ; was appointed as a direct recruit in the Provincial Civil Service, Bombay, 1918 ; resigned in 1930 during the C. D. Movement ; became an active Congress worker from then ; suffered imprisonment thrice between 1930-1934 ; Secretary, P.C.C., Gujarat, 1931-37 ; member, A.I.C.C., since 1931 ; was elected to the Bombay Legislative Assembly from the Surat Dist. Rural Constituency in 1937 ; Minister for Revenue and Forests, Government of Bombay, 1937-39 ; participated in the individual C. D. Movement in 1940 ; was detained in jail from Aug. 1942 to 1945 ; was elected to the Bombay Legislative Assembly easily in 1946 ; Minister (Home and Revenue), Govt. of Bombay, 1946-52 ; unanimously elected Leader of the Congress Legislature Party, April 20, 1952 ; Chief Minister, Bombay, April 1952-Oct. 1956 ; Minister for Commerce & Industry, Govt. of India, Nov. 14, 1956-March 29, 1958 ; is Treasurer, A.I.C.C. ; has been mainly responsible for introducing important reforms in the land and revenue administration ; is an ardent advocate of secularism and sarvodaya. *Address :* 1, Willingdon Crescent, New Delhi.



DESAI, Mr. Justice Sunderlal Trikamlal, B.A., LL.B., Bar-at-Law, Judge, High Court, Bombay, since 1952. *b.* Jan. 26, 1901 *Educ. :* Elphinstone High School and Elphinstone Coll., Bombay. Practised in the Bombay High Court, 1927-52. *Publication : Law of Partnership. Recreation :* Golf. *Club :* Willingdon Club, Bombay. *Address :* 4-A, Mafatlal Park, Warden Road, Bombay.

DESHMUKH, Chintaman Dwarkanath, B.A. (Cantab.), Chairman, University Grant Commission, since Aug. 1956 ; Chairman National Book Trust, since August 1957 *b.* Jan. 14, 1890 ; *Educ. :* Elphinstone Coll., Bombay and Jesus Coll., Cambridge Natural Science Tripos, Part I, B.A., Cambridge in 1917. Entered the I.C.S., Nov. 1919 served in the C.P. & Berar as Asstt. Commsnr., 1920-24 ; Under-Secy. to Govt., 1924-25 ; Dy. Commsnr. and Settlement Officer, 1926-30 ; Jt. Secy., 2nd R.T.C., 1931 ; Revenue Secy., C.P. Govt., 1932-33 ; Financial Secy., C.P. and Berar, 1933-39 ; Jt. Secy., Govt. of India, Dept. of Education, Health and Lands, May-July 1939 ; Officer on Special Duty, Finance Dept., Govt. of India and Custodian of Enemy Property, 1939 ; secy. to the Central Board of the Reserve Bank of India, 1939-41 ; Dy. Governor, Reserve Bank of India, Dec. 1941-Aug. 1943 ; Governor, Reserve Bank of India, 1943-49 ; India's delegate to the World Monetary Conference, Bretton Woods 1944 ; Governor for India on International Monetary Fund and International Bank for Reconstruction and Development from 1946 ; Financial Representative of Govt. of India in Europe and America, 1944-47 ; Pres., Indian Statistical Institute, 1949 ; Chairman, Indian Public Schools Society, 1950 ; member, Planning Commsn., March 1950 ; Chairman, International Monetary Fund and International Bank for Reconstruction and Development, Sept. 1950-M.P. and Minister of Finance, Govt. of India June 1950-July 1956. *Address :* C/o Ministry of Education, Govt. of India, New Delhi.

DESHMUKH, Dr. Panjabrao S., M.A. (Lond.), D. Phil (Oxon.), Barrister-at-Law, Minister for Co-operation, Government of India since April 1957. *b.* Dec. 1898 ; *Educ.* Fergusson Coll., Poona ; M.A. (Hons.), Edinburgh, London Research Scholar, 1923-26, called to the Bar 1925 Life Pres., Shivaji Education Society since 1937 ; member, M.P. Leg. Council, 1930 ; Minister (Education, P.W.D. and Agriculture), 1930-34, introduced important bills like Hindu Religious Endowments Bill, etc. sponsored Debt Conciliation Act, 1934, etc. member, Ex-Cttee., Congress Parliamentary Party, 1950-51, 1952-53 ; member, Indian Constituent Assembly ; elected Pres., All India Federation of Backward Classes, since 1956 ; Chairman, State Trading Co., and Cotton Marketing Committee ; Delegate to F.A.O. Conference at Rome, Nov. 1951 ; re-elected to Parliament, 1952 ; Member Planning Sub-Cttee. of the C.A.B. of Education, 1952 ; elected Fellow, Royal Society of Arts of London ; Pres., All-India Marathi Education Conference (36th session), 1953 ; Leader, Indian Delegation F.A.O. Conference, Rome, 1953 ; F.A.O. Regional Conference on Co-operatives, Ceylon 1954 ; International Rice Conference Committee, Tokyo, 1954 ; Pres., Farmers' Forum, India 1955 ; elected Hon. Pres., IVth World Forestry Congress, Dehra Dun, 1954 ; visited Norway at the invitation of India-Foundet to study fisheries, June 1955 ; also visited other Western European countries ; Leader, Indian delegation to study the activities of Soviet Co-operative Organization, 1956 ; elected Chairman, International Rice Commission, 1956 Minister for Agriculture, Government of India 1952-57. *Publications : Origin and Development of Religion in Vedic Literature. Address :* New Delhi.

DESHMUKH, Ramrao Madhavrao, M.A., LL.B. (Cantab.), Bar-at-Law, M.P. *b.* Nov. 25, 1[illegible] *Educ. :* Graduated at Cambridge, 1910 ; was called to the Bar, 1916 ; Pres., Berar

Maratha Conference, 1917; M.L.C., Nagpur Council, 1920-30 except for 1926; M.L.A., 1926; first elected Chairman, Amraoti District Council, 1925; member, A.-I.C.C., 1920-25, President, Maharastra Conference, Satara, 1925; Minister, M.P., 1927-28; also member, A.-I.C.C.; formed Second Nationalist Ministry in M.P., 1929; resigned Ministry, 1930; Pres., Democratic Swaraj Party Meeting, Bombay, 1933; member, Hindu Sabha Deputation to England and Deputation for separation of Berar, 1933; Adviser to Raja of Sandur, 1935-36; M.L.A. (M.P.), 1937, and Minister, Dr. Khare's Ministry; resigned with Dr. Khare, 1938; Political Minister, Dewas (Jr.) State and Secretary, C.I. and other States group, 1939-41; elected to Chamber of Princes Ministers' Cttee., 1941; Finance Minister, Gwalior Govt., 1941-44; member, National Defence Council, 1940-44; High Commissioner for India in South Africa, 1945-47; Member of Delegation to U.N.O. General Assembly, 1946; Prime Minister and Adviser to Raj Pramukh of Vindhya Pradesh, Rewa, 1947-48; resigned in July 1948; Dir., Reserve Bank of India, 1949-52; elected to the Rajya Sabha, 1952 *Address:* Morsi Road, Amravati.

DESHPANDE, Atmaram Raoji, B.A. (Hons.), LL.B., Marathi Poet; Director, National Fundamental Education Centre, Ministry of Education & Scientific Research, since 1956. *b.* Sept. 11, 1901. *Educ.:* Hindu High School, Amravati; Fergusson Coll., Poona; took B.A. (Hons.), 1923 and LL.B. 1925. Lawyer (1925-28); Civil Judge & District & Sessions Judge (1929-47), Deputy Director of Public Instruction in Charge of Social Education, Nagpur (1948-52); Special Officer, Social Education Community Projects Administration (1952-56); UNESCO Fellowship (1956). *Publications:* Two collections of poems besides two other poems, several articles on Literary Criticism & Social Education. *Recreations:* Art, Archaeology & Literature. *Address:* Constitution House, Curzon Road, New Delhi; 88, West Park, Dhantoli, Nagpur 1.

DESHPANDE, Vishnu Ghanashyam, M.A., Morris Memorial Fellow of Nagpur Univ. (1934-37), Sir Arthur Blenner Hasett Medallist (Nagpur Univ.), was General Secretary, Hindu Mahasabha *b.* Nov. 17, 1912. *Educ.:* Sakharkherda, Mehkar, Khamgaon and Nagpur; took M.A. degree, 1934. Was Prof., Morris Coll. and Hislop Coll., Nagpur, joined the Hindu Mahasabha, 1939, courted jail in Hyderabad Satyagraha, elected Gen. Secy., M.P. Hindu Mahasabha, 1939; elected Gen. Secy., All India Hindu Mahasabha, 1940, since then has devoted his life for Hindu Mahyasabha, toured all over India for organising Hindusabhas in different parts of the country, Imprisoned several times in connection with his activities in the Hindu Mahasabha, 1939, '41, '42, '47, etc.; imprisoned 5 times during Jammu Movement, 1953; nominated member, Nagpur Univ. Board, 1944; was elected to the Lok Sabha from two constituencies, 1952; was the Chief Whip of the National Democratic Party in Lok Sabha; was Editor, *Adesh* and *Hindu Outlook*. *Address:* C/o Hindu Mahasabha Bhavan, Reading Road, New Delhi.

DEVARAJULU, G. K., a leading Industrialist. *b.* Dec. 7, 1912. Managing Agent: The Lakshmi Mills Co., Ltd., Coimbatore; The Coimbatore Cotton Mills Ltd.; Dir.: The South India Viscose Ltd.; The Rajalakshmi Mills Ltd.; The Premier Mills (CBE) Ltd.; The Krishna Mills (Private) Ltd.; Sivananda Mills Ltd.; The Lakshmi Cotton Press (Private) Ltd.; The Travancore Bank Ltd.; The Central Studios (Private) Ltd.; Sri Akkamamba Textiles Ltd.; Vijayeswari Textiles Ltd.; Sri Lakshminarayana Textiles Ltd.; Ravindra Mills Ltd.; Kothari Textiles Ltd.; Chairman, South India Textile Research Assoc.; member: Cotton Textile Loan Advisory Cttee. of N.I.D.C. Private Ltd.; State Cotton Cttee., Regional Board of Employees' State Insurance Corporation; Managing Trustee, Kuppuswamy Naidu Memorial Trust for Education and Medical Relief; widely travelled in Europe, America and far East countries. *Address:* "Shell House," Avanashi Road, Coimbatore.



DEVI, Rani Padmawati, Minister for Public Health, Madhya Pradesh, since Nov. 1956. *b.* July 17, 1918, at Partabgarh, U.P.; *Educ.:* at home under an English and an Indian Governess. Keenly interested in social service; conducted at Khairagarh the Child Welfare Centre, the Red Cross Centre, the Padmawati Charitable Hospital and the Shivendra Sanskrit Pathashala; founded the Indira Sangit Vidyalaya at Khairagarh, 1944, now developed into a full-fledged Music Univ., the Indira Kala Sangit Vishva Vidyalaya; gifted her only residential palace, valued at Rs 15 lakhs to the Indira Kala Sangit Vishvavidyalaya, Khairagarh; one of the Founder Pro-Chancellors of the Music Univ.; member: Univ. Court, Sagar; M.P. Hindi Sahitya Sammelan, Governing Body, Lady Amritabai Daga Coll., Nagpur Board of Governors, Scindia Education Society, Gwalior; has widely travelled in India; was nominated the first Chairman, Janpad Sabha, Khairagarh; elected M.L.A. from Bori-Deokar Constituency, M.P., 1952, appointed Minister in the enlarged M.P. State, Nov. 1, 1956, returned uncontested from Birendranagar Constituency in the 1957 elections and continued as Minister. *Recreations:* Badminton, shooting riding, photography. *Address.* Minister for Public Health, Bhopal

DEVI, Kumari Shakuntala, Arithmetical Prodigy. *b.* Nov 4, 1930 at Bangalore; *Educ* Bangalore and Madras. Numbers fascinated her even at an early age, was an expert in arm-long numbers even in her fifth year, is able to work out the most complicated arithmetical manipulations with lightning rapidity and scientific precision; has displayed her remarkable talent to gatherings of distinguished people all over India and abroad, left India on a world tour, Aug 1950, throughout her tour on the continent of Europe, in U.S.A., Canada, the West Indies and the continent of South America, she gave performances in schools, colleges, universities, radio, television and in night clubs with great success; was described by newspapers all over the Western Hemisphere as a "Human Calculating Machine" *Recreations.* Music. *Address* 'Shanta Nivas', No. 29, 3rd Main Road, Narasimharaja Colony, Bangalore 4.

DEY, S. K., M.Sc. (Engineering) (Michigan), Minister for Community Development, Government of India, since Sept. 20, 1956. *b.* Sept. 13, 1906, at Medinimohal Village, Sylhet Dist.; *Educ.:* Zilla School, Rangpur; studied upto matriculation on scholarships; joined technical course at Rangpur; joined Bengal Engineering Coll.; took diploma; secured a scholarship from the Sylhet Assoc. Private Trust and joined Purdue Univ.; took B.Sc. degree in electrical engineering; obtained his Master's Degree from Michigan Univ. Joined the General Electric X-Ray Corporation as an apprentice Engineer and was sent back to India to represent the firm in Lahore; rose to be the General Manager; relinquished, June 1947; Engineer, engaged in the work of rehabilitation of refugees, Nov. 1947-March 1952; member: Exec. United Council for Relief and Welfare, June 6, 1949-July 26, 1953; Central Board of Bharat Sewak Samaj, Aug. 1952-June 1956. *Special interests:* Psychology in human relations and applied sociology. *Recreations:* Witnessing dance and dramatic performances. *Publications: The Quest; Fragments Across; Missing Link; Planning for Life. Address:* 20-B, Goli Talab Area, Nilokheri; Ministry of Community Development, New Delhi.

DHADDA, Siddha Raj, M.A. (Pol.), LL.B., Jt. Secy. and Trustee, All India Sarva Seva Sangh; Pres., Rajasthan Samagra Seva Sangh; Vice-Chairman, Rajasthan Sevak Sangh; President, Rajasthan Khadi Sangh. *b.* Feb., 1909; *Educ.:* Maharaja's College, Jaipur; Canning College, Lucknow Univ. and the Allahabad Univ. Secy., Indian Chamber of Commerce, Calcutta and various other Assocs. (1934-42); sometime Advocate, Mysore High Court, Bangalore; has been connected with various political, social and cultural organisations; was arrested at Banaras and detained (1943-45), 'Quit India' movement; Founder and Chief Editor, Daily *Lokvani* from Jaipur, 1946-49; General Secretary, Rajputana P.C.C., 1947-48; Joint Secretary, Reception Cttee., 55th Session of the Indian National Congress held at Jaipur (Gandhinagar), Dec. 1948; Minister for Industries and Commerce, Govt. of Rajasthan, 1949-51, resigned from Congress, Aug. 1951. *Publications:* Contributes to various English and Hindi periodicals. *Address:* All India Sarva Seva Sangh, P.O. Khadigram (Monghyr Dist., Bihar).

DHANAPAL, S., Diploma (First Class) in Fine Arts, Painter; Instructor in Painting, School of Arts & Crafts, Madras. *b.* March 3, 1919; *Educ.:* School of Arts and Crafts, Madras. Artist and Sculptor; participated in several all India exhibitions and won distinctions and prizes; mentioned by P. R. Ramachandra Rao in his book *Modern Indian Painters*; Executive Cttee. Member, Progressive Painters' Assoc., Madras; executed 25 panels on the Life of Budha for use in the Madras Govt. Museum; commissioned by the Govt. of Madras for the preparation and supply of a sculpture of Philosopher Thiru Vika, in 1957; his sculpture of 'Toilet' has been acquired by the National Gallery of Modern Art, New Delhi; his works have been acquired for display by National Arts Gallery, Madras and Jagan Mohan Palace, Mysore. *Address.* No. 13, 111 Trust Cross St., Mandevelipakkam, Madras 28.

DHEBAR, Uchhrangrai Navalshanker, President, Indian National Congress, since Dec. 10, 1954; High Court Pleader. *b* Sept. 21, 1905; *Educ.:* Rajkot and Bombay. Practised as a lawyer in the Court of Western India States Agency, Rajkot, 1929; abandoned practice for active Congress work, 1936; Secy., Kathiawar Political Conference, 1937-48; Secy., Gujarat Provincial Congress Cttee., 1947; Imprisoned thrice for taking part in Rajkot Satyagraha, for nearly 5 months, 1938-39; for Individual Satyagraha for 6 months, 1941; in the Quit India movement, 1942-45; Chief Minister, Saurashtra, 1948-54; elected Pres., Indian National Congress for the 3rd term during the 63rd Session of Congress, Nov. 1957. *Address:* Harijan Colony, Kingsway, Delhi

DHILLON, Gurdial Singh, B.A., LL.B., Speaker, Punjab Leg. Assembly. *b.* Oct. 6, 1914; *Educ.:* B.A. from Govt. Coll., Lahore, 1935; LL.B from the Univ. Law Coll., Lahore in first division, 1937. Started legal practice, 1937; joined Congress, 1937; Pres., Congress Election Tribunal, 1945-46; Dist. Congress Cttee., Amritsar, till 1952; G.O.C., Punjab Congress Seva Dal, 1951; member, Punjab P.C. Working Cttee. till 1953; Cttee of Congress Leg. Party till 1954; Chairman, Congress Disciplinary Action and Regrets Cttee. (Punjab) till 1954; Leader, Amritsar Dist. Board Congress Party, 1949-54; member, Shiromani Gurdwara Parbhandak Cttee., 1940-55; Chairman, Market Cttee., Tarn Taran, 1948-54; elected Dy. Speaker, 1952; Speaker, 1954; re-elected Speaker, Nov. 1956 and after the General Elections, 1957; Pres., Amritsar Journalists' Assoc., 1947-51; Managing Dir., National Sikhs Newspapers Ltd., 1948-51; Chief Editor, Daily Urdu, *Sher-i-Bharat*, 1948-51; Daily *Varitman* (Punjabi), 1947-50; member: Ex.-Cttee., Punjab Journalists' Assoc. till 1952; Punjab State Press Advisory Cttee., 1948-51. *Publications:* Articles and pamphlets on current economic and

political problems. *Recreations :* Social Service, Travelling. *Club :* Rotary Club, Amritsar. *Address :* Speaker's House, Sector 2, Chandigarh.

DHIR, Ram Das, Diploma in Civil Engg. (Roorkee), M.I.E., I.S.E., Member, Committee on Floods and Chief Engineer (Floods), Central Water & Power Commission, Govt. of India. *b* Dec. 29, 1906 ; *Educ. :* Took Diploma in Engg. from Thomason Engineering Coll., Roorkee, 1929 ; became M.I.E., 1950. Served the Government in Sind Province for 16 years and then in the Centre for 10 years ; member : American Geo-Physical Union, 1952 ; UNESCO Panel of Consultants on Arid Zone, Hydrology and Hydro-Geology, 1951. *Publications :* Books : *Hydrological study of Tapi Valley, Part I (Rainfall Study)* (1948) ; *Hydrological Study of Tapi Valley, Part II (Runoff Study)* (1948) ; *The Feasibility of Snow Survey in the Himalayas* (1951) ; *Hydrological Data, its necessity and methods of Computation* (1954) ; Papers : *The Development of Arid Zones in India* (1951) ; *The Hydrology of the Rajasthan Desert* (1952) ; *The Betterment Levy* (1954) and several others. *Address :* 9, Raisina Road, New Delhi.

DIAS, Anthony Lancelot, B.A. (Bom.), B.Sc. (Econ.) (Lond.), Secretary, Home Deptt., Govt. of Bombay. *b.* March 13, 1910 ; *Educ. :* St Vincent's School, Deccan Coll., Poona ; London School of Economics ; Magdalene Coll., Cambridge. Joined the I.C.S., 1934 ; served in various capacities as Asstt. Collector, Collector, Settlement Commissioner and Director of Land Records, Secretary, Civil Supplies Deptt. & Supply Commr., Secy., Education Deptt., Secy., Agriculture & Forest Deptt. *Recreation :* Golf. *Clubs :* Cricket Club of India ; Willingdon Club. *Address :* 4, Rocky Hill Flats, Malabar Hill, Bombay 6.

DIETMAR, Dr. Hellmuth, Doctor of Laws, Univ. of Cologne, Consul General of the Federal Republic of Germany. *b.* March 25, 1897 ; *Educ. :* Cleve, Rossleben and Cologne. Entered the Foreign Service, 1927 ; served as Attache, Secretary of Legation, Counsellor of Legation, at Addis Ababa, Guatemala, Lisbon, Bombay, Liverpool. *Recreations :* Swimming, Riding *Address :* 29, Wodehouse Road, Bombay 1.

DINKAR, Ramdhari Singh, B.A. (Patna), M.P. (Rajya Sabha), Hindi Poet. *b.* Sept. 29, 1908 ; *Educ. :* Patna Coll. ; took B.A., 1932. Headmaster of an H. E. School, 1933-34 ; Sub-Registrar, Govt of Bihar, 1934-43 ; Officer in the Publicity Department, 1943-50 ; Professor of Hindi 1950-52, resigned Government service and elected to the Rajya Sabha on Congress ticket, 1952 ; awarded several prizes for work in poetry by the Govt. of India, Govt of Uttar Pradesh and non-official bodies ; represented Indian poetry on behalf of the Govt. of India in the International Conference of Poets in Poland, 1955 ; visited China at the invitation of the Writers' Union of China, Nov. 1957. *Publications :* 15 volumes of Hindi poems and 6 volumes of prose besides some books for children. Poetry : *Kurukshetra ; Rashmi Rathi ; Renuka ; Hunkar ; Rasvanti ; Neel Kusum* Prose : *Sanskriti Ke Char Adhyay ; Kavya Ki Bhoomika. Address :* Udayachal, Aryakumar Road, Patna 4.

DIVAN, Gautam Ramanlal, a leading Table Tennis Player. *b* July 22, 1940 ; *Educ. :* St. Xavier's High School, Bombay ; is now a student for Sr. B.Com., Sydenham Coll., Bombay. Bombay Junior No. 1 in Table-Tennis, 1955 ; National Men's Singles Champion, 1956 ; Bombay No. 1 and National Champion in Table-Tennis, 1957. *Recreations :* Table-Tennis. *Clubs :* Students' Y.M.C.A. ; Sydenham Coll. Gymkhana. *Address :* C/o Students' Y.M.C.A., Lamington Road, Bombay

DIVATIA, Sir Harsidhbhai Vajubhai, M.A., LL.B., Kt. (Jan. 1945), Ex-Vice-Chancellor, Gujarat University ; *Educ. :* Gujarat College, Ahmedabad. Professor of Philosophy, Bareilly College, 1910-12 ; practised on the Appellate Side of the High Court, 1912-33 ; Professor, Government Law College, 1928-31 ; Hon. Secretary, Bar Council, Bombay, 1932-33 ; Chairman, Bombay Textile Labour Enquiry Committee, 1938-40 ; Judge, High Court of Judicature, Bombay, 1933-46 and Retired President, Industrial Court, Bombay ; Chief Justice, Saurashtra, 1948-51 ; Chairman, Journalists' Wage Board, 1956. *Publications :* *Psychology* (in Gujarati language) and *The Art of Life in the Bhagwad Gita. Address :* 26-A, Ridge Road, Bombay 6.

DIWAKAR, Raoganath Ramachandra, M.A., Chairman, Gandhi Smarak Nidhi, since Sept. 1957 ; Ex-Governor of Bihar. *b.* Sept. 30, 1894 in Dharwar ; *Educ. :* Belgaum, Hubli, Poona and Bombay. Was Teacher and Professor of English, Victoria High School, Dharwar, Rajaram College, Kolhapur, and K. E. Society's Arts College, Dharwar, 1916-20 ; joined Non-Co-operation Movement in 1921 and started 'Karamveer', a Kannada weekly at Dharwar ; suffered imprisonment for sedition, 1921-23 ; was General Secy., Karnatak Provincial Congress Cttee. and Editor, 'Karamveer' upto 1930 ; Pres., Karnatak Provincial Congress Cttee., 1930-34 ; jailed for 6 months for breaking salt Law in 1930 ; started and conducted No-Tax Campaign in Ankola, Sirsi and Siddapur Talukas in North Kanara Dist. ; took active part in 1942 struggle ; after being underground for 2 years, surrendered to the authorities, Aug. 1944 and was interned for about a year ; started National Literature Publication Trust now known as People's Education Trust at Hubli, 1935 and took over 'Samyukta Karnatak', a Kannada daily from Belgaum ; member, P.E.N. ; author of numerous books (incl. translations) in Kannada, Hindi and English ; was M.P. ; was member, A.I.C.C. ; Ex-Minister of State, Information and Broadcasting, Govt. of India, Dec. 1948-April 1952. Governor of Bihar, 1952-1957. *Publications :* (Eng.) *Satyagraha, History and Technique ; Glimpses of Gandhiji ; Satyagraha in Action ; Upanishads in Story and Dialogue ; Satyagraha Pathway to Peace ; Mahayogi ; Paramahansa Sri Ramkrishna, etc. Address :* Hubli (Dist. Dharwar).

DIXIT, Mr. Justice Purushottama Vinayak, B.A. (Cantab.), B.Sc., Bar-at-Law, High Court Judge, Madhya Pradesh, since Nov. 1, 1956. *b.* March 19, 1907 at Nagpur ; *Educ. :* Patwardhan High School, Nagpur ; B.Sc., Nagpur Univ. in first division ; Christ's College, Cambridge ; called to the Bar, 1931. Practised at Nagpur bar for 10 years ; Codification Officer, Gwalior State, 1940-41 ; Judge, Gwalior High Court, 1941-42 ; Law Secy. and Foreign and Political Secy., Gwalior, 1942-45 ; Gwalior High Court Judge, 1945-46 ; Adviser to the Foreign and Political Ministers, 1946-47 ; Chief Justice, Gwalior High Court, 1946-48 ; Judge, M.B. High Court, 1948-56 ; Pres., Ratlam Incidents Enquiry Commission, 1949 ; presided over Gwalior Firing Enquiry, 1950 ; acted as Chief Justice. *Recreations :* Motoring, Astronomy and Astrology. *Clubs :* Jiwaji Club, Gwalior ; Gondwana Club, Nagpur. *Address :* M.P. High Court, Indore.

DIXIT, Yadnyeshwar Vasudeo, B.A., LL.B., Ex-Puisne Judge, High Court, Bombay. *b.* March 20, 1886, *Educ. :* Wilson Coll., Bombay ; Govt. Law Coll., Bombay. Joined the Appellate Side Bar, 1926 ; Reporter, Indian Law Reports (Bom. Series), 1933-35 ; Professor, Govt. Law Coll., Bombay, 1935-38 ; has acted as Chief Justice, Bombay. *Recreations :* Cricket ; Music. *Clubs :* Willingdon Sports Club and Orient Club, Bombay. *Address :* C/o Vellard View, Pedder Road, Cumballa Hill, Bombay.

DOCTOR, Bhicaji Edulji, F.I.I.A., F.R.I., B.A., M.R.S.H., Chartered Architect. *b.* December 1901 ; *Educ. :* Bombay, architectural course completed ; Bombay Art Society's Medallist ; England and Continent for advanced studies, 1929-34 ; specialized in intricate schemes. Was formerly practising at Bombay and Ahmedabad ; now practising as B. E. Doctor at Bombay and New Delhi ; visited England, France, Italy and Switzerland on professional tour in the middle of 1947 ; Chief Architect, Ashoka Hotel, Chanakyapuri Diplomatic Enclave, New Delhi ; a Freemason, Lodge "Benmore" Royal Arch Chapter "Rising Star of W.I." *Clubs :* Radio Club, Willingdon Sports Club, Ripon Club, R.W.I.T. Club, Lions Club *Address : Office :* "Dhannur," Sir Phirozshah Mehta Road, Fort, Bombay 1 ; *Residence :* "Ben Nevis", Warden Road, Bombay 26 and "Mon Choisi," Lonavla, Poona District.



DOGRA, Pandit Girdhari Lal, B.A., LL.B., Ex-Minister for Finance, Law & Civil Supplies Jammu and Kashmir Govt., Ex-Chairman Jammu and Kashmir Bank Ltd. *b.* July 1911 ; *Educ. :* Hindu Sabha Coll., Amritsar, Law Coll., Lahore. Joined Jammu Bar, 1942 ; Advocate, Jammu and Kashmir High Court ; active political worker from student days ; a member of the National Conference of Jammu and Kashmir's Working Committee for a number of years ; took prominent part in the movements started by the National Conference from time to time for democratisation of the State ; was Emergency Officer, Kathua Dist. during the Tribal raid from Pakistan into Kashmir in 1947 ; elected member, Jammu & Kashmir Constituent Assembly, 1951 ; Pres., Provincial National Conference, Jammu ; Chairman, Dogra Art Gallery, Jammu. *Address :* Jammu.

DOGRA, Colonel Jaswant Rai, M.D. Ch.B. (Edin.), D.T.M. (Liv.), Ex-Managing Director, Hindustan Antibiotics (Private) Ltd. (Govt. Penicillin Factory) Pimpri *b* June 9, 1901 ; *Educ. :* Govt. Coll., Lahore, Edinburgh Univ. (U.K.), Liverpool Tropical School and Middlesex Hospital, London. Joined Indian Medical Service (1929). Asstt. Director, Haffkine Inst., Bombay. Asstt. Director, Central Research Inst., Kasauli ; active service in Persia and Iraq (World War II) ; Comdt., I.A.M.C. Training Centre, Rawalpindi ; again Asstt. Dir., Haffkine Institute, Bombay (1946-54) ; first Managing Director, Hindustan Antibiotics (Private) Ltd., 1954-58. *Publications :* Author of 32 scientific papers and several others. *Recreations :* Public parks, champion in Tennis, now plays Golf. *Clubs :* Willingdon Sports Club, Bombay ; Rajendrasinghji Institute, Poona (Hon. Member). *Address :* C/o Hindustan Antibiotics (Private) Ltd., Pimpri (Near Poona).

DONGERKERY, Sundersao Ramarao, B.A., LL.B., Vice-Chancellor, Marathwada University, since July 1958. *b.* Feb. 25, 1898, *Educ. :* St. Xavier's High School ; Elphinstone College & Govt. Law College, Bombay. Solicitor, Bombay High Court (1923-1930) ; elected Vice-Pres. and Chairman, Constitution Cttee., International Universities Conference, at Nice, Dec. 4, 1950, and Hon. member, Administrative Board of International Universities Assoc., member, Exec. Cttee., The Indian P.E.N., appointed by the Govt. of Bombay as member, the S.S.C. Exam. Inquiry Cttee., 1949 ; the National College of Physical Education Cttee., 1952, the Marathwada Univ. Cttee., 1957 ; Registrar, Bombay Univ., 1931-56 ; Reader, Bombay University Jan. 1956-July 1958. *Publications :* Commentaries on *The Indian Sale of Goods Act* (1930) and *The Indian*

Partnership Act (2nd Ed., 1936); *The Ivory Tower* (book of lyrics in English); *Universities and Their Problems* (1948); *Bombay's University and Colleges* (1948); *Universities and National Life*; *Universities in Britain* (1953); *Thoughts on University Education and Some Experiments in General Education* (1955); *History of the University of Bombay* (1957). *Address:* Marathwad University, Aurangabad.

DOWERAH, Jatindra Nath, Assamese Poet, Professor in Assamese, D. H. S. K. Coll., Dibrugarh, since 1948. *b.* March 1892, in Sibsagar Dist.; *Educ.:* Sibsagar Govt. High School; B.A. from the Scottish Church Coll., Calcutta, 1913. Teacher, George Institution, Dibrugarh, 1918-21; was teacher, Scottish Church Collegiate School, Calcutta; acted as Asstt. Supdt. of the different college hostels from time to time; Part-time Post-graduate Lecturer in Assamese, Calcutta Univ., 1933-47; was an examiner in Assamese in Matriculation, I.A. and B.A. Exam.; was also a paper-setter and examiner for M.A. in Assamese, Calcutta Univ.; is paper-setter and examiner for M.A. in Assamese, Gauhati Univ.; awarded a cash prize of Rs. 5,000 by the Govt. of India for his book *Bana Phul*; has been granted a literary pension by Assam Govt. in recognition of his merit as a leading poet of Assam. *Publications:* Poems: *Omar Tirtha* (Assamese) (1925); Prose: *Katha Kabita* (1933); *Apon Sur* (1938) and *Bana Phul* (1952), collections of his poems. *Address:* Amolapatti, P.O. Rehabari, Dibrugarh (Assam).

DRAVID, Vyanktesh Vishnu, B.Sc., Minister for Labour, Housing, Rehabilitation and Chambal River Valley Project, Madhya Pradesh. *b.* Aug. 10, 1913; *Educ.*: Victoria Coll., Gwalior. After graduation, conducted research work in the Plant Institute, Indore; later took part in the labour movement in Indore and worked in the labour field at Ahmedabad with Shri Gulzarilal Nanda; sent to jail for taking part in the Freedom Movement; on release was appointed Minister for Labour and Local Self-Govt. in Indore State; appointed Minister for Commerce, Industries and Labour, M B, 1948; elected M L A, M B, in the General Elections; later became Development and Labour Minister; attended the I.L.O. Conference at Geneva twice, first as a delegate and later as Leader of the Indian Delegation. *Recreation:* Reading. *Address:* Bhopal (Madhya Pradesh); 8, Civil Lines, Simla.

DRIVER, Darab Curseti, President, Coal Consumers' Association of India, Calcutta, since 1945. *b.* January 19, 1888; *Educ.*: B.A., Elphinstone College, Bombay; M A, Emmanuel Coll., Cambridge; Bar-at-Law, Grey's Inn, London. Chairman, Rly. Fuel Economy Enquiry Cttee., 1951-53; Trustees, Zoroastrian Trust Funds; Past President, Indian Chamber of Commerce, Calcutta, 1947; and Engineering Association of India, Calcutta, 1943-46; Chairman: Coke Ovens Enquiry Cttee., 1954; West Bengal Govt. Board of Durgapur Industries, Calcutta, 1955; Executive Cttee., Fuel Research Institute (Govt. of India), 1956. *Address:* India Exchange (7th Floor), Calcutta 1.

D'SOUZA, Rev. Jerome, S. J., B.A. (Hons.) in English Literature, Rector, Sacred Heart College, Shembaganur and ex-Director, Indian Institute of Social Order. *b.* Aug. 6, 1897; *Educ.*: St. Aloysius College, Mangalore; St. Joseph's College, Tiruchirapalli; Presidency College, Madras. Joined the Society of Jesus, May 28, 1921 at Shembaganur; completed his theological course at Enghien (Belgium); was Principal and Rector, St. Joseph's College and Loyola College; Member, Constituent Assembly, 1946-50; was a member of the Indian Delegation to the U.N.O., Sept. 1949, Nov. 1951, Sept. 1955 and Sept. 1957; visiting Professor of Fordham University, New York, Jan. to May 1950; member: Advisory Cttee., Bharat Sevak Samaj; Governing Board, Indian Council of Cultural Relations, U.N.O. Panel for International Arbitration. *Address:* Rector, Sacred Heart College, Shembaganur, South India.

DUBASH, Ardeshir Rustomji, O A. (Paris), Officer d' Academie and Medallist of France (1936), a leading educationist, Principal, Director and Joint Proprietor, Princess High School for Girls, Bombay, since 1927 *b.* Nov. 2, 1892; *Educ.*: St Xavier's High School and Coll. and Wilson Coll., Bombay; passed matric, P.E. and Inter Arts. Entered teaching profession even while studying in the coll; soon made a name in the teaching profession and could not finish his final B.A examinations. Senior French Teacher in many European and Indian High Schools for over forty years; paper setter, examiner, moderator and Chairman of French paper at the Bombay Univ. and S.S.C Board Matriculation examinations for a long time; member, French Cercle Litteraire, since 1910; Cttee. member, Junior Red Cross Society (Bombay Branch); Delegate, Parsi Chief Matrimonial Court; member, School Headmasters' and Proprietors' Assoc.; Life-member, Secondary Teachers' Assocs; Ex. Joint Proprietor and Principal, Master's Tutorial High School, 1923-28, is keenly interested in educational activities; is highly experienced in matters concerning education. *Publications:* Revised and amended edition of *A French Grammar for Indian Students*. *Address:* Mohammadbhoy Manson, Hughes Road, Cumballa Hill, Bombay 26.



DUBEY, Kunji Lal, B A., LL.B., Speaker, M.P. Legislative Assembly; Vice-Chancellor, Jabalpur University. *b* March 1897; *Educ.*: Jabalpur and Allahabad. Practised at the Jabalpur Bar; Professor of Law, at Jabalpur, 1935-40; Secy., Tripuri Session of the Indian National Congress; courted jail in individual satyagraha; detenu in 1942 struggle; M.L.A. of Madhya Pradesh, 1946-52; re-elected M.L.A., 1952; Chief Parliamentary Secy., 1946; Chairman, Inter-University Board of India, 1950; Speaker, M P. Assembly, 1952-56; Vice-Chancellor, Nagpur Univ., 1947-Jan. 1956. Delegate to the Seventh Quinquennial Congress of Commonwealth Universities held at Cambridge, 1953; Representative of Inter-University Board of India at the meeting of the Executive Council of the Association of Universities of the British Commonwealth at Kingston, Ontario (Canada), 1954; elected Speaker, M P. Leg. Assembly after reorganization of States, 1956, re-elected M L.A., 1957; re-elected Speaker, M.P. Vidhan Sabha, 1957. *Address*, Jahangirabad, Bhopal; Jabalpur University, Jabalpur

DUDHORIA, Nabakumar Sing. *b.* 1904; *Educ.*: Privately. Hon. Magistrate; Director, Sri Durga Cotton Mill Ltd., Calcutta; Luxmi Narayan Ayurvedic Pharmacy Ltd.; member, Legislative Assembly—Central—1930-34; member: British Indian Assocn.; Bengal National Chamber of Commerce; Bengal Landholders' Assocn.; Indian Chamber of Commerce; Kalighat Sports Assocn.; Patron, Bengal Music Association. *Clubs:* Calcutta Club; Royal Calcutta Turf Club; Bengal Flying Club; Life Member, All-India Fine Arts and Crafts Society, Royal Asiatic Society of Bengal, Automobile Association of Bengal and Mohan Bagan Club, Calcutta; Vice-President and Life Member, Calcutta North Club. *Address*: Azimganj, Murshidabad, West Bengal.



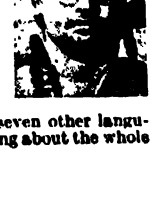
DULEEPSINHJI, Maharaj Shri, B.A. (Cantab.), International Cricketer; Member, Public Service Commission, Bombay State, since Nov. 1, 1956. *b.* June 13, 1905; *Educ.*: Cheltenham Coll. and Clare, Cambridge. Racquet Blue, Cambridge; Captained Sussex Team, 1931-32; played test matches against Australia, South Africa and New Zealand; has travelled extensively in Europe, U S A, Australia and New Zealand; served in various administrative capacities in Nawanagar State (India). High Commissioner for India in Australia and New Zealand; was Chairman, Saurashtra Public Service Commission. *Clubs:* Union Club, Brighton; M C C, London; Hony Life Member, Sussex County Cricket Club. *Address:*, Public Service Commission, Bombay 1.

DUMONT, Henri, Croix de Guerre (1939-45) Chevalier de l Etoile Noire, Consul General for France in Bombay, since 1957 *b* Oct 5, 1923, *Educ* Ecole St Martin Pontoise, Faculty of Law, Paris, School of Political Sciences, Paris Licencie en Droit Diploma of the Political Sciences School (Paris) Vice-Consul at Shanghai 1945-48 Secy, Istanbul, 1949-50 Secy, New Delhi 1950-55, Secy, Buenos Aires, 1955-56 *Recreations*, Equitation, Hunting Tennis Nature study *Clubs*, R A F. Assen. of Shanghai; Delhi Gymkhana; Meerut Tent Club Bombay Gymkhana, Bombay Natural History Society *Address:* "Usha Kiran", 15 Carmichael Road, Cumballa Hill, Bombay.

DUTT, Subimal, B.Sc. (with First Class Honours in Chemistry), Foreign Secretary, External Affairs Ministry, Govt of India, since Oct 12, 1955. *b* March 13, 1905; *Educ*: Presidency Coll Calcutta, University Coll., London. Joined Indian Civil Service, 1928; served as Asstt. Magistrate, Joint Magistrate and Collector, Addl. Dt. and Sessions Judge, and Magistrate-Collector in Bengal till 1938; Under-Secretary and later Deputy Secretary to Govt. of India, Dept. of Education, Health and Lands, 1938-41; Agent to Govt. of India in Malaya, 1941; Dy. Secy. to Govt. of Bengal, Commissioner of Commercial Taxes, Bengal and Secy. to Govt. of Bengal in the Agricultural Dept. till 1947; confirmed as Dt. Magte. and Collr., Bengal Govt.; Secretary to Govt. of India, Commonwealth Relations Ministry from Aug. 1947; Secretary, External Affairs Ministry, Govt. of India, 1950-52; Indian Ambassador to the Federal Republic of Germany (West Germany), 1952-54; Commonwealth Secy., External Affairs Ministry, 1954-55. *Recreations:* Gardening and Golf. *Club:* Delhi Gymkhana Club. *Address:* External Affairs Ministry, New Delhi.

DUTTA GUPTA, Jatindra Chandra, B.Sc. (Engg.), Master, India Security Press, Nasik Road, since March 19, 1951. *b.* Sept 1, 1902; *Educ.:* Cotton Collegiate School, Gauhati; Sarail Annada High School, Tippera; Murari Chand Coll, Sylhet; Engineering Coll., Benares Hindu Univ. Worked in various capacities in the General Engineering Workshop of W. Leslie & Co., Calcutta (now defunct), 1926-32; worked as Asstt. Master and later Deputy Master, India Security Press, Nasik Road, 1932-51; was the first Indian to be appointed to the post of Master; was deputed by Govt. to U.K. and the Continent for six months in 1950 and again for three weeks in June 1957. *Address:* India Security Press, Nasik Road.

DWARKA: His Holiness the Jagadguru Shankaracharya Swami Shri Abhinava Sachchidanand Teerthji Maharaj of Sharada Peeth, of. Is an outstanding Hindu spiritual leader in western India. *b.* Sept. 25, 1910, at Mulbagalu, Mysore State; *Educ.:* Studied Sanskrit and sacred lore. Took holy orders from His Holiness Jagadguru Swami Shri Krishnanand Teerthaji, the Acharya of the Dwarka Jagadguru Samsthanam, Mulbagalu, 1934; installed at Dwarka on the holy seat of Shri Shankaracharya of western India, June 20, 1945; is a scholar and linguist; knows English and seven other languages and usually keeps moving about the whole



of India delivering sermons on Hindu Religion and Philosophy; recently visited the Himalayan high peaks 'Yamunotri, Gangotri, Kedarnath, Badrinath, Amarnath, etc. and Nepal'; takes keen interest in and works hard for the cultural and spiritual uplift of India; Pres.: All-India Dharma Sangh Conference, Dhebua (Bihar), 1946; Patna, 1949; Kanpur, 1951; Allahabad, 1954; Kanpur, 1957; is still Pres.; founded Mahagujarat Sanskrit Sammelan; is its permanent Pres.; recognised by the Govt. as the Shankaracharya of Dwarka and a Primate of Hindulsm; looked on as a sort of spiritual guide by several Indian leaders and Princes. *Publications:* Several books in Gujarati, Kannada, Sanskrit and Hindi; "Nav-Bharati" a Gujarati monthly is being published under his patronage from Rajkot; pamphlet on a scheme of University with religious foundation; several coloured films have been prepared about his activities; The *'Jatrayatravilas'*, small Sanskrit epic describes all his Yatras in Bharat; established 1,331 Shivlings and 1,200 Shaligrams at Dwarka, June 1957; The President, Dr. Rajendra Prasad visited him at Baroda, Sept. 30, 1957; spoke at the P.E.N. All India Writers' Conference at Baroda, Oct. 26, 1957; the Vice-President Dr. Radhakrishnan and Prime Minister Jawaharlal Nehru visited him at Baroda, Oct. 26, 1957. *Address:* Dwarka (W. Rly.).

DWIVEDI, Ramagyan, M.A. (Hons.), Principal, Marwari College, Kanpur. *b* Nov 21, 1902; *Educ.:* Govt. High School, Basti, Allahabad Univ. & Banaras Hindu Univ.; U.P. Govt. Scholar (1917-20), 1st class Honours in English Literature; Gold Medallist and Scholar of the Univ. (1918-24) Prof. of English, D.A.V. Coll., Cawnpore, 1924-27; Head of English Deptt., N.R.E.C. Coll., Khurja; Vice-Principal, K. K. Coll., Lucknow and Principal, Hindu Coll., Moradabad; Chairman, Reception Cttee., All-India Students' Conference and Secy., All-India Poets' Conference (1925); Pres., Board of Education, Dhar State; member, Board of Education for Central India, Rajputana and Gwalior at Ajmer; its Examiner and Member of the Cttee. of Courses in English; represented Dhar State as a delegate in the All-Asia Educational Conference, 1930; elected Pres., All-India Arya Kumar Conference, Bareilly (1931); was awarded the highest prize by U.P. Govt. for his volume *Awadhi Kosh*; was deputed by Govt. of India to Afghanistan in 1950 for educational and cultural work; edited several classical Hindi books and periodicals, *Uday*, *Kadambari* and *Sammelan Patrika*. *Publications: From Dawn to Dusk*; *Songs from Surdas*; *Songs from Mirabai*; *History of Hindi Literature*; *Saurabh*, *Sone Ki Gari* (Hindi Drama); *Pooj Ka Chand* (Hindi); *Samaar ke Sahityik* (Hindi); *Padya Puni*; *Life and Speeches of Pandit J. L. Nehru*, (Illustrated); *Readings in English*; *A Critical Guide to the Study of Poetry*; published a number of original papers on philology, literature, etc. in leading English and Vernacular journals. *Recreations:* Billiards, Tennis and Chess. *Hobby:* Stamp collecting. *Address:* Marwari College, Kanpur; Vila Soma, Mahrajganj, Basti (U.P.).



ELWIN, Verrier, M.A., D.Sc. (Oxon.). *b.* Aug. 29, 1902; *Educ.:* Merton College, Oxford. Vice-Principal, Wycliffe Hall, 1926 and Lecturer at Merton, 1927; came to India in 1927 in Christa Seva Sangh, but after four years retired into lay life and with Mr. Shamrao Hivale, founded the Bhumijan Seva Mandal, for the service of the aboriginals on a scientific and humanitarian basis; the Mandal is now called the Tribal Welfare and Research Unit; appointed Hon. Ethnographer, Bastar, 1940; Anthropologist, Govt. of Orissa, 1945; Deputy-Director, Deptt. of Anthropology, 1946-49; Adviser for Tribal Affairs N. E. F. A. 1954; F.R.A.I., F.N.I., F. A. S. Editor, *Man in India*, 1942-48; awarded the Wellcome Medal, 1942, the Roy Medal, 1945, B.B.R.A.S. Silver Medal, 1947, Rivers Medal, 1948, Annandale Medal, 1951. *Publications: The Dawn of Indian Freedom* (1930), *Mahatma Gandhi* (1931), *The Truth about India* (1932), *The Baiga* (1939), *The Agaria* (1942), *Maria Murder & Suicide* (1943), *Folk-Tales of Mahakoshal* (1944), *Folk-Songs of the Maikal Hills* (1944), *Folk-Songs of Chhattisgarh* (1946), *The Muria and their Ghotul* (1947), *Myths of Middle India* (1949), *Bondo Highlander* (1950), *The Tribal Art of Middle India* (1951), *Tribal Myths of Orissa* (1953), *Motley* (1954), *The Religion of an Indian Tribe* (1955). *Address:* Sridham, Nongthmai, Shillong.

ENGINEER, Air Vice-Marshal Aspy Merwan, D.F.C., Distinguished Flying Cross (1942), General Manager and Managing Director, Hindustan Aircraft (Private) Ltd., since May 28, 1958. *b.* Dec. 15, 1912; *Educ.:* D. J. Sind Coll., Karachi; R.A.F. Coll., Cranwell, England; passed R.A.F. Staff College, Bracknell, England; graduate of Imperial Defence College, London. Won Aga Khan Prize being first Indian to fly between England and India within one month, 1930; awarded Groves Memorial Flying Prize at Cranwell (1933); Deputy Chief of Air Staff, Indian Air Force, till May 1958. *Recreations:* Fishing; Shooting. *Club:* Delhi Gymkhana Club, Delhi. *Address:* Hindustan Aircraft P.O., Bangalore District.

ENGINEER, Sir Noshirwan Phiroozsha, Kt. (1945), B.A., LL.B., Ex-Advocate-General of India. *b* Jan. 22, 1884; *Educ.*: Elphinstone College. Additional Judge, Bombay High Court from 1936 to 1938, Advocate-General, Bombay, Sept 1942 to March 1945; Advocate-General of India, April 1945 to Jan. 25, 1950. *Address:* 16, Nepean Road, Malabar Hill, Bombay.

ERZUAH, B.E. Mr. John Bogolo, High Commissioner for Ghana in India, since Dec 1, 1957. *b.* Jan. 14, 1914, at Takinta; *Educ.*: Roman Catholic School, Half Assini, 1922-31; St. Augustine's Coll., Cape Coast, 1934-39, London Inter Arts, by private study, 1948. Teacher, St. Augustine's Coll., Cape Coast, 1940-49; Headmaster, Roman Catholic School, (Elementary) Beyin, Jan Sept. 1950; Headmaster, Ghana National School, (Secondary) Eslama, Oct 1950-Feb, 1951, voted into the Leg Assembly, Feb. 1951, appointed Ministerial Secy. to the Minister of Education, March 1951; after the 1954 General Elections, appointed to the same post; appointed Minister of Education after the 1956 General Elections, Minister without Portfolio, May November 1957; is the first High Commissioner for Ghana in India. *Address:* High Commissioner for Ghana in India, New Delhi.

FAHMY, Mohamed Raouf, Law Degree (Cairo Univ.), Consul-General of the United Arab Republic in Bombay, since April 1956. *b* July 22, 1920; *Educ.:* Cairo Univ., Faculty of Law, Cairo, Law Degree, 1941. Lawyer, May 1941—Dec. 1942; Oddcd Dept., Cairo, Dec 22, 1942 July 16, 1946; Foreign Service, since July 16, 1946; Vice-Consul at Marseilles and Jerusalem, 1947-48; Consul in Frankfurt a./M. 1950; Secy., Egyptian Legation in Sofia, 1951, 1952 and 1953; Secy., Egyptian Embassy in Djakarta, 1954-55. *Address:* Cambatta Building, 124D, Queen's Road, Churchgate Reclamation, Bombay 1

FALSHAW, Mr. Justice Donald, B.A., I.C.S., Judge, Punjab High Court. *b.* January 22, 1905; *Educ.:* Lancaster Royal Grammar School and Sidney Sussex College, Cambridge. Entered I.C.S., 1927; came to India, 1928; District and Sessions Judge in various places from 1935; Lahore, 1939-43; Delhi, 1943-46; appointed Acting Judge, Lahore High Court, Feb. 1946; Additional Judge, Dec. 1946; Addl. Judge, East Punjab High Court, Aug. 1947-June 1949; Puisne Judge. *Recreation:* Golf. *Address:* Chandigarh.

FARUQI, Kwaja Ahmad, M.A., Ph.D., F.R.A.S., Urdu Writer; Reader in Urdu, Univ. of Delhi, since 1954. *b.* Oct. 30, 1917; *Educ.:* Meerut Coll., Agra Univ.; Univ. of Delhi. Head, Dept. of Urdu, Delhi Coll., Delhi Univ., 1946-54; visited Iran as guest of the Govt. of Iran, 1956; travelled extensively in U.K., Germany, France, Italy, Syria, Turkey and Egypt and visited important centres of oriental scholarship and manuscript libraries 1957; member, Executive Council and Literary Council, All-India Anjuman Tarraqiae Urdu. Fellow, Royal Asiatic Society of Great Britain, London; lectured at the Univ. of London, 1957, won the highest award given by the Sahitya Akademi, National Academy of Letters, 1957, also won the highest award given by the U.P. Govt. *Publications: Mir Taqi Mir*. A critical study of the great classic poet Mir (1954); *Maktoobat e Urdu Ka Adabi Wa tarikhi ahmiat*; *Klassiki Adab*; contributed chapters to the History of Urdu literature, Hindi Prachar Sabha, the Aligarh History of Urdu literature and the Encyclopaedia of Islam (latest edition) and numerous other research papers and radio talks broadcast from London and Delhi. *Recreations*: Gardening. *Address:* Cavalry Lane, University of Delhi, Delhi.

FAZALBHOY, Yousufali Abdulla, J.P., Managing Director, General Radio & Appliances Private Ltd., Bombay. *b* Nov 19, 1906; *Educ.:* St. Xavier's Coll., Bombay. Joined his father's firm Abdulla Fazalbhoy & Sons (later Fazalbhoy Ltd. and now General Radio & Appliances Private Ltd.), 1927; Pres., All India Instrument Manufacturers & Dealers Assoc.; Member, the Development Council for Light Electrical Industries (appointed by the Ministry of Heavy Industries) and the All India Board of Technical Studies in Management (appointed by the Ministry of Education). *Publications: The Indian Film*; *A Plea for Indian Newsreels*, *15 Years Ahead*; *Food a Happier Healthier India*. *Recreations:* Golf. *Clubs:* Willingdon Sports Club, Bombay; Calcutta Club, Calcutta. *Office:* 8, New Queen's Road, Bombay. *Residence:* Grosvenor House, Peddar Road, Cumballa Hill, Bombay.



FEUGA, Right Rev. Dr. R., B.A., D.D., Bishop of Mysore. *b* 24th Sept. 1886; *Educ.* in Paris. Rector, St Mary's Seminary, Bangalore, 1927-31; Vicar, St Philomena's Church, Mysore, 1931-41; Nominated Bishop of Mysore, 3rd April 1941. *Publication:* Ed., *St. Philomena's Messenger*, 1932-41. *Address:* Bishop's House, Mysore.

FYZEE, Asaf Ali-Asghar, B.A., LL.B (Bom.), M.A. (Cantab.), First class honours, Oriental Languages, Tripos 1924 (PT.I), and 1925 (PT.II), of the Middle Temple, Barrister-at-Law, Vice-Chancellor, Jammu and Kashmir University, Srinagar. *b.* April 10, 1899; *Educ.*: St. Xavier's Coll., Bombay, St. John's Coll., Cambridge, England. Hon Secy., Islamic Research Assoc.; Pres., Anjuman Taraqqiae Urdu; Pres., Bombay Cricket Assoc., Principal, Govt. Law College, Bombay, 1938-47. Member, Public Service Commission, Bombay, 1947-49; Past President, Rotary Club, Bombay, 1947-48; Indian Ambassador to Egypt 1949-51; Member, U.P.S.C., 1952-57. *Publications: Introduction to Muhammadan Law* (Oxford, 1931), *Ismaili Law of Wills* (Oxford 1933), *Islamic Culture* (1944); *Outlines of Muhammadan Law* (Oxford, 1949; 2nd ed. 1954), and about 50 papers of a technical character on Law and Islamic subjects. *Address:* Jammu and Kashmir University, Srinagar.

GADE, Hari Ambadas, B.Sc., B.T., G.D.Art, A.M., Painter. *b.* Aug. 15, 1917; *Educ.*: Nagpur and Bombay. Held several one man exhibitions in important art centres. *Club:* Artists Club, Bombay. *Address:* D-1, Chembur, Bombay 38.

GADGIL, N. V., Vice-Chairman, Board of Directors, State Bank of India. *b.* 1896, in Rajasthan; *Educ.:* Neemuch, Baroda and Poona; graduated in 1918 with Honours in Economics and Politics; LL.B from the Govt. Law College, Bombay. Joined Poona Bar; was Secy., District Congress Cttee., Poona and of Maharashtra Provincial Congress Cttee.; Pres., Maharashtra Provincial Congress Cttee.; member, A.I.C.C.; Vice-Pres., Poona Municipality; imprisoned several times in connection with Satyagraha; intimately associated with Youth Movement in Bombay State; was elected to the Central Assembly, 1934; acted as Whip and Secy., Congress Party till he became Minister in the Central Cabinet; Minister for Works, Mines and Power, Aug. 1947-May 1952; Minister for Works, Production and Supply. *Publications:* Has written books both in Marathi and English on Economics, Finance and Politics. *Address:* 419, Shanvar Peth, Poona 2.

GAEKWAD OF BARODA: Capt. His Highness Maharaja Fatesinghrao, Furzand-I-Khas-I-Dowlat-I-Englishia, Sena Khas Khel Shamshere Bahadur, Parliamentary Secretary to the Minister of Defence, since Aug 1957 *b.* April 1930; *Educ.* Privately. Does social work in the former Baroda State; elected member, Lok Sabha, 1957. *Recreations* Shooting, Cricket, Tennis, Table Tennis, Indian Classical Music, Farming, etc. *Clubs* M.C.C. England, Cricket Club of India Bombay Willingdon Sports Club, Bombay; Ralli Club, Bombay; N.S.C.I.; M.P.C. Gymkhana Baroda. *Address.* Laxmi Vilas Palace, Baroda



GAJENDRAGADKAR, Mr. Justice Pralhad Balacharya, M.A., LL.B., Judge, Supreme Court, since Jan. 17, 1957 *b.* March 16, 1901; *Educ.:* Satara High School (1911 to 1918); Karnatak Coll. (1918 to 1920); Deccan Coll. (1920 to 1924); Dakshina Fellow (1922-24); Jhala Vedant Prizeman; Bhagwandas Purshotamdas Scholar (1922-24); Law Coll., Poona (1924-26). Joined the Appellate Side Bar, 1926; edited the Hindu Law Quarterly; Sir Lallubhai Shah lecturer, Bombay Univ. on Hindu Law of Adoption, 1950; delivered University Extension lectures on the Hindu Code Bill, Karnatak Univ., 1951; Presided over the Maharashtra Social Conference, Poona, 1953, Jalgaon, 1954 Chairman, Bank Award Commission, Feb. 26, 1955; Judge, Bombay High Court. *Publications:* Sanskrit Text of Nanda Pandit's Dattaka Mimamsa and its English translation. *Address:* Supreme Court, New Delhi.

GAMBOA, His Excellency Dr. Melquiades J., A.B., LL.B., LL.M., B.C.L., D.C.L., Ambassador of the Republic of the Philippines. *b.* Nov. 7, 1896; *Educ.:* Univ of Oxford; Univ. of the Philippines Professor of Law, 1921-41; Asstt. Secy. to the President of the Philippines, 1945; Diplomatic Service, since 1946. *Publications: An Introduction to Philippine Law,* 6th Edition. *Address:* Embassy of the Philippines, New Delhi.

GANAMUKHI, Anna Rao, B.A., LL.B., Minister for Education, Mysore, since May 1958. *b.* 1909, at Tad-Tegnoor; *Educ.:* B.A., 1930 and LL.B. from Osmania Univ., Hyderabad Started practice at Gulbarga; took part in the freedom struggle from 1932; was a member, Hyderabad State Congress Working Cttee. since its inception; was selected member, provisional Parliament; Minister, former Hyderabad State; member, Inter State Ministerial Cttee. during States Reorganisation; elected M.L.A., Mysore from Afzalpur constituency, 1957. *Address:* Bangalore.

GANAPATI, M., B.E. (Madras), M.E. (Hons.) (Madras), M.I.E. (Institution of Engineers, India), Resident Director, Rourkela Steel Project, since June 1958. *b.* Nov. 25, 1903; *Educ.:* Pachayappa's Coll. and Engineering Coll., Madras. Tata Power Co., 1925-27, Mettur Dam Project, 1927-28; East Indian Rly. (Indian Railway Service of Engineers), March 1928 Jan. 1948; Regirdering of the Ganga bridge at Kashi, Sept. 1945 Sept. 1947; Chittaranjan Locomotive Works, Jan. 1948 April 1951; Integral Coach Factory, June 1951 March 1953; Kandla Port Project, April 1953 Sept. 1955; General Manager, Western Railway, Sept. 1955—May 1958. *Publications.* Papers for the Institution of Engineers for which Viceroy's Medal and Rly. Board Prize have been awarded. *Recreations:* Tennis; Bridge. *Address:* Rourkela, Orissa.

GANDHI, Shrimati Indira, as the Prime Minister's daughter, Official Hostess for the Prime Minister of India *b.* Nov. 19, 1917 at Allahabad; *Educ.:* India, Switzerland, Visvabharati Univ., Santiniketan and Somerville Coll., Oxford. At the age of 12 formed a children's organization to help the Indian National Congress during N.C. movement; while at boarding school in Poona, worked in slum areas amongst the untouchables for popularising hand-spun cloth and Indian-made goods, has been active in student movements in England and in India, became member of the Congress, 1938, was actively associated with the Independence Movement, courted jail for 14 months, active in elections and village mass contact work with special reference to women, worked under Mahatma Gandhi's direction in the riot affected areas of Delhi, 1947, became member, Working Cttee., A.I.C.C., 1955; Pres., Women's Deptt., A.I.C.C., member, Central Election Board as connected with several welfare organizations, member Central Social Welfare Board, Children's Book Trust, various Trusts and Hospital Cttees., Mountaineering Institute Pres., Bal Bhavan sponsored by the Ministry of Education, Govt. of India, Vice-Pres., Children's Film Society, Vice-Pres. and Chairman, Standing Cttee. of the Indian Council for Child Welfare, Pres and Founder, Pal Sahyog, New Delhi, Kamala Nehru Vidyalaya, Allahabad, widely travelled in Asia, Europe and America. *Special Interests.* Folk and classical dances of different countries; Modern Art and Classical Indian and European Music *Hobbies:* Riding, trekking in the mountains, winter sports, swimming, reading and writing. *Address:* Prime Minister's House, New Delhi.

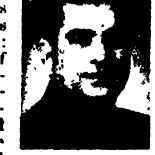
GANDHI, Manmohan Purushottam, M.A., F.R. Econ. S., F.S.S., J.P., Editor, Indian Cotton Textile and Sugar Industry Annuals; Editor, Major Industries Annual; Hon. Professor, Sydenham College of Commerce (1943-49). Chairman, All-India Board of Technical Studies in Commerce; Director, East India Cotton Association Ltd., member, All-India Council of Technical Education, Indian Central Sugarcane Cttee., Bombay State Handloom Board. *b.* Nov. 5, 1901, *Educ.:* Bombay and Banaras. Secy., Indian Chamber of Commerce, Calcutta, 1926-36; Secy., Indian Sugar Mills' Assoc., Indian National Committee A Federation of Indian Chambers of Commerce & Industry, 1929-30; Head, Credit Dept., National City Bank of New York, Calcutta, 1936-37; Chief Commercial Manager, Dalmia Cement Ltd., and Rohtas Industries, Ltd., Director, Indian Sugar Syndicate, 1937-40, member, U.P. & Bihar Sugar Control Board, 1940; Controller of Supplies, Calcutta and Bombay, 1941-42; Technical Adviser, Indian Tariff Board, 1947 *Publications:* An Annual each year on Cotton, and Sugar Industries, and on Major Industries of India. *Address:* Jan Mansion, Sir Phirozshah Mehta Road, Bombay.

GANDHI, Pravinchandra Varjivan, Fellow, Indian Institute of Bankers, Mg. Director, Devkaran Nanjee Banking Co. Ltd., since 1943. *b.* Aug. 25, 1922; *Educ.:* Elphinstone Coll., Bombay Joined Dena Bank as an apprentice; appointed Manager, 1942; member, Managing Cttee., Indian Merchants' Chamber; Indian Merchants' Chamber, Sub-Cttees. on Banking, Finance and Income-tax; Managing Cttee., Indian Banks Assoc.; Exec. Cttee., Federation of Indian Chambers of Commerce & Industry; Zonal Railway Users' Consultative Cttee., Western Railway; Bombay City Traffic Advisory Cttee; Jt. Hon. Secy., Swadeshi League; Jt. Hon. Treasurer, Gujarati Natya Mandal *Recreations.* Music, Dramatics, Literature *Clubs:* C.C.I.; Orient. *Address:* Devkaran Nanjee Buildings, Horniman Circle, Fort, Bombay, Jyoti Sadan 137, Netaji Subhas Road, Bombay.

GANGULI, Anil Bihari, I.C.S., has been Member, Damodar Valley Corporation. *b.* Dec. 1907; *Educ.:* Presidency Coll., Calcutta; School of Oriental Studies, London. Joined Indian Civil Service, Bengal, 1930; Joint Secy. and Director of Relief and Rehabilitation, 1943-44; Special Officer, Housing and Town Planning, 1946-47; Relief Commissioner, 1948; Administrator, Mayurakshi Reservoir Project, 1949-53. *Address:* C/o Anderson House, Alipore, Calcutta.

GANGWAL, Mishrilal, Finance Minister, Madhya Pradesh. *b.* Samvat, 1859, Indore; *Educ.:* Indore Took to the profession of his forefathers; is keenly interested in social and cultural work; was elected Pres. of several social and commercial institutions; was highly influenced by Mahatma Gandhi's writings and began to take active part in politics; was elected Pres., Ajmer-Merwara Provincial Congress and Indore Rajya Praja Mandal; was member, Central India States Peoples Conference and of the A.I.C.C. for several years courted imprisonment thrice, was member, Indore Legislature; was Food Minister, Indore; was Civil Supplies Minister, Madhya Bharat; Commerce and Industries Minister, 1949-50; Finance Minister, 1950-52, was elected Leader, Congress Legislature Party, Madhya Bharat Leg. Assembly, 1952; was Chief Minister, M.B., 1952-April 1955 *Address.* Bhopal.

GARWARE, B. D., Business man. *b.* 1903. Started business, 1921. Chairman: Garware Finance Corporation, Private, Ltd.; Garware Motors & Engineers Private Ltd., Garware Plastics Private Ltd., Dominion Plastic Industries; Plastics Pipe Private Ltd.; Plastics Packing Private Ltd., Pres.: Maharashtra Chamber of Commerce, Bombay, 1954-56 and 1956-58, is connected with many organizations as Chairman and active member on the Executive Cttees.; travelled widely in Europe, the U.S.A. and the Far East; served actively on numerous Cttees. of economic and industrial bodies. *Address:* Chowpatty Chambers, Sandhurst Bridge, Bombay 7.



GAUR, Vrajendra Nath, Cine-Director, Journalist, Poet, Playwright, Author and Radio-Feature Writer. *b.* April 1, 1920. Has been in the film line as Dialogue and Song Writer, since 1945, the pictures to his credit being Sawan, Panihari, Ratnawali, Gunjan, Vo Dono, Mangal Sutra, Neera Aur Nanda, Girls' School, Ankhen, Gauna, Kafila, Sangram Shamsheer, Chandirani, Zalzala, Bahu, Sardar, Kastoorj, Parineeta, Shatranj, Barish, Howrah-Bridge and Sitaron Se Agay; has also directed Kasturi; his ambition is to write and direct a film on Indian Art and culture for the world market; knows Hindi, English, Urdu and Gujrati. *Publications:* In Hindi: *Parole Par* (Novel); *Kalkate Ka Kalle-am* (Stories) both banned by the Indian Govt. under Section 124 I.P.C.; *Atript Manao, Sindoor Ki Laaj, Bikhri Kaliyan, Kagaz Ki Nao, Andheri Raat, Yudh Ki Kahaniyan,* etc. *Hobbies:* Touring, Reading, Pen friendship, Gardening, Painting and Photography. *Address:* 144, Kurla Road, Andheri, Bombay 41.

GAUTAM, Mohanlal, B.A. (Hons.), Minister for Co-operation, Uttar Pradesh, since June 10, 1957. *b.* Aug. 5, 1902, at Birpura Village, Aligarh Dist ; *Educ.* : National Univ., Lahore. Joined N.C. Movement, 1920 ; Life Member, Servants of the People Society, Lahore ; Secy. ; Reception Cttee, Lahore Congress Session, 1929 ; All India Congress Socialist Party, 1934 ; Congress Party in U.P. Legislature ; Congress Party of Constituent Assembly, 1949 ; Congress Parliamentary Board ; Gen Secy. : U.P.P.C.C., 1930 and 1948 ; Congress Socialist Party, U.P., 1946 ; Indian National Congress ; member : U.P. Leg. Assembly, 1937 ; Constituent Assembly of India, 1947 ; Exec Cttee. of Inter-Parliamentary Union ; Indian delegation to Inter-Parliamentary Conference at Stockholm ; Founder and Secy., All India Kisan Sangh, 1936 ; Founder, *The Sangharsh*, Hindi Weekly ; Chairman, Managing Cttee., National High School, Lucknow, 1938 ; Convener, Congress Parliamentary Board, 1947 ; jailed seven times in the freedom movement ; Minister for Local Self-Govt., U.P., May 1952 -Dec 1954 ; again elected M.L.A., U.P., 1957 ; travelled in U.K., France, Germany, Sweden, Denmark, Switzerland, Holland, Belgium, Italy, Egypt, etc ; *Address* : 4, South Avenue, Lucknow

GHADE, Bhagwantrao Gambhirrao, Minister for Forests, Govt. of Bombay, since Nov. 2, 1956 ; Advocate, Andhra High Court. *b.* July 27, 1912 ; *Educ.* : Bhokardan, Jalna, Aurangabad and Hyderabad. Started his career as an educationalist ; after some years became an Advocate of the Hyderabad High Court and started practice at Jalna. *Recreations* : Social activities. *Address* : 'Ajanta', Narayan Dabholkar Road, Bombay No. 6.

GHANDY, Sir Jehangir Jivaji, Kt., Cr., 1945, C.I.E., 1941, Director, Tata Industries Private Ltd., Jamshedpur, since 1945. *b.* November 18, 1896 ; *Educ.* : B.A. (Hons.), B.Sc (Hons.), Bombay University; B.S., School of Business, Columbia University, U.S.A ; B.Met. (Eng.), Carnegie Technological Institute, U.S.A. Member of the Inst. of Engineers (India), Fellow of the Inst of Fuel (Great Britain), Member of the Iron & Steel Inst. (Great Britain) ; joined the Tata Iron & Steel Co., Ltd., Jamshedpur, as Metallurgical Engineer, 1921 ; Supdt., Bar Mill, 1923 ; Asst. General Supdt., 1925 ; Gen. Supdt., 1930 ; Dy. General Manager, 1937 ; General Manager, 1938 ; Agent, Tata Sons, Ltd., 1944 ; Director-in-Charge, Tata Iron & Steel Co., Ltd., 1954 ; Director : Tata Locomotive & Engg. Co. Ltd., 1945 ; Macneill & Barry Ltd., 1951 ; Sindri Fertilisers & Chemicals Ltd., 1951 ; Chairman : West Bokaro Private Ltd., 1945 ; Indian Tube Co. (1953) Ltd., 1955 ; Member, Board of Governors, Indian Institute of Technology ; Member, Board and Governing Body, Council of Scientific & Industrial Research ; member, Court of Governors, Administrative Staff Coll., India ; Chairman : Metals Cttee., C.S.I.R. ; All India Board of Technical Studies in Management ; Eastern Regional Cttee., All India Council for Technical Education ; Advisory Board of the National Metallurgical Laboratory ; Chairman : Tech. Cttee. of Bihar Industrial Development Council ; Heavy Engineering Cttee., Govt. of India ; St. John Ambulance Assoc., Jamshedpur Centre ; Past-President, Indian Institute of Metals ; Asst. Commr. of St. John Ambulance Brigade (Overseas), Singhbhum Sub-District ; Associate Knight of the Venerable Order of St. John of Jerusalem ; Hon. Col. in the Territorial Army. *Address* : The Tata Iron & Steel Co., Ltd., Jamshedpur ; 23B, Netaji Subhas Road, Calcutta.

GHOLAP, Laxman Trimbak, B.A. (Hons.) (Lond.), I.C.S., C.I.E. (1946), Chairman, Bombay Port Trust, since Aug. 1949. *b.* Oct. 4, 1903 ; *Educ.* : Elphinstone and Deccan Colleges ; London School of Economics and Political Science ; Inner Temple. Joined I.C.S., 1927 ; Asst. Collector, Surat, Ahmedabad and Thana ; Collector, Thana, East Khandesh and Hyderabad (Sind) ; Registrar of Co-operative Societies in Sind ; Secy., Sind Govt., Home, General and Legal Deptts. ; Finance Secy., Sind Govt. ; Dy. and Joint Secy., Govt. of India, Finance Dept. ; Controller of Indian Shipping and Joint Secy. Ministry of Commerce, Govt. of India ; Secy., Home Dept., Govt. of Bombay ; Secretary to the Govt. of Bombay, Health and Local Govt. Dept. and Education and Industries Dept. *Address* : North End, Carmichael Road, Bombay.

GHOSAL, Satyendra Nath, Dip. in Fine Art (Cal.), Dip. (Teachership) Fine Art (Cal.). Painter. Head of the Fine Art Deptt., Govt College of Art & Craft, Calcutta. *b.* April 21, 1921 ; *Educ.* : Calcutta ; Slade School of Fine Arts, Univ. of London & Goldsmith's Coll. School of Art, London. Is an artist ; exhibited paintings in various exhibitions in U.S.A., U.S.S.R., China, Japan, Australia, Egypt, Rumania, Yugoslavia, etc. ; held four one-man shows in New Delhi, 1948, '49, '50 and '56 ; travelled widely in England, Scotland, France and Switzerland, 1954 ; held two 'one-man-shows' of paintings in London, 1954 and 1955 ; exhibitions in London were visited by eminent Art Critics and Artists ; paintings acquired by various Art Galleries and collectors in India and abroad. *Address* : Head of the Fine Art Deptt., Govt. College of Art & Craft, 28, Chowringhee Road, Calcutta 16.

GHOSE, Debes Chandra, Business man. *b* Jan 3, 1903 ; *Educ.* : Hare School, Scottish Churches College and Calcutta Medical College President, Tea Assoc. of India, 1957-58, Commercial Adviser, United Commercial Bank Ltd., 1950-57 ; member : Executive Cttee., Bengal National Chamber of Commerce & Industry, Calcutta., 1943-57 ; Executive Cttee., Federation of Indian Chambers of Commerce & Industry, 1938-48 ; and 1951-52 ; Indian Tea Licensing Cttee., 1934-52 ; Indian Tea Market Expansion Board, 1936-49 ; Central Tea Board, 1949-52 ; Planning Commission, Advisory Panel on Commerce ; Export Advisory Council, 1944-49 ; Export Promotion Cttee., 1949 ; Central Advisory Council of Industries, International Tea Cttee., London, 1946-50 ; Indian Cotton Delegation to Egypt, 1948 ; Commissioner, Calcutta Port Trust, 1945 and 1946 ; Director, Reserve Bank of India, Calcutta Area, 1945-48 ; Councillor, Corporation of Calcutta, 1946-48 ; served as Adviser to the Govt. of India Delegation to Ottawa Conference, 1932 ; Ex-Pres., Tea Chest and Plywood Trades Assoc., Calcutta, 1949-52 ; Vice-Pres., Indian Tea Planters' Assoc., Jalpaiguri, 1944-46 ; Managing Director : D. C. Ghose & Co. (Agents) Private Ltd., R. J. Alcock & Co. ; Managing Agent and Director : Malhati Tea Syndicate Ltd. ; Bijoynagar Tea Co. Ltd. ; Techno-Products Ltd. ; Technical Builders Private Ltd., etc. *Recreations* : Tennis, Games, etc. *Clubs* : Calcutta Club Ltd., East Bengal Club ; National Sports Club of India ; Delhi Gymkhana Club ; Royal Automobile Club (London). *Address* : 7, Burdwan Road, Alipore (Calcutta).



GHOSE, Ajoy, B.Sc. (Allahabad), General Secretary, Communist Party of India. *b.* Feb. 20, 1909 ; *Educ.* : Kanpur and Allahabad. Accused in Lahore Conspiracy Case, 1929 ; worked in Mazdoor Sabha, Kanpur ; member, Central Cttee. of the C.P.I., since 1933 ; member, Politburo, C.P.I., 1937. *Publications* : *Bhagat Singh and His Comrades, Theory and Practice of Socialist Party, Communist Answer to Pt. Nehru, Nehru's Resolution—A Hoax, Two Systems, A Balance Sheet*, 1959, etc *Address*: Central Headquarters, C.P.I., Asaf Ali Road, New Delhi.

GHOSE, Ajoy Kumar, B.Sc. (London), I.C.S., Joint Secretary, Ministry of Scientific Research and Cultural Affairs, Govt. of India. *b.* April 14, 1908 ; *Educ.* : St. Paul's School, Darjeeling ; King's Coll., London. Entered the I.C.S., 1932 ; served in undivided Bengal as Asstt. Magistrate, Joint Magistrate and Dist. Magistrate, 1932-42 ; and as Dy. Secy. and Joint Secy., 1942-47 ; Joint Secy., West Bengal, 1947-49 ; Chief Commissioner, Andaman and Nicobar Islands, 1949-53 ; Managing Director, Bharat Electronics (Private) Ltd 1953-May 1958. *Recreations* : Photography Reading. *Clubs* : Calcutta Club ; Delhi Gymkhana Club ; Bangalore United Services Club. *Address* : Ministry of Scientific Research and Cultural Affairs, New Delhi.

GHOSE, Amalananda, M.A., Director-General of Archaeology, Govt. of India, since 1953. *b.* March 3, 1910 ; *Educ.* : A. B. H. School, Banaras ; Queen's Coll., Banaras ; Allahabad Univ. ; Asstt. Supdt., Archaeological Survey of India, 1937-44 ; Superintendent, 1944-49 Dy. Director-General for Exploration, 1949-52 Jt. Director-General of Archaeology, 1952-53, excavated at Ahichchhatra, Taxila, Arikamedu, Harappa, etc., etc. ; conducted exploration in Bikaner and other places. *Publications* : Numerous articles on Indian history and Archaeology. *Address* : Director-General of Archaeology in India, Curzon Road Barracks, New Delhi.

GHOSE, Benoy Bhushan, M.Sc (Calcutta) Secretary, Deptt of Food, Ministry of Food and Agriculture, since Oct. 1956 *b* March 15, 1905 ; *Educ* : Presidency Coll., Calcutta Joined Indian Audit & Accounts Service 1930 ; Finance Deptt., Govt. of India 1939, Joint Secy., Ministry of Defence, 1947 *Address* : *Office* : Secretary, Department of Food, Ministry of Food & Agriculture, Multi storeyed Building, New Delhi ; *Residence* : 3, Aurangzeb Road, New Delhi.

GHOSE, Principal Devaprasad, M.A., B.L., President, All-India Jana Sangha, since March 1956 *b.* March 15, 1894 ; *Educ* : Mitra Institution, Calcutta ; Deoghar H. E. School ; Braja Mohan Institution, Barisal ; City Coll., Calcutta ; Presidency Coll., Calcutta ; Ripon Law Coll., Calcutta ; had a brilliant academic career Senior Professor of Mathematics, Ripon Coll (now Surendranath Coll.), Calcutta, 1914-41 ; Principal, Carmichael Coll., Rangpur, East Bengal, 1941-50 ; Fellow, Calcutta Univ. Advocate, Calcutta High Court, is a linguist and knows Bengali, Sanskrit, English, German, French and Italian ; started in association with late Pandit Shyamsundar Chakravarty the *Servant*, the leading organ of the non-co-operation movement in 1920-21, member Congress, 1915-22, Nationalist Party, 1923-42, Hindu Mahasabha, 1933-51 ; joined the Jana Sangha at its inception, 1951 ; elected to the Rajya Sabha on Jana Sangha ticket 1952, elected Pres., West Bengal Jana Sangha 1954 Vice-Pres., All-India Jana Sangha, 1955 has been a critic of Congress policy in its various aspects, since 1920. *Publications* : Several books on Mathematics ; also a number of books on literary and political subjects, viz., *Hindu Kon Pathe* (Whither Hindus ?) ; *Tarunyer Dan* (Youthfulness) ; *Satera Vatsar Pare* (Seventeen years after) ; *Bangla Bhasha O Banan* (Bengali language and spelling—containing among other things his famous exchange of letters with Poet Tagore). *Hobbies* : Solving cross-word puzzles. *Recreation* : Walking. *Address* : 59-B, Upper Circular Road, Calcutta 9.

GHOSE, Hazisaheb, B.A. (Hons.) (Econ.), M.A. (Mathematical Econ.), LL.B., Director of Industrial Statistics, Cabinet Secretariat Government of India. *b.* Jan. 1903 ; *Educ.* : South Suburban School, Bhawanipur, Calcutta ; Presidency Coll., Calcutta and Calcutta Univ. Law Coll. ; Premchand Roychand Scholar (1930), Mouat Medallist (1932). Professor of Economics, Ramjas Coll., Delhi, 1929-30,

Lecturer in the Dept. of Economics and Commerce, Calcutta Univ., 1930-48; Vice-Principal, Commerce Dept. and Senior Professor of Economics and Civics, Bangabasi Coll., Calcutta, 1930-48; Director of Industrial Statistics, Ministry of Commerce & Industry, Govt. of India, 1948-51; Chief Director, Directorate of National Sample Survey, Govt. of India, 1951-56; Officer on Special Duty, Sample Survey and Manufacturing Industries, Cabinet Secretariat, Govt. of India; *Publications:* A large number of papers on General Theory and Indian Economics, Indian Finance (1921-31). *Recreations:* Tennis, Cards. *Address:* 10, Lake Avenue, Calcutta 26.

GHOSH, Birendra Nath,* B.E. (Civil), Controller of Patents and Designs, since Oct. 21, 1954. *b.* Jan. 27, 1903; *Educ.:* The Scottish Churches Coll.; Bengal Engineering Coll. (Sibpur); took B.E. (Civil), 1925. Post-graduate training under Calcutta Port Commissioners in the King George's Dock Construction; served Simplex Concrete Piles Co. Ltd.; Asstt. Examiner of Patents, 1927-30; Examiner of Patents, 1930-48; Deputy Controller of Patents and Designs, 1949-54. *Clubs:* Engineers' Club, Calcutta; Central Services Club, Calcutta (Founder Member). *Address:* 214, Lower Circular Road, Calcutta 17.

GHOSH, Shuail Chandra, Managing Director: Universal (India) Trading Co. Private Ltd., New Gobindapur Coal Co (Private) Ltd, and Ghosh's Estate (Private) Ltd; Owners of Coal & China Clay Mines. *b.* in Calcutta on February 15, 1888. Twice elected as Chairman of the Indian Mining Federation (1930 & 1940); nominated by the Government of India as Employers' Delegate Adviser, 15th International Labour Conference, Geneva (1931); elected President, Geological Mining & Metallurgical Society of India, 1946-47; served as a Joint Honorary Secretary of the Bengal National Chamber of Commerce, Calcutta; elected on the Calcutta Port Trust (1931-32); Calcutta Improvement Trust (1927); Indian Coal Grading Board (1926-29 and 1932-33); Indian Soft Coke Cess Committee (1930-34); Coal Wagon Supply Committee (Railway Board); Railway Rates Advisory Committee (1930-33); E I Railway Calcutta Advisory Committee (1928, '29, '30 '31); Board of Income-Tax Referees, Bengal; Board of Industrial Conciliation Panel (Bengal); Asansol Mines Board of Health; nominated by the Govt. of India as Delegate to the International Coal Mining Committee held in London in December 1945; member, Coal Advisory Cttee., Ministry of Steel, Mines and Fuel, Govt. of India. *Address:* 33, Canning Street, Calcutta 1.



GHOSH, Surendra Nath, M.A., LL.B., Journalist; Editor, *The Pioneer*, Lucknow, since 1946. *b.* May 20, 1904; *Educ.*, Allahabad University. Started as a reporter; later became News Editor and subsequently Chief Assistant Editor of *The Pioneer*; Pres., U.P. Press Consultative Cttee.; Member: U.P. Planning Commission; Standing Cttee. of the All-India Newspaper Editors' Conference. *Recreation:* Gardening. *Address:* The Pioneer House, Lucknow.

GHOSH, Tarun Kanti, B.A. (Calcutta), Minister of State, Development, Govt. of West Bengal, since April 26, 1957. *b.* 1924; *Educ.:* Presidency Coll., Calcutta. Before joining politics was General Manager & Jt. Secy. "Amrita Bazar Patrika," Allahabad, & Calcutta; organised students' convention relief funds, etc. during student days; in 1952, was elected M.L.A. from Habra Constituency and appointed Dy. Minister, Development & Relief, 1952; elected from the same constituency securing record number of votes, 1957; made extensive tours in rural West Bengal and addressed mass meetings in connection with development work during the last five years. *Recreations:* Reading of books. *Clubs:* Calcutta Club; N.S.C.I.; N.C.C.; Mohun Bagan A.C.; Cossipore Club. *Address:* "Patrika House", 14, Ananda Chatterjee Lane, Calcutta 3; "Sisir Kunja", P.O. Barasat (24-Parganas).

GHOSH, Tushar Kanti, Editor, *Amrita Bazar Patrika*, Calcutta and Allahabad. *b.* Oct. 4, 1899; *Educ.:* Calcutta Univ., Bangabasi & Vidyasagar Coll. Started as sub-editor, 1920; founded *Jugantar* (Calcutta), Bengali daily; founded *Allahabad Patrika*, English daily; founded *Amrit Patrika* (Allahabad), Hindi daily; President: All-India Newspaper Editors' Conference (1946-47); Indian & Eastern Newspaper Society (1948-49); represented India at the Empire Press Union Conference in London, June 1946, and travelled extensively; President: Indian Journalists' Assoc., Calcutta, Andhra Journalists' Conference at Guntur, 1937; All-India Printers' Conference at Poona, 1939; All Jammu and Kashmir Conference; Bengal Film Journalists' Assoc and All-India Film Journalists' Conference, Lahore, 1941; Director, Press Trust of India; Managing Director, *The Jugantar Ltd.* and *The Amrita Bazar Patrika Ltd.* Leader, Indian Press Delegation to Egypt, 1950-51, member, Central Board of Film Censors, 1951-53; Delegate to International Press Institute Conference, Amsterdam, 1957, followed by extensive tour in western European countries, U.S.A., Japan and other far Eastern countries; Delegate to I P I. Second Asian Conference at Kandy, Ceylon, 1957. *Address:* 'Patrika House', 14, Ananda Chatterjee Lane, Calcutta; 10, Edmonstone Road, Allahabad.



GHULAM Ahmad, Pirzada, B.A. (1st Class), Chief Secretary to the Govt. of Jammu & Kashmir, since June 1954 *b* April 21, 1908; *Educ.:* Sri Pratap High School, Srinagar, 1922-24; Sri Pratap Coll., Srinagar, 1924-28; Govt. Coll., Lahore, 1928-30 Joined Jammu & Kashmir Audit & Accounts service, 1930; was trained in Indian Audit & Accounts service, 1933; Asstt. Accounts Officer, 1945; Asstt. Accountant General, 1947; Special Secy. and Chief Secy., Oct. 1947-Oct. 1948; Accountant General, Oct. 1948-June 1954; was member Inquiry Cttee. commonly known as Wazir Cttee. set up by the Jammu & Kashmir Govt. to examine the working of land reforms, price control, etc. in the State; has been member of various commissions of inquiry set up from time to time by the State Govt. *Recreation:* Angling. *Club:* Amarsingh Club, Srinagar. *Address:* Chief Secretary to the Government of Jammu and Kashmir, Srinagar.

GIDWANI, Vishno Lakhimal, M.A., B.Sc., I.C.S., Municipal Commissioner for Greater Bombay, since July 15, 1957. *b.* Feb. 4, 1914; *Educ.:* D. J. Sindh College. Assistant Collector; Backward Class Officer and Chief Inspector of Certified Schools, Bombay Province; Collector of West Khandesh; Dy. Secy. to the Govt of Bombay, Finance Dept.; Dy. Commissioner of Sales Tax, Bombay Province; Commissioner of Excise and Prohibition; Collector of Sales Tax; Financial Adviser and and Jt. Secy. to the Govt. of Bombay, Finance Deptt.; Secy. to the Govt. of Bombay, Agriculture & Forests Deptt. *Address:* Municipal Bungalow, 9, Carmichael Road, Cumballa Hill, Bombay 26.

GILL, His Excellency Naranjan Singh, Ambassador of India to Ethiopia, since Jan. 1955. *b.* Jan. 17, 1906. *Educ.:* Chiefs' Coll., Lahore; Prince of Wales Royal Indian Military Coll., Dehra Dun; Royal Military Coll., Sandhurst, England. Commissioned into the Indian Army as 2nd Lieut., Sept. 1925; Capt., Sept. 1934; Major, Sept. 1942; graduated from Staff Coll., Quetta, 1938; Staff Capt., A.HQ., 1939; D.A.Q.M.G. 11 Indian Div., Malaya, 1940; fought in the Malayan Campaign; after the fall of Singapore, 1942, Chief Advisor, 1st Indian National Army; imprisoned by the Japanese, Dec. 1942 till the end of war; then imprisoned by the British in the Red Fort, Delhi; released, April 1946; Pres., Combined Sikhs Board, at the time of the Cabinet Mission proposals, 1946; worked with the Congress and for Co-operative and Farmer's Movement in Punjab, 1947-55. *Recreations:* Tennis, Golf. *Address:* Indian Embassy, Addis Ababa, Ethiopia; Majitha, Dist. Amritsar, Punjab.

GINWALA, Sir Padamji Pestonji, Kt. (1927), B.A. (Historical Tripos, Cambridge, 1897), Barrister-at-Law, Adviser to Martin Burn Ltd., The Indian Iron & Steel Co., Ltd., Indian Standard Wagon Co., Ltd., and Burn & Co., Ltd; Director, Indian Iron & Steel Co., Ltd., Indian Standard Wagon Co., Ltd., India Steamship Co., Ltd., British Burmah Petroleum Co., Ltd. (Bombay); Member, London Board, Indian Iron & Steel Co., Ltd. *b.* Nov 1875; *Educ.:* Gujarat Coll., Ahmedabad; Trinity Hall, Cambridge; called to the Bar, 1899. Advocate, Chief Court of Lower Burma, 1905; member: Leg. Assembly, 1921-23; Indian Tariff Board, 1923; Pres., 1926-30; resigned, July 1930; Delegate, Imperial Conference, 1930; member: Round Table Conference, 1931; Ottawa Conference, 1932; World Economic Conference, 1933; Pres., Indian Air Force Pilots Selection Board, 1940 and 1941; Chairman: Iron and Steel (Major) Panel, 1945; Calcutta Terminal Facilities Cttee., 1947; Pres., Indian Institute of Metals, 1949 & 1951. *Address:* 12, Mission Row, Calcutta.

GIRI, V. V., Barrister-at-Law, Governor of Uttar Pradesh, since 10th June 1957. *b.* Aug. 10, 1894, in Berhampore; *Educ.:* National Univ., Ireland Trade Union leader for many years; General Secy. and Pres. of the All-India Railwaymen's Federation; twice Pres. of the All-India Trade Union Congress; Indian Workers' delegate to the International Labour Conference at Geneva in 1927; Workers' Representative in the Second Round Table Conference, London 1931; Member, Central Legislative Assembly for several years; Minister for Labour, Industries and Co-operation in the Madras Ministry during 1937-39; Minister in the Madras Govt. in 1946; High Commissioner for India in Ceylon; Minister for Labour, Govt of India, May 1952-Sept. 1954; Member, Lok Sabha, 1952-57; was defeated in the elections to the Lok Sabha, 1957; declared elected by the election tribunal. *Address:* Governor's Camp, Lucknow (U.P.); "Malathi", 4, Giri Road, Madras 17.



GODE, Parashuram Krishna, B.A. (Hons.), M.A., Curator, Bhandarkar Oriental Research Institute, Poona, since 1919. *b.* July 11, 1891; *Educ.:* The New English School and Fergusson Coll., Poona Professor of English and Sanskrit, Indian Women's Univ., 1918-19; Associate Member, "Ecole Francaise d'Extreme Orient" (Hanoi); Hony. Pres., Cultural Cttee. of Argentine; Hon. Editor, "Annual Bibliography of Indian Archæology," (Leyden); Hon. Collaborator, "Bibliography of Indian Philosophy," etc.; Distinguished Services Silver Jubilee Medal of B.O.R. Institute (1943); Recognised Professor and Head of the Dept. of Ancient Indian Culture of Poona Univ., publicly honoured on May 18, 1949, presented press copy of more than 100 papers from all parts of the world received for Gode Commemoration Volume; Hony. member and holds Hony. degree of Doctor of Letters of the "Haute Academie Latine Internationale des Sciences des Lettres, et edis Arts"; Founder, Dr. P. D. Gune Memorial Lectures at Poona Univ., 1955; Member of Council, Indian Institute for the History of

* On leave preparatory to retirement.

Science. *Publications :* Author of more than 400 research papers on Indology published in 50 different journals and volumes (1916-57); Editor of some of these papers in 4 volumes; Editor of *New Indian Antiquary, Review of Philosophy and Religion; Oriental Literary Digest;* Editor of Seven Commemoration Volumes; Editor, revised edition of Apte's Sanskrit-English Dictionary; Author of several volumes of descriptive catalogue of manuscripts. *Address :* Deccan Gymkhana Colony, Poona 4.

GOENKA, Rai Bahadur Sir Badridas, Kt., C.I.E., B.A., Merchant, Banker and Mill-owner, Hindu. *b.* 1883 ; *Educ. :* Graduated from the Presidency Coll., Calcutta, 1905. Partner, Ramdutt Ramkissendass; Chairman: Board of Directors, Hukumchand Jute Mills Ltd.; Hercules Insurance Co., Ltd.; New India Investment Corpn. Ltd.; Kamla Mills Ltd.; Standard General Assurance Co., Ltd.; Director: Reserve Bank of India (Central Board), 1935-41, State Bank of India, 1955-57; Hindusthan Motors Ltd., Rallis India Ltd.; Industrial Credit and Investment Corpn. Ltd.; Imperial Bank of India, Central Board, 1942-45 and 1946-55 and Calcutta Local Board, 1930-55; Pres.: Federation of Indian Chambers of Commerce & Industry, 1945-46; Marwari Assoc., 1928-30; Indian Chamber of Commerce, 1941; Trustee, Calcutta Improvement Trust, 1928-40; Victoria Memorial Hall, Calcutta; member: Bengal Legislative Council, 1923-35; Sheriff of Calcutta, 1932-33; made Rai Bahadur, 1925, C.I.E., 1928 and Knight Bachelor, 1934. *Club :* Calcutta Club. *Address :* "Goenka Niwas," 19, Belvedere Road, Alipore, Calcutta 27.



GOENKA, Keshav Prasad, Partner, Ramdutt Ramkissendass *b.* 1912. Sheriff of Calcutta (1950-51); Vice-Chairman, Central Tea Board (1953-54); Vice-Chairman, Indian Statistical Institute; Pres., Employers' Assoc., Calcutta; Member: Cttee. of Federation of Indian Chambers of Commerce and Industry; Cttee. of the All-India Organisation of the Industrial Employers; International Chamber of Commerce; Import Advisory Council, Govt. of India, 1948-51; Indian Central Jute Cttee. (1939-42); Bengal Economic Enquiry Cttee. (1938-41); Cttee. of the Indian Chamber of Commerce; Pres.: Indian Chamber of Commerce (1948-49), (1956-57); Indian Insurance Association, Calcutta (1948-50); Commissioner for the Port of Calcutta (1954-56); Chairman, The Hind Bank Ltd., Anglo-India Jute Mills Co., Ltd., Gungaram Tea Co., Ltd.; Hantajara Tea Co., Ltd., Carron Tea Co., Ltd., Vice-Chairman, Duncan Brothers & Co., Ltd.; Director: Reserve Bank of India (1948-49); Auckland Jute Co., Ltd., Amalgamated Coalfields Ltd.; Calcutta Investment Co. Ltd., Inchamale Jute Co., Ltd.; Jaipur Investment Co., Ltd.; Poobong Tea Co., Ltd.; National Tobacco Co. of India Ltd., New India Investment Corporation Ltd.; Octavius Steel & Co., Ltd. Jattaikola Tea Co., Ltd.; Standard General Assce. Co., Ltd.; Titaghur Paper Mills Co., Ltd.; Triton Insurance Co., Ltd.; The Champdany Jute Co., Ltd.; Marybong & Kyrl Tea Estates Ltd. (incorporated in Great Britain); Central Warehousing Corpn., etc. etc *Club :* Calcutta Club. *Address :* 31, Netaji Subhas Road, Calcutta 1; *Residence :* "Goenka Niwas," 19, Belvedere Road, Calcutta.



GOENKA, Ramanath, Chairman, Board of Directors, Express Group of Newspapers. *b.* May 11, 1902. *Address : Indian Express,* Mount Road, Madras 2.

GOKAK, Vinayak Krishna, M.A. (Bom. & Oxon.), First Class in English, B.A., and M.A., First Class in English Language and Literature in Oxford, Principal and Professor of English, Karnatak College, Dharwar. *b.* Aug. 9, 1909; *Educ. :* Majid High School, Savanur; Karnatak College, Dharwar; Jesus College, Oxford. Prof. of English, Fergusson Coll., 1931-36; Prof. of English and Principal, Willingdon Coll., Sangli, 1938-44; Prof. of English, Osmania Univ., 1944-46; Wilson Philological Lecturer in English, Bombay Univ., 1943-44; Pres., Kannada Poets' Conference, 1934; Karnatak Educational Conference, 1943; Principal M. N. College, Visnagar (1946-49); Principal and Prof. of English, Rajaram College, Kolhapur, 1949-52. *Publications : The Song of Life,* a collection of lyrics in English; *The Poetic Approach to Language* (O. U. P.); a novel, three plays and several collections of lyrics, letters and essays in Kannada. *Address :* Karnatak College, Dharwar.

GOKHALE, Bhalchandra Krishna, M.A. (Bombay), B.A. (Cantab.), I.C.S., C.S.I. (1st Jan. 1946), C.I.E. (1st Jan. 1942), Chairman, Tungabhadra Board, since March 16, 1955 *b* July 23, 1892 ; *Educ :* Fergusson Coll., Poona Wilson Coll., Bombay, Fitz-William Hall, Cambridge. Asstt Magistrate and Joint Magistrate, Cuttack; S. D. O., Khurda, Settlement Officer, Chota-Nagpur, District Officer, Manbhum, Gaya and Monghyr (Bihar), Secretary to the Govt. of Bihar, Education and Development Depts and subsequently Finance Dept; Commissioner of Bhagalpur and Patna Divisions; Adviser to H.E. the Governor of Orissa; Administrator, Damodar Project, Hazaribagh, Secretary, Govt of India, Ministry of Works, Production and Supply; Secretary to the President of India; Ambassador in Nepal *Publications :* Final report of the Survey and Settlement operations in Manbhum District, 1927; Final report of Revision Survey and Settlement operations in Kolarma, Government Estate. *Address :* 36, Deccan Gymkhana, Poona 4.

GOKHALE, Mr. Justice Bhalchandra Narayan, M.A., LL.B., Judge, High Court of Bombay, since Jan. 1955. *b.* July 16, 1901, *Educ* Elphinstone Coll., Bombay; Bombay Univ. School of Economics and Sociology, Govt. Law Coll., Bombay, winner of Sir James Taylor Prize, Sir William Wedderburn Scholarship, Telang Gold Medal. Advocate, High Court, 1926-55; Senior Advocate, Supreme Court, 1952-55; Editor, English Columns of the *Gujarati,* 1926-34; Hony. Secy., Bombay Presidency Assoc. and National Liberal Federation; Part-time Prof., Govt. Law Coll., 1938-41; Fellow, Bombay Univ., 1936-47; member, Syndicate, 1944-47; Fellow and Syndic, S.N.D.T. Indian Women's Univ., since 1945; Member of the Court, Poona Univ.; Vice-Pres., Mumbai Marathi Sahitya Sangh and Bombay Presidency Social Reform Assoc. *Recreations :* Bridge, Chess, Music *Clubs :* Cricket Club of India, National Sports Club, Club of Maharashtra, The Club, Maheshwar *Address :* Gokhale Building, 157-59, Girgaum, Bombay 4.

GOLCHA, Seth Hariah Chandra, a leading Industrialist Controls TALC (Soapstone) Mines in India; manufacturers of felt, felt hats, ironeswares, curios, etc.; Partner, S. Zoraster & Co., Jaipur; Director: Jaipur Mineral Development Syndicate (Private) Ltd.; Udaipur Mineral Development Syndicate (Private) Ltd.; East India Mineral Development Syndicate (Private) Ltd.; Udai Talc (Private) Ltd.; Associated Soapstone Distributing Co. (Private) Ltd.; Golcha Properties (Private) Ltd.; S. Zoraster & Co. (Supplies) (Private) Ltd.; Controls: Golcha Cinema, Delhi; Golcha Cinema, Bombay (under construction); Prem Prakash Talkies, Jaipur; Plaza Cinema, Ajmer; Plaza Talkies, Jubbulpore; Shri Talkies, Nagpur; has been controlling film distribution in Madhya Pradesh, Rajasthan and central India; Vice-Pres., Jaipur Chamber of Commerce and Industry; member, Executive Cttee.: Rajasthan Chamber of Commerce and Industry, Pres., Ram Lila Samiti; member: Governing Body, Maharani Gayatri Devi Girls' Public School; Industrial Advisory Council, Govt of Rajasthan; Mineral Advisory Council, Govt of Rajasthan; Vice-Pres.: Balika Vidyalaya, Rajdhani Samiti: is associated with many social institutions; is a keen sportsman *Address :* Johri Bazar, Jaipur.



GOLWALKAR, Madhav Sadashiv, M.Sc. (Biology), LL.B., Sarsanghchalak (Chief Organiser), Rashtriya Swayamsevak Sangh (R.S.S.). *b.* Feb. 8, 1906; *Educ. :* Hislop Coll. Nagpur; Benaras Hindu Univ. Joined Benaras Hindu Univ. as a Professor, 1930; in 1937 came in contact with Dr. Keshav Baliram Hedgewar, the founder of R.S.S. and eventually started taking keen interest in their work; returned to Nagpur where he became a regular visitor to Ramkrishna Mission, 1932; joined Ramkrishna Mission Ashram at Sargachhi, 1936, was initiated by Swami Akhandanandji, one of the close direct disciples of Ramkrishna Paramhansa after Swamiji's death returned to Nagpur and devoted his attention to R.S.S. work, after the death of Dr Hedgewar the founder of R.S.S., was appointed the head of that organisation. *Publications :* We or Our *Nationhood Defined* (English, Marathi, Hindi); *Speeches of Swami Vivekanand at the Chicago Conference* (Marathi). *Address* Dr. Hedgewar Bhavan, Nagpur.

GOMEZ, Alexander Anthony Joseph, I.C.S. (Hons.) (London), A.C.G.I. (Lond.); Deputy Master of the Mint, India Govt. Mint Alipore since March 1952 *b* March 15 1905 *Ed* St. Anthony's High School Lahore 1916-22; St. George's Coll., Barbowganj, Mysore 1922-27, Imperial College of Science & Technology (B.Sc.) & Guilds Engineering Coll. (A.C.G.I.) 1929-32, Student Engineer in the Great Western Rly, 1932-34; took one year's course in welding at Macbeths' Ltd. Lond. 1934 Joined M.E.S., 1935, commd. as 2nd Lieut. in the Corps of Indian Engineers Aug 1941, promoted Actg Lieut., Oct 1, 1942, Actg Capt., Jan 14 1943, Actg Maj. Feb 1, 1944; Temp. Major & W.S. Capt. from June 1, 1943, Deputy Mint Master Nov 27, 1947 to July 1951, Offg Mint Master Bombay, July 3-Nov. 2, 1951, Offg Mint Master, Calcutta from March 31, 1952 April 1, 1952; confirmed, April 1, 1952 *Publications :* History of Indian Coinage, published including dailies. *Recreations :* Hockey, Football Cricket Squash & Athletics *Clubs :* National Sports Club of India; Old Centralians, Calcutta Central Services Officers' Club, Calcutta *Address :* Mint House, Diamond Harbour Road, Alipore, Calcutta 27.

GOPALAKRISHNAN, P. A., B.A. (Hons.) (Madras), I.C.S., O.B.E., Chairman, Life Insurance Corporation of India, since April 10, 1958 *b.* Dec. 29, 1909; *Educ. :* Presidency College, Madras; Univ. College, London Joined the I.C.S. after passing the competitive exam. in London, 1932; served in many Districts of U.P.; Finance Secy, to U.P. Govt April 1947 to Dec. 1949; Financial Commissioner and Commissioner for Food and Civil Supplies, U.P.; Jt. Secy., Ministry of Food & Agriculture; Joint Secy., Cabinet Secretariat Govt. of India. *Clubs :* Naini Tal B.H. Club Ltd., Mohamed Bagh Club, Lucknow and Gymkhana Club, Delhi. *Address :* Jeevan Kendra, Jamshedji Tata Road, Bombay 1.

GOPALAN, A. K., M.P., Deputy leader Communist Group in Parliament. *b* O 1904; *Educ. :* Tellicherry, Malabar and Madras Political worker joined Congress

courted jail for 12 years; Pres., Kerala Congress Cttee. and member, A.I.C.C. for six years; joined Congress Socialist Party, 1934; hunger march from Malabar to Madras, 1937; elected member, Lok Sabha, 1952 and again in 1957. *Address:* 2, Windsor Place New Delhi.

GOPALASWAMY, Kurma Venu, B.A. (Madras), M.A. (Oxon.), Bar-at-Law. Registrar, Andhra University, since 1942. *b* Dec. 19, 1903; *Educ.:* C. M. S. High School, Ellore; Christian College, Madras; Balliol College, Oxford; Inner Temple, London. Prof. of History, Anglo-American Universities College, Madras, 1928-29; Private Secy. to the Agent of Govt. of India in S. Africa, 1930-31; Advocate, High Court of Madras, 1933-42; First Univ. Prof. of Law, Andhra Univ., 1935; Pres.: Rotary Club, Guntur, 1944, The Telugu Little Theatre, Vijayawada, Andhra Nataka Kala Parishat, 1951; member: Indian Sahitya Akademy, 1954-56; Indian Council for Cultural Relations; Indian Council of World Affairs, Waltair; Producer for the Andhra Univ. Experimental Theatre; Organizer: U. N. Volunteer Correspondent Speakers' Unit, Waltair, U.N.E.S.C.O. Club, Waltair; Editor, Best One Act Plays, in Telugu: *Publications: Limitations of Diarchy as a First Step Towards Representative Government;* Stories and Plays in Telugu in collaboration with Mrs. Seshu Bai Gopalaswamy. *Recreation:* Bridge. *Clubs:* The "Presidency," Madras, Waltair Club, Waltair, etc. *Address.* University Campus, Waltair.

GOPINATH, C., Natanakalanidhi, Dancer; Director, Natana Niketan, Madras. *b.* June 24, 1908; *Educ.:* Studied Kathakali for twelve years under several distinguished masters like late Paramu Pillai, Mathur Panikkar, Kesava Panikkar and Karunakara Menon, and Guru Kunju Kurup; specialised in the Art of Kathakali, and the classical forms of Indian Dancing. Left school at the age of thirteen and studied Kathakali and presented it in the orthodox form upto the age of 25, later modified the form of Kathakali for the modern stage and performed all over India; appointed Palace Dancer of Travancore; started Natana Niketan School of Dancing at Madras (1945), visited U.S.S.R. and other European countries as member representing Kathakali in the Cultural Delegation sent by the Govt. of India; acted in some films; has been devoting all his time to the development of dance, is Ex-Cttee. member, Sangeeta Nataka Sangam. *Publications. Abhinayadarpanam; Classical Dance Poses of India; Abhinaya Prakasika. Recreations:* Gardening. *Address.* Natana Niketan, Cathedral Road, Madras 6.

GORDE, Dr. D. P., Specialist surgeon in eye, ear, nose and throat. *b.* 1907; *Educ.:* Ahmadnagar and Christian Medical School, Miraj. Served the Medical Centre at Miraj as a Surgeon and Specialist (Ear, Eye, Nose, Throat) for eight years; was a Professor of Ophthalmology and Otolaryngology in the Medical School for 8 years, has to his credit the Corneal Transplantation Research; takes keen interest in social and public activities; was President of Miraj Municipality in 1939; is founder and was President of the Maharashtra Mandal at Miraj (Medical Centre); was editor of the Medical School magazine for several years; now conducts Gorde's Clinic at Miraj as a Specialist Surgeon; was member of the Miraj Senior State Legislative Assembly for three years; was a member of the Bakhale Constitutional Reforms Committee for Miraj Senior State in 1944; Pres., Rotary Club of Sangli, 1951-52; Moderator of the Church Council of the United Church in Northern India; Chairman, Board of Administration, Miraj Medical Centre; Hon. Magistrate, Miraj; was Pres., Miraj branch of Indian Medical Assoc., 1951; made a study tour in the U.S.A. and Mexico, visiting several hospitals and clinics. *Address:* Dr. Gorde's Clinic, Miraj (S.M.C.).



GOVINDDAS, Seth, Sahitya Vachaspati, Member, Lok Sabha. *b.* Vijay Dashmi Day, 1896; *Educ.:* Received high quality education at home in Hindi, English and Sanskrit; also knows Gujarati, Marathi and Bangla. Entered politics, 1919; elected to the Central Assembly, 1923; elected to the Lok Sabha, 1952 and 1957, courted imprisonment 5 times in freedom movements and remained 8 years in prison, member, A.I.C.C., since 1921, elected Pres., Mahakoshal Provincial Congress Cttee., 11 times and remained its Pres. for 20 years; elected Chairman, Reception Cttee. of Congress Session, Tripuri, 1939; member, Congress Working Cttee., 1950-51; Pres., A.I. Hindi Sahitya Sammelan, 1949, Leader, Indian delegation to Commonwealth Parliamentary Conference, New Zealand, 1950; Delegate to Commonwealth Parliamentary Conference, Canada, 1952, Speaker, Lok Sabha during oath taking ceremony and election of Parliament Speaker, 1957; elected first Pres., M.P.C.C. of reorganised M.P., 1957. *Publications.* Has written 104 plays in Hindi, one novel *Indumati* and 3 travel books on Africa, New Zealand, Australia Fiji & Malaya, and World Tour. Many of his plays have been staged and filmed, many have been prescribed for graduate and post-graduate courses in various Indian Universities and have also been translated into English and many Indian languages. *Address.* 33, Feroshah Road New Delhi; Raja Gokuldas Palace, Jabalpur (M.P.).

GOYAL, Air Commodore Surendranath, M.B.E., Indian Air Force. *b.* Dec 11, 1917, *Educ.:* Allahabad Univ., 1935, R.A.F. Coll., Cranwell (U.K.), 1936; R.A.F. Staff Coll., Bracknell (U.K.), 1946. Director, Air Headquarters, 1948-51; Commandant, Air Force Academy, 1951-52, Air Officer Commanding, Training Command, 1952-55. *Publications: Air Power in Modern Warfare* (Thackers, Bombay, 1952). *Recreations:* Community Service, Riding, Rowing, Yoga, Vedic and MSS. Research, Music. *Clubs.* Rotary, etc. *Address:* C/o Air Headquarters, New Delhi.

GRACIAS, His Eminence Valerian Cardinal, D.D., M. Agr., Archbishop of Bombay since Dec. 1, 1950. *b.* October 23, 1900; *Educ.:* St Patrick's High School, Karachi, St. Joseph's Seminary, Mangalore; The Papal Seminary, Kandy, Ceylon and The Gregorian Univ., Rome. Secy. to the Archbishop (1929-1936); Chancellor of the Archdiocese, 1929; Editor of *The Messenger of the Sacred Heart* (1935); Co-Editor of *The Examiner* (1936); Rector of the Pro-Cathedral, Dec 1941; Titular Bishop of Tanais and Auxiliary to the Archbishop of Bombay, April 11, 1946; Archbishop of Bombay, Dec. 1, 1950; created Cardinal, Jan. 12, 1953; Consultor of the Sacred Congregation for the Oriental Churches, The Sacred Congregation of the Sacraments and the Sacred Congregation for the Propagation of the Faith. *Publications. Features of Christian Life; Heaven and Home; The Vatican and International Policy. Address:* Archbishop's House, Bombay 1.



GREWAL, Sarwan Singh, C.I.S.M., F.C.C., Chief Inspector of Mines in India, Govt. of India, since 1954. *b.* April 5, 1906; *Educ.:* Govt. Coll., Lahore; Indian School of Mines, Dhanbad. After serving in the mining industry for 4 years, joined the Deptt. of Mines, 1934; Deputy Chief Inspector of Mines in India, 1951-54; Pres., Coal Mines Rescue Stations Committee, 1946-50 and 1953-54; deputed by the Govt. of India to Europe to visit mines and mining installations, 1950; as Economic Development Fellow of the U.N.T.A.A., studied the mining practices etc. in the U.S.A., Canada and Netherlands, 1952; represented India on the Seventh Industrial Conference of Directors of Safety in Mines Research, 1952; Pres., Executive Council of the Indian School of Mines and Applied Geology, 1954-57, elected Chairman, I.L.O. Sub-Cttee. on Safety in Coal Mines (at the Sixth Session of the I.L.O. Coal Mines Cttee. held at Istanbul), 1956, attended meeting as one of the I.L.O. Experts on the Prevention of Accidents due to Fires and Electricity in Coal Mines, Geneva, 1957, Pres., Mining, Geological and Metallurgical Institute of India, 1957-58. *Recreations:* Photography, Golf. *Clubs.* The Dhanbad Club. *Address:* Hirapur House, Dhanbad, E.R.

GUHA, Arun Chandra, B.A. (Calcutta), M.P. (Lok Sabha), Ex-Min. for Revenue and Defence Expenditure, Govt. of India; Journalist, Publisher, Author. *b.* April 1892; *Educ.* B. M. School and Coll., Barisal (East Bengal). Joined the 'Yugantar Party' the revolutionary party; after graduating, went underground during the First World War in connection with the Indo-German conspiracy; was in jail for over 23 years under Regulation III of 1818 as a State prisoner at several places; Gen. Secy., Bengal P.C.C., 1940-41; member: A.I.C.C. since 1938; Constituent Assembly, 1946; Provisional Parliament; elected M.P., 1952 and 1957; member, Estimates Cttee. of the Parliament from the beginning till he became Dy. Minister. *Publications:* has written short stories, novels and books on History, Politics and Cultural and Juvenile topics. Editor, *Mandira*, Bengali literary monthly and Dir., *Forward*, political and cultural English weekly. *Address.* 32, Upper Circular Road, Calcutta; C/o Lok Sabha Secretariat, New Delhi.

GUHA, Dr. Biren Chandra, M.Sc. (Cal.), Ph.D., D.Sc. (Lond.), Dean, Faculty of Technology, Calcutta University. *b.* 7th June 1904; *Educ.:* Calcutta, London and Cambridge; noted for his researches in Biochemistry with special reference to food and nutrition; on loan to the Govt. of India in the Food Department as Chief Technical Adviser, July 1944-June 1947; Member, Damodar Valley Corporation (1948-53); Ex-Counsellor, UNESCO; President of the Chemistry Section of the Indian Science Congress (1945); ex-Pres., Assoc. of Scientific Workers of India; member: International Cttee. for Biochemistry, 1949-54; ex-President, Institution of Chemists (India); Govt. of India delegate to the International Congress of Biochemistry, Brussels (1955); member: Indian Univs. delegation to Moscow Univ. (1954); Council of the National Institute of Sciences of India; Nutrition Advisory Cttee. of the Indian Council of Medical Research; Ghose Professor of Applied Chemistry, Calcutta University. *Publications:* Numerous scientific publications on biochemical and nutritional subjects. *Address:* 55/5, Manohar Pukur Road, Calcutta 29.

GUHA, Mr. Justice Braja Kanta, B.A. (Calcutta), I.C.S., Judge, High Court, Calcutta, since 1949. *b.* July 3, 1900; *Educ.:* High School, Hailakandi (Assam); Presidency Coll., Calcutta; Brasenose Coll., Oxford. Asstt. Magistrate and Collector, Bengal; Under-Secy., Finance Dept., Bengal Secretariat; District Judge, Bengal; Judicial Secy. and Legal Remembrancer, and Secy., Legislative Dept., Bengal; Relief Commissioner, Bengal. *Recreations:* Gardening; Horticulture. *Club:* Asiatic Society, Calcutta. *Address:* P15, Gariahat Road, Calcutta 29.

GUJRAL, Satish, Govt. Diploma in Art (1944), Diploma in Advance Painting, Mexico (1954), Painter. *b.* Dec. 24, 1925; *Educ.:* The Mayo School of Arts, Lahore; J. J. School of Arts, Bombay; Palacio Nacinol de Bellas Artes,

Mexico City, and at various art workshops at New York, Paris and London. Served for some time as the Art Executive, Punjab State Govt., and also as Vice-Principal, Govt. School of Arts, Simla; went to Mexico on a Mexican Govt. Fellowship; studied and travelled extensively in central and north America, and in Western Europe, for three years; held one-man-shows in Delhi, Bombay, Mexico City, New York, and London; won Academy Awards, 1956, 1957. Is now engaged on various mural projects with the Govt. of India. *Publications:* Articles on art and culture in leading Indian and Mexican journals. *Recreations:* Reading. *Clubs:* Delhi Silpi Chakra. *Address:* 33, Hanuman Road, New Delhi-1.

GULABCHAND Hirachand, Industrialist. *b.* 1896, at Sholapur; *Educ.:* Sholapur, Poona and Bombay. Chairman: The Premier Construction Co. Ltd.; Walchandnagar Industries Ltd.; The Ravalgaon Sugar Farm Ltd.; Walchand & Co. Private Ltd.; Indian Sugar Mills Assoc., 1953-54; Deccan Sugar Factories Assoc., 1942-43, 1947-48 and 1951-52; Deccan Sugar Technologists' Assoc., 1951-52; member: Bombay State Sugarcane Cttee.; Indian Central Sugarcane Cttee.; Development Council for Sugar Industry; Central Cttee. for Food Standards; Standing Advisory Cttee. on Sugar Standard; Minimum Wages Central Advisory Board; Bombay State Wage Board for the Sugar Industry and also Central Wage Board for the Sugar Industry; visited U.K., the Continent and U.S.A., 1930, 1951 and 1954; sentenced to 18 months' R.I. and fined Rs. 20,000 for breaking the restrictions placed on him during 1932 political movement. *Address:* Construction House, Wittet Road, Ballard Estate, Bombay 1.



GUNDEVIA, H.E. Yesdezard Dinshaw, B.A. (Hons.) (Philosophy) (Bom.), I.C.S., High Commissioner for India in Ceylon, since 9th April, 1957. *b.* June 19, 1908; *Educ.:* Matriculated from Bharda New High School, Bombay; graduated from Wilson Coll., Bombay; called to the Bar from Middle Temple, London. Entered the I.C.S., 1931; took over first appointment in the U.P., 1931; served in various districts as Joint Magistrate and Asstt. Settlement Officer; Addl. Collector, Gorakhpur, 1937-39; Collector and Magistrate, Mirzapur and Farrukhabad, 1939-45; Secy. to Representative of the Govt. of India in Burma, 1945-47; Counsellor in the Embassy of India, Rangoon, 1948; Joint Secy. and Controller-General of Emigration, Ministry of External Affairs, 1948-50; Minister-Counsellor, Moscow, 1950-53; Ambassador Extraordinary and Plenipotentiary for India in Switzerland and also Minister Plenipotentiary and Envoy Extraordinary in Austria and the Holy See, 1953-54; Dy. High Commissioner for India in U.K. with the personal rank of Ambassador, 1954-57. *Address:* C/o External Affairs Ministry, New Delhi.

GUPTA, Bhupesh, B.A., (Calcutta), LL.B. (Lond.), Barrister-at-Law, M.P. (Rajya Sabha), Editor, *New Age*, weekly organ of the Communist Party of India; Member, Central Committee of the C.P.I. *b.* Oct. 1914; *Educ.:* Calcutta and London Universities, Middle Temple; passed Intermediate and B.A. examinations while in detention without trial in Berhampore Detention Camp, 1933-36. Has been a whole time political worker. *Publications:* A number of political pamphlets. *Address:* 64A, Lower Circular Road, Calcutta 16; 13D, Feroz Shah Road, New Delhi.

GUPTA, Chandra Bhanu, M.A., LL.B., Ex-Minister for Industries, Planning, Health and Civil Supplies, U.P. (Govt. *b.* July 14, 1902; *Educ.:* Lucknow University. Started practising Law, 1925; member, A.I.C.C. since 1926; elected to the Court and the Council of Lucknow Univ., 1926; was elected its Hon. Treasurer, 1947; elected to the Municipal Board, Lucknow, 1928; elected Pres., Dt. Congress Cttee., Lucknow, 1929-44; Member, U.P.P.C.C., since 1933; elected to U.P. Legislative Assembly, 1937; served on the Board of High School and Intermediate Education, U.P., 1938; elected again to the U.P. Legislative Assembly, 1946; Parliamentary Secretary to the Chief Minister, U.P., 1946-47; Food & Civil Supplies Minister, U.P. Govt., 1947; took over Health Portfolio in 1948 and Planning and Industries Portfolios, 1954; courted jail for Congress activities in 1930, '31, '32, '33, '40 and '42. *Address:* Rajendra Mansion, Pandariba, Lucknow

GUPTA, C. P., Managing Director, Raj Traders Ltd., Jaipur. *b.* Oct. 7, 1913. Started career as a Sugar Technologist after qualifying in Sugar Technology from Glasgow, 1935; since then, held various positions as Sugar Technologist; appointed Technical Adviser, Delhi Cloth & General Mills and Barhni Sugar Mills; later became General Manager to D. C. M. Chemical Works, Delhi; in 1948 started his own concern at Jaipur known as Raj Traders Ltd., having a bone crushing and Fertiliser Factory at Jaipur, Kotah and Bahadurgarh; has plans for starting a Glue and Gelatine Factory from bones at Rajasthan; member: All-India Manufacturers' Organisation; Ex. Cttee., Chamber of Commerce and Industry, Jaipur and Rajasthan; Indian Council of World Affairs; Advisory Cttee. of Employment Exchange from Rajasthan, etc; Industrial Advisory Council; Advisory Cttee., Backward Class Dept.; Indian Red Cross Society; Life Member, Octroi Cttee., etc., also represents A.I.M.O. in Indian Institute of Standards in Chemical branch; Hony. Secy., Rajasthan Chamber of Commerce and Industry; member, Salt Cttee. of the Govt. of India for the utilisation of Salt Bitterns; Member, Small Scale Industries Board, Govt. of India and member, Bone Utilisation Cttee., Ministry of Industries and Commerce, Govt. of India. *Clubs:* Rotary Club; Rajasthan Flying Club (Life-member); Jaipur Club. *Address:* Raj Traders Ltd., Jaipur.



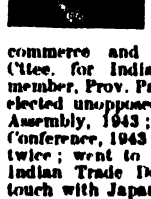
GUPTA, D. D., Deputy Speaker, Bombay Leg. Assembly. *b.* Nov. 1909, at Nagpur; *Educ.:* Tilak Vidyalaya and Science Coll., Nagpur; Banaras Hindu Univ. Started participating in National Movement from early childhood; joined National Movement and jailed for a year, 1930; organised students under the National Students' Assoc. which was later merged with the All-India Students Federation at Lucknow, 1935; imprisoned in 1941 and 1942; actively participated in the promotion of Physical Culture Movement at Nagpur; Organiser, Nagpur Akhada Sangh; Pres., Maharashtra Physical Education Conference; was running a School for Harijan boys, 1933; Secy., Nagpur Nagar Congress Committee, 1937-39; Secretary, Nagpur Provincial Congress Cttee., 1939-40; Vice-Pres., Nagpur Nagar Congress Cttee., 1940; Pres., 1940-47; led the National Movement of Nagpur, 1941-42; founded Marathi weekly 'Prakash', 1936; edited 'Congress Samachar' a Provincial Congress Weekly, 1939-40 and 'Vikas', 1946-47; elected M.L.A. from Nagpur constituency in the First General Elections, 1952; Minister for Social Welfare, Madhya Pradesh, Feb. 1952-Oct. 1956; Delegate to Social Workers' Welfare, in Toronto (Canada), 1953; Labour Minister, Reorganised Bombay State, 1956-57; Chairman, Bombay Village Industries Board, Bombay. *Publications:* Booklets on constructive activities and two dramas *Gokul Ke Chor* and *Dhanya Ke Morya Par*. *Address:* Council Hall, Bombay 1.

GUPTA, Hansraj, M.A., LL.B., Managing Partner, H. G. Gupta & Sons, Managing Agents of Delhi Iron Syndicate (Private) Ltd., Hansraj Gupta & Co. (Private) Ltd., Raj Engineering Works (Private) Ltd. and Central Distillery and Chemical Works Ltd., Meerut. *b.* 1905. Director: Raj Electrical Works Private Ltd., Raj Gupt Building Construction Private Ltd., Rohtak & Hissar Distt. Electric Supply Co. Ltd., Hissar, Pratap Bank Ltd., Delhi, Regd. Stock-holders (1 & 8) Assn. Private Ltd., Indian Hardware Industries Ltd., Amrit Vanaspati Co. Ltd., Bharat Kala Kendra Pr. Ltd., Sterling General Insurance Co. Ltd., Motor & General Finance Ltd., etc.; Director-in-Charge: Rampur Engineering Co. Ltd., Rampur; Delhi Iron & Steel Stockists (C.S.) Assn. Pr. Ltd.; Pres., All India Iron & Steel Stockholders' Federation. *Address:* 20, Barakhamba Road, New Delhi.



GUPTA, Ram Gopal, Business man. Director Beharilal Ramcharan Cotton Mills Ltd., Lakshmiratan Cotton Mills Ltd., Aurangabad Mills Ltd., Gannon Dunkerley & Co. Ltd., Indian Sugar Refineries Ltd., and other commercial and industrial institutions; undertook a world-wide tour in 1939-40 and Continental tour in 1948-49. *Recreations:* Music, sport and travelling. *Address:* Behari Niwas, Kanpur; Empire House, Hornby Road, Fort, Bombay.

GUPTA, Ram Ratan, Industrialist. *b.* Sept. 21, 1906. Entered business at the early age of 14, with control of the import, export and booking departments of his father's concern, is a staunch nationalist working hard for a comprehensive industrialisation of India; entered politics in early teens and joined Congress; held offices in the Congress and is now member A.I.C.C.; courted imprisonment during the Civil Disobedience Movements; on return from jail, went on a world tour; has travelled abroad several times, visited Japan thrice, represented the case of Indian commerce and industry before the Select Cttee. for Indian Constitutional Reforms, member, Prov. Parliamentary Board, 1936-37, elected unopposed to the Central Legislative Assembly, 1943; President, All-India Youth Conference, 1943; travelled all over the world, twice; went to Australia as member of the Indian Trade Delegation, 1945; is in close touch with Japan for industrial collaboration with India; member: Federation of Indian Chambers of Commerce; All-India Organisation of Industrial Employers; International Chamber of Commerce; Chairman, Beharilal Ramcharan Charitable Trust; is a philanthropist and head of several nation building activities; founder of several industrial concerns, *viz.*, Lakshmiratan Cotton Mill Co., Ltd.; India Supplies Engineering Works, The India Thermit Corporation Ltd; The Glass and Miniature Bulb Industries, Kanpur, Engineering Works of India Ltd., Calcutta, Lakshmiratan Engineering Works Ltd., Bombay, Kanpur and Faridabad; Beharilal Ramcharan Cotton Mills Ltd., Bombay, Aurangabad Mills Ltd., Aurangabad; Faridabad Engineering Works, Delhi, etc., Promoter and for two years Pres., Merchants' Chamber, U.P.; U.P. Stock Exchange Association Ltd.; one of the founders of Employers' Assoc. of Northern India, Kanpur; also connected with a number of other industrial and public concerns. *Publications: World Before the Second Great War* in Hindi (two volumes); *Time for Decision* in English; *Thesis on Co-operative Commonwealth* in 1940. *Recreations:* Travelling, Writing and Reading. *Address:* Behari Niwas, Kanpur.



GURUSWAMI, S., B.A., General Secretary, All-India Railwaymen's Federation. *b.* Sept. 28, 1904; *Educ.*: Tiruchirapalli, Madras State. One of the founders of the All-India Railwaymen's Federation, has been connected with Railway Trade Union movement since 1924; Indian Workers' Delegate, I.L.O., 1938; member, Central Legislative Assembly, 1946-47; member, Rajya Sabha, 1952-54; Pres., Southern Rly. Employees' Union; member: Indian Railway Inquiry Cttee., 1948; Vizagapatam Harbour Labour Cttee., 1949; Dearness Allowance Merger Cttee., 1952; Vice-Chairman, I.L.O. Inland Transport Cttee., Genoa, 1951; Workers' Delegate, I.L.O. Inland Transport Cttee., Geneva, 1954; visited Europe, Canada, U.S.A., Mexico, China, Burma, Philippines, Thailand, etc. for studying workers' conditions. *Recreations*: Social work. *Address*: Mylapore, Madras 4.

GWALIOR: Lt.-Gen. His Highness Sir Jiwajirao Scindia, Maharaja, Mukhtar-ul-Mulk, Asim-ul-Iqtidar, Rafush-shan, Wala Shikoh, Mohat-Asham-Dauran, Umdat-ul-Umra, Maharajadhiraj, Hisam-us-Saltanat, Alijah Bahadur, G.C.S.I. (1946), G.C.I.E. (1941), Malik-i-Muazzam-i-Rafi-ud-Darja-i-Inglistan, Maharaja of; was Raj Pramukh of Madhya Bharat till the merger of the State into M.P. in Nov. 1956. Chancellor, Banaras Hindu University. *b.* June 26, 1916. *Educ.*: Privately under distinguished tutors; passed Matriculation Examination in Second Division of Ajmer Board, attended Victoria College, Gwalior; received Settlement and Revenue Training at Lyallpur (Punjab), administrative training at Bangalore and Military training at Poona and Bombay; President, Chess Club of India, Bombay. *Recreations*: Motoring, Big game shooting, Riding, Tennis and Reading. *Clubs*: Jiwaji Club, Gwalior; The Roshanara Club, Delhi; The Royal Western India Turf Club, Bombay, The Willingdon Sports Club, Bombay; The Rotary Club, Gwalior. *Address*: Jai Vilas Palace, Gwalior.

GWALIOR: H.H. Maharani Vijaya Raje Scindia of Gwalior, M.P. (Lok Sabha) Fond of reading, Indian music and painting. Keenly interested in child and female education and uplift and progress of women; started a Montessori school for small children, which was visited and inspected twice by late Madame Montessori herself who very much appreciated the work done there. Is Pres., Board of Governors of the newly started residential girls' school, Scindia Kanya Vidyalaya, inaugurated by the President of India in 1956; is Chairman, State Advisory Board of the Women's Savings Campaign and of the Indian Council for Child Welfare, Madhya Bharat Branch; elected twice Vice-Pres., All India Women's Conference and President of its Gwalior Branch, Founder Pres., Vijaya Ladies' Club, Gwalior, elected to the Lok Sabha from Guna Constituency, Madhya Pradesh, March 1957 *Address*. Jai Vilas Palace, Gwalior.



GYANI, Major-General Prem Singh, O.B.E., Commandant, Defence Services Staff Coll., Wellington and Col. Commandant of the Regt., of Artillery, since 1955. *b* July 17, 1910; *Educ.*: The Prince of Wales Royal Indian Military Coll., Dehra Dun; The Royal Military Academy, Woolwich, United Kingdom. Joined the Indian Artillery in 1932 on being commissioned; served in the First Field Regt., Royal Indian Artillery; graduated from the Staff Coll., Quetta, 1941; served in Burma, 1942-45 and commanded 2 Field Regt.; Director, Artillery, Army Hqrs., 1947-50; attended the Imperial Defence Coll., U.K., 1951; appointed Commander of an Infantry Brigade, 1952-54; appointed as Alternate Delegate (Military), International Commission for Supervision and Control, Laos, 1954-55. *Recreations*: Golf, Riding. *Clubs*: Wellington Gymkhana Club; Gotacamund Hunt Club (Pres. of both). *Address*: Defence Services Staff College, Wellington (Nilgiris), South India.

HADJI VASSILIOU, His Excellency Nicolas, LL.B. (Athens), LL.M. (Paris), Ambassador of Greece to India, since Oct. 24, 1957. *b.* 1905; *Educ.*: Greece, France and Great Britain; took LL.B. from the Univ. of Greece, 1926 and LL.M. from the Univ. of Paris, 1929. Entered the foreign service, 1930; during the first ten years of his diplomatic career, specialised in economic negotiations, held several posts in the Greek missions in Paris, 1936-41; Charge d'Affaires to Spain, 1941-46; Principal Private Secy. to the Foreign Minister, 1946-47; accredited to four Arab countries (the Lebanon, Syria, Iraq and Jordan), 1947-50; Head of the Division for Economic Affairs at the Foreign Ministry, 1951; Permanent Representative to International Organizations in Geneva and to the Council of Europe in Strasbourg, 1952-55; participated in or presided over Greek Delegations to practically all international conferences held in Geneva, Strasbourg and Paris, 1952-55; played an important part in U.N. on behalf of all underdeveloped countries at the Revision Session of GATT (1954) presided over various international gatherings in Geneva and the Committee of Ministers of the Council of Europe in Strasbourg at the deputy level; Head of the Political Division of the Greek Foreign Ministry dealing with Middle Eastern Affairs, 1955; Ambassador on Special Mission to visit the twenty Latin-American Republics, 1956; Head of the Political Division in charge of questions about U.N., the American Continent and the Far East, 1957. *Publications*: Various books and articles on international affairs and international economic relations. *Address*: Royal Greek Embassy, Ashoka Hotel, New Delhi.

HAILE Sllassie, H.H. Imru, Order of the Seal of Solomon, G.C.O. Solomon, G.C.O. Star of Ethiopia, Kt. Com. O. Solomon, Kt. Com. O. Trinity, Com. De La Legion D'Honneur of France, C.B.E. of Great Britain, G.C. Flag of Yugoslavia etc. Ethiopian Ambassador in India. *b.* Nov. 1892. *Educ.* Menelik II School in Addis Ababa. Deputy-Governor, Harar Province, 1918-29; Governor, Wollo Province, 1929-32, Gojjam Province, 1932-35; C.-in-C., Ethiopian Army on the Shire Front during the Italo-Ethiopian War, 1935-36; was later C.-in-C. of all Ethiopian Forces in the fight against the Italians for one year; was captured and imprisoned in Italy; freed by the Allies, 1943; appointed Governor-General, Begemedir and Simen, May 17, 1944; Minister Plenipotentiary and Envoy Extraordinary of His Imperial Majesty to Washington, 1946-49; Ambassador Extraordinary and Plenipotentiary of His Imperial Majesty to Washington, July 1949-March 1953. *Club*: Gymkhana Club, New Delhi. *Address*: Imperial Ethiopian Embassy, 20, Prithviraj Road, New Delhi 2.

HAJARNAVIS, Ram-chandra Martand, B.Sc., LL.B., Deputy Minister for Law, Govt. of India. *b* Feb. 24, 1908. *Educ* Patwardhan High School, Nagpur; Morris Coll., Nagpur & Univ. Coll. of Law, Nagpur; Advocate, Bombay High Court & Supreme Court; Lecturer in Constitutional Law & Equity, Univ. Coll. of Law Nagpur (1951-54), Head of the Dept. of Studies in Law, Nagpur Univ. (1954), Treasurer, Univ. of Nagpur (1956); Pres., Bidi Kamgar Sangh (1941-49); Chairman, Janata Co-operative Housing Society since 1950; Councillor, Corpn. of Nagpur (1955). *Publications*: *Law of Agricultural Tenancy & Village Service Lands in the Central Provinces* (1948). *Recreation*, Gardening. *Club* Gondwana Club, Nagpur. *Address*: 12, Tughlak Lane, New Delhi.

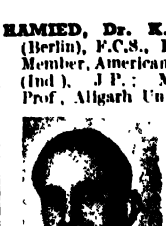
HAJI, Abbas Ali; B.A., R.E.S. (Lond.), F.R.S.A. (Lond.), N. K. D., a leading Industrialist in Bombay State; Chairman, Board of Directors and Managing Agents of Amraoti Electric Supply Co. Ltd., Amravati; Sole Proprietor, Messrs. Abbasali Abdeali Haji & Sons, Amravati Camp; Managing Agents and Chairman, Board of Directors, Saaza Bicycle Industries (India) Ltd., Amravati Camp *b.* 1895, of an ancient and well-connected family in Burhanpur, Madhya Pradesh; *Educ.*: Robertson College, Jabalpur; graduate of Allahabad Univ; founded the Amraoti Electric Supply Co. Ltd.; was a member and Vice-President of the Municipal Cttee. of Amravati Camp for several years; has served as an Honorary Magistrate, Amravati District, for a number of years; a Juror for several years; served on the Managing Committee of many educational institutions in the State; member, Managing Committee of Lady Dufferin Hospital, Amravati; life member, Nagpur University Historical Society; during 2nd World War served as a member of District War Cttee. and Refugee Relief Cttee; is a Freemason a Rotarian and a Clubman. *Hobbies*: Gardening and Shikar. *Address*: Haji Mansion, Camp Amravati.



HAKSAR, His Excellency Sundar Narain, M.A., B.Sc., Indian Ambassador in Afghanistan, since May 1957. *b.* Dec. 4, 1909; *Educ.*: St. Stephen's Coll., Delhi. Joined the I.C.S., 1933; served in various capacities in the Punjab; transferred to the Indian Foreign service, 1948; Counsellor in Embassy at Cairo 1948-49; Joint Secy., Ministry of External Affairs, 1950—March 1953; Minister in Embassy at Washington, Aug 1953—Sept 19, 1954; Ambassador at Ankara, Nov 1954—Nov 1956. *Clubs*: Delhi Gymkhana Club; National Sports Club of India, New Delhi. *Address*: C/o External Affairs Ministry, New Delhi.

HALDANE, John Burdon Sanderson, M.A. (Oxon), D.Sc. (Groningen), Dr. (Paris), LL.D. (Edin.). Fellow, Royal Society; Darwin Medal, Royal Society; Research Professor. *b.* Nov. 5, 1892; *Educ* Oxford Preparatory School; Eton Coll., Oxford Univ. Soldier, 1914-19; Reader, Cambridge, 1922-32; Professor, London, 1933-57; has been conducting research in biochemistry, genetics, statistics, comparative psychology, etc.; Corresponding Member: Soviet Academy of Sciences; Nat. Inst. of Sci., India; Humboldt Academy (German Democratic Republic); Royal Danish Academy of Sciences, etc. *Publications*: Over 20 books and over 200 scientific papers. *Recreations*: Swimming; change of work. *Address*: Indian Statistical Institute, 203, Barrackpore Trunk Road, Calcutta 35.

HAMIED, Dr. K. A., B.Sc., M.A., Ph.D. (Berlin), F.C.S., F.S.C.I., F.R.I.C. (Lond.), Member, American Chemical Society, F.I.A.Sc. (Ind.), J.P.; M.L.C., Bombay; Hon. Prof., Aligarh Univ.; Fellow, Bombay Univ. *b.* October 31, 1898; *Educ.*: Graduated in Science from Allahabad University in 1920. Joined the non-co-operation movement started by Mahatma Gandhi in 1920 and worked in the Congress Volunteer Corps, 1921; when Mahatma Gandhi laid the foundation of the National Muslim Univ., Aligarh, joined the staff of the National Muslim University, Aligarh, as Reader in Chemistry; was inmate of the Sabarmati Ashram during 1922 and all along took an active part in the fight for freedom; in 1924 when Mahatma



Gandhi stopped the non-co-operation movement, he left for Europe for higher studies and joined the Berlin Univ., where he worked under Professors Rosenheim, Nernst, Haber, Spranger and Freundlich; obtained Doctorate from Berlin Univ., 1927 and stayed several years in Europe for study of chemical and pharmaceutical industry; settled down in Bombay in January 1931; soon established a business in chemical and pharmaceutical products; in 1935 started a public limited company, under the name Chemical, Industrial & Pharmaceutical Laboratories, Ltd., briefly known as "Cipla" which has progressed very rapidly and is the Chairman and Technical Expert of this Company; under 1935 Constitution, was elected to the Bombay Legislative Council in 1937, as an independent candidate against Mr. Jinnah's Muslim League candidate; has been member of the Council for over 20 years and always stood by the Congress; Director of several firms in Bombay; President, Indian Chemical Manufacturers' Association, 1945-48 and 1949-50; Leader of the Indian Chemical Delegation to U.K. and U.S.A., 1945-46; Sheriff of Bombay, 1952-53; Member: Governing Body of the Council of Scientific & Industrial Research; Standing Advisory Cttee. for Industries, Bombay; Cttee of Indian Chemical Manufacturers' Assocn.; Pharmaceutical & Drugs Cttee., Govt. of India; Pharmaceutical Development Council, Govt. of India; Bombay State Industrial Research Cttee. and Standing Cttee. of Pilot Plants, Bombay; *Address:* 289, Bellasis Road, Byculla, Bombay.

KANDIQUI, Krishna Kanta, M.A. (Calcutta), Honour School of History (Oxford), Padma Shri (1955). Ex-Vice-Chancellor, Gauhati Univ.; Managing Trustee, Tirual, Bortimon and Timonhabi Tea Estates. *b.* 1898; *Educ.:* Calcutta, Oxford, Paris and Berlin Universities. Principal, Jorhat College, 1930-47; Vice-Chancellor, Gauhati Univ., 1948-57. *Publications:* English translation of Naishadhacharita of Sriharsha with Commentaries; Somadeva's Yasastilaka and Aspects of Jainism and Indian Thought and Culture. *Recreation:* Travelling. *Address:* Jorhat, Assam

KANNA, John Bassett, B.Sc., Petroleum Engineer, Managing Director, Standard Vacuum Refining Co. of India Ltd., since 1957. *b.* April 24, 1911; *Educ.:* Univ. of Pittsburgh, Pittsburgh Penna. Joined Esso Standard Oil Co., 1935; joined Standard Vacuum Oil Co., 1952, as Refinery Manager, Durban So Africa Refinery; made Managing Director of same Refinery, 1954. *Recreations:* Golf, Swimming, Fishing. *Clubs:* Bombay Presidency Golf Club *Address:* Stanvac Nagar East, Trombay, Bombay.

KANUMANTHAIYA, Kengal, B.A., LL.B., Ex-Chief Minister, Govt. of Mysore. *b.* 1908, *Educ.:* Maharaja's College, Mysore and Law College, Poona; took B.A. degree, 1930 and LL.B., 1932 Pres., Bangalore City Municipal Council, 1942; Secy., 1940-44 and Leader, 1945-49, Congress Party in the Mysore Representative Assembly; was Deputy Leader, Congress Party, Mysore Constituent Assembly, 1948-49; was Pres., Bangalore Dist. Congress Cttee. for 10 years; imprisoned seven times during freedom struggle; member: National Cadet Corps Cttee.; member, Executive Cttee. of the Congress Party in Parliament; represented India at the Inter-Parliamentary Union Conference held at Stockholm, 1949 and at Dublin, 1950; was member, Indian Parliament; Pres., Mysore Pradesh Congress Cttee., 1950-52; Chief Minister, Mysore, March 1952-Sept. 1956; re-elected to Mysore Leg. Assembly, 1957. *Address:* Gonarpet, Bangalore.

KARVEY, Maurice Francis Spencer Cronin, Lieut.-Commander, R.N.R. (Retd.), Master Mariner (F.G.), Royal Naval Reserve Decoration (1943), Member of the Hon'ble Company of Master Mariners (1947) and the Institute of Navigation (1948), Fellow, the Royal Geographical Society (1955), Associate, the Institution of Naval Architects (1955), Captain Superintendent, Training Ship "DUFFERIN", since 1943. *b.* July 16, 1907; *Educ.:* Wadham House, Hove, Sussex; Nautical Coll., Pangbourne; Merchant Navy (1924-31); Royal Naval Reserve (1927-50); Merchant Navy Training Ships (1932-57). *Clubs:* Royal Bombay Yacht Club; Bombay Gymkhana; United Services Club. *Address:* Training Ship "DUFFERIN", Mazagaon Pier, Bombay 10.

KASAN, Dr. Hadi, B.A. (Hons.) (Cantab.), Ph.D. (London), Professor of Persian, Muslim Univ., Aligarh. *b.* Sept. 3, 1894, at Hyderabad-Deccan; *Educ.:* St. Xavier's Coll., Bombay; Emmanuel Coll., Cambridge; School of Oriental Studies, London. Has delivered over 100 Extension Lectures in the Senate Halls of various Indian Universities; Honorary Visiting Professor at Santiniketan; Honorary Member of the Iranian Academy, Teheran, Pres., Cttee. to publish Persian MSS. with a recurring annual grant of Rs. 5,000 from H.I.M. the Shah of Iran. *Publications, Studies in Persian Literature*, 1923; *A History of Persian Navigation*, London, 1928, *Falaki Shirvani*, London, 1928; *Diwan-i-Falaki*, London, 1929; *Unique Diwan of Falaki in Madras*, Islamic Culture, 1950; *Mughal Poetry*, Hyderabad Govt. Press, 1952; *Unique Diwan of the Emperor Humayun*, Islamic Culture, 1953; *Kahi, His Life, Times and Works*, 1954; *Ducani-Kahi*, 1955; *Essays in Persian* (financed by the Indian Council of Cultural Relations and Govt. of Iran, 1956); Persian translation of *Shakuntala*, published by the Indian Council of Cultural Relations, 1956. *Recreations*, Public speaking and collecting funds for the proposed Medical College and Hospital at Aligarh. *Address:* 'Lalazaar,' Fort Road, Aligarh.

KASKELL, J. F., B.A., LL.B., M.I.J., M.J.I. *b* March 27, 1903 at Poona; *Educ.:* St. Xavier's Coll. (Fellow) and Govt. Law Coll., Bombay. Editorial Staff, *The Times of India*, 1927-33. Asst. Advt. Manager and Acting Advt. Manager, planning and producing Special Features and Supplements and Market Research Reports, 1933-53. *Club:* Cricket Club of India, Bombay. *Recreations & Hobbies:* Badminton, Indian History & Numismatics. *Address:* Matilda Building, Sussex Road, Bombay 27.

KATHI, Jaisukhlal, Deputy Minister for Irrigation and Power, Govt. of India, since Sept. 12, 1952. *b.* Jan. 19, 1909. Passed Law Exam. while serving as a teacher in Saurashtra High School, Rajkot. Enrolled as Advocate, Bombay High Court; sometime Dist. & Sessions Judge, Rajkot State; elected member, Constituent Assembly, 1946-47; was member, Provisional Parliament; appointed *ad hoc* Chief Secy., 1st *ad hoc* Congress Ministry, Saurashtra, Feb. 1948; was Secy. in-charge of the election organisation of the Saurashtra Congress Cttees. in the first general elections; returned to the Rajya Sabha from Saurashtra, served as one of the whips of the Congress Party in the Rajya Sabha; returned to the Lok Sabha in the second general elections. *Address:* Deputy Minister for Irrigation and Power, New Delhi.

KAZARIKA, Jogendranath, M.A., LL.B. (Calcutta), Parliamentary Secy. to the Minister for External Affairs - Tribal Affairs since Aug. 1952. *b.* Feb. 1924; *Educ.:* M. V. & M. E. Schools, Tengakhat; Govt. H.E. School, Dibrugarh; I. A. at Cotton Coll., Gauhati; B.A. at Ripon Coll., Calcutta, Calcutta Univ. Was Editor of 'Nayak'—a monthly Assamese Magazine, for several years; was Secy., Assam Tribal League Standing Cttee.; organized 'Village Defence Voluntary Forces,' during Japanese War; formed 'Tribal League Home Guards' for internal security and safety, 1947; was member, Parliamentary Standing Cttees. of Education, and Transport (both for Roads and other than Roads); Ex-Officio Member, Assam Road Transport Communication Board; member, Parliamentary Delimitation Cttee. for Assam; Convener, Assam State Group Cttees. and Tribal Affairs Standing Cttee. of the Congress Party in Parliament. *Publications:* Brochure: *Twenty-five Million Souls of Tribal India and the Constituent Assembly*, 1946. *Club:* Foreign Relations Society, New Delhi. *Address*, Dibrugarh, Assam (P.O. Tengakhat); New Delhi.

KEBBAR, Kattingeri Krishna, Artist. *b* June 15, 1912; *Educ.:* General Christian High School, Ullipi, S. Kanara; Sir J. J. School of Art, Bombay and Academy Julian, Paris. Held one-man shows in India, London, Paris and Switzerland; travelled extensively in Europe, U.S.S.R. and Poland; was Pres., Art Society of India, Bombay; member, Lalit Kala Akadami, New Delhi. *Publications, Hebbar Drawings and Paintings* (Nalanda Publication, Bombay). *Address:* Sunshine, 81, Cadell Road, Mahim, Bombay-16.

KEGDE, Dr. K. K., M.B.B.S., Minister for Health, Mysore, since May 1958 *b.* June 1907 in Kedinje Village, S. Kanara Dist.; *Educ.:* M.B.B.S. from the Madras Medical Coll. 1930, started private practice in Mangalore, 1930, represented the South Kanara Dist. Board in the Madras Univ. Senate, from 1935; Pres., S. Kanara Dist. Board, 1954-57, elected M.L.A., Mysore, 1957. *Address:* Bangalore

KEJMADI, Vasudev Subrao, B.A. (Hons.) (Bombay), B.A. (Cantab.), I.C.S., Chairman, Union Public Service Commission, since 1955. *b* Jan 26, 1900; *Educ.:* Elphinstone Coll., Bombay; Gonville and Caius Coll., Cambridge. Joined the I.C.S., 1923 and worked as sub-Collector and Collector in various districts; Dy. Secy., Development Dept., 1940; Secy., Revenue Dept., Madras, 1943-47; Provincial Textile Commissioner, 1947; Member, Board of Revenue, Madras, dealing at different periods with Civil Supplies, Abolition of Estates and Famine Relief, 1947-53; Adviser, Programme Administration, Planning Commission, New Delhi, Sept. 1953-55; served for a short period as Secy., Planning Commission, 1955. *Recreations:* Tennis, Golf, Shooting. *Clubs:* Cosmopolitan Club, Madras; Presidency Club, Madras, Gymkhana Club, Delhi; Golf Club, Delhi *Address:* 10, York Road, New Delhi

KENSMAN, Smt. Mona, B.A. (Hons.) (London), Principal, Ethiraj Coll. for Women, Madras, *b.* Aug. 25, 1899; *Educ.:* Bedford High School and Westfield Coll., London; King's Coll. and Maria Grey Trg. Coll., London, 1924 Languages: Latin, French, Urdu, Hindi, Tamil and English. Prof. of English, Kinnaird Coll., Lahore and Women's Christian Coll., Madras; member: Senate, Univ. of Madras, since 1940, Syndicate and Academic Council, Madras Univ., since 1936; Leg. Council, Madras, 1937-52; Hon. Pres. Magistrate (J.P.) and Pres., Juvenile Court, since 1939; member Film Censor Board, Madras; Rly. Consultative Cttee., Madras; ex-Chairman and now member, Bharat Sevak Samaj Camp Cttee., Madras, travelled in Italy, Switzerland, France, the British Isles, Canada, U.S.A., Mexico, China, Ceylon, Pakistan, Burma, Russia and throughout India; was member, Rajya Sabha, 1952-56 Pres., Federation of Univ. Women in India, 1957-59; Delegate to the U.N. General Assembly, 1957. *Publications:* Articles of current interest. *Recreations:* Music (piano); writing and correspondence; walking; reading *Address:* 12, Victoria Crescent, Madras 8

KEYDON, Peter Richard,* B.A., LL.B., Australian High Commissioner in India, since April 1956. *b.* Sept. 9, 1913; *Educ.:* Fort St. School and Sydney Univ. Barrister, 1936; entered Deptt. of External Affairs, 1936; Private Secy. to Minister, 1936; Sec. Secretary, Washington, 1940-42; Minister, 1943-44; First Secy. and Counsellor, Deptt. of

* Transfer from [illegible] reported [illegible] to succeed Mr. W. R. Crocker.

External Affairs, Canberra, 1945-47; Counsellor, London, 1947-50; Charge d'Affaires, The Hague, 1950; Minister to Brazil, 1951-53; High Commissioner to New Zealand, 1953-55. *Recreations:* Reading, Golf. *Clubs:* University, Sydney; Reform (London). *Address:* Australian High Commission, New Delhi.

HIDAYATULLAH, Chief Justice M., B.A., (Nagpur), B.A. (Cantab.), Barrister-at-Law, O.B.E. (1946), Chief Justice, High Court of Madhya Pradesh, since Nov. 1, 1956. *b.* Dec. 17, 1905; *Educ.:* Govt. High School, Raipur (1922); Phillip's Scholar, Morris Coll., Nagpur (1926); B.A. 2nd order of merit Malak Gold Medallist, Trinity College, Cambridge (1927-30), English and Law Tripos, Lincoln's Inn, Barrister-at-Law (1930). President, Indian Majlis, Cambridge (1929); Advocate, Nagpur High Court (1930-46); Lecturer, University College of Law (1935-43); Government Pleader (1942-43); Advocate-General, Madhya Pradesh (1943-46); Puisne Judge (1946); Acting Chief Justice (1954); member, Nagpur Municipal Committee (1932-33); member, Nagpur Improvement Trust; member, Nagpur University Executive and Academic Councils Court, etc. (1934-53); Dean of the Faculty of Law, 1949-53; member, Nagpur Bar Council, 1943-46; Chief Commissioner, Madhya Pradesh Bharat Scouts and Guides, 1950-53. Vice-Pres., National Council, Bharat Scouts and Guides, 1952; member, Faculty of Law, Saugor Univ.; Univ. Court, Vikram Univ. and Aligarh Muslim Univ. (1954); Chief Justice, Nagpur High Court, Dec. 3, 1954-Oct. 31, 1956. *Publications:* Miscellaneous papers. *Address:* Jubbulpore.

HIMATSINHJI, Major-General Maharaj Shri, C.I.E., Ex-Lt. Governor, Himachal Pradesh. *b.* August 12, 1897; *Educ.:* Rajkumar College, Rajkot; Malvern College, England. Commissioned in the Indian Army, 1917; Mily. Secy. and Home Minister, Nawanagar, and Member, Advisory Mily. Cttee. to the Chamber of Princes, 1931-39; Asstt. Mily. Secy. and subsequently First Secy. to the British Embassy at Tokyo, 1940-42; General Staff Officer, Grade I, Public Relations Directorate, G.H.Q., 1942-44; Dy. Dir., Public Relations and Inter-Services Publicity Liaison Officer, Washington, 1944-45; on special mission to various fighting fronts in Imphal, Arakan, Iran, Iraq, Italy, etc., 1942-45; Public Relations Directorate, G.H.Q., India, 1945; M.L.A. representing Indian Armed Forces, 1946-47; member, Indian Constituent Assembly, 1947; member, Union Constitution Cttee.; Chief Political Liaison Officer with Kathiawar Defence Force in the Junagadh operations, Kathiawar, Oct.-Nov. 1947; Military Adviser-in-Chief, Indian States Forces, Dec. 1947-Aug. 1950; retired from the Army, Jan. 1950; was elected as member of Parliament from Saurashtra, appointed Whip of the Congress Party; Deputy Minister, Defence, Govt. of India and Member, Council of Ministers, Indian Republic, 1950-52. *Address:* C/o Central Bank of India Ltd., Jamnagar.

HIRAY, Bhaurao *alias* Bhausaheb Sakharam, B.A., LL.B. (First Class), was Minister for Revenue and Agriculture, Bombay, April 1952-Oct. 1956; President, Maharashtra Provincial Congress Cttee., 1948-52; member, Congress Working Cttee. *b.* March 1, 1905; *Educ.:* Nasik upto Matric; Baroda upto B.A.; Poona Law College for LL.B. Began practising at Malegaon, Dist. Nasik; took to Social and Co-operative activities immediately; was elected to District Local Board, 1934 and Bombay Provincial Assembly on Congress ticket, 1937; was Parliamentary Secy. to Home and Revenue Depts.; resigned with Congress Ministries; was convicted for Satyagraha, 1940 and was detained for 15 months, 1942; was elected to Central Assembly in 1945; was Chairman, Reception Cttee., 56th Session of The Indian National Congress held at Nasik, Sept. 1950; is a social worker and Congress worker; M.L.A., Bombay. *Address:* P.O. Malegaon, Dist. Nasik.

HIREMATH, Smt. Gurudevi V., Social worker. *b.* of the ancient Boramani family of Sholapur, 1915; *Educ.:* Primary education in Marathi; studied privately English, Hindi and Kannad. Has been taking keen interest in social service from an early age; has served Mahila Mandal and Akkan Balag in various ways; is Pres., Dharwar Dist. Mahila Mandal and Akkan Balag; Convenor, Project Implementing Cttee., Dharwar, sponsored by the Central Social Welfare Board; was Pres., Reception Cttee. of 13th Karnatak Mahila Parishad; is interested in literature; is a fluent speaker; has developed proficiency in Fine Arts. *Publications: Mahileyar Chintane* (under publication), a booklet containing her thoughts on the future of women. *Address:* Deputy Commissioner's Bungalow, Dharwar (Mysore State).



HIREMATH, Virbhadrayya Shidhalingayya, B.A. (Bom.), M.A., LL.B. (Bom.), Deputy Commissioner, Dharwar. *b.* June 17, 1906, at Hiremalagavi (Bijapur Dist.); *Educ.:* Bagalkot, Karnatak College, Dharwar, Poona Law Coll. and R. L. Law Coll., Belgaum; B.A. (Bom.), 1928, M.A. (Bom.) 1930, LL.B. (Bom.), 1941. After graduation, served as a teacher in Rasveshwar High School, Bagalkot for a year; Probationary Mamlatdar in Dharwar Dist., Bombay State Revenue Deptt., Oct. 1930-Oct. 1937; appointed Mamlatdar at Hangal, Oct. 1937; served as Chitnis to Collector; appointed Prant Officer, May 24, 1944; served in various capacities as Prant Officer, General and Revenue Asstt. Commissioner, S. D., Municipal Administrator, Sangli and Settlement Officer; Collector, Karwar (N. Kanara), Nov. 8, 1956—June 1957; transferred to Dharwar, June 1957; takes active interest in economic and rural development and social welfare activities of the Dist.; as Pres., Dist. Sports Cttee., organised Folk Dance and Tableau of Kittur Channamma (Karnatak counterpart of Rani Laxmibai of Jhansi), organised and started Punyashram Industrial Co-operative Society for the Blind at Gadag, first of its kind, April 1958; is engaged in starting an Industrial Co-operative Society for lower middle class women at Dharwar, and organising Co-operative Dairy Farming Society at Dhumwad (Neersagar) for supply of milk to Dharwar and Hubli. *Recreations:* Tennis and Badminton. *Clubs:* Dharwar Rotary and Gymkhana. *Address:* Deputy Commissioner's Bungalow, Dharwar (Mysore State).



HOME, Amal, Journalist & Author; Chief Information Officer, Damodar Valley Corporation, since 1954. *b.* November 10, 1893, at Calcutta; *Educ.:* Calcutta Univ., received training in journalism, under Ramananda Chatterjee. Served under Surendra Nath Banerjea in the *Bengalee*, 1915-17; Asst. Editor, the *Punjabee* and the *Tribune*, Lahore, 1917-20; acted as Editor, the *Tribune* during Martial Law in the Punjab, 1919; was also connected with the *Hindustan Standard*, the *Nationalist*, the *Orient Illustrated Weekly* and the *India Monthly Magazine* as Magazine Editor, Literary Editor or Columnist; Served on the Governing Body of the Visva-Bharati, Executive Cttee. of the *Bangiya Sahitya Parishad* (Academy of Bengali Literature), the Indian Journalists' Assoc., the Bengal Board of Film Censors; planned and organized the Tagore Septuagenary Celebration, 1931 and the Newspaper Court at the All India Exhibition, Calcutta, 1948. *Publications: Rammohun Roy; The Man and his Work; Some Aspects of Modern Journalism in India; The Imperial Silver Jubilee Commemoration Volume* and the *Tagore Memorial Volume; Purushottam Itabindranath* (A monograph on Tagore in Bengali). *Address:* 169/B, Raja Dinendra Street, Calcutta; "Home Villa", Giridih.

HUSAIN, Dr. Iqbal, M.A., B.L., Ph.D., Professor and Head of the Deptt. of Persian, Patna Univ., since 1944. *b.* Nov. 22, 1905; *Educ.:* Patna and Law Colleges, Patna; Univ. Prizeman, Gold Medalist and Research Scholar; first Ph.D. of Patna Univ. Entered Bihar and Orissa Educational Service, 1935; Lecturer, 1935-38; Asstt. Prof., 1938-44; nominated by H.E. the Chancellor to be a Fellow, Patna Univ., 1943-48; Member of Senate, Patna Univ.; member: Syndicate, 1954-55; Academic Council and Faculties of Arts and Law, Patna Univ.; examiner up to Ph.D. and D.Litt. of Indian Univs.; member: Bihar Madrasa Examination Board, 1938-44 and 1952-55; Governing Body, Madrasa-i-Shamsul Huda; Managing Cttee., Khuda Bakhsh Oriental Public Library; Language expert of the Bihar, Hindustani Cttee.; representative of the Patna Univ. to various sessions of the All-India Oriental Conference; founder member, Editorial Board, Patna Univ. Journal; representative of Patna Univ. in the Indian Council of Cultural Relations, Govt. of India. *Publications: Tuhfa-i-Sami; The Early Persian Poets of India* and *Selected Qasidas of Urfi. Address:* Warden's House, Ganesh Road, Patna 5.

HUSAIN, M. Asim, B.A. (Punjab and Cantab.), Bar-at-Law, I.C.S., Deputy High Commissioner for India, London. *b.* Oct. 5, 1913; *Educ.:* Lahore, Oxford, Cambridge, London. Entered I.C.S., 1937; served in various capacities in the Punjab, 1937-42; Defence and later Information and Broadcasting Ministries, 1942-48; Dy. Secy., Ministry of External Affairs, 1948-52; Secretary General to the India Delegation to the General Assembly, U.N., 1946; Adviser to India Delegation to the Third Session of the General Conference of UNESCO, 1948; visited U.S.A. under Leader Exchange (point IV) programme to study administration of U.S. foreign policy, 1951-52; Consul-General of India, San Francisco, U.S.A., 1952-54; member, Indian Delegation to U.N. General Assembly, 1953; accompanied Prime Minister Nehru to U.S.S.R., Poland, Yugoslavia, etc., 1955; Jt. Secy., Ministry of External Affairs, Govt. of India, 1954-57; member, Managing Body, Indian Red Cross Society, since April 1956. *Publications: History of Panchayats in the Punjab, Fazl-i-Husain: A Political Biography*, etc. *Recreations:* Photography and music. *Club:* The Gymkhana Club, New Delhi. *Address:* C/o Ministry of External Affairs, New Delhi.

HUSAIN, Syed Ashfaque, B.A. (Hons.) (Oxon.), Barrister-at-Law of Lincoln's Inn, has been Joint Secy., Ministry of Education and Scientific Research, and Head of the Deptt. of Cultural Activities and Physical Education. *b.* March 21, 1905; *Educ.:* Magdalen College, School, Oxford and Oriel College, Oxford. Practised at the Bar for 3½ years; Lecturer in History and Political Science and Reader in Economics, Aligarh Muslim Univ.; Senior Lecturer at Mayo College, Ajmer; Information Officer, Govt. of India; Deputy Educational Adviser and Deputy Secy. to the Govt. of India, Ministry of Education; First Secy., Education Dept., Indian Embassy, Washington; Jt. Educational Adviser to the Govt. of India. *Publications:* Various articles in different journals and newspapers from time to time. *Recreations:* Listening to music, gardening. *Address:* C/o Ministry of Education, New Delhi; Sitapur, U.P.

HUSAIN, Saiyid Ehtesham, M.A. (Urdu), Gold Medallist, Urdu Critic; Reader in Urdu, Lucknow Univ. *b.* July 11, 1912; *Educ.:* Wesley High School, Azamgarh (U.P.); Govt.

Intermediate Coll., Allahabad; Allahabad Univ., Allahabad; took M.A. in Urdu, 1936. Appointed in the Persian and Urdu Deptt., Lucknow Univ., 1938; appointed Fellow of the Rockefeller Foundation (U.S.A.) to study 'Sociology & Literary Criticism' in U.S.A. & Europe, Sept. 1952—July 1953. *Publications:* *Viraney; Tanqidi Jueze; Rawayet Aur Baghawat; Adab Aur Samaj; Tanqid Aur Amali Tanqid; Zauq-E-Adab Aur Shaoor; Sahil aur Samundar; Urdu Sahitya Ka Itihas; Urdu Ki Kahani; Hindustani Lisaniyat Ka Khaka.* *Club:* University Staff Club, Lucknow. *Address:* Lucknow University, Lucknow.

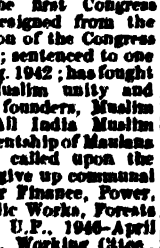
HUSAIN, Dr. Zakir, M.A., Ph.D. (Berlin), D.Litt. honoris causa (Delhi, Calcutta & Aligarh), Padma Vibhushan (1955), Governor of Bihar, since July 6, 1957.



b. Feb. 8, 1897; *Educ.:* Islamia High School, Etawah (U.P.); M.A.O. Coll., Aligarh; Univ. of Berlin. Vice-Chancellor, Jamia Millia, Delhi (1926-48); Vice-Chancellor, Aligarh Muslim Univ. (1948-56); Member, Univ. Grants Commission, till June 1957; was member, Rajya Sabha; member, Exec. Board, UNESCO; Chairman: World Univ. Service, Geneva, 1953-57; Central Board of Secondary Education, Ajmer; member: Univ. Educ. Commission; Indian Press Commission. *Publications:* *Shiksha* (Hindi); *Scope and method Economics* (Urdu); *Educational Addresses* (Urdu); *Capitalism: An essay in Understanding; translation into Urdu of Plato's Republic; Fr. Lists National System of Economy.* *Recreations:* Gardening. *Address:* Jamianagar, New Delhi; Raj Bhavan, Patna (Bihar).

HYDERABAD: Nawab Mir Osman Ali Khan Bahadur Nizam-ud-Daula, Nizam-ul-Mulk, Asaf Jah, Nizam of. *b.* April 6, 1886; *Educ.:* Privately. Ascended the *gadi*, August 29, 1911; is entitled to a salute of 21 guns; was Rajpramukh of Hyderabad till its disappearance as a State in Nov. 1956. *Address.* Hyderabad.

IBRAHIM, Hafiz Mohd., B.A., LL.B., Minister for Irrigation and Power, Govt. of India, since April 1958. *b.* 1889; *Educ.:* Aligarh Muslim Univ.; Univ. of Allahabad. Practised as an Advocate at Nagina, Bijnor and Moradabad for over 21 years; inquired into the affairs of National Arabic Univ. (Dar-ul-Ulum) Deoband; elected member, U. P. Leg. Council, 1926 and joined Swaraj Party; since then continued to be member, U. P. Legislature till appointment as Minister for Irrigation and Power, Govt. of India; worked for the organisation of Muslim Wagfs of U.P.; opposed the White Paper proposal, 1934; appointed Minister in the first Congress Cabinet of U.P., 1937; resigned from the Ministership, on the decision of the Congress Working Ctte., Nov. 1939; sentenced to one year 1940-41; detained, Aug. 1942; has fought vehemently for Hindu Muslim unity and accord; one of the main founders, Muslim Majlis, 1943; convened All India Muslim Conference under the presidentship of Maulana Azad at Lucknow, which called upon the Muslims of the country to give up communal politics, 1947; Minister for Finance, Power, Industries, Irrigation, Public Works, Forests and Co-operation Deptts., U.P., 1946-April 1958; is member, A.I.C.C., Working Ctte., Central Parliamentary Board and U.P. Congress Ctte. *Address:* 4, King Edward Road, New Delhi.

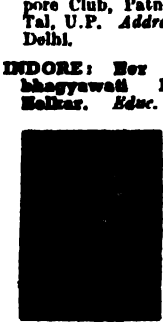


IDAR: His Highness Maharajadhiraj Maharaja Shree Himatsinghji Saheb Bahadur, the Maharaja of. *b.* September 2, 1899; Maharajkumar Shree Daljit Singhji, the *Heir-Apparent*; *Educ.:* Mayo College, Ajmer where he had a brilliant academic career; topped the list of candidates who appeared for that year's examination from all the Chiefs' Colleges, winning the Viceroy's Medal; at the college won every single class prize from the fifth form to the diploma, five for English and eleven for various other subjects. Was equally distinguished in the playing field; represented the Mayo College against the Aitchison College in tent-pegging and tennis; Was one of the best polo-players at the college all through; won the first prize for riding in 1915. On leaving college plunged into the administration of the State, working under the close supervision of his father His Late Highness; went on a tour of India in 1929-30 and acquired further practical experience of politics and administration; ascended the *gadi*, July 11, 1931; scored important successes on the Turf; won the Eclipse Stakes of India, 1937, the then Blue Ribband of the 'Indian Turf'; has also won three of the five Indian Classics, the Indian Derby, the Indian Two Thousand Guineas and the Indian One Thousand Guineas, 1948. *Recreations:* Hunting, pigsticking, horse-racing, music, painting and photography. *Address:* Pratap Palace, Himatnagar (Dist. Sabarkantha).



IMAM, Mr. Justice Syed Jafer, B.A., LL.B. (Cantab.), Bar-at-Law, Judge, Supreme Court of India, since Jan. 10, 1955. *b.* April 18, 1900; *Educ.:* Lynams Preparatory School, Oxford; Malvern Public School, England; Trinity Coll., Cambridge Univ.; called to the Bar, Middle Temple, Jan. 26, 1922. Enrolled as Advocate, Patna High Court, March 1922; Asstt. Govt. Advocate, 1932-39; Advocate-General, Bihar, 1942-43; Judge, Patna High Court, 1943-53; Chief Justice, Patna High Court, Sept. 3, 1953-Jan. 9, 1955. *Clubs:* Bankipore Club, Patna; Boat House Club, Naini Tal, U.P. *Address:* No. 8, York Road, New Delhi.

INDORE: Her Highness Shrimant Saubhagyawati Maharani Indirabai Holkar. *Educ.:* Privately; Takes keen interest in charitable institutions and is connected with Ahilya Sadan of Indore, Rajawade Historical Research Institute, Ramdas Research Institute of Dhulia, Maharashtra Sahitya Parishad, Vedic Research Society of Poona, Dharmakosha Karyalaya of Wai, All-India History of Indian Philosophy, Village Uplift and the Red Cross Society. Managed the Educational, Medical, Charitable and Household Depts. of the State during 1922-24. Chairman, Reception Ctte., A.I.W.C. Silver Jubilee Session held at Poona, May 1953. *Address:* Shree Vasudeobag, Indore.



INDORE: Major-General H. H. Maharajadhiraj Raj Rajeshwar Sawai Shree Yeshwant Rao Holkar Bahadur, G.C.I.E. (1935), LL.D., Maharaja of. *b.* Sept. 6, 1908; *Heir: s.* (by Gazette Extraordinary, 1950), Usha Raje Holkar, *b.* 1923; *Educ.:* England, 1920-23; Christ Church, Oxford, 1926-29. Succeeded to the *gadi*, 1926; assumed full ruling powers, 1930; has a salute of 21 guns within his territories and 19 outside; invited delegate to the Round Table Conference, 1931; was Senior Up-Rajpramukh of the Madhya Bharat State, till its merger in M.P. in Nov. 1956. *Recreations:* Tennis and Shikar. *Address:* Indore.

INDRA, Vidyavachaspati, Sahityavachaspati, M.R.A.S., Journalist; Vice-Chancellor Gurukula Univ. *b.* Nov. 9, 1889; *Educ.*, Gurukula Univ., Kangri. Pres., Hindi Newspapers Assoc., 1938; Chairman, Reception Ctte., National Convention, 1936; Pres., International League, 1955-57; was member, Rajya Sabha. Professor, Editor and Public worker. *Publications:* Books on Indian History, Politics and Fiction in Hindi *Recreations:* Gardening, Music. *Address.* Vice-Chancellor, Gurukula University, Kangri Hardwar.

ISMAIL, Amia-ul-Mulk Sir Mirza M., K.C.I.E. (1936), Kt. (1930), C.I.E. (1924), J.B.E. (1923), Ex-Resident Representative of U.N. in Indonesia. *b.* 1883; *Educ.:* Wesleyan Mission High School, Bangalore, with His Highness the late Maharaja of Mysore, at Mysore and Centra College, Bangalore. Superintendent of Police, 1905; Asstt. Secretary to H. H. the Maharaja, 1908; Huzur Secretary to H. H. the Maharaja, 1914; Private Secretary to H. H. the Maharaja 1922; Dewan of Mysore, 1926-41; Prime Minister of Jaipur, June 1942 to July 1946; Prime Minister of Hyderabad, August 194 to May 1947; Leader of the Indian Delegation to the Inter-Governmental Conference of Far Eastern Countries on Rural Hygiene, held at Bandoeng (Java), 1937; delivered Convocation Addresses of Annamalai, Madras and Calcutta Universities in 1935, 1938 and 1940 respectively and Patna and Dacca Universities in 1942, Nagpur University in 1943, Agra University in 1944, Benares Hindu University in 1945 and Aligarh Univ. in 1951. *Address:* Bangalore.

IYARAN, Manjeri Sundararaman, Writer in English (Free Lance). *b.* June 16, 1910. *Educ.:* Presidency Coll., Madras; took B.A. degree, 1929. Has been engaged purely in literary journalism and creative and critical writing, since 1931; edited a monthly called 'The Short Story', 1933-34; has been Asstt. Editor, Associate Editor and Deputy Editor of *Travers*, now issuing as a Quarterly from Masulipatam, Andhra Pradesh; is a member on its Advisory Board; Literary Editor, *Swatantra*, June 1953 - Sept. 1955 *Publications:* English: (Poetry) *Saffron and Gold* and other Poems (1932); *Altar of Flowers* (1934); *Catguts* (1940); *Brief Orisons* (1941); *Penumbra* (1942); *Song of the Gipsymaiden* (Translation of an old Tamil poem) (1945); *The Fourth Avatar* (1946); *Oblivion* (1950); *Rhapsody in Red* (1954); *The Neem is A lady* and other poems (1957); Criticism: *Venkataramani—Writer and Thinker* (1932); Drama: *Yama and Yami* (1948); Fiction: (Short Stories): *Naked Shingles* (1941); *Angry Dus* (1944); *Sita Ratri* (1943); *Rickshawalla* (1946); *Fancy Tales* (1947); *No Anklebell for Her* (1949); *Immersion* (1951); *Painted Tigers* (1956); In Tamil: *Kolu* (1944); *Singar* (1946). *Recreations:* Carpentry and Interio decoration. *Address:* 10, Pachaiyappas Hostel Road, Kilpauk, Madras 10.

IYARAN, V., B.A., Divisional Commissioner Nagpur Division, Bombay State. *b.* July 31, 1908; *Educ.:* Zamorin's College, Calicut and Madras Christian College. Assistant Collector and Collector in Bombay Province from 1932; Director of Agriculture, Sind and Bombay; Chief Secy., Govt. of Saurashtra till March 1950; Chief Secy., Govt. of PEPSU, Secretary, Agr. Dept., Govt. of Bombay, again Chief Secy., Saurashtra, Feb. 1955-Oct 31, 1956; Development Commr. & Ex-Officio Secretary, Political & Services Dept., Bombay *Address:* Nagpur.

IYENGAR, K. R. Srinivasa, M.A., D.Litt., University Professor of English, Andhra Univ Waltair, since June 1947. *b.* April 17, 1908 *Educ.:* Hindu College, Tinnevelly; St Xavier's College, Palamcottah. Taught in Ceylon (1928-31); Professor of English Lingaraj College, Belgaum (1933-44) Vice-Principal, Rajaraeshwar College, Bagalkot (1944-47); toured U.K. on the invitation of the

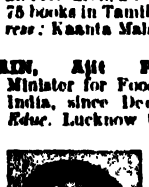
British Council, 1951. *Publications: Lytton Strachey: A Critical Study*, 1938; *Indian Administration* (with Prof. S. S. Basavanal), 1939; *S. Srinivasa Iyengar: The Story of a Decade of Indian Politics*, 1939; *Indo-Anglian Literature*, 1943; *Literature and Authorship in India*, 1943; *Sri Aurobindo*, 1945; *The Indian Contribution to English Literature*, 1946; *A New Deal for Our Universities*; *The Mind and Heart of Britain*, 1955, and other books; contributes articles and reviews to leading Periodicals and Newspapers. *Recreations:* Walking. *Address: Residence:* University Campus, Uplands, Waltair; *Vacation Add.:* "Aravind", Modakanallur P.O., Tirunelveli District.

IYER, Mr. Justice P. V. Balakrishna, B.A. (Hons.) (Madras), M.A., I.C.S., Judge, High Court of Judicature, Madras, since 1949. *b.* Sept. 26, 1900; *Educ.:* St. Joseph's High School, Pavaratty; St. Joseph's Coll., Trichy; Law Coll., Madras. Topped the list in the I.C.S. competition in India, 1923; Asstt. Collector, Madura; Sub-Collector, Sivakasi, Chandragiri and Rajahmundry; Dist. & Sessions Judge, Anantpur, Salem, Trichy, Tinnevelly, S. Arcot and Madura; was Secretary to the Govt. of Madras in the Legal Department and as such drafted a number of Acts including the Zemindari Abolition Act. *Recreations:* Tennis; Gardening. *Address:* 'Cranleigh', Greenways Road, Adyar, Madras.

IYER, Tiruvarur Pichu Iyer Subrahmanyam, M.A. (Madras), Registrar, University of Delhi, since 1947. *b.* March 6, 1900; *Educ.:* Govt. High School, Tiruvarur; Presidency Coll., Madras. Was temporarily employed in Govt. Offices and Indian Bank Ltd., Madras, till 1924; joined Delhi Univ as Personal Asstt. to the first Vice-Chancellor, late Sir Hari Singh Gour; Asstt. Registrar till 1947. *Publications:* Some articles in Journals and Magazines. *Recreations:* Tennis; Badminton *Club:* University Club, Delhi *Address:* University Buildings, Delhi 8.

JAGANNATHAN, K. V., M.A., Vidwan, Vagheesa Kalanidi, Sentamil Selvar, Tamil Essayist; Editor, *Kalaimagal. b.* April 13, 1906; *Educ.:* Kulittalai and Madras. *Publications:* Seven volumes of short stories in Tamil; several volumes of literary essays and research, a collection of poems, altogether 75 books in Tamil. *Recreations:* Bhajan. *Address:* Kaanta Malai, Kalyanasundaram, Madras 28.

JAIN, Ajit Prasad, M.A., LL.B., Minister for Food and Agriculture, Govt. of India, since Dec. 1954; Advocate *b.* 1902; *Educ.* Lucknow University Took part in all Civil Disobedience movements from 1930 onwards; M.L.A. (U.P.), 1937-48, Parliamentary Secretary, 1937-39; Member Constituent Assembly of India, 1946-50; A.I.C.C. for a long time; Member, Zamindari Abolition Cttee., U.P., Special Recruitment Board for I.A.S., I.P.S., etc; Minister for Rehabilitation, Govt. of India. *Publications:* U.P. Tenancy Act (Commentary on) and miscellaneous contributions to several publications on agrarian questions and land problems. *Address:* Ambala Road, Saharanpur; New Delhi.



JAIN, Jaichand, M.A., General Manager, Bennett, Coleman & Co., Ltd., since March 1960; Sheriff of Bombay, 1957-58. *b.* Oct. 20, 1911; *Educ.:* Hindu Coll., Delhi; Govt. Coll., Lahore. Represented Western India Life Ins. Co., Ltd. of Satara as Chief Agent & Branch Manager for Punjab, 1938-42; Dalmia Cement Ltd., Oct. 1942-May 1944; General Manager, Bharat Insurance Co., Ltd., June 1944-March 1950; Pres.: All India Federation of Master Printers, 1953; Audit Bureau of Circulation Ltd., 1958; Pres., Indian and Eastern Newspaper Society 1954-55; Chairman, Press Trust of India. *Publications:* Research thesis - post-Ranjit Singh period. *Recreations:* Indoor games; Travel. *Clubs:* Chelmsford Club & Roshanara Club, Delhi; National Sports Club, C.C.I., Radio Club, Orient Club, Rotary Club, Willingdon Sports Club, and Turf Club, Bombay. *Address:* 75, Walkeshwar Road, Bombay.

JAIN, Lakshmi Chandra, B.Sc. (Allahabad), I.C.S., has been Director-General of Civil Aviation. *b.* 1910; *Educ.:* Allahabad Univ. and London Univ. Joined the Indian Civil service, 1934; served as a Joint Magistrate and Dist. Magistrate in several districts in U.P.; was Director of Industries, U.P., for two years; Chief Secy., Govt. of Hyderabad for nearly three years; Chief Labour Commr. (Central) for two years; Dir. Genl. of Resettlement and Employment for six months. *Hobby:* Flying. *Clubs:* Delhi Gymkhana; Secunderabad Club; Delhi Flying Club. *Address:* C/o Ministry of Home Affairs, New Delhi.

JAIN, Narendra Kumar, B.A., Business man; Ex-District Scout Commissioner, Dehra Dun. *b.* July 19, 1923; *Educ.:* Muzaffarnagar, Deoband, Meerut; graduated from Agra Univ., 1943. After schooling went to Udaipur (Rajasthan), continued Congress work; during coll. life organised Students' Congress; participated in national struggle and arrested in 1942 movement; Pres., All India Jain Youth; State Councillor, U.P. Hindustan Scouts Assocs.; took up mineral work and formed several joint stock companies like Mineral Traders Ltd., Veer Sahitya Mandir Ltd., Disposals (India) Ltd., etc.; settled at Dehra Dun, 1946 and served there as Hony. Secy., Relief and Rehabilitation Cttee. formed by the Govt.; formed Bharat Construction Syndicate Ltd. for colonising Vijayalaxmi-nagar, Doon Commercial Corporation Ltd., edited an All India Arms & Ammunition Dealers Directory, the 1st of its kind, has been Hony. Secy., Crime Prevention Society; Chairman, Youth Service Cttee.; Hony. Jail Visitor; Hony. Distt. Probation Officer; General Secy., Bharati; Hony. Secy.: Dist. Red Cross Branch; Dist. Rifle Club, Dehra Dun; on the executive of many local educational institutions; Founder, Youth Welfare Council, a world organisation. *Publications: History of Scouting* besides some Jain Publications. *Clubs:* Rotary Club; Bharti, etc. *Address:* Hanuman Chowk, Dehra Dun, U.P.



JAIN, Shanti Prasad, B.Sc., Industrialist. *b.* 1912 at Najibabad, Dt. Bijnor, U.P.; *Educ.:* Benares Hindu Univ. and Agra Univ. Has two decades of close association with and knowledge of working and management of important industries like Cement, Sugar, Paper, Coal, Chemicals, Vanaspati, Asbestos Cement Sheets, and controls a chain of such industries situated in Bihar, under the managing agency of Sahu Jain Ltd., and Jute Mills in West Bengal; a keen student of Economics and Finance and deeply interested in statistical studies; strives for and believes in all-round industrial development through Indian enterprise for improvement in the people's standard of living; visited the Dutch East Indies in 1936 and Australia in 1945 as member of Indian Trade Delegation; visited U.S.S.R. as a member of the Govt. sponsored Industrial Delegation; associated with various Govt. Advisory Bodies and Industrial Organisations; President: Bihar Chamber of Commerce, Patna; Rajasthan Chamber of Commerce and Industry, Jaipur; Bihar Industries Assoc., Patna; Ex-Pres.: Federation of Indian Chambers of Commerce and Industry, New Delhi; All-India Organisation of Industrial Employers, New Delhi; Indian Chamber of Commerce, Calcutta; Indian Sugar Mills Assoc., Calcutta; Indian Paper Mills Assoc., Calcutta; Employers' Assoc., Calcutta; Chairman and Director: Sahu Jain Ltd., Rohtas Industries Ltd., The Punjab National Bank Ltd., Kalinga Tubes Ltd., Hindusthan Vehicles Ltd., Ashoka Cement Ltd., Bennett, Coleman & Co., Ltd., The Jaipur Udyog Ltd.; and Director: National Industrial Development Corporation Private Ltd., New Delhi; Founder, Bharatiya Gyan Peeth (Academy), Benares. *Address:* 11, Clive Row, Calcutta.

JAIN, Sahu Shriyans Prasad, M.P. (Rajya Sabha). *b.* 1908 in the Sahu family of Najibabad—(Ganesh Sadan), renowned for its traditional liberality and public service; has rendered invaluable services to the people of his town and district; has given large sums in charity and takes keen interest in all matters of social reform and public enlightenment; has done pioneering work in the field of girls' education, Seva Samitis and public libraries for the welfare of his district in particular and the State in general; President, Education Committee of the District Board, Bijnor; and Vice-Chairman, Municipal Board, Najibabad, for many years; has outstanding executive ability and a knack for big business; Chairman: Dhrangadhra Chemical Works Ltd.; Director: The New Kaiser-i-Hind Spg. & Wvg. Co. Ltd.; The Raymond Woollen Mills Ltd.; Carona Sahu Co. Ltd; The Dawn Mills Co., Ltd.; Podar Mills Ltd.; Bennett, Coleman & Co., Ltd.; Assoc of Indian Trade and Industry; Radio Lamp Works Ltd.; The New Swadeshi Mills of Ahmedabad Ltd.; The Amitabh Textile Mills Ltd.; Sahu Rubbers Private Ltd.; Cttee member: Indian Merchants' Chamber, Bombay; Federation of Indian Chambers of Commerce and Industry, New Delhi; Millowners' Assoc., Bombay; member, Indian Industrial Delegation to the U.S.A., the U.K. and the Continent, sponsored by F.I.C.C.I., 1957; Trustee, Bombay Hospital Trust; a leading figure in the Jain Community; patronizes a number of important institutions and reform schemes; specially interested in giving the community and the country its first full-length documentary films of ancient Jain Art and Architecture; ex-President, All-India Digamber Jain Parishad. *Address:* "Shikharkunj," 29-A, Carmichael Road, Malabar Hill, Bombay.



JAIN, Takhatmal (*See under* Jalori, Takhatmal).

JAIPUR: Lt.-General His Highness Sarmad-i-Rajahai Hindustan Raj Rajendra Shri Maharajadhiraj Sir Sawai Man Singh Bahadur, G.C.S.I., G.C.I.E., LL.D., Ruler, former State of Jaipur and head of the Kachhawa clan of Rajputs. *b.* August 21, 1911, *adopted s.* of Lt.-General Maharaja Sir Sawai Madho Singh Bahadur, G.C.S.I., G.C.I.E., G.B.E., LL.D., whom he succeeded on Sept. 7, 1922 and assumed full Ruling Powers, March 14, 1931; celebrated the Silver Jubilee in Dec., 1947; *Educ.:* Mayo College, Ajmer; Royal Military Academy, Woolwich. Holds the rank of Hony. Lt.-General in the Indian Army; Hony. Col. 61 Cavalry, and Raj Rifles (Sawai Man Grenadiers); commissioned in His Majesty the King's Life Guards (1939); attended Staff College course at Quetta, 1943; entitled to a permanent salute of 17 guns and to a local salute of 19; hereditary member, Court of the Benares Hindu Univ.; Pres., General Council,

Mayo Coll., Ajmer and the Indian Polo Assoc.; Trustee, Victoria Memorial, Calcutta; Patron, Indian Gymkhana Club, London; National Horse Breeding and Show Society, Delhi; C. C. I. Ltd.; Rajputana Cricket Club, Ajmer; Aero Club of India and Burma; Jaipur Flying Club; Jaipur Medical Assoc.; Northern India Amateur Boxing Assoc.; Vice-Patron, R.I.N. Benevolent Assoc., New Delhi; Life Member and Vice-Pres., Indian Rifle Club, England; Founder-Member, International Club of India; member, General Council of the King Edward Hospital and Medical School, Indore; became Rajpramukh of Rajasthan in 1949, on the integration of Rajputana States and continued as Rajpramukh till the institution was abolished on Nov. 1, 1956; is an international Polo player and in 1933 took his Polo team to England where it achieved exceptional success setting up a record by winning all open tournaments. *Recreations:* Polo, Tennis, Shooting and Flying. *Clubs:* Marlborough, Life Guards, Cavalry, Hurlingham, Roehampton (London), Jaipur, Willingdon Sports Club, Ootacamund (Nilgiris), Jodhpur Flying, W.I.A.A., Bombay. *Address:* The Palace, Jaipur.

JAIPURIA, Seth Mungtu Ram, Millowner, Merchant, Financier. *b.* 1901, of the famous Jaipuria family of Nawalgarh (Rajasthan); Chairman, The Swadeshi Cotton Mills Co. Ltd., Kanpur; Director and or Managing Director of many Joint Stock Companies which own Vegetable Ghee Factory, Collieries, Oil, Dal and Rice Mills, Rolling Mills, Mica and China Clay Mines, Real Properties, Silk and Art Silk Mills, Plastic Factory, Cotton Mills, Sugar Mills, etc., etc. Managing Director, Jaipuria Brothers Ltd., Calcutta; Director, Hindustan Mercantile Bank Ltd., Hercules Insurance Co., Ltd., Textile Machinery Corporation Ltd., Jay Shree Tea Gardens Ltd., National Insurance Co. Ltd., Aluminium Corporation (India) Ltd., Hindustan Motors Ltd., General Assurance Society Ltd., Jaipuria Properties Ltd., Ganesh Sugar Mills Ltd., Shree Anand Sugar Mills Ltd.; member, Cttees. of various Chambers of Commerce including Indian Chamber of Commerce, and Indian Sugar Mills Assoc., Calcutta; Member: Central Advisory Council for Industries set up by the Govt. of India; Uttar Pradesh Govt. State Planning Board; Founder, Seth Anand Ram Jaipuria Inter Coll., Anandnagar (District Gorakhpur), Seth Anandram Jaipuria Coll., Calcutta and Seth Anandram Jaipuria Eye Hospital, Nawalgarh (Rajasthan), in memory of his father; founder of and donor to, a large number of Educational and Charitable Institutions; greatly interested in social reform. *Address:* Swadeshi House, Civil Lines, Kanpur, U.P.; Jaipuria House, 51, Vivekananda Road, Calcutta.

JAIRAMDAS Doulatram, Ex-Governor of Assam; Journalist and Politician. *b.* 1892 at Hyderabad (Sind); *Educ.:* Graduated in Law, 1915. Practised as a lawyer, 1915-19; joined the Home Rule Movement, 1916; took part in Satyagraha Movement, 1919; member, All-India Congress Committee, 1917-41; participated in the Non-Co-operation Movement, 1920-21; *Editor, The Hindu,* Karachi, 1921; sentenced to two years for sedition; *Editor, The Hindustan Times,* Delhi, 1925-26; member, Bombay Leg. Council, 1927-29; Secretary, All-India Foreign Cloth Boycott Committee, 1929-30; joined Satyagraha Movement, 1930-34; wounded during police firing in Karachi on April 16, 1930 while pacifying mob; General Secy., Indian National Congress, 1931-34; member, Congress Working Committee, 1928-41; jailed again 4 times during Indian independence movement, 1930-34; released June, 1934 and again arrested in Aug., 1942; released in April, 1945; Governor of Bihar, 1947; Minister for Food and Agriculture, Govt. of India, 1947-50; awarded Hony. degree of Doctor of Literature by Saugor Univ., 1949; Governor of Assam, 1950-May 1956. *Address:* 14, Tughlak Road, New Delhi.

JALAN, Babu Lal, Business man. *b.* Feb. 15, 1908. Senior partner of Soorajmull Nagarmull; Chairman: General Assurance Society, Ltd., The Oriental Gas Co., Ltd., The Bombay Gas Co., Ltd., The Elphinstone Spg. & Wvg. Mills Co., Ltd., Asian Ltd., London; Director: Hind Bank Ltd., India Exchange Ltd., Aluminium Corporation of India, Ltd., Bengal Jute Mills Co., Ltd., International Shipping Co., Ltd., Calcutta Gas Co. (Proprietary) Ltd., Rungamattee Tea Company Ltd., North Bengal Sugar Mills Co., Ltd., etc.; Ex-Pres., Bharat Chamber of Commerce, Indian Hemp Assoc., Indian Commerce Assoc. and Indian Commerce Conference; member: Cttees. of the Federation of Indian Chambers of Commerce & Industry, Jute Balers Assoc., Advisory Board of the Bharat Sevak Samaj, West Bengal and Implementation Cttee. of the Flood-affected areas in West Bengal, etc.; was nominated member, Trade Delegation to Finland, Denmark and Sweden, etc.; launched a Rs. 4,000-crore-a-year Self-help Scheme, 1952; operated a pilot project in 12 villages of West Bengal. *Publications:* Rs.40,000 *million-a-Year Self-help Scheme; Food Problem in India. Recreations:* Rural welfare and social work. *Clubs:* Several Clubs. *Address:* Soorajmull Nagarmull, 8, Dalhousie Square (East), Calcutta.

JALAN, Iswar Das, M.A., B.L., Attorney-at-Law, Minister for Law and Local Self-Govt., West Bengal, since 1952. *b.* 1895; *Educ.:* Muzaffarpur and Calcutta. Solicitor; Councillor, Calcutta Corporation, 1927-30; member: Bengal Legislative Assembly, 1938-47; West Bengal Legislative Assembly, since 1947; Speaker, West Bengal Legislative Assembly, 1947-52. *Address:* 47, Zakaria Street, Calcutta 7.

JALAN, Nandkishore, Business man and Industrialist. *b.* March 8, 1921; *Educ.:* Privately under distinguished Professors of Calcutta Univ. and educationists. Entered business at the early age of 18; took over charge of Moon Mills, Ltd. (Cotton Mill), Bombay, 1944; took charge of Oriental Gas Co., Ltd., Calcutta and Bombay Gas Co., Ltd., Bombay, 1941; Partner, Soorajmull Nagarmull; now looks after the management of the oil, export, cotton mills, jute mills and gas departments of Soorajmull Nagarmull as also the Bengal Jute Mill Co., Ltd., Moon Mills Ltd., the Elphinstone Spg. and Wvg. Mills Co., Ltd., and the Bombay Gas Co., Ltd., is responsible for starting production in India of gas lamps hitherto available only by import; Chairman: Calcutta Jute Fabrics Shippers' Assoc.; Trustee, Howrah Improvement Trust; co-opted several times as a Cttee. Member of the Indian Chamber of Commerce, Calcutta; Director: Bombay Gas Co., Ltd.; Asiatic Textiles Co., Ltd.; Moon Mills Ltd.; W. H. Harton & Co., Ltd.; J. K. Chemicals Ltd., etc.; Life-member, Indian Red Cross Society. *Clubs:* National Sports Club of India; Calcutta South Club; Bengal Rowing Club (Cttee. member); Royal Calcutta Turf Club; 300 Club; Cricket Club of India; National Cricket Club; Calcutta Club Ltd. *Address:* Soorajmull Nagarmull, 8, Dalhousie Square (East), Calcutta.

JALORI, Takhatmal, Commerce, Industries and Agriculture Minister, Madhya Pradesh, since Nov. 1, 1956. *b.* 1895, at Basoda. Practised at the State Bar, 1918-43; Secy., Gwalior State Pleaders' Conference for several years and once President; member, Working Cttee., Gwalior State Congress, 1939; Pres.: Bhind District Political Conference, 1939; Working Cttee., Bharat Jain Maha Mandal; Chairman, Reception Cttee., All-India Digamber Jain Parishad, Bhilsa; Convener, first meeting of Public Workers of Gwalior State, which resulted in the formation of State Congress; the first non-official Minister for Rural Welfare and Local Self-Govt., Gwalior State; resigned, 1942; again appointed Minister as Congress nominee, 1947; inaugurated the Indore State Local Self-Govt. Conference, 1942; one of the founders of Jain High School, Bhilsa; started various Institutions at Bhilsa such as Vyayamshala, Sarvajanik Library, etc.; was Finance Minister in the Responsible Govt. in Gwalior State, 1948 and later in Madhya Bharat till Jan. 1949; was Vice-Pres., Provincial Congress Cttee., Madhya Bharat; Chairman: Transport Nationalisation Cttee., Madhya Bharat, 1949; Harijan Disabilities Enquiry Cttee.; Chief Minister, M.B., Oct. 1950-March 1952; Pres., Madhya Bharat P.C.C., 1953; Chairman: M. B. Land Reforms Cttee., 1954; Cttee. for the removal of disparity of pay scale of certain deptts., M. B. Govt., 1954; Chief Minister, Madhya Bharat, April 1955-Oct. 1956. *Address:* Commerce and Agriculture Minister, Bhopal.

JAMMU and KASHMIR, Yuvaraj Karan Singh Ji, M.A., Sadar-i-Riyasat of. *b.* March 9, 1931, at Cannes, France;



Educ.: Upto Senior Cambridge at Doon School, Dehra Dun, Dec. 1945; Intermediate as a Private Student from Allahabad Univ., 1947; B.A. as a Private Student from Jammu and Kashmir Univ., 1951; M.A. (Political Science) as a private student from Delhi Univ., 1957. Chancellor, Jammu and Kashmir Univ.; took over as Regent, i.e., Constitutional Head of the State, June 20, 1949; elected the first Sadar-i-Riyasat (Head of the State), by the Legislative Assembly, Nov. 17, 1952; elected Sadar-i-Riyasat a second time, Nov. 6, 1957. *Recreations:* Indian Classical Music; prolific reading particularly Political Science and Philosophy; Tennis, Chess. *Address:* The Palace, Srinagar (Jammu and Kashmir State).

JAMSHEDJI, Jal, Managing Director, N. V. Paint & Varnish Co. Private Ltd. *b.* March 24, 1911. *Educ.:* Elphinstone College, obtained technical training at Victoria Jubilee Technical Institute, Bombay. Founded Noble Paint & Varnish Co., one of the leading paint factories in India; has been responsible for the quick growth of his paint concern and will celebrate the silver Jubilee of his paint concern in 1959; also manufactures "Hammerlac" and "Polychromatic" Enamels and Plastic Emulsion Paints; is a keen sportsman and a member of Lodge Blackwell. *Address:* Noble Paint & Varnish Co. Private Ltd., Ferguson Road, Lower Parel, Bombay 13.



JAMUAR, Mr. Justice Brahmadeva Prasad, M.A. (Hons.) (Oxon.), Judge, High Court, Patna. *b.* Sept. 22, 1898; *Educ.:* City of London School, England; took Hons degree in Jurisprudence at Oxford, England. *Address:* Patna, Bihar.

JATTI, B. D., B.A., LL.B., Chief Minister Mysore State, since May 16, 1958 *b.* Sept 10, 1912, at Savalgi, Jamkhandi Taluka, Bijapur Dist.; *Educ.:* Matriculated from the Bijapur Govt. High School; graduated from Rajaram Coll., Kolhapur; LL.B. degree from Sykes Law Coll., Kolhapur, 1940. Practised as a pleader at Jamkhandi for five years; elected member, Jamkhandi State Legislature; was appointed Minister, Jamkhandi State under the diarchy Govt.; became its Chief Minister; reverted to legal practice on the State merging with Bombay State, March 6, 1948; nominated M.L.A., Bombay (q



represent the merged areas, appointed Parliamentary Secy to Mr B G Kher then Chief Minister of Bombay, appointed Dy Minister for Health and Labour Bombay after the 1952 General Elections became M I A Mysore after the reorganisation of States appointed Chairman, Land Reforms Cttee was Secy Praja Parishat of the former Jamkhandi State and also member Karnatak Prantiya Congress Cttee's Council *Address* Bangalore

JAWHAR, Ft.-Lt. His Highness Maharaj Shrimant Yeswantrao Patangshah Vikramshah, the Ruler of the former State of *b* December 11 1917 Heir Apparent



Shrimant Yuvaraj Maharaj Digvijaysinhrao born on Jan 5, 1940 *Educ* Rajkumar College Rajkot Blundell's Old Public School England received some administrative training in England had further practical administrative training in India under the Collector of Nasik Ascended the *gadi* and was invested with full ruling powers January 16 1948 is entitled to a permanent salute of 9 guns his State merged with Bombay State June 10 1948 served in the Royal Indian Air Force during World War II was member Lok Sabha having been elected on Congress ticket from Thana Lok Sabha Constituency in 1952 by 1 lakh 3 thousand votes *Recreations* Shooting Riding Tennis and Motoring *Illness* Jawhar Palace Jawhar

JAYAKAR, The Rt. Hon'ble Dr Mukund Ramrao, M A, LL D, D C L, P C *Educ* Bombay University Practised as a Barrister in Bombay High Court took to public life 1916, elected to Bombay Legis Council in 1923 and was Leader of the Swaraj Party in Bombay Council and Leader of the Opposition until his resignation after the meeting of the Congress 1925, entered Legislative Assembly as a representative of Bombay City in 1926, continued a member thereof till 1930, Dy Leader of the Nationalist Party there from 1927 to 1930 March leader of the Opposition in 1930 Simla Session, was a delegate to the Indian Round Table Conference in London and member of Federal Structure Cttee, member Indian Delegation Co operating with the Joint Parliamentary Cttee on the White Paper, appointed Judge of the Federal Court India, from October 1937, appointed member of the Judicial Cttee of the Privy Council, January 1939, resigned in March 1942, Member Constituent Assembly resigned from the Constituent Assembly early in 1947 Hon. Vice Chancellor, University of Poona, 1948 56 *Publications* Edited a book on Vedanta Philosophy in 1924 *Address* Winter Road, Malabar Hill, Bombay 6

JAYKRISHNA Harivallabhdas, Millowner and business man, Pres Ahm Ind Millowners' Assoc, 1956 57 *b* Oct 11 1919; *Educ*, Calcutta and Ahmedabad Joined his father's business early in life, 1936, got extensive training under the guidance of his father, on the demise of his father took over management of two textile Mills, Shri Ambika Mills Ltd and Shri Jagdish Mills Ltd, was responsible for expanding the units, is also connected with various other business and industrial concerns; Director New India Industries Ltd, Vulcan Insurance Co, Ltd.; Plokers Ltd, Bharat Bobbins Private Ltd.; T Manekial Manufacturing Co, Ltd.; Lok Prakashan Ltd; The Standard Mills Co, Ltd.; Ahmedabad Advance Mills Ltd.; Lalbhai Tricumlal Mills Ltd; Jayabharat Insurance Co Ltd, Anil Starch Products Ltd etc entrusted with the management of Lalbhai Tricumlal Mills Ltd as attorney member Textile Trade Marks Advisory Cttee Local Advisory Cttee of the United Commercial Bank Ltd ex Cttee of the Gujarat Chamber of Commerce takes keen interest in several social activities elected M I A Bombay from Ahmedabad City on Congress ticket in the General Elections 1952 has made liberal donations of about Rs 20 00 000 on his behalf and on behalf of concerns managed by him to Ahmedabad Education Society Gujarat Univ and other similar institutions has made extensive tour of foreign countries to acquaint himself with industrial development there, visited Japan twice has been to Egypt England the Continent and the U S A 1946 '49 51 '55 and '57 attended the I L O Conference at Geneva as Employers' Representative on behalf of the Govt of India member Western India Automobile Assoc *Clubs* Rotary Club of Ahmedabad, Cricket Club of India Willingdon Sports Club *Address* Shahibag, Ahmedabad 4

JEEJEEBHOY, Feroze, B A (Hons), Barrister at Law, Chairman Labour Appellate Tribunal of India since Jan 6 1955 *b* 1895, *Educ* School and College in Rangoon Grays Inn Barrister at Law Practised at the Rangoon Bar Legal Adviser to the Govt of Burma in India during the War Years, Chairman Central Govt Industrial Tribunals at Dhanbad and Calcutta 1948 50 member Labour Appellate Tribunal 1950 55 Chairman Central Govt's Wage Board for Cotton Textile Industry 1957 *Address* Firuz Ara Church Gate Reclamation Bombay

JEHANGIR, Sir Cowasji (Bart), M A. (Cantab), G B E (1944) K C I E (1937), C I E (1920) O B E (1918) *b* Feb 16, 1879 *Educ* St Xaviers Coll Bombay and St Johns Coll, Cambridge Member, Bombay Corporation 1904 21 Chairman Standing Cttee 1914 15 Pres Bombay Municipal Corporation 1919 20 Hon Secy War Loan Cttee 1917 18 member of the Legislative Council member Executive Council Govt of Bombay 1921 22 and 1923 28 elected member Legislative Assembly for the City of Bombay 1930 47 delegate to the R T Cs 1930 1931 1932 delegate London Monetary and Economic Conference 1933 delegate Empire Parliamentary Conference London 1935 representing the Central Legislature Pres National Liberal Federation of India 1936 one of India's representatives at the Coronation London 1937, Chairman Bank of India Ltd The Oriental Life Assurance Co Ltd and a Director of the Tata Iron & Steel Co Ltd Tata Chemicals Ltd, Tata Locomotive & Engineering Co Ltd, The Bombay Burmah Trading Corporation Ltd and several other companies succeeded to the Baronetcy on July 20 1934 *Clubs* Marlborough and St James', London Asian Ripon Orient Willingdon Bombay *Address* Readymoney House Malabar Hill, Bombay

JENKINS, Sir Owain Trevor, B A (Oxon), Kt (Jan 1 1958) Director, Balmer Lawrie & Co Ltd since 1946 *b* Feb 20 1907, *Educ* Charterhouse School and Balliol Coll, Oxford Balmer Lawrie & Co Ltd, 1929, Indian Army 1940 43 Directorate General of Munitions Production 1944, rejoined Balmer Lawrie & Co Ltd 1944 Pres Bengal Chamber of Commerce and Industry 1956, Associated Chambers of Commerce, 1956 Director, State Bank of India 1957 *Clubs* Bengal Club Calcutta, Royal Bombay Yacht Club, Bombay, Oriental Club, London *Address* C o Balmer Lawrie & Co Ltd, 21, Netaji Subhas Road, Calcutta 1

JERATH, Harbans Lal, B A, M S P (Eng), F R Econ S (Lond), Dip Fr (Lond), Retd Director-General of Posts and Telegraphs, Govt of India, Chairman, Blackwood Hodge (India) Private Ltd Calcutta since Jan 1957 *b* July 1899 at Hoshiarpur Joined Indian Postal Service after graduating from Govt Coll Lahore Dec 1919 was Divisional Supdt Postmaster and Telegraphs in Assam Bihar, Bombay and U P till 1935 Asstt P M G, Lucknow 1935 became Asstt Dir General Posts and Telegraphs Directorate Govt of India N W Delhi 1937 deputed as a Plenipotentiary Delegate to the Universal Postal Union Congress held at Buenos Aires (Argentina) 1939 Dy I M C Bihar and Orissa Circle 1942 Director Posts and Telegraphs Simla Baluchistan and Iran Gulf Circle 1944 played a leading part in the Partition Office 1947 Secretary Posts Director General and Member Posts and Telegraph Board Govt of India 1947 Visited England and Europe as Leader Indian Delegation to the International Postal Union Meeting 1950 54 Plenipotentiary Leader of the Indian Delegation to the XIII P U Congress of the Universal Postal Union held at Brussels 1952 Confirmed as Director General Indian Posts and Telegraphs Deptt 1953 rganised the Centenary celebrations and the International Telegraph Exhibition 1953 conducted the Indian Postage Stamp Centenary celebrations the International Postage Stamp Exhibition and the International Postal Exhibition first of its kind in Asia Director, Panch Shila Pharma Private Ltd New Delhi *Clubs* Gymkhana Club New Delhi *Address* 60/48, Diplomatic Enclave, New Delhi

JHA, Bhola Nath, M A I C S C I E (1946), Secretary Ministry of Home Affairs Govt of India since Jan 15 1958 *b* Feb 1902 *Educ* Muir Central Coll and the Univ of Allahabad Passed I C S 1924 I C S probationer at Exeter Coll Oxford 1924 26, Assistant Joint and District Magistrate in U P Districts 1926 36 Secy, U P Board of Revenue 1937 38, served as Deputy Secy Agriculture Industries and Revenue Secy and Development Commissioner U P Govt 1939 March 1947 Chief Secy March 1947 June 1949 Senior Adviser, Rajasthan 1949 51 Chief Secy U P 1951 3 Secy Ministry of Communications Govt of India March 1953 Jan 1958 *Recreations* Tennis Hockey Football Riding *Address* Secretary Ministry of Home Affairs New Delhi

JHA, Lakshmi Kant, B A (Cantab), I C S, M B E (1946) Special Secretary, Ministry of Commerce and Industry Govt of India *b* Nov 22 1913 *Educ* Hindu Univ Banaras and Trinity College Cambridge Under Secy Govt of Bihar Local Self Govt Dept 1941 42 Deputy Secy Govt of India Supply Dept 1942 46 Delegate United Nations Maritime Conference Delegate Economic Commission for Asia and Far East Sixth Session Bangkok, and Seventh Session Lahore, Chief Controller of Imports and Exports 1947 50 Delegate to the 9th and 10th Sessions of the Contracting Parties to the General Agreement on Tariffs and Trade Joint Secy Ministry of Commerce and Industry 1950 56 Secy Ministry of Heavy Industries 1956 57 *Publications* *India's Foreign Trade* Part I & II *Clubs* Delhi Gymkhana and Calcutta Club *Address* 36, Aurangzeb Road New Delhi

JHALA, Harshadray Ishverlal, M D (Bombay) F C P S (Bom) D T M (Cal) Director Haffkine Institute Bombay since 1957 *b* Jan 15 1919 *Educ* Baroda High School B J Medical School Ahmedabad, Madras Medical Coll School of Tropical Medicine Calcutta Grant Medical Coll, Bombay M D (Bom) 1947 F C P S (Bom), 1945 D T M (Cal) 1941 started as tutor in Bacteriology B J Medical School Ahmedabad 1941 Clinical Pathologist Grant Medical Coll 1944 Asstt Prof of Pathology, 1946, Professor of Pathology B J Medical Coll, Ahmedabad 1948 51, Grant Medical Coll, Bombay 1951-57 *Publications* Several contributions in scientific journals *Address*: Haffkine Institute, Bombay 12

JHAVERI, Mansukhlal Maganlal, M.A., Gujarati Poet and Critic; Professor and Head of the Gujarati Deptt., St. Xavier's College, Bombay, since 1945. *b.* Oct. 3, 1907, at Jamnagar, Halar Dist.; *Educ.*: Nawanagar High School, Jamnagar; St. Xavier's Coll., Bombay; Samaldas Coll., Bhavnagar. Fellow, Univ. of Bombay, since 1949; Member, A.C., since 1954; Member, Board of Studies in Gujarati of the Univs. of Bombay, Poona, S.N.D.T., Baroda and Gujarat; Secy., Gujarati Section, Oriental Conference, Bombay Session; Gujarati Sahitya Parishad; Gujarati Lekhak Milan; Pres., Saurashtra Lekhak Milan, Rajkot Session; member; P.E.N; Advisory Panel, Central Board of Film Censors, 1951 and '52; Advisory Board for Gujarati, Sahitya Akademi, New-Delhi; Producer, Spoken Word, Gujarati, All India Radio, Bombay. *Publications*: Poems: *Chandradoot*; *Phool-Dol*; *Aradhana*; *Abhisar*; *Anubhooti*; Criticism: *Thoda Vivechan Lekho*; *Paryeshana*; Literary History: *Gujarati Sahitya-nun Rekha Darshan*; Translations: *Abhijnana Sakuntala* from Sanskrit. *Recreations*: Walking and Reading. *Address*: 1/7, Samant Block, Cama Road, Andheri, Bombay 41.

JODHPUR, His Highness Raj Rajeshwar Maharajadhiraja Shri Gaj Singhji Sahib Bahadur, of. *b.* January 13, 1948; Succeeded the Jodhpur *Gadi* on Jan. 27, 1952; Rajtilak ceremony performed on May 12, 1952; *Educ.*: Receives education in England. *Recreations*: School sports. *Permanent Address*: Umaid Bhawan, Jodhpur.



JOHNSON, George Arthur, B.A. (Oxon.), Editor, *The Statesman*. *b.* Oct. 31, 1903; *Educ.*: Christ's Hospital; B.A. from St. Edmund Hall, Oxford. *Clubs*: Bengal; Oriental; Authors. *Address*: C/o The Statesman Ltd., Calcutta and New Delhi.

JOLLY, Brij Mohan, B.Com. (Lond.), Bar at-Law, Deputy Secretary, Indian Red Cross Society and St. John Ambulance Assoc. (India). *b.* March 1, 1908, Badshahan, Dist. Jehlam, Punjab; *Educ.*: London School of Economics and Lincolns Inn, London. Practised at the Punjab High Court, 1929-30; associated with an import-export concern in London, 1930-38; Huzur and Political Secy. and Chief Minister, Baroda State, 1938-41; actively connected with Indian Red Cross since 1942; represented Indian Red Cross at the Mid-century White House Conference on children and youth in Washington, and the U.N. Youth Welfare Seminar for S.E. Asia in Simla, 1950-51; International Red Cross Conference at Toronto, 1952; participated in Geneva meetings of the Executive, Health and J.R.C. Cttees. of the League of Red Cross Societies and Standing Commission of the International Red Cross, 1955; International Red Cross Conference, New Delhi, 1957; Founder Joint Secy., United Council for Relief and Welfare; member, Council of Voluntary Agencies; Pres., Indian Red Cross Employees' Co-operative; awarded Kaiser-i-Hind Medal and Admitted Order of St. John as Associate Officer, 1948; elected Fellow, Royal Economic Society, 1924. *Hobbies*: Art, literature, riding and living upto Family motto "Seva Hamara Adarsh". *Club*: Delhi Gymkhana. *Address*: Red Cross Road, New Delhi.

JONES, Wilson Lionel Gaston, Billiards Player; Salesman, Alaska Ltd., Bombay, since 1950. *b.* May 2, 1922; *Educ.*: Bishop's High School and St. Vincent's High School, Poona. Munition Factory, Kirkee, 1939-46; Messageu Docks, Bombay, 1947-50; National Billiards Champion of India, 1950-52; National Snooker Champion of India, 1948 & '52. Indian Representative for Billiards and Snooker World Championship, 1951-52. *Clubs*: Vissanji Sports Club. *Address*: No. 2, Wallace Flour Mills Co., Ltd., Sleater Road, Bombay.

JOSEPH, Pothan, B.A., LL.B. (Bombay), Ex-Editor, *Deccan Herald*. *b.* March 13, 1892; *Educ.*: C.M.S. Coll. (Kottayam); Presidency Coll. (Madras); Law School (Bombay). Enrolled for practice in Bombay and Travancore High Courts, 1915; Lecturer, Trinity Coll., Kandy; joined Journalism as Sub-Editor, *Bombay Chronicle*, 1916; Asstt. Editor, *Capital*, Calcutta, 1920-24; has held over 20 jobs in the course of his professional career; edited *Voice of India*, *Indian Daily Telegraph*, *Indian Daily Mail*, *Hindustan Times*, *Indian Express*, *New Empire*, *Dawn*, etc.; Leader of the Indian Journalists' Delegation to the first International Conference of Working Journalists, Helsinki, June 1956. *Publications*: *Looking Back*. *Recreations*: Hiking; Swimming. *Club*: Bowring Institute, Bangalore. *Address*: C/o 16, Mahatma Gandhi Road, Bangalore 1.

JOSHI, Amar Chand, D.Sc., F.N.I., Vice-Chancellor, Punjab University, since July 1, 1957. *b.* Sept. 18, 1908; *Educ.*: Lahore. Professor of Botany, Banaras Hindu Univ., 1931-45; Prof. of Botany, Govt. Coll., Lahore, 1945-47; Prof. of Botany, Govt. Coll., Hoshiarpur, 1947-51; Principal, Govt. Training Coll. for Teachers, Jullundur, 1951-53; Director of Public Instruction and Secy. to the Govt., Punjab, 1953-57. *Address*: Vice-Chancellor, Punjab University, Chandigarh.

JOSHI, Anant Manohar, a leading Hindustani musician. *b.* 1879; *Educ.*: Studied Marathi and English at home. Served at Shri Guru Samarth Vidyalaya for 20 years; gives programmes on A. I. R.; is a pensioner; is also a businessman; awarded the 'Sangeet Praveen' prize of the Sangeet Natak Academy, Delhi by, Rashtrapati Dr. Rajendra Prasad, 1955. *Publications*: *Sangit Pravesh* (3 parts); *Harmonium Delighter* (2 parts). *Address*: Gayanacharya, Aundh, Bombay State.

JOSHI, Smt. Damayanti Ramchandra, Exponent of Indian Classical Dancing. *b.* Dec. 5, 1928; *Educ.*: at home. Gave her first dance performance on a public stage at the early age of seven; has toured and danced before audiences in Europe and Far Eastern countries; participated in the International Olympiad held in Berlin and shared the honour of winning the trophy for the team that represented India, 1936; toured and danced in the Chinese Mainland as a member of the Indian Cultural Delegation, 1953; has attained proficiency in all styles of Indian classical dancing, *viz.*, Bharat Natyam, Maaipuri, Kathakali and Kathak; specialised in the Kathak style; studied under eminent gurus of dancing, Sarva Shri Govindraj Pillai (Bharat Natyam), Karunakar Panikkar (Kathakali), Bipin Sinha (Manipuri) and Achchan Maharaj (Kathak); has given dance performances especially Kathak at music conferences in India. *Recreations*: Literature, Music. *Clubs*: National Sports Club of India; Y.W.C.A.; India-China Friendship Assoc. *Address*: Jeshtharam Baug, D Block 1, Dadar T.T., Bombay 14.



JOSHI, Dookrishna Jatashankar, G.D. Art (Bombay), Painter; Principal, Kala Maha Vidyalaya, Indore, M.P. *b.* July 7, 1911; *Educ.*: School of Art, Indore; took G.D. Art (Bom.), 1933. Held One Man Shows at Bombay Art Society, Bombay, 1947, 1949 and 1950; a collection of his paintings kept at the National Akadami, New Delhi, Hyderabad Museum, Jabalpur Museum and Madhya Bharat Kalavithika, Gwalior; exhibited paintings at the Artists Aid Fund Exhibition at Burlington; won several prizes at exhibitions namely H.H. the Governor's Gold Medal for the best exhibit at the Academy of Fine Arts, Calcutta, 1955-56; awarded Rs. 250 for a sketch at the 1st National Exhibition of Art, New Delhi, 1955; Gold Medal for the painting "At the Well" at the Indian Academy of Fine Arts, Amritsar, 1950, Patel Trophy of the Art Society of India, Bombay, 1957, and several others. *Publications*: Cover page of his artistic paintings in the *Illustrated Weekly of India*, 1949, '51, '52, '53, '55; one painting entitled 'Evening Scene at Maheshwar' in the *Times of India Annual*; his painting entitled 'Homeward Bound' published in *Roop Lekha* by India Fine Arts and Crafts Society, New Delhi; his paintings reproduced along with his biography in "Contemporary Artists of India" by Ramchandra Rao, Art Critic. *Address*: 81, Snehlata Ganj, Indore, M.P.

JOSHI, Sadashiva Dattatarya, B.Sc. (Hons.), D.Ely. Tech. (U.K.), M.F.T.G., M.I.B.E., M.A.S.M. Special Officer (Foundry/Forge) under the National Industrial Development Corporation Private Ltd. in the Ministry of Commerce & Industry, New Delhi; Director, National Instruments Private Ltd., Calcutta; Director, Nahan Foundry Private Ltd., Nahan. *b.* Jan. 31, 1922; *Educ.*: Bombay University, Banaras Hindu Univ. and National Foundry Coll., England. Served with Indian Hume Pipe Co. Ltd. for two years and Mukand Iron Steel Co. Ltd. in their foundries at Bombay for two years, went abroad, mainly in U.K. for three years for practical and theoretical training, worked for three years with National Machine Manufacturers Ltd., Thana (Bombay) and three years with Binny's Engineering Works Ltd. in their workshops in foundries. *Publications*: Reading, Shooting. *Clubs*: [illegible] Club, Nahan. *Address*: Shamsher Cottage, Kalisthan Road, Nahan (H.P.).



JOSHI, Umashankar Jethalal, M.A., Gujarati Writer; Editor, *Sanskriti* (Culture), Gujarati monthly, 1947; Director, University School of Gujarati Language and Literature, Gujarat Univ., 1954. *b.* July 21, 1911. *Educ.*: [illegible] Idar High School; Gujarat Coll.; Elphinstone Coll., M.A. First Class. Teacher [illegible] Lecturer, one year; Post-graduate Teachers Research Institute, Gujarat Vidya Sabha, Ahmedabad (1930-46); member, Sahitya Akademi, General Council and Executive Board; Lalitkala Akademi; Syndicate, Gujarat Univ.; visited China, Indonesia, Malaya and Ceylon, 1952; visited the U.S.A. and U.K. as a member, Govt. of India Team to study General Education, 1956; visited Japan to attend the 29th World P.E.N. Congress, 1957. *Publications*: Poetry; *Vishra Shanti*, *Gangotri*; *Nishesh*; *Gul-e-Poland*; *Prachina Alikhya*; *Vasanti-Varsha*; One Act Plays: *Sapna Bhara*; *Shahard*; Short Stories: *Shesvani Melo*; Novel: *Parkan Jangan*; Essays: *Gaolthi*; Criticism: *Sama-Samvedan*; *Alochna Study*; Research: *Gujarat in the Puranas*. Translations: *Uttar-Ramacharita*, *Sakuntala*. *Address*: Sanskriti, Ahmedabad 6.

KABIR, Humayun, M.A. (Cal.), M.A. (Oxon.), Univ. Gold Medals, Prizes, etc. (1920 & 1928), State Scholar (1927), Exeter College Foundation Prize (1931), Minister of Scientific Research and Cultural Affairs, Government of India, since April 1956; formerly Educational Adviser to the Govt. of India, Ex-Chairman, Univ. Grants Commission; Editor, *Chaturanga*. *b.* Feb. 22, 1[illegible]. *Educ.*: Calcutta and Oxford. Has taught at the Univs. of Calcutta and Andhra; was [illegible] Oxford Union Society; prominently associated with the Students' Movement, the Peasant Movement and Trade Union activities; Leader, Peasants Party, Bengal Leg. Council; [illegible] Pres., All-India Students Congress; As[illegible]

to the Adjudicator in All-India Railway Dispute (1946); Member, Indian Railway Enquiry Cttee. (1947); Dy. Leader, Indian Delegation at the 3rd General Conference of UNESCO, 1948; nominated by Govt. of India as Vice-Pres., Indian Council of Cultural Relations, 1953; Pres.: All India Education Conference, 1955; Indian Philosophical Congress; Consultant to the Fund for the Advancement of Education, New York; Minister of Civil Aviation, 1957-58. *Publications: Svapna-Sadh* (in Bengali); *Poems* (Basil Blackwell), *Kant on Philosophy in General; Immanuel Kant* (in Bengali); *Dharabahik* (in Bengali); *Poetry, Monads and Society; Sarat Chandra Chatterjee; Muslim Politics*, 1906-42; *Mahatma and other Poems; Banglar Kavya* (in Bengali); *Men and Rivers; The Indian Heritage; Three Stories; Of Cabbages & Kings; Marx Vad*, 1948; *Nadi-O-Naree*, 1950; *Science, Democracy and Islam, Education in New India*, etc. (Several works translated into European languages). *Address:* New Delhi.

KAIKINI, P. R., M.A., B.T., Poet, journalist and critic; Editor, Publications Division, Ministry of Information & Broadcasting, Govt. of India, since July 1957. *b.* February 15, 1912; *Educ.*: St. Xavier's College, Bombay. Commenced writing verse while still at school; critics east and west of Suez are inclined to accord him an important place among contemporary Indian poets; member, English Association, London; the *motif* of his work is love of India; is fond of outdoor life, sports, drama, films, walking; entered Bombay Civil Service under Congress Government. *Publications:* Nine volumes of poetry. *Hobbies:* Philately, photography, printing, publicity. *Recreations:* Music, walking, volleyball. *Address:* "Beant Parkash," 27/12, Shakti Nagar, Delhi 6.



KAIRON, S. Partap Singh, B.A. (Michigan), Chief Minister, Punjab, since Nov. 1, 1956; of old Punjab, Jan. 23 to Nov. 1, 1956. *b.* 1901, in Kairon village, Amritsar; *Educ.*: Khalsa Coll., Amritsar; graduated from Michigan Univ. Actively associated with the Ghaddar Party working for India's liberation from foreign rule; joined Congress, 1930; sentenced to five years' imprisonment in 1932 C. D. Movement; elected M.L.A., Punjab, 1946, re-elected 1946; led the Kisan agitation, 1938; elected to the Indian Constituent Assembly, 1946; Minister in the Bhargava Cabinet, 1947-49; took drastic steps to eradicate corruption; General Secy., Punjab P.C.C., 1939-46, elected Pres., P.P.C.C., 1950-52; re-elected M.L.A., Punjab, 1952; again 1957; courted jail during the individual satyagraha and Quit India movements, 1942-45; member, Congress Working Cttee., 1946-53; Development Minister, Sachar Cabinet, April 1952–Jan. '56. *Address:* Chandigarh, Punjab.



KAJROLKAR, Narayan Sadoba, Harijan leader and public worker. *b.* 9th July 1896; *Educ.*: S. P. G. Mission Society, Dapoli. Is interested in the uplift of the Depressed and Backward Classes; General Secretary and Trustee, the Depressed Classes Mission Society of India; member, Harijan Sevak Sangh, Central Board, Delhi; Pres., Provincial Board of Bombay; Pres. and Trustee, Rohidas (Chambhar) Samaj and Temple; President: Kajrolkar Housing Society, Ghatkopar; Producers' Co-operative Society; Rohidas Education Society & Rohidas (Harijan) Housing Society, Khar; Butter Manufacturers' Association; President, Bharatiya Depressed Classes League; Member of Parliament, 1952-57. *Address:* 112, Medows Street, Fort, Bombay.

KALELKAR, Acharya Kakasaheb, B.A. (Bombay), M.P. (Rajya Sabha). *b.* Dec. 1, 1885; *Educ.*: Fergusson Coll., Poona Educationist; Vice-Chancellor and Principal, Gujarat Vidyapith, 1928-34; Edited, Mahatma Gandhi's Weeklies & Magazines; worked for the spread of Hindi throughout India; Pres., Hindustani Talimi Sangh (Basic Education till 1957), Hindustani Prachar Sabha; Chairman, Backward Classes Comm. appointed by the President of India, 1953-55; one of the Vice-Pres., Indian Council of Cultural Relations, New Delhi, Pres., Gomant Bharati, Bombay; Pres., Balkanji-Bari, Bombay. *Publications:* Author of about 30 books in Gujarati, Marathi and Hindi—some books being translated into English and many Indian languages. At present editing *Mangal Prabhat*—a Hindi Weekly. *Address:* Sannidhi, Rajghat, New Delhi.

KAMALADEVI, Shrimati, Padma Bhushan (1955), Political and Social Worker; Chairman, All-India Handicrafts Board, Vice-Chairman, Sangeet Natak Akadami; President, Theatre Centre of India. *b.* 1903; *Educ.*: Passed Senior Cambridge, 1919; Bedford Coll., London and the London School of Economics. Joined Congress and busied herself with constructive work; elected to A.I.C.C., 1927; was Organising Secy., All-India Women's Conference, has been mainly responsible for building up the Women's Organisation and giving it a shape; imprisoned in connection with the freedom struggle, 1930, 1942, etc.; has travelled extensively in India, visited Europe, Asia, Africa and once gone round the World; has on different occasions represented her country at International Conferences; was Pres., All-India Women's Conference; founded the Indian Co-operative Union and set out to rehabilitate the uprooted refugees on a co-operative basis *Publications: In War-torn China; Japan, Its Weakness and Strength; Socialism and Society; America, the Land of the Superlatives.* *Address:* 9, Electric Lane, New Delhi.

KAMANI, Sheth Narbheram Hansraj, Business man, Jamshedpur; Managing Director, Narbheram & Co., Ltd., Jamshedpur. *b.* Nov. 25, 1892, at Dhari (Kathiawar Peninsula now part of Bombay). Entered business at Jamshedpur as a small provision dealer and developed automobile business; started Narbheram & Co. Ltd., 1926; took up the agency of Burmah-Shell Kerosene and petrol and dealership for Ford products for a very large territory; entered into Metal business in partnership with Messrs. Kamani Brothers and founded the "Kamani" group of industries, 1940; took the exclusive dealership of Premier Automobiles Ltd., for Plymouth, Fargo and Fiat, and Lambretta, c.v. with Head Office at Jamshedpur and Branch at Patna and associates at Ranchi, 1954; Pres.: Jamshedpur Gujrati Merchants' Assoc.; Jain Assoc.; Trustee and Pres., Narbheram H. Gujrati M.E. School, Jamshedpur; has made liberal donations and helped in raising several large funds for philanthropic and humanitarian purposes; appointed member, State Board of Swetamber Jain Religious Trusts by Bihar Govt., May 1956. *Address:* Narbheram & Co., Ltd., Jamshedpur, E. Rly.



KAMANI, Poonamchand Ramji, Industrialist, *b.* April 6, 1918. Started as a student of agriculture; went to Japan, 1936. Joined Narbheram & Co. Ltd., Jamshedpur; Manager, Mukand Iron & Steel Co. Ltd., Bombay, 1939; visited Japan, Australia, U.K., Europe, Burma, Siam, Singapore; Director, Jaipur Metals & Electricals Ltd., 1943; Managing Director, Kamani Brothers Private Ltd., Mg. Agents of Kamani Metals & Alloys Ltd., Kamani Engineering Corpn. Ltd., and Poonamchand & Bros. Private Ltd., Managing Agents, Jaipur Metals & Electricals Ltd., since 1944; Chairman, Fellowship Cttee., Rotary Club of Bombay, 1953-54 and 1954-55; Pres., Indian Non-Ferrous Metals Manufacturers' Assoc., Calcutta, 1955-56 and 1956-57. *Clubs:* Cricket Club of India Ltd.; Willingdon Club, Royal Western India Ltd.; Turf Club Ltd., Rotary Club of Bombay. *Address:* 52, Nicol Road, Ballard Estate, Bombay 1.

KAMARAJ, K., Chief Minister, Madras, since April 1954 *b.* 1903; *Educ.*: Virudhunagar, Ramnad District, Madras. Entered public life, 1921 during Salt Satyagraha; convicted for two years; elected member, Working Cttee., Tamil Nad Congress, and member, A.-I.C.C., 1931; convicted for one year R.I. in 1932 movement; one of the accused in Virudhunagar bomb case, 1934; later acquitted; elected Secy., Tamil Nad Congress Cttee., 1935; elected to Madras Legislative Assembly, 1936 and again in 1946; detained during the individual Satyagraha Movement, 1941; while in detention was elected Chairman, Virudhunagar Municipality, 1941; again detained in 1942 and released, 1945, elected to the Constituent Assembly of India, 1947; chosen as a member, All-India Congress Working Cttee., 1949; Pres., T.N.C.C., 1939-54; elected Leader, Madras Legislature Congress Party, March 30 1954; and again in 1957. *Address:* Secretariat, Madras.



KAMAT, Ramchandr Pandurang, Diploma in Art (London), Artist and Sculptor. *b* July 30 1907. *Educ.*: J. J. School of Art, Bombay; took diploma in Art from the Royal Academy of Art, London, 1935; won Mayo Medal from J. J. School of Art, Bombay, and gold, silver and bronze medals from Royal Academy of Arts, London, the only Indian to win this so far; awarded Royal Academy's Travelling scholarship for 1933. Pres., Indian Sculptors' Assoc., since 1952. *Publications:* Articles broadcast by All India Radio, Bombay. *Address:* Kamat Building, 481, Cadell Road, Bombay 28.

KAMATH, Hari Vishnu, B.Sc. (Hons.), Politician. *b.* July 13, 1907; *Educ.*: Mangalore upto intermediate; graduated Presidency Coll., Madras, 1928; passed into the I.C.S., in London, 1929. Served in the I.C.S., December 1930 to April 1938; resigned for political reasons; joined Congress, then the National Planning Cttee. as Secy. and subsequently the Forward Bloc as its General Secy.; was in prison, April 1940 to Sept. 1945, with a short break in 1941; elected member, Constituent Assembly, 1946; member, Nagpur Provincial Congress Cttee.; represented a Madhya Pradesh constituency in the Indian Parliament; delegate to the second London Parliamentary Conference on World Govt., 1952, at the invitation of the All Party British Parliamentary Group for World Govt.; elected member, Executive of the Indian Assoc. for World Federal Govt., 1950; lost in the General Elections from Hoshangabad, M.P. as Independent candidate to Congress by 92 votes, 1951-52; filed election petition, April 1952; rejected by the Tribunal and Nagpur High Court; but allowed by the Supreme Court, Dec. 1954; re-elected to Lok Sabha on P.S.P. ticket by defeating Congress by over 30,000 votes, May 1955; elected to the National Executive of the Praja Socialist Party, Dec. 1953; contested a Lok Sabha seat from Hoshangabad in the General Elections, 1957 and lost. *Recreations:* Hiking; Motoring. *Special Interests:* Philosophy; Literature; Yoga. *Address:* Dhantoli, Nagpur, Bombay State.

KANDASWAMY, C. P., B.A., B.L., Advocate, Coimbatore. *b.* July 6, 1907, of a prominent family at Coimbatore; *Educ.:* Madras. Enrolled as Advocate, Madras High Court, Nov. 11, 1934; is a leading Advocate in Coimbatore practising on the criminal and civil sides; takes keen interest in the amelioration of the poor and the labourers; has certain progressive views on the reconstruction of Society and State. *Address:* Jail Road, Coimbatore.



KANDASWAMY, Ramaswamy Kandaswamy, B.A. (Madras), B.Sc. Tech. (Manchester), Managing Agent, The Vasanta Mills Ltd., Singanallur. *b.* Feb. 14, 1911; *Educ.:* Madras and Manchester; took B.A. degree from Madras, 1932 and B.Sc. (Tech.) from Manchester, 1934. Technical Manager, Textiles (Spinning and Weaving), The Vasanta Mills Ltd., Singanallur. *Recreation:* Tennis. *Clubs:* Cosmopolitan Club, Madras and Coimbatore. *Address:* "Brindavan", Trichy Road, Coimbatore.



KANE, Pandurang Vaman, M.A., LL.M., D.Litt. (Allahabad, Honoris Causa), M.P. (Rajya Sabha), Advocate. *b.* May 7, 1880; *Educ.:* S.P.G. Mission High School, Ratnagiri Dist.; Wilson Coll. and Govt. Law Coll., Bombay. Teacher, Govt. High School, 1904-11; some time Prof of Sanskrit, Elphinstone Coll., Bombay, 1909; Prof. of Law, Govt. Law Coll., Bombay, 1917-23; Life member and for many years Vice-Pres. of Bombay Asiatic Society; Vice-Chancellor, Bombay Univ., 1947-49; Fellow, London School of Oriental Studies; Govt. of India's representative to the International Congress of Orientalists, at Paris, 1948, Istanbul, 1951 and Cambridge, 1954; nominated M.P. by the President of India, 1953; awarded the Rs. 5,000 prize for his 4th volume of the *History of Dharmasastra*, as the best work on Sanskrit Literature during 1953-56, by the Sahitya Akademi, New Delhi, Nov. 1956. *Publications:* Numerous books including *History of Sanskrit Poetics*, *History of Dharmasastra*, Vols. I-IV, *Hindu Customs and Modern Law*. *Recreations:* Travel. *Address:* Angre's Wadi, Bombay 4.

KANNAMWAR, M. S., Minister for Public Health, Bombay State, since April 1957. *b.* Jan. 10, 1909; *Educ.:* Chanda. Started life with newspapers as sales agent; courted jail serveral times in the freedom movement; Secy., Provincial Congress Cttee. for eight years; Pres., for three years; edited *Lokasevak*, *Navasandesh*, weeklies in Marathi; was Member of the first Parliament; Minister for Public Health and Jail, old M.P. State, Feb. 1952—Oct 1956; Pres., Nagpur Pradesh Bharat Sevak Samaj. *Address:* Sachivalaya, Bombay.

KANTHI, Shivalingappa Rudrappa, B.A., LL.B., Speaker, Mysore Leg. Assembly, since Nov. 1956. *b.* Dec. 21, 1908; *Educ.:* Karnatak Coll., Rajaram Coll., Kolhapur; Sykes Law Coll., Kolhapur. Enrolled at the Bagalkot Bar, 1935; has been taking active part in the organisations of Harijans, ryots and weavers; elected member, K.P.C.C. and A.-I.C.C., 1939; elected Pres., Bijapur Dist. Congress Cttee., 1940-46; organised the "Individual Satyagraha" in the Bijapur Dist., 1940-41; arrested and sentenced to 10 months S.I., 1941; arrested and detained in the 1942 Aug. Movement; after release, was entrusted with the work of distribution of corn, clothes, etc., among famine-stricken people; after the famine, was an active member of the Peoples' Provincial Food Cttee.; was elected working Pres., Dist. Ryots' Conference, Feb., 1946; Pard. Secy., Govt. of Bombay; Dy. Speaker, Bombay Leg. Assembly. *Address:* P.B. No. 74, Vidhana Soudha, Bangalore 1.

KANUNGO, Nityanand, B.A., B.L., Minister of Commerce, Govt. of India, since April 1957; Member, Sangeet Natak Akademi. *b.* May 4, 1900; *Educ.:* Ravenshaw Coll., Cuttack and Univ. Coll., Calcutta. Minister for Home, Law, Industries and Agriculture, Govt. of Orissa, 1937-52; Secy., All-India Spinners' Association, Local Branch, 1939-42; Pres., All-India Village Industries Association, Orissa, 1946; Chairman, Cotton Textile Enquiry Cttee., 1952; Leader, Indian delegation to International Rice Commission, 1952; Dir., State Co-op. Bank, Orissa; member, A.I.C.C.; Dy. Minister, Commerce and Industry, Govt. of India, Sept. 1954-Aug. 1955; Minister for Industries, Govt. of India, Aug. 1955-June 1956; Minister of Consumer Industries, 1956-1957. *Recreations:* Swimming, Bee-keeping, Sociology, Rural Economy, Agriculture. *Address:* New Delhi.

KAPADIA, Gopaldas Padamsey, B.Com. (Bombay), J.P., President, Indian Merchants' Chamber, 1958, Senior Partner, G. P. Kapadia and Co., Chartered Accountants. *b.* Feb. 2, 1905; *Educ.:* Elphinstone High School, Elphinstone Coll. and Sydenham Coll. of Commerce and Economics, Bombay; took B.Com., 1926. Was member, All India Accountancy Board for a long period; member, Accountancy Expert Cttee; was elected the first Pres., Institute of Chartered Accountants of India for three years; led the Indian Delegation to the International Congress on Accounting, London, 1952; served on important Cttees. appointed by the Govt. such as the Stock Exchange Enquiry Cttee., the Vishakhapatnam Shipyard Cttee. and the Company Law Cttee; Vice-President, Indian Merchants' Chamber, 1957; member, Sales Tax Enquiry Cttee. appointed by the Govt of Bombay to go into the structure and basis of sales taxation and the administration thereof in the State of Bombay; was helpful in emphasising the defects and drawbacks of some of the changes in the structure of direct taxation and indicating the directions for bringing about the modifications; has been a member, Cttee of the Federation of Indian Chambers of Commerce and Industry for the last three years. *Publications:* Paper read at International Congress on Accounting in London, 1952: *Incidence of Taxation*; several contributions on taxation matters and economic subjects. *Clubs:* Rotary Club of Bombay, Willingdon Sports Club, Orient Club, C.C.I. Ltd., Bombay Presidency Radio Club Ltd., National Sports Club, W.I.A.A. Club, P. J. Hindu Gymkhana, Pranaukhlal Mafatlal Hindu Swimming Bath and Boat Club, Colaba Sailing Club. *Address: Office:* Hamam House, Hamam Street, Fort, Bombay 1; *Residence:* 11, 'Giri Kunj', 71, Netaji Subhas Road, Bombay 1.

KAPUR, B. K., Indian High Commissioner in Ghana, since Oct. 1957 and Commissioner in Nigeria. *b.* Jan. 12, 1910; *Educ.:* Govt. Coll., Lahore; Royal Military Coll., Sandhurst (England). Commissioned in the Indian Army, 1930; selected for the Indian Political Service, 1934; held various administrative and political appointments in the North-West Frontier Province and Baluchistan; completed Land Revenue Settlements of the Kurram Agency and of the Quetta-Pishin Dist., 1941-46; appointed Deputy Secy., External Affairs Ministry, Govt. of India, 1946; Secy., Indian Delegation to the U.N. General Assembly, New York, 1946; Govt. of India's Liaison Officer, Lahore and Peshawar after the partition, 1947 and 1948; Jt. Secy. and Chief of Protocol, External Affairs Ministry; member, Indian Trade Delegation to Iran and Afghanistan, 1948; Charge d'Affaires with the rank of Minister, Indian Embassy, Teheran, Jan. 1951 to Dec. 1951; Political Officer in Sikkim, March 1952 to Feb. 1956; Indian Ambassador in the Netherlands, 1956-57. *Address:* C/o External Affairs Ministry, New Delhi.

KAPUR, Mr. Justice Jeevan Lal, B.A. (Punjab), M.A., LL.B. (Cantab.), Judge, Supreme Court of India, since Jan. 14, 1957. *b.* Dec. 13, 1897; *Educ.:* Govt. Coll., Lahore (Punjab Univ.); Magdalene Coll., Cambridge; Inner Temple, Barrister-at-Law; B.A., Punjab Univ., 1917; B.A. (Cantab.), 1920; LL.B., 1921; M.A. (Cantab.), 1924. Practised at Lahore High Court, Lahore, 1922-47; Vice-Pres., All India Postmen's Union, 1926-47; Member, F.P.S.C., New Delhi, 1947-49; Judge, Punjab High Court, 1949-57. *Publications:* *Law of Adoption India and Burma*. *Recreations:* Reading, Walking. *Clubs:* Delhi Gymkhana Club, New Delhi. *Address:* 11, York Road, New Delhi.

KAPUR, R. P., Business man. *b.* Jan. 9, 1912, at Amritsar; *Educ.:* Lahore. After completing his studies joined his family concern Jai Dayal Kapur & Sons (Private) Ltd., Delhi, direct importers of paper stationery, printing machinery and materials, 1927; has been taking keen interest in trade; is responsible for getting many agencies of foreign countries and sole distributorship for some of the leading paper mills in India; is now Chairman, Jai Dayal Kapur & Sons (Private) Ltd., Delhi; Pres., Paper Merchants' Assoc., Delhi; helped refugees in relief and rehabilitation after partition; has wide business connections in India and abroad. *Recreations:* Travel, sports and study. *Address:* Chairman Jai Dayal Kapur & Sons (Private) Ltd., Chawri Bazar, Delhi.



KARANJIA, Russy K., B.A. (Hons.), Publisher and Journalist. Editor-in-Chief of *Blitz*, Indian weekly; Correspondent of several leading foreign newspapers. *b.* Sept. 15, 1912; *Educ.:* St. Xavier's High [illegible] and Wilson Coll., Bombay. Took [illegible] journalistic career as reporter, sub-editor, special correspondent with the *Times of India* publications; joined *Sunday Standard* as Deputy-Editor and later became Editor-in-Chief of the *Sunday Standard* and *Morning Standard* (today *Indian Express*), started *Blitz* in Feb. 1941, Editor and Publisher of *Blitz* Publications. Author of *China Stands Up*, *How Others See Us*, *SEATO*, etc., was the Leader of the first Indian Goodwill Mission to Peoples' China; President of the India China Friendship Association, Bombay; one of the Founders and an ex-President of the Progressive Group, Bombay. *Recreations:* Riding; Tennis. *Address:* Earl's Court, Netaji Subhas Road, Bombay.

KARANTH, K. R., B.A., LL.B., Advocate, member, National Executive, Praja Socialist Party and Chairman, P.S.P., Mysore State. *b.* May 1, 1894; *Educ.:* B.A. from Central Coll., Bangalore, 1916; LL.B. from Law School, Bombay, 1918. Member: Madras Leg. Council, 1926-29; and Madras Leg. Assembly, 1937-39 and 1946-51; Parliamentary Secy., Madras Govt., 1937-39; Minister, Madras, 1946-47. *Publications:* *Travels in Europe* (Kannada). *Recreations:* Tennis; Reading. *Club:* Bowring Institute, Bangalore. *Address:* 16, Kumara Park East, Bangalore-1.

KARMARKAR, Dattatraya Parashuram, M.A., LL.B., Minister of Health, Govt. of India, since April 1957. *b.* July 20, 1907, at Mantur, Dharwar Dist; *Educ.:* Karnatak Coll., Dharwar; Deccan Coll. and Law Coll., Poona. Lawyer; led no-tax campaign in Ankola Taluka, 1930-32; courted jail in the freedom movement; member: Karnatak Education Board, Dharwar; Historical Research Society; Kannada Research Board; Indian Historical Records Commission; District Anti-Corruption Cttee.; Founder Member, Law Coll., Belgaum; Pres., Karnatak P.C.C.; M.L.A. (Central), 1946-47; member

Constituent Assembly, 1950-52; Lok Sabha, 1950-57; Delegate to the International Conference on Trade at Geneva, 1947 and Havana, 1947, Economic and Employment Commission, New York, 1948, fourth General Assembly of U.N., 1949; Leader of the Indian Delegation to the ECAFE Conference at Lahore, 1951, at Rangoon, 1952, at Bandung, Indonesia, 1953, Tokyo (Japan) 1955, Bangkok (Thailand), 1957; Vice-Chairman, ECAFE, 1952-53; Chairman, ECAFE Session, Bangalore, 1956; Leader of the Indian Delegation to GATT (Geneva), 1953; Dy. Minister, Commerce & Industry, Govt. of India, till Aug. 1952. Min. for Commerce, 1952-56; Minister of Trade, 1956-57. elected to Lok Sabha from Mysore-Dharwar North, 1957. *Hobbies:* Walking, Swimming, Rowing and Gardening. *Recreation:* Reading. *Publications:* Books in Kannada; *History of Congress; A Primer to Constitutional History: Bal Gangadhar Tilak: A Study* (In English); Editor, Vijaynagar Commemoration Volume. *Address:* Dharwar (Mysore); 7, Race Course Road, New Delhi.

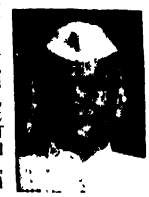
KARMARKAR, Vinayak Pandurang, Sculptor. *b.* Oct. 2, 1891; *Educ.*, School of Art, Bombay, 1910-13; Royal Academy, London, 1920-22. Established himself as a sculptor. *Publications:* Occasional articles in Marathi and Presidential Addresses. *Recreations:* Animal pets. *Clubs:* Bombay Art Society; Art Society of India, Bombay. *Address:* 7, Union Park, Chembur, Bombay 38.

KARVE, Dr. Dhondo Keshav, B.A., Bharat Ratna (1958), Pioneer in Women's education and Founder and ex-Vice-Chancellor, Shreemati Nathibai Damodar Thackersey Indian Women's Univ., Poona (Hqrs. now in Bombay). *b.* April 18, 1858; *Educ.*, B.A. from Elphinstone Coll., 1885. Worked in several schools in Bombay, as Mathematics Teacher, till 1892; Prof. of Mathematics, Fergusson Coll., Poona, 1892-1914; became Life Member, Deccan Education Society, founded Widow Re-marriage Assoc., 1893; started Hindu Widows Assoc. with the help of his wife, 1896 and Widows' Home, 1899, started Mahila Vidyalaya for the education of girls, (married as well as unmarried), 1907, retd. from Deccan Edn. Society, 1914; reorganised both at Ringne Budruk, a Boarding School for Women, 1915; Pres., Indian Social Conference, Bombay, 1915, founded in 1916 Hindu Women's Univ., now known as Shreemati Nathibai Damodar Thackersey Indian Women's Univ., as a result of the enthusiastic donation of Rs. 15 lakhs given by late Sir Vithaldas D. Thackersey; travelled extensively throughout India and the world, since 1916, doing propaganda and collecting funds for the Univ.; member, Senate of the Univ., elected Vice-Chancellor, Univ., June 1942, worked for Maharashtra Village Primary Education Society, 1936; started Samata Sangh, 1946; D.Litt., Benares Univ., 1942, D. Litt., Poona Univ., 1951; D.Litt., S.N.D.T.W.U., 1954; Padma Vibhushan, 1955. *Publications:* Autobiography (in Marathi) and His World Tour. *Address:* Poona 4.

KATARI, Vice-Admiral Ram Dass, I.N., I.d.c., Chief of the Naval Staff, Indian Navy, since Apr. 22, 1958. *b.* Oct. 8, 1911; *Educ.*: Mahboob College, Secunderabad; Nizam Coll., Hyderabad; Training Ship, "Dufferin", Bombay. Hooghly River Survey for a few years; then Indian Navy; War Service in Atlantic and Indian Oceans; several sea-commands since; Chief of Personnel at Naval Headquarters, 1949-51; Imperial Defence College, London, 1953; Dy. Chief of the Naval Staff Indian Navy, 1954-55; Flag Officer (Flotilla), Indian Fleet, Oct. 1956 -April 1958. *Recreations:* Tennis. *Clubs:* Delhi Gymkhana Club, Delhi; Defence Services Club, New Delhi. *Address:* Naval Headquarters, New Delhi.



KATJU, Dr. Kailas Nath, M.A., LL.D., D.Litt., Chief Minister, Madhya Pradesh, since Jan. 31, 1957. *b.* June 17, 1887, *Educ.*: Barr High School, Jaora (C.I.); Forman Christian College, Lahore; Muir Central College, Allahabad. Practised at Kanpur (1908-14); joined High Court Bar, Allahabad, 1914; LL.D., Allahabad Univ. (1919); Advocate, Allahabad High Court (1921); member, Council of U.P.C.C. and A.I.C.C. till 1946; elected Chairman, Allahabad Municipal Board (1935-37); Chancellor, Prayag Mahila Vidyapith; Pres., Allahabad Dist. Agri. Assoc.; Editor, Allahabad Law Journal (1918-46); member, Executive Council, Banaras Hindu Univ., and Constituent Assembly of India (1946-47); Minister of Justice, Industries and Development, U.P. Govt., 1937-39 and April 1946 to Aug. 1947. Imprisoned for 18 months in connection with Civil Disobedience Movement, Nov. 1940; detained under D.I.R., Aug. 1942 to April 1943; Governor of Orissa, August 1947 to June 1948; Governor of West Bengal, 1948-51; Minister for Home Affairs and Law, 1951-52; Minister for States and for Home Affairs, May 1952-Jan. 1955; Defence Minister, Jan. 10, 1955-Jan. 30, 1956. *Publications:* A thesis on the Law relating to Criminal and Actionable Conspiracies, and a commentary (with Mr. S. C. Das) on the Codes of Civil and Criminal Procedure; *My Parents*, 1950; *Reminiscences and Experiments in Advocacy*, 1952. *My memorable cases; Rural Development through self-help*, revised edition 1957. *Address:* Bhopal.



KATRE, Dr. Sumitra Mangesh, M.A., Ph.D. (London), Director, Deccan College Post-graduate and Research Institute, Poona, since 1942; on Special duty since Oct 1956 as Director and Editor, Dictionary of Sanskrit on Historical Principles *b.* April 11, 1906; *Educ.*: Ganapathi High School and Govt. College, Mangalore; Presidency College, Madras; School of Oriental Studies, London Univ., Orientalisches Seminar, Univ of Bonn. Professor of Sanskritic Languages, N. Wadia College, Poona (1933-34); S. P. College, Poona (1937-39); Professor of Indo-European Philology, Deccan College Post-graduate and Research Institute, Poona (1939-42); Hon. Treasurer, Linguistic Society of India, since 1954. *Publications:* Founder-Editor, *New Indian Antiquary* and *Oriental Literary Digest*, and of several commemoration volumes; *Formation of Konkani; Introduction to Indian Textual Criticism; Prakrit Languages and their Contribution to Indian Culture. Address:* Deccan College, Poona 6.

KATZ-SUCHY, H.E. Dr. Juliusz, Jur., Polish Journalist and Diplomat; Ambassador of Poland to India, since June 1957. *b.* 1912; *Educ.*: Cracow, Prague and Warsaw Univs. (Law and Economics). Editor and editorial writer of several socialist publications in Poland 1934-38; in exile as political refugee in Czekoslovakia, 1938-39; during Second World War exiled in England and employed as factory worker, 1940-44; Deputy Dir., Polish Press Agency, London, 1944-45; Press Attache, Polish Embassy, London, 1945; Deputy Chief of Section, Ministry of Foreign Affairs, 1945-46; Acting Repr. of Poland to the Security Council, U.N., 1947; Permanent Repr. of Poland to the U.N. with rank of Minister and Poland's Repr. in the Economic and Social Council until 1951; Delegate to 2nd-6th Sessions, U.N. Gen. Assembly (Vice-Pres., 2nd part 3rd Session, 1949); Delegate to 9th-13th Sessions of Economic and Social Council (Chairman Del. to 13th Session); appointed Dir., Polish Institute of International Affairs; Special Adviser on International Conferences to Minister of Foreign Affairs (rank of Minister); Delegate to all G.A. Sessions of U.N., 1951-56; rank of Ambassador at large, 1956; member of State Council for Atomic Energy, 1955; Delegate to Scientific Atomic Conference, 1955; Professor at Warsaw Univ., 1955; Chairman of Delegation to the Foundation Conference of the Atomic Energy Commission; Delegate to E.C.A.F.E. Conference, Bangalore, 1956. *Publications: International Organisations; Problems of Membership of the U.N.O.; The Place of Poland in the World. Address:* 22, Golf Link Area, New Delhi.

KAUL, Bhagirath Nath, M.A., Ph.D. (Econ.) (Lond.), I.F.S., diplomat *b* November 26, 1899; *Educ.*: Government College, Lahore; Allahabad University; London School of Economics and Political Science. Lecturer in Economics, Univ. College, Rangoon, 1924-27 and Univ. of Allahabad, 1931-32; Chairman, Dept. of Economics, Muslim Univ., Aligarh, 1932-36; Head of the Dept. of Economics, Punjab Univ., Lahore, 1937; 'Specialist' attached to the Financial, Economic and Transit Dept. of the League of Nations, Geneva, 1937-41; since 1941 employed in various capacities in the Govt. of India; Deputy Secy., Industries and Civil Supplies Dept., 1944-45; Director of Industrial Statistics, Ministry of Industry and Supply, 1945-48; Dy. Secy. to the Cabinet, 1948-50; Joint Secy. to the Cabinet, 1950-51; Principal Private Secy. to the Prime Minister, 1951-56; Ambassador to Belgium. *Publications:* Various Papers on economic and statistical subjects in the *Indian Journal of Economics; Unemployment among the Educated Classes in India*, 1935. *Clubs:* Delhi Gymkhana Club and East Punjab Club, Simla. *Address:* C/o External Affairs Ministry, New Delhi.

KAUL, Mahendra Kishan, B.A. (Punjab), M.I.S.I. (Lond.), General Manager Western Rly., since May 24, 1958. *b.* May 1905; *Educ.*: Government College, Lahore; took training in the Tata Iron & Steel Co., Ltd., Jamshedpur, and Scindia Steam Navigation Co., Ltd., Bombay. Joined the former B. B. & C. I. Railway in the Stores Dept. as Asstt. Supdt. of Stores, 1927; elected Chairman, reconstituted elected Municipal Committee, Ajmer, 1939; Vice-President, B. B. & C. I. Rly. Metre-Gauge Athletic Assoc., 1940; re-elected Chairman, Ajmer Municipal Cttee., 1941; organised the Ajmer Railway Grainshops; was Special Officer, Dec. 1942 to Feb. 1943; Supdt. of Stores and Special Officer, March to May 1943; Controller of Railway Grainshops, Northern Zone, June to October 1943; Supdt. of Stores, Ajmer, November 1943 to March 1944; Officiating Dy. Controller of Stores, former B. B. & C. I. Rly., March 1944-46; Offg. Controller of Stores, former B. B. & C. I. Railway, on three occasions, 1946-48; Dy. General Manager (Grainshops), Sept. 1948-49; Dy. General Manager (Staff), April-Aug. 1949; Controller of Stores, B.N. Rly., 1949-52. Officer on Special Duty, April 1952; Senior Dy. General Manager, Northern Railway, July 1952-Oct. 5, 1954; Chief Executive on behalf of Northern Railway in building up and running of Indian Railways Centenary Exhibition, 1953; Pres., Railway Sports Control Board; member, All-India Sports Council; Pres., Indian Rly. Conference Assoc.; General Manager, Northern Rly., Oct. 1954-May 1958. *Address:* No. 8, 'Bombarel', Altamount Road, Cumballa Hill, Bombay 26.



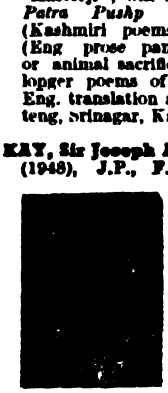
KAUL, Trilokl Nath, B.A. (Hons.), (Punjab), LL.B. (Alld.), LL.M. (London), Ambassador-designate to Iran.* *b.* Feb. 8, 1913; *Educ.*: S. P. Coll. (Srinagar); Prince of Wales Coll. (Jammu); Law Faculty (Allahabad); Kings Coll. & School of Oriental Studies (London Univ.). Passed I.C.S., 1936; worked as Joint Magistrate, Rural Development & Census Officer, Settlement Officer &

*According to present arrangement is to assume charge in Aug. 1958.

District Magistrate till 1945; was member, War Services Selection Board and then Secy, Indian Council of Agricultural Research, Govt. of India, 1945-47; first Secy. Indian Embassy, Moscow, 1947-49; Dy. Secy.-Genl, Indian Delegation to U N, 1947; First Secy, Indian Embassy, Washington, 1949-50; Counsellor, Indian Embassy, Peking, 1950-52; Minister, Indian Embassy, Peking, 1952-53, Joint Secy, Ministry of External Affairs, Govt of India, 1953-56; negotiated Sino-Indian Agreement on Tibet, 1954, Chairman, International Commission and leader Indian delegation, Viet Nam, 1956-58. *Recreations:* Cricket, Tennis, Music, Reading, Writing. *Clubs:* Delhi Gymkhana Club *Address:* C/o Ministry of External Affairs, New Delhi.

KAUL, (Master) Zinda, B A (Punjab), Kashmiri Poet; Pensioner, Jammu and Kashmir Govt. *b* Aug 1884, *Educ.* Church Mission School, Srinagar. Worked as Teacher, 1901-22, as Surveyor, Archaeology, J. & K Govt, 1922-31, Translator, Publicity, J. & K Govt 1931-39, began writing poetry in Kashmiri since 1940; won Govt of India Rs 5,000 prize for *Smaran*, popularly called by pupils 'Masterji', was a theosophist. *Publications* *Patra Pushp* (Hindi poems); *Smaran* (Kashmiri poems); *Philosophy of a Sheep* (Eng prose pamphlet against meat-eating or animal sacrifice), *Paramananda* (Life & longer poems of Kashmiri Saint-Poet with Eng. translation and notes) *Address:* Shehlateng, Srinagar, Kashmir.

KAY, Sir Joseph Aspden, Kt. (1927), K.B.E., (1948), J.P., F.I.C.S., Managing Director, W. H. Brady & Co., Ltd.



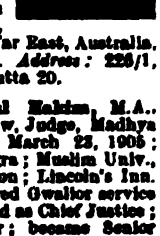
b. 20th January 1884, *Educ.:* at Bolton, Lancashire. Came to India to present firm, 1908; Managing Director and Chairman of Board of several Companies under their control; Chairman, Bombay Millowners' Association, 1921, 1922, 1935, and Employers' Delegate to International Labour Conference, 1923; Officer in Bombay Light Horse; Vice-President, Chamber of Commerce, 1925; President, 1926; Vice-President, Indian Central Cotton Committee, 1925, 1926, 1931, 1932; Chairman, Back Bay Enquiry Committee, 1926; Chairman, Prohibition (Finance) Committee (Bombay), 1926; Member, Indian Council of Agricultural Research. *Residences:* Benarth Hall, Conway, North Wales, and Wilderness Cottage, Nepean Sea Road, Bombay. *Office:* Veer Nariman Street, Bombay.

KAZI, Syed Ghiyasuddin, B.A., LL.B., Minister for Civil Supplies, Housing, Printing Press and Fisheries, Govt of Bombay, since April 1957. *b.* Nov. 22, 1904, *Educ.* Amaravati and Aligarh. Joined Non-co-operation movement, 1922; started practice as a lawyer at Akola, 1930; appointed Asstt. Public Prosecutor; resigned, 1938; associated himself with Jamait-ul-Ulema-i-Hind after 1946; elected Pres., Madhya Pradesh branch; called a Convention of Muslim leaders of various important political parties and openly advised Muslims to join the Congress, 1948; elected M.L.A. in 1952 elections; did yeoman service to the cause of labour in M.P. as Chairman, Industrial Relations Ctee.; on reorganisation of States, was appointed Deputy Minister for Law and Public Health; re-elected M.L.A. in the 1957 general elections. *Hobby:* Reading. *Address:* Bungalow No. 20, Nepean Sea Road, Malabar Hill, Bombay 6; "Rain Room", Tajanpeth, Akola, Bombay State.

KELKAR, Dr. Sadashiva Vishvanath, D. Litt. (Paris), 1935. Minister of Information and Broadcasting, Govt. of India, since May 1952. *b.* 1906; *Educ.:* Poona, Hyderabad, Benares (Kashividyapith) and Paris. Active Congress worker in the U.P. since 1922; took part in all the movements started by the Congress; General Secy., Indian National Congress, 1946; elected to the Constituent Assembly from U P., Jan. 1948; India's official delegate to Inter-Parliamentary Conference at Rome, Sept. 1948; Member, Indian delegation to the U N. General Assembly, 1950; widely travelled in America, Europe and the Far East; elected to the Lok Sabha from Sultanpur Dist. (U.P.), Feb 1952; re-elected to the Lok Sabha from Musafirkhana constituency (U P), 1957. Dy. Minister for External Affairs, 1948-52; re-appointed Minister of Information and Broadcasting, April 1957; member, Foreign Affairs Sub-Committee of Cabinet since April 1958. *Recreations*, Photography, Hiking and Music *Address:* 8, Hastings Road, New Delhi.

KHAITAN, Matadin, Business man. *b.* May 1913 is connected with various public bodies; member: Indian Council of Agricultural Research, National Liaison Cttee of the F A O Govt of India; Development Council for the Sugar Industry, Rajasthan Rural Water Supply Board, National Sugar Institute, Kanpur; I S I. (Sugar Sectional Cttee); Life-member Indian Red Cross Society; National Sports Club of India, Cttee member, Bharat Chamber of Commerce, President, Bengal Sugar Merchants' Assoc (1945 1947 1949, 1950, 1952), Vice-Pres, B B Dist Congress Cttee (1954); Secy, Marwari Relief Society, 1943, '50, '53; Director, Matadin Khaitan & Co, Ltd., National safe Deposit Co., Ltd, Vegetable Products Ltd.; Managing Director, Hind Sugar Co. Ltd.; Founder Trustee, Jhunjhunu charitable Trust; travelled extensively in Japan and Far East during 1952 and U S A and continental countries of Europe during 1954 *Address:* 9, Ramkumar Bakhit Lane, Calcutta 7.

KHAITAN, Motilal, Chairman, Board of Directors, Bata Shoe Co. Private Ltd., Calcutta. *b.* July 19, 1906;



Educ.: B.A. (Cal. Univ.), Attorney-at-Law. Member, Indian Airlines Corporation; Director: Associated Hotels of India Ltd.; Chowringhee Properties Ltd.; Shree Digvijaya Woollen Mills Ltd.; South India Insurance Co. Ltd.; East India Hotels Ltd., etc.; travelled extensively in Europe, United Kingdom, United States of America, Far East, Australia, New Zealand, Japan, etc. *Address:* 226/1, Lower Circular Road, Calcutta 20.

KHAN, Mr. Justice Abdul Hakim, M.A., LL.M (London), Bar-at-Law, Judge, Madhya Pradesh High Court *b.* March 23, 1905; *Educ.:* St. Peter's Coll., Agra; Muslim Univ., Aligarh; Univ. Coll., London; Lincoln's Inn. Practised at the Bar; entered Gwalior service as Puisne Judge, 1931; acted as Chief Justice; officiated as Law Member; became Senior Member, Judicial Cttee., Huzoor Darbar, Gwalior, C.I. *Recreations:* Walking; Tennis; Shooting. *Club:* Jiwaji Club, Gwalior, C.I. *Address:* Mgraz, Gwalior.

KHAN, Allauddin, D.Mus. (1944), Honour by the President of India (1958), Sangeet Nayak and Bharat Hind, Aftabe Mouseque, Sangeet Samrat, Bharat Gourab Sangeet Acharya, Jind of Music, Musician; Hon. Principal, Govt. Music College, Maihar; *Educ.:* Under many ustads and gurus of music, namely Ahmad Ali Khan, Mohd. Hussain Khan and Vazir Khan, for forty years; learned on Indian instruments like Sarod, Vina, Sarsringar, Rabab, Sitar, Shahnai, Mridang, Tabla and Dhol and English instruments like Violin, Cornet and Clarionet; was in the service of Maihar State as Raj Gurú; has given many music performances at important places in India and abroad especially European countries; invented new string instruments viz., Sur-Sringar and Chandra-sarang. *Address:* Maihar, Madhya Pradesh.

KHAN, Mushtaq Hussain, Certificate in Hindi, Urdu and English, Padma Bhushan (29-10-1957), a leading Hindustani musician; has been in the service of Nawab of Rampur for over 40 years. Is the recipient of several honours like Sangeet Bhushan from Darbhanga State, Fakhre Musiqi from Lucknow, Shere Musiqi from Calcutta, one thousand rupees and Kashmiri Shawl from Delhi in 1951 and certificate and a medal from the President of India, Dr. Rajendra Prasad *b* Dec. 5, 1881, at Sahaswan Dist, Badaun (U P) Learned music from 12 different ustads including Ustad Inayat Hussain Khan Has rendered music from most of A I R. stations, is a member Audition Board, A I R, is connected with the famous musician Tansen, awarded Padma Bhushan-gold medal with a certificate by the President of India at Rashtrapati Bhawan, New Delhi, Oct 29, 1957 *Address* Purani Kotwali, Rampur

KHAN, Shah Nawaz, Chiefs Colleges Diploma, Deputy Minister for Railways, Govt of India, since Sept 21, 1950 *b* Jany 24, 1914 *Educ.* Prince of Wales Royal Indian Military Coll, Dehra Dun, Indian Military Academy Dehra Dun, took Chiefs Colleges Diploma, 1940 Commissioned as 2 Lt in the Indian Army in 1/14th Punjab Regt., Feb. 1935, promoted Actg Capt., Oct. 1939, proceeded Overseas, Jan. 1941; joined Azad Hind Fauj of Netaji and promoted Major General, 1943, principal accused in the Red Fort Trial of the I N A elected M P. from Meerut; Parliamentary Secy. to the Minister for Railways and Transport, Aug 12, 1952-Sept 20, 1956 re-elected to Lok Sabha, 1957. *Publications* *I.N.A. and its Netaji. Recreations* Shooting, Farming. *Address.* 4, Old Mill Road N Delhi

KHANNA, Mehr Chand, Minister of Rehabilitation, Govt of India, since Dec 1954 *b* 1897 Finance Minister North West Frontier Province, 1946-47, migrated to India after partition, Adviser, Ministry of Rehabilitation Government of India, 1948 *Clubs* Delhi Gymkhana Club *Address* Minister of Rehabilitation, Government of India, New Delhi

KHANOLKAR, Dr. Prakash Dhondji, M D (Bom.), B.M.S (I), Civil Surgeon, Sholapur since May 28, 1954; Vice-Pres, Red Cross Society, member; Infant Welfare Centre Children's After Care & Probation Remand Home. *b.* March 28, 1913; *Educ.:* Elphinstone High School, Elphinstone College and S. G. S. Medical College, Bombay. House Physician, G. T. Hospital under Dr. N. K. Sahlar, M.D., M.R.C.P., 1937; House Surgeon under Dr. V. R Sanzgiri, Sr. Surgeon, 1938-39; Tutor in Pathology and Bacteriology, S. G. S. Medical College, 1939-43; Pathologist to Kolhapur State 1943-47; Chief Medical Officer and Director of Public Health, 1947, Civil Surgeon Kolhapur, 1949-50; takes great interest in activities conducive to the improvement of public health and general welfare of the poor and needy; was responsible for the early prevention of the spread of a curious type of plague in Kolhapur, 1947; as Dir. Rotary Club, organised Blood Bank in Bargaum; Vice-Pres., Red Cross Society Sholapur; member, Social Welfare Centre etc.; Hon. Supdt. Leprosy Hospital Sholapur; Conducted Surgical Camps in Pandharpur, Jan. 1957. *Recreations:* Bridge and Outdoor games. *Address:* Civil Surgeon Sholapur.



KHARE, Dr. Narayan Bhaskar, B.A., M D *b.* 1884. M.P. ex-Chief Minister, M.P.; resigned from Govt. service, 1918; Member, Leg. Council, M.P., 1922-26) imprisoned in 1930 Civil Disobedience; M.L.A. (Central), 1926-37, who

be placed on the Statute the "Ariya Marriage Validation Bill"; First Prime Minister of M.P., 1937-38; resigned on account of differences with Mahatma Gandhi and the Congress Working Cttee.; member, Viceroy's Executive Council, Dept. of Commonwealth Relations, May 1943 to June 1946; responsible for securing citizenship rights for Indians domiciled in America, saving lives of Indians accused of high treason in Malaya and for various steps taken against South Africa; represented Alwar State in the Constituent Assembly of India as Prime Minister, Alwar and suppressed Muslim rebellion against that State, 1947; elected Pres., All-India Hindu Mahasabha at its Calcutta Session, Dec. 1949 and Poona Session, Dec. 1950 and Jaipur Special Session, April 1951; elected to Lok Sabha, 1952. *Publications:* Autobiography in Marathi and Hindi, 1956. *Address:* Indira Mahal, Dhantoli, Nagpur.

KHER, Atmaram Govind, B.A., LL.B., Speaker, U.P. Leg. Assembly. *b.* September 25, 1894; *Educ.:* Jhansi, Hindu Central College, Banaras, and Law College, Allahabad. Chairman, Municipal Board, Jhansi for 3 terms; member, District Board, Jhansi, for ten years; twice member, Legislative Assembly; member, District, Provincial and All-India Congress Committees, several times; imprisoned for political activities five times; twice Parliamentary Secretary to Minister of Health and Local Self-Govt.; Minister for Local Self-Govt; Elected Speaker, U.P. Assembly, May 21, 1952; re-elected Speaker, April 10, 1957. *Address.* 19, Mall Avenue, Lucknow.

KHETAN, Bhagwati Prasad, Industrialist and Business man. *b.* 1911. Entered business at an early age, looked after his father's firm Basantlal Mannalal, 1928-32, worked with Dalmias in Bihata, 1932-33, joined Anandilal Podar & Co., to supervise their import export trade, 1934; was put incharge of about 12 companies of the Podar group; severed his business connections with them to look after his own concerns, 1953; Chairman: Khetan Industries Ltd. (Silk Mills, Etc.); Khetan Business Corpn. Ltd. (Import & Export); Sarvajanik Ayurvedic Aushadhalaya, Matunga; Director: Khetan Estate Ltd. (Property Dept.); Vice-Chairman, The Sur Singar Samsad; member: Managing Cttee., Marwadi Vidyalaya High School; Education Cttee., Marwadi Sammelan, Bombay; Standing Cttee., Bombay Provincial Hindi Sahitya Sammelan; Univ. Health Institute; Life member, Bombay Hospital. *Recreations:* Sports. *Clubs:* Matunga Gymkhana; Royal Western India Turf Club; Cricket Club of India Ltd.; Western India Automobile Assoc. Ltd.; Marwari Club, Matunga; National Sports Club of India. *Address:* Khetan Bhavan, 198, Jamshedji Tata Road, Churchgate Reclamation, Bombay 1.

KHIMJI, Bhawanji A., M.P. (Lok Sabha). *b.* 1902, at Khamgaon. Member, Bombay Leg. Assembly, 1937-52; represented the Assembly on the Advisory Cttee., Central Rly.; was member: Constituent Assembly of India representing Saurashtra and Kutch; Bombay Pradesh Congress Cttee. continuously for 15 years; was an active and leading Congressman of the City till his services were loaned to Kutch when it was made Part 'C' State; had been treasurer of the B.P.C.C. for over 15 years; has again been elected Treasurer of the B.P.C.C.; is member: Kandla Port Advisory Cttee.; A.I.C.C.; Pres., Society of the Hon. Presidency Magistrates, Bombay, 1951-52; suffered imprisonment for taking part in the freedom



struggle, 1932, 1940-41 and 1943-44; member, Indian Parliament from Kutch, since 1952, is Director: The Sindhu Resettlement Corporation Ltd.; The Arjan Khimji Ginning & Pressing Co. Private Ltd.; Director and Chairman, The Kutch Salt & Allied Industries Private Ltd.; Pres., Bombay Cotton Merchants' & Muccadums' Assoc. Ltd., 1935-50; member, Managing Cttee of the Indian Merchants' Chamber, since 1932; Pres. of the Chamber for 1949 and is now Trustee-Member; was Vice-Pres., East India Cotton Assoc. Ltd. for several years. *Address:* Western India House, 17, Sir Phirozshah Mehta Road, Fort, G.P.O. Box No. 3, Bombay 1.

KHOSLA, Ajudhia Nath, B.A. (Hons.), C.E. (Roorkee), Dr. Engineering (Honorary) Rensselaer Polytechnic Institute, U.S.A., Padma Bhushan (1955), Vice-Chancellor, University of Roorkee, since 1954. *b.* Dec. 11, 1892; *Educ.:* B.A. (Hons.) from D.A.V. Coll., Lahore, 1912; C.E. from Thomason Coll. of Engineering, Roorkee, 1916. Joined P.W.D., Punjab Irrigation, 1916; Indian Service of Engineers, 1919; Executive Engineer, 1926-39; Superintending Engineer, 1939-43; Chief Engineer, 1943-45; Consulting Engineer and Chairman, Central Water and Power Commission and Additional Secy., Govt. of India, 1945-53; Special Secy., Govt. of India, Ministry of Irrigation & Power, 1953; planned and put under construction major dams and barrages and irrigation and drainage schemes and carried out research in flow of water through sub-soils, rainfall runoff silting of reservoirs, concrete, etc.; visited U.S.A. and Canada, 9 times, and many countries of Europe, Asia and Africa; Founder Pres., International Commission on Irrigation & Drainage, 1950, Hony. Pres., since 1954; Chairman: Bhakra Board of Consultants, since 1952, Central Board of Geophysics (India), 1950-53; member Cttee on Plan Projects, 1957, Chairman, Cttee on Railway Bridges, 1957; connected with several such cttees or bodies as Vice-Chairman or Vice-Pres. *Publications: Levelling of precision across Rivers, Eroded the Khosla Disc, Design of Weirs on Permeable Foundations, Silting of Reservoirs, Rainfall and Runoff, Pressure observations under Dams Construction; Precast Concrete Trough Roofs.* *Address:* Vice-Chancellor, University of Roorkee, Roorkee.

KHOSLA, Mr. Justice Gopal Das, B.A. (Hons.) (Cantab.), Bar-at-Law (Lincoln's Inn), I.C.S., Puisne Judge, Punjab High Court. *b.* Dec. 15, 1901. *Educ.:* St. George's College, Mussoorie; Emmanuel College, Cambridge, Dist. & Sessions Judge (1930); Puisne Judge, Lahore High Court (1944). *Publications: Stern Reckoning; Our Judicial System; Himalayan Circuit;* Short stories and articles. *Recreations:* Writing, Sport, Carpentry. *Address:* High Court, Chandigarh.

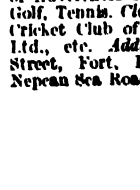
KHOSLA, His Excellency Jagan Nath, B.A. (Punjab), B.Sc. (Econ.), (London), Ph.D. (Econ.), (London), Barrister-at-Law, Indian Ambassador in Czechoslovakia, since 1955. *b.* Jan. 28, 1906; *Educ.:* Srinagar, Lahore, London and Paris. Taught Political Science in the Punjab Univ., 1932-48; Editor, *Indian Journal of Political Science*, 1945-48; Pres., Indian Political Science Assoc., 1947; member, Ex Cttee of International Political Science Assoc. and International Sociological Assoc., 1949-51, Fellow of the Punjab Univ., 1947-48; represented India in several International Conferences, was Alternate Delegate to the F.A.O. General Assembly Special Session Sept. 1956, Head, Consular Deptt., High Commission of India, London, 1948-51; Charge d'Affaires of the Indian Embassy, Rome and concurrently at Belgrade, 1951-52; Head of the Historical Division, Ministry of External Affairs, 1953-54; Pres., International Commission for Control and Supervision, Laos, Indo-China, 1954-55. *Publications:* Several scientific papers in journals. *Club:* The Gymkhana Club, Delhi. *Address:* Embassy of India, Prague, Czechoslovakia.

KIDWAI, H.E. Mr. Mustafa Kamil, B.A., LL.B., Ambassador of India in Saudi Arabia, since 1957. *b.* April 16, 1908 at Masauli, Barabanki, U.P.; *Educ.:* Aligarh Muslim Univ., U.P.; Lucknow Univ. Judicial Officer with Civil and Criminal Powers, U.P. Judicial Service, 1934-46, Under Secy. and Asstt. Legal Remembrancer, U.P. Govt., 1946-47; attached to the Ministry of Law, Govt. of India, 1947-48, Deputy Secy and Dy. Legal Remembrancer, U.P. Govt., 1948-49, Secy., Durgah Khwaja Ajmer Enquiry Cttee., appointed by Ministry of Home Affairs, Govt. of India, 1949-51, Dy. Secy. and Dy. Legal Remembrancer, U.P., 1950-51, Consul-General of India in Saudi Arabia, 1951-54, Charge d' Affaires, Indian Legation, Jeddah, 1954-55, Minister, Legation of India, Jeddah, 1955-56. *Recreations.* Tennis. *Address:* C/o External Affairs Ministry, New Delhi.

KILACHAND, Ambalal, J.P. and Hon. Presidency Magistrate, Greater Bombay Business man. *b.* July 23, 1912; *Educ.:* Elphinstone High School, Bombay and in England. Director, Kilachand Devchand & Co. Private Ltd., and their associated companies as also other private & Public Limited concerns such as the Kesar Sugar Works Ltd., The New Great Insurance Co., of India Ltd., The Indian Dye-stuff Industries Ltd., The Polychem Ltd., Trustee, Bombay Port Trust member; Customs Advisory Cttee.; Pres., Indian Merchants Chamber 1953-54; was member, Import Advisory Council set up by the Govt. of India since its incep. tion up to 1956, is an ardent Rotarian; has extensively travelled in the U.K., Europe and the Far Eastern countries including Japan for developing his firm's business. *Recreations:* Riding, Golfing, Shooting, Photography, Gardening, Art Collecting. *Clubs* Willingdon Sports Club, Rotary Club of Bombay, Cricket Club of India, Radio Club, N.S.C.I., Flying Club, R.W.I.T.C. Ltd. *Address.* *Office:* 45-47, Apollo Street, Fort, Bombay 1; *Residence:* 95, Nepean Sea Road, Bombay 6.



KILACHAND, Chinubhai, Business man. *b.* June 20, 1919. *Educ.:* Fellowship High School and St. Xavier's, Bombay and in England. On his return from England, joined the family firm of Kilachand Devchand & Co. Private Ltd., 1939; has been responsible for developing its Foreign Cotton Deptt.; Director: Kilachand Devchand & Co. Private Ltd. and its associated companies; also of other public companies; Joint Managing Director, Premier Automobiles Ltd. Pres. Indo-German Chamber of Commerce, Bombay; has travelled widely in the U.K., Europe and in the United States of America in connection with the development of the business of his firm; is a prominent figure in the social circles in Bombay, Delhi and other important cities of India; elected Chairman, Indian Society of Advertisers Ltd., June 1958. *Recreations:* Golf, Tennis. *Clubs:* Willingdon Sports Club, Cricket Club of India, N.S.C.I., R.W.I.T.C. Ltd., etc. *Address:* *Office:* 45/47, Apollo Street, Fort, Bombay 1; *Residence:* 95, Nepean Sea Road, Bombay 6.



KILACHAND, Ramdas, Business man. *b.* Sept. 18, 1909; *Educ.:* Elphinstone High School, Bombay and in England. On his return from England, joined his family firm of Kilachand Devchand & Co., Ltd., 1926; developed the Company's cotton and oilseeds export business; Director, East India Cotton Assoc. Ltd., for over 15 years; was its Vice-Pres. for some time; Pres. Bombay Oilseeds & Oils Exchange Ltd.; Ex-Trustee: Bombay Port Trust; Bombay Pinjrapole; Pres., Indian Merchants' Chamber, 1948-49; member: Indian Central Oilseeds Cttee.; elected M.L.A., Bombay in the general elections in 1952, as an Independent from a constituency in Mehsana District in north Gujarat; has widely travelled in the U.K., and the Continent of Europe, the U.S.A. and the Far East. *Recreation:* Golf. *Clubs:* Willingdon Sports Club, Radio Club, Cricket Club of India & The Royal Western India Turf Club Limited. *Address: Office:* 45/47, Apollo Street, Fort, Bombay 1; *Residence:* 95, Nepean Sea Road, Bombay 6.



KILACHAND, Tulsidas, J.P. and Hon. Presidency Magistrate, Bombay (1947), Business man. *b.* July 1, 1906; *Educ.:* Elphinstone High School, Bombay, and privately in England. Joined his father's firm Kilachand Devchand & Co., Ltd., at the early age of 18; is actively interested in banking, insurance, shipping, automobile, chemical and sugar industry; member, Trade Delegation to China, 1946; Leader, Govt. of India's Trade Mission to Japan, 1947; was member: Export Advisory Council of the Govt. of India; Three-Man High Power Import Control Inquiry Cttee which inquired into the working of the Import Control in India, 1950, furnished a very valuable report; member: Planning Commission Advisory Board, 1950-51; Standing Cttee., Indian Council of Agricultural Research: Pres., Federation of Indian Chambers of Commerce & Industry, New Delhi, 1950-51; elected M.P. in the General Elections in 1952 as an independent from Mehsana District in north Gujarat; has widely travelled in the U.K., Europe, U.S.A., and the Far East. *Recreations:* Golf; Tennis. *Clubs:* Willingdon Sports Club, Bombay; Radio Club, Orient Club, C.C.I., R.W.I.T.C., Delhi Gymkhana Club, Delhi Golf Club, etc. *Address: Office:* 45/47, Apollo Street, Fort, Bombay 1; *Residence:* 95, Napean Sea Road, Bombay 6.



KIRLOSKAR, Shankar Vasudev, General Manager, Kirloskar Brothers, Ltd. *b.* Oct. 8, 1891; *Educ.:* Sholapur, Belgaum, Poona and London. Started as Asstt. in the Kirloskar concern in charge of Sales & Publicity, 1914; edited Kirloskar magazines; Minister for Development, Aundh State; Director, Bombay State Financial Corporation. *Recreations:* Cricket, Tennis, Painting, Reading. *Address:* Kirloskarvadi (Dist. South Satara).

KIRPALANI, Motiram Khushiram, B.A. (Oxon.), C.I.E. (1945), Indian Ambassador to Brazil, since June, 1956. *b.* Aug. 15, 1901; *Educ.:* Academy, Hyderabad (Sind) and New College, Oxford. Joined the Indian Civil Service, 1928; was Magistrate and Collector, Midnapore, 1934; Excise Commissioner, Bengal, 1938; Secretary, Commerce Department, 1945-47; Joint Secretary, Govt. of India, Ministry of States, 1948; was Dy. High Commissioner for India in Pakistan; Minister, Indian Embassy in Washington; Ambassador Extraordinary and Plenipotentiary in Bangkok, Thailand; Chief Commissioner, Pondicherry. *Address:* C/o External Affairs Ministry, New Delhi.

KISHORE, Acharya Jugal, M.A. (Oxon.), Minister for Labour & Social Welfare, U.P., since 1954. *b.* April 1894; *Educ.:* Calcutta, Naini Tal and Hindu Collegiate School, Varanasi; Oxford Univ., London. Lecturer, Gujarat Vidyapith, Ahmedabad, 1921; Principal, National Coll., Lahore, 1922; Secy., Gandhi Ashram, U.P., 1927; Principal, Prem Mahavidyalay, Mathura, 1929; General Secy., Indian National Cong., 1946-48; Pres., U.P. Cong. Cttee., 1950-52; Vice-Chancellor, Lucknow Univ., 1951-54. *Address:* Minister for Labour and Social Welfare, U.P., Lucknow.

KNOX, Most Rev. James R., Titular Archbishop of Melitene; Apostolic Internuncio to India, since 1956. *b.* March 2, 1914; *Educ.:* Urban Coll. "de Propaganda Fide", Rome. Vice-Rector, Coll. "de Propaganda Fide", 1945-50; Secy. of the Apostolic Internunciature, Tokyo, Japan, 1950; nominated Apostolic Delegate, British East and West Africa, 1953. *Address:* Apostolic Internunciature, Chanakya Puri, New Delhi 2.

KOSHI, Chief Justice Kaithayil Thomas, B.A. (Madras), B.L. (Madras), Chief Justice, Kerala, since Nov. 1, 1956. *b.* Jan. 31, 1899; *Educ.:* M. D. Seminary High School, Kottayam; C.M.S. Coll., Kottayam; Madras Christian Coll. and Madras Law Coll.; passed B.A., 1919 and B.L., 1921. Joined the Ernakulam Bar, Oct. 1921; appointed Judge, Cochin High Court, Sept 1944; officiated as Chief Justice for some time immediately preceding the integration of Travancore and Cochin; senior Puisne Judge, High Court of Travancore-Cochin, July 1949 Dec. 1952; Chief Justice, Jan. 26, 1952-Oct 31, 1956. *Address:* Chief Justice's Bungalow, Broadway, Ernakulam, Kerala State.

KOTAH, Brig. His Highness Maharajadhiraj Mahi-mahendra Maharao Raja Shri Sir Bhim Singhji Sahib Bahadur, K.C.S.I., the Maharao of. *b.* 1909, the ruling family belongs to the Hara Sect of Chauhan Rajputs and is an offshoot of the Bundi family, the State having come into existence about 1625 during the reign of Madho Singhji, 2nd son of Rao Ratan of Bundi: the Heir-Apparent, Maharaj Kumar Brijraj Singhji Sahib. *b.* Feb. 21, 1934; *Educ.:* Mayo Coll., Ajmer. Ascended the *gadi*, 1940; Uprajpramukh of Rajasthan, 1948-56; Alternate Delegate in the Indian Delegation to the United Nations General Assembly at New York, 1955. *Address*, Kotah, Rajasthan.



KOTHARI, Dayanand Chandulal, M.A. (Madras), Business man; Senior Partner, Kothari & Sons, Madras. *b.* Feb. 1914; *Educ.:* Madras Christian Coll. Ex-Pres.; United Planters' Assoc. of Southern India; Hindustan Chamber of Commerce, Madras; member: All-India Manufacturers' Assoc.; Export Advisory Cttee., constituted by the Govt. of India; Indian Central Cotton Cttee.; Cttee. of Federation of Indian Chambers of Commerce and Industry; Cttee. of the All-India Organisation of Industrial Employers; Southern India Chamber of Commerce; Ex-Governor, Rotary, 56th District; Sheriff of Madras; ex-Vice-Pres., Southern India Millowners Assoc., Coimbatore; Ex-Pres., Estates Labour Relations Organization of South India; Ex-member, Governing Body of I.N.S. Dufferin; Director: Kothari Textiles Ltd., Adoni Spg. & Wvg. Co. Ltd., The Blue Mountain Estates Ltd., The Madras Safe Deposit Co., Ltd., The Investment Trust of India Ltd., The Waterfall Estates Ltd., The Balmadies Plantations Ltd., The Devon Tea & Produce Co. Ltd., The Balanoor Tea & Produce Co. Ltd., The Jai Bharat Ins. Co., Ltd., Kil Kotagiri Tea and Coffee Estates Co., Ltd., Poysha Industrial Co. (Private) Ltd.; member, Madras State Industries Development Cttee.; attended as a delegate of the Govt. of India, the International Labour Conference on Plantations in Indonesia, 1950; attended as Member, the International Labour Conference, Geneva, 1951; Ex-Trustee Madras Port Trust; extensively travelled in the Continent, England and the States, 1949 *Publication: Investors' Encyclopaedia. Recreations:* Tennis, Bridge. *Clubs:* Cosmopolitan Club, Madras Gymkhana Club, Madras Race Club, Madras Boat Club, The Presidency Club, The Coonoor Club. *Address: Residence* "Kothari House", 15, Sterling Road, Nungambakkam, Madras; *Office:* Kothari & Sons, Oriental Buildings, Armenian Street, Madra

KOTHARI, Harshad Chandulal, Business man; Partner, Kothari & Sons; Pres., Madras Stock Exchange Ltd.; Vice-Pres., The United Planters' Assoc. of South India, & Hindustan Chambers of Commerce, Madras; ex-Chairman, Assoc. of Planters, Madras State. *b.* April 18, 1918; *Educ.:* Madras Christian Coll. Ex-Pres., Rotary Club of Madras; member, Cttee.: Madras State Minimum Wages Advisory Cttee; Tea Board, Calcutta; Madras State Housing Board; Southern India Chamber of Commerce; member: Employers' Federation of I; Madras Export Advisory Council; C India Minimum Wages Advisory C Madras State Aid to Industries; Dir Kothari Textiles Ltd., Adoni Spg & W Co., Ltd., the Blue Mountain Estate The Madras Safe Deposit Co. Ltd Waterfall Estates Ltd., The Balmadi tations Ltd., The Investment Trust Ltd., Amrutanjan Ltd; The Coon Estates Co., Ltd; attended as dele gate of the Govt of India the I national Labour Conference on Plan Havana, 1953, and Geneva, 1955; Ex member, Madras Port Trust; extens travelled in the Continent, England and States, 1952; elected Vice Chairman Tea Board, Calcutta. *Publications* Investors' *Encyclopaedia. Recreations* Tennis. *Clubs:* Cosmopolitan Club, Madras Gymkhana Club, Madras Race Club, Madras Boat Club, Presidency Club, Rotary Club Coonoor Club *Address: Residence* 3, Rutland Gate, Nungambakkam, Madras. *Office* Kothari & Sons, Oriental Buildings, Armenian Street Madras.



KOTHAWALA, Lt.-Col. Jamshed Dorabsha, C.St.J., J.P., A.I.R.O. (Retd.), Consul ad honorem of the Republic of the Philippines Bombay; Past Governor, Rotary International Member, 1958 Asia Regional Conference Cttee; R.I. Commander-Brother, the Most Venerable Order of St. John; Hon. Presidency Magistrate; Jt. Managing Director, Polson Agencies Private Ltd., Director, Polson Ltd., Adalites Private Ltd., Sugar Private Ltd. *b.* Sept. 4, 1893. Pres., Cosmopolitan Ambulance and Nursing Divs., St. John Ambulance Brigade; Chairman, East Bombay District Scouts and Guides Local Assoc.; Freemason, Past Master, S.C. and R.C.; Past Pres., Rotary Club of Bombay and Assoc. of Indian Industries; Past Master, Bombay Presidency Trades Assoc.; Past Vice-Pres., All-India Manufacturers' Organization; member: Indian Merchants' Chamber Managing Govt.; Indian Merchants' Chamber Managing Cttee.; Western Railway Zonal and Regional



Consultative Cttees.; attended Rotary International Convention, Nice, France, 1937; R. I. Assembly and Convention, U.S.A., 1954; represented Bombay District at the Golden Jubilee, St. John Ambulance Brigade in London, 1937; presented at His Majesty's Levee, London, 1937 and to the President of India, 1952; Mrs. Kothawala presented at Court, 1937; called to Army service, 1940-43; Mentioned in Despatches by order of the King for gallant and distinguished service with Middle East Forces. *Clubs:* Willingdon; Royal W. I. Turf; United Services; Ripon; C.C.I.; Radio; W.I.A.A.; National Sports Club of India. *Address:* Grosvenor House, Pedder Road, Bombay 26; *Tel. Address:* Philcons, Bombay.

KRIPALANI, Acharya J.B., M.A. (History and Economics), M.P., Director of the Shri Gandhi Ashram; Village and Khadi Organisation in the States of U.P. and Delhi; *b.* 1888. General Secretary of Indian National Congress, 1934 to June 1946; elected Pres., Indian National Congress, Oct. 1946; resigned Nov. 1947; *Educ.:* M.A., 1912. Professor in Bihar under the Calcutta University, 1912-17; joined Mahatma Gandhi in Champaran Satyagraha, 1917; was with him in Kaira (Gujarat); worked as Private Secretary to Pandit Madan Mohan Malaviya, 1918; Professor of Politics in the Benares Hindu University, 1919; left the University and started Khadi and Village work, 1920, through the Gandhi Ashram, Benares; in charge of the Gujarat Vidyapith as Acharya (Principal), 1922-27; for the ninth time arrested and imprisoned under Defence of India Rules in Aug. 1942. Released on 15th June, 1945; Member, Constituent Assembly of India, 1946-51; formed the Congress Democratic Front, 1951; founded "Vigil", independent political weekly, 1950; resigned from Congress and formed Kisan Mazdoor Praja Party, 1951; merged K.M.P.P. with the Socialist Party, Oct. 1951; was Chairman, Praja Socialist Party till Dec. 1954; and Railway Corruption Enquiry Committee, 1954-55; elected to Lok Sabha 1952 and again 1957. *Publications: The Gandhian Way, The Non-Violent Revolution, The Indian National Congress, The Politics of Charkha, The Future of the Congress, The Fateful Year, Gandhi the Statesman, The Latest End, Basic Education, Where are we going, The Second Plan, The Gandhian Critique, Planning, Pomp and Poverty. Address:* Shri Gandhi Ashram, Meerut

KRIPALANI, Smt. Sucheta, M.A. (Delhi Univ.), Member, Lok Sabha. *b* 1908; *Educ.:* Lahore and Delhi, took M.A. degree in History from the Delhi Univ., 1930. Lecturer, Hindu Univ., Banares, 1931-34; entered active politics, 1939; acted as Secy., Foreign Affairs Deptt., A.I.C.C., 1939-40; acted as Secy., Women's Deptt., A.I.C.C., 1941-42; imprisoned in connection with the freedom struggle, 1940-41 and 1943-45; appointed Organising Secy., Kasturba Memorial Trust, 1945; elected member, Constituent Assembly, 1946; subsequently elected member of Parliament; delegate to the General Assembly of the U.N.O., 1949; Member, Congress Working Cttee. (National Executive), 1948-51; resigned from the Congress, June 1951; joined the Kisan Mazdoor Praja Party; was member, National Executive of the Party; was elected member, National Executive, P.S.P. after the merger of the K.M.P.P. and the Socialist Party. Elected to Lok Sabha in 1952 and again 1957. *Recreations:* Music; Painting. *Address:* 30, Prithvi Raj Road, New Delhi.

KRISHNA, Kanwal, Painter; Head of the Art Deptt., Modern School, New Delhi, since June 1953. *b.* Jan. 3, 1910 in Montgomery, West Punjab; *Educ.:* Lahore; Engineering Coll., Benaras; School of Art, Calcutta. Held a one man show in Calcutta, the first solo-exhibition of a student artist in India, 1938; visited Tibet to paint the ceremonies in connection with the installation of the present Dalai Lama on Government of India's invitation, 1939; painted landscapes at places like Sikkim, North-West Frontier Province, Kashmir, etc.; travelled over 4,000 miles mostly on horse-back covering the Himalayan ranges in Tibet, Sikkim, Bhutan and in many remote areas of N.W.F.P.; was the first Indian war artist to be commissioned by the Army to paint the battle scenes during the Kashmir operations, 1948; visited Italy and Scandinavian countries, 1951; held three exhibitions of his paintings in Norway and another at Stockholm; was mainly instrumental in the formation of the leading group of artists called the Delhi Silpi Chakra; its Chairman for the last two years; is also actively associated with a number of leading art and cultural organisations in India and abroad; on the invitation of the British Council, visited England to teach Art at the Hailey-bury and Imperial Services colleges for the summer term, and on the invitation of the Rumanian Institute for Cultural Relations, visited Rumania to study the art trends there, 1957; is also writer and speaker; is now experimenting on new technique in etching and engraving at his studio in his Modern School *Publications:* Contributed several articles to important journals in India and abroad. *Address:* Head of the Art Department, Modern School, New Delhi.

KRISHNAMACHARI, Tiruvallur Thattai, M.P. (Lok Sabha), Ex-Minister for Finance, Govt. of India. *b* Nov. 26, 1899; *Educ.:* Madras Christian College, Madras. Entered business, 1921, was elected representative of the Indian Commerce Constituency to the Madras Leg. Assembly, 1937 and played a prominent part in legislative and other work in the Madras Assembly during the time of the Congress Ministry, has been taking keen interest in the Indian mercantile organisations in Madras State and the economic life of the State in general; elected to the Central Assembly in October 1942 in bye-election for Tanjore-Trichinopoly non-Mohammedan Rural Constituency and was a prominent member in the last Central Assembly, elected Pres. of the Madras Mahajana Sabha for the year 1946-47; elected member, Constituent Assembly of India, 1946; member, Drafting Cttee. of the Indian Constitution; was a member of the Indian Financial delegation that visited London, 1948; Minister for Commerce and Industry, Govt. of India, May 1952-Aug. 31, 1956; was Minister for Iron and Steel, June 1955 to Apr. 1957; Minister for Finance, Govt of India, Sept 1, 1956-Feb. 14, 1958; resigned Ministership, Feb. 14, 1958. *Address:* 3, Cathedral Road, Madras 6.

KRISHNAMACHARI, Sir V. T., B.A., B.L. (Madras), K.C.S.I., K.C.I.E., Deputy Chairman, National Planning Commission, since Feb 1953 *b.* Feb 8, 1881; *Educ.:* Presidency Coll., Madras. Entered the Madras service, April 1903; Under-Secy. to the Govt (1910-18); Special duty on Montague-Chelmsford reforms (1918-19); Collector (Ramnad Dist.); Secy. to the Govt. of Madras (1924-27); services lent as Prime Minister, Baroda State (1927-44); Delegate to the League of Nations, 1934 and 1936; attended all the Round Table Conferences in London; was member, Reserve Bank Cttee., Federal Finance Cttee., etc.; Adviser to the Imperial Conference, 1937; Chairman, Cttee. of Ministers, Chamber of Princes, 1940-44; Delegate to the San Francisco U.N. Conference, 1945; the Preparatory Commission and the first session of the General Assembly (1945-46); Prime Minister of Jaipur (1946-49); Member, Indian Delegation to the Sterling balances' talks in London (June 1948); Chairman, Indian States' Finance Enquiry Cttee. (1948-49); Vice-Pres., Constituent Assembly (1946-49); Chairman, Indian Fiscal Commission (1949-50); member, National Planning Commn., 1950-53. *Publications:* Speeches. *Recreations:* Tennis, Golf. *Clubs:* National Liberal Club, London; Cosmopolitan Club, Madras. *Address:* 133, Lloyds Road, Madras 6; and 5 Janpath, New Delhi.

KRISHNAN, Harikesanalur Ramasastri, B.A. (Madras), M.Sc. (Benares), I.C.S., has been Joint Secretary, Ministry of Law, since 1953 *b.* Jan. 9, 1910; *Educ.:* T. H. School, Ambasamudram; Hindu Coll., Tirunelveli; Presidency Coll., Madras; Benares Hindu Univ.; Sidney Sussex Coll., Cambridge. Joined the Indian Civil Service, 1935; S.D.O. and Dt. Judge at different places in Bihar; Law Secy. to the Govt. of Orissa; Judicial Commissioner, Vindhya Pradesh, 1950-53. *Publications:* Occasional articles in newspapers and magazines. *Recreations:* Bridge, Tennis, Photography. *Address:* C/o Ministry of Law, Govt. of India, New Delhi.

KRISHNAN, Sir Kariamanikkam Srinivasa, Kt. (1946), Padma Bhushan (1954); D.Sc. (Madras), Hon. D.Sc. (Allahabad, Delhi, Lucknow, Calcutta), Hon. LL.D. (Banaras), F.R.S. (1940), For. Ass. Nat. Acad. Sc., Washington (1956), Hon. Mem., Instn. Telecom. Engineers, Director, National Physical Laboratory of India, New Delhi, since 1947. *b.* Dec. 4, 1898; *Educ.:* Hindu High Schools, Watrap and Srivilliputtur; American Coll., Madura; Madras Christian Coll. and Univ. Coll. of Science, Calcutta. Research Associate, Indian Assoc. for the Cultivation of Science, 1923-28; Mahendralal Sircar Research Prof., 1933-42; Prof., Univ. of Allahabad, 1942-47; Pres., National Academy of Sciences, India, 1945 and 1946; Pres., Physics Section of the Indian Science Congress, 1940 and its General Pres., 1949; Pres., Inst. Metals, 1957-58; Pres., Ind. Soc. Theor. App. Mechanics, 1956-57, member, Board & Gov. Body of Scientific and Industrial Research, and of Atomic Energy Commission, Univ Grants Comm. & Chairman, Bd. Res. Nuc. Sc.; fellow of several scientific societies and academies, Vice-Pres., International Union of Pure and Applied Physics, 1951-57; Vice-Pres., Int. Council Sc. Unions, 1955-57; Chairman, Indian National Cttee. for U.R.S.I. and of Indian National Committee, International Geophysical Year; Guest of Honour, Nat. Ac. Sc., Washington (1955); Liege Univ. Medal, 1937; Krishnarajendra Jubilee Gold Medal, 1941; Ahdarchandra Mukherji lectures, Calcutta Univ., 1940; Sukhraj Ray Readership lectures, Patna Univ., 1941; Ripon Professorship lectures, Indian Assoc. for the Cultivation of Science, 1943; Mathur Memorial Lectures, B. H. Univ., 1948; Gaekwad Lectures, Baroda Univ., 1952; special lectures at Travancore, Mysore, Osmania and Punjab Universities; Patel Memorial Lectures, A.I.R. 1956; Sir Thomas Holland Lectures, 1957; delegate to several international scientific conferences. *Publications:* Several papers in the Transactions and the Proceedings of the Royal Society and other scientific journals on Optics, Magnetism, Electronics, Physics and Chemistry of solids, particularly of metals; collaborated with Sir C. V. Raman in the discovery of the Raman Effect. *Address:* The National Physical Laboratory, Hillside Road, New Delhi 12.

KRISHNAN, Dr. Maharajapuram Sitaram, M.A. (Madras), A.R.C.S., D.I.C., Ph.D. (London). Director, Indian School of Mines, since 1957. *b.* Aug. 24, 1898; *Educ.:* St. Joseph's Coll., Tiruchirapalli; Presidency Coll., Madras; and Imperial Coll. of Science and Technology, London. Demonstrator in Geology, Presidency Coll., Madras, 1919-21, Geologist, 1924-45; Superintending Geologist, 1945-48; Director, Indian Bureau of Mines, 1948-51; Fellow of the National Institute of Sciences of the Indian Academy of Sciences and of several geological and mineralogical societies at home and abroad; member, Coal Mining Cttee., 1937; Chairman, Metallurgical Coal Cttee., 1950; member of several Govt. Research Cttees.; Director, Geological Survey of India, 1951-55; General Pres., Indian Science Congress, 1956; Jt. Secretary, Ministry of Natural Resources, 1955-57. *Publications: Geology of India & Burma,* (Madras Law Journal, 1943, 1949) *Introduction to the*

Geology of India (M.I.J. 1944, 1951); *Geology of Gangpur State, Orissa* (1938); *Mineral Resources of Madras* (1952); *Structural & Tectonic History of India* (1953)—the last three published as Memoirs of the Geological Survey of India; More than 100 other papers on geological topics. *Address:* New Delhi.

KRISHNAN, Ramanathan, a leading tennis player. *b.* April 11, 1937; *Educ.:* Loyola Coll., Madras; National Lawn Tennis Champion of India, 1954 and 1957; Wimbledon Junior Lawn Tennis Champion, 1954. *Recreations:* Tennis. *Address:* 'Ram Nivas', 19/13, Vanniampathi, Raja Annamalaipuram Post, Madras 28.

KRISHNAPPA, M. V., Deputy Minister of Agriculture, Govt. of India. *b.* 1918; *Educ.:* Joined school at a late age; after release from imprisonment for 2½ years in the 'Quit India' movement, passed B.A. Exam.; joined Madras Law Coll. Elected M.L.A., Mysore, 1944; Chief Whip, Congress Party, Mysore State Assembly, 1944-52; ex-Pres., Mulbagal Development Cttee.; Pres., Co-operative Multipurpose Society, Mulbagal, Mysore State; Dir., State-managed Bhadravati Iron, Steel and Cement Works, for 5 years; member, Dist. Board for 8 years; Secy., Reception Cttee., Bangalore Session of the A.I.C.C.; returned to the Lok Sabha from Kolar Gold Fields Constituency, Mysore State, 1952, and again in 1957 from Tumkur. Parliamentary Secy., Govt. of India, 1952. *Address:* New Delhi.

KULKARNI, Shankar Balwantrao, A.M., F.R.S.A., Chief Artist, Social Welfare Department, Bombay State (Vidarbha Region), Nagpur. *b.* Oct. 15, 1906; *Educ.:* Nagpur and Bombay. Was a leading artist and designer in Sind till partition; Founder, Oriental Institute of Fine Arts, and responsible for two All India Art Exhibitions at Karachi; his paintings, illustrations and commercial designs published in most of the important journals of India and Pakistan; was Cartoonist to the *Sind Observer* and the *Daily Gazette*; recipient of several awards and gold medals; awarded President of India's 1951 Census Medal; Leader of Madhya Pradesh Contingent at Republic Day Celebrations, Delhi, 1954, 1955 and 1956. *Publications: Children's Picture Album; Heroines of Shah: Drawing Course;* contributed several articles on art and history to various journals. *Recreations:* Collection of art library and Indian art curios. *Address:* Subhas Chandra Road, Nagpur City.



KUMAR, Naresh, B.Com., Business man; a leading tennis player. *b.* Dec. 22, 1928; *Educ.:* St. Xavier's Coll., Calcutta; Govt. Coll., Lahore. National Junior Tennis Champion, 1945, 1946; ranked India's *No.* 1, 1951-52; member of Indian Davis Cup Team, 1952-53-54-55-56-57; Captain, Indian Davis Cup Team, 1955-56-57; winner of Irish Championships, 1952 and 1953; ranked India's *No.* 2, 1955-56; Winner of: Essex Championships, 1957; National Championships of India in doubles with Krishnan, 1956; North of England Championships, Kent Championships, Midland Championships and Birmingham Championships, 1957; National Mixed Doubles Championships with Mrs. K. Singh, 1956; reached mixed doubles quarter-finals at Wimbledon with Miss E. Buding (Germany), 1957; Won doubles championships of Moscow with A. Huber (Austria), 1957. *Recreations:* Model Aeroplanes, Tropical Fishes. *Clubs:* Calcutta South Club; Delhi Gymkhana Club. *Address:* 1-A, Russell Street, Calcutta.

KUMARAPPA, Joseph C., M.A. (Columbia), B.Sc., Business Administration (Syracuse, N.Y.), F.S.A.A. (Lond.). *b.* Jan. 4, 1892. Was in practice as an Incorporated Accountant in partnership in London, 1919, and then at Bombay, 1920-29; in charge of "Young India", May 1930-Feb. 1931; was Convener of the Congress Select Cttee. which issued a report on the Financial Obligations between Great Britain and India, July 1931; Managing Cttee., Bihar Central Relief Cttee. and also its Financial Adviser, 1934; Organiser and Pres., the All-India Village Industries Assoc., 1934-54; Chairman, M. P. Govt. Industrial Survey Cttee., 1939-41; Chairman, Congress Agrarian Reforms Cttee., 1948-49. *Publications: Public Finance and our Poverty; A Survey of Motor Taxis; Why the Village Movement? Practice and Precepts of Jesus; Christianity—Its Economy and Way of Life; Economy of Permanence; The Philosophy of Work, Gandhian Economic Thought, Gandhian Way of Life, The Cow in Our Economy, etc., The Nation's Voice* (as Joint Editor). *Address:* T. Kallupatti P.O. *via* Tirumangalam, S. Rly.

KUNDU, Dr. B. C., M.A., Ph.D. (Leeds), F.L.S., F.B.S., F.N.I., Director, Jute Agricultural Research Institute, Barrackpore, since 1945. *b.* April 1905; *Educ.:* Calcutta Univ., Calcutta; Leeds Univ., England; obtained 1st Class Master's degree in Botany, 1927, topping the list; Sir Rash Behari Ghosh Research Scholar, Calcutta Univ., 1928-30. Lecturer and Head of the Deptt. of Botany, Rajshahi Coll., 1930-37; conducted research work on the growth, development and structure of jute and hemp fibres at Leeds Univ, 1937-39 and obtained Ph.D. degree; Prof of Botany, Presidency Coll., Calcutta and Hon. Lecturer, Calcutta Univ., 1939-45; Pres., Botany Section, Indian Science Congress, Hyderabad Session, 1954; Bengal Botanical Society, since 1957; member: Council, National Institute of Sciences of India, since 1958; Ex. Cttee., Indian Science Congress, 1951-54; Council, Indian Science Congress, 1955-57; Cttee., Indian Science News Assoc., etc.; earned recognition for his contribution on the origin and development of jute and hemp fibres. *Publications:* Several text-books on botany and biology; about 100 papers on Plant Anatomy, Plant Breeding, Systematic Botany, etc. *Address:* Barrackpore, West Bengal.

KUNZRU, Pandit Hriday Nath, B.A., B.Sc., LL.D. (Hon.), M.P. (Rajya Sabha), President, Servants of India Society, since 1936. *b.* 1887; *Educ.:* Allahabad Univ.; London School of Economics. Joined the Servants of India Society, 1909; member: U.P. Leg. Council, 1921-23; Central Leg. Assembly, 1927-30; Indian Constituent Assembly and the Provisional Parliament; Pres., East African National Congress, 1920; National Liberal Federation, 1934; Chairman, Indian Delegation to the second British Commonwealth Conference; Chairman, Railways Corruption Enquiry Committee for a short time; member, States Reorganization Commission; Leader, Indian Delegation to: South Africa, 1950; Institute of Pacific Relations Conference, Kyoto (Japan); Chairman: U. P. Univ. Grants Cttee.; Indian School of International Studies, New Delhi; Pres.: Indian Council of World Affairs; Children's Film Society; member: Central Univ. Grants Commission; Executive Councils of Delhi, Banaras and Allahabad Univs.; National Commissioner, Bharat Scouts and Guides; Leader of the delegation to World Inter-Parliamentary Conference held in London, Sept. 1957. *Address:* 18, Feroz Shah Road, New Delhi.

KURUP, G. Sankara, 'Kavithilakan', Producer, 'Spoken Word', AIR, Malayalam Writer; Retd. Malayalam Professor, Maharaja's College, Ernakulam. Member: Kerala Sahitya Akademi; Advisory Board of Sahitya Akademi. *b.* June 1901; *Educ.:* mostly privately after High School Course. Joined service as teacher, 1921; served in High Schools, Training Institution and College; began publishing poems from the seventeenth year; Pres., Sahitya Parishath; Editor, Parishath Journal. *Publications:* Poems: *Sahitya Kaumudi; Pushpagiri; Pushpanjali; Pushpavatee; Surya Kanti; Manasi; Mandakini; Ithalukal; Pathikante Pattu; Antardaham; Vellil Paravakal; Nimisham,* etc.; Translations: *Meghasandesa* (a rendering of Kalidasa's Megha Dutha); *Vilasalahari* (Roobayyath of Omar Khayyam); One Act Plays: *Iruttinumunpu; Sandhya: August Fifteenth,* etc.; Prose: *Gadyopaharam; Lekhamala; Rakknyilukal; Rajanandini;* Children's poems: *Ilamchundukal.* **Recreation:** Chess. *Club:* P.E.N. *Address:* All India Radio, Trivandrum.

KURUP, Poyipplli Kalathil Kunju, Award by the Union President for Kathakali Guru or Kathakali Dance, Kathakali Natyacharyan. *b.* March 20, 1880; *Educ.:* About 12 years at Thakazhi, under Chabbakkulam Sanku Pillai. Is a leading Kathakali dancer in India, spent the early part of his life in Travancore and then settled down in Malabar with Kathakali as his chief profession. *Address:* Lakshmi Vilas, P.O. Kottayi (*Via*) Palghat

KURUP, Vennikulam Gopala, Malayalam poet; Supervisor, Malayalam Lexicon Office, University of Kerala. *b.* in a tiny village in central Travancore, Kerala State. *Educ.:* Had his early education in Malayalam and Sanskrit; later took the Vidwan title examination of the Madras Univ. *Publications:* A collection of poems, *Swarajageeta; Manaveeya Soundarya Pooja; Vasantadanam, Keralee Manasapatra; Pushpavrsti; Thirakk* a translation into Malayalam from the *Ramacharitamanasam,* translation from Hindi. *Address:* Trivandrum.

KUTCH: H. H. Maharaja Dhiraj Mirza **Maharao Shri Madansinhji Savai Bahadur,** Maharao of. Indian Ambassador to Norway since March 1957. *b.* Oct. 12, 1909. Heir Apparent, Maharaj Kumar Shree Prithvirajsinhji is studying at Delhi Univ.; *Educ.:* Privately under tutors and by extensive travel. Transferred the administration of Kutch State to the Govt. of India on June 1, 1948, following the independence of India on August 15, 1947 and in pursuance of the policy followed by Rulers of the unification of their States with the Indian Union; has been given a fixed Privy Purse in perpetuity; has been guaranteed by the Govt of India the same personal rights, privileges, dignities and titles as he enjoyed as Ruler of Kutch, prior to 1st June 1948; has travelled widely in Europe, U.S.A. and Africa; joined the Indian Foreign Service and after serving for three and a half years with the Indian High Commission in London with rank of Minister, was appointed India's first Ambassador to Norway, 1956; took charge, March 1957; is keenly interested in Indian philosophy; is a tennis player of note. *Recreations:* Riding; Polo; Shikar. *Address:* Bhuj, Kutch. Indian Embassy, Oslo, Norway.



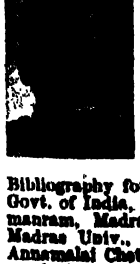
LAHIRI, Ashnath, M.Sc., Ph.D. (Lond.), D.I.C., Dip.F.Tech., A.R.I.C., M. Inst. Fuel, M.Inst.Pet., M.Nat. Ac.Sc., Director, Central Fuel Research Institute of India, since April 1954. *b.* Aug. 24, 1916; *Educ.:* Presidency Coll., Calcutta; Imperial Coll. of Science and Technology as Sir T. N. Palit Foreign Scholar for higher research, and Cambridge. Conducted research under Prof. H. H. Read, F.R.S., and Sir Alfred Egerton, F.R.S., at Royal Coll. of Science, 1938-42; Senior Scientific Officer in charge of Air Ministry, Fuel and Oil Research Laboratories, Farnborough, 1942-45; joined as Asstt. Director and Officer-in-Charge of Coal Survey Stations of the Fuel Research Institute, 1945; Dy. Director, April 1954; Vice-Pres., Institute of Chemists (India); member, Council of the Mining, Technological and Metallurgical Institute. *Publications:* Over 100 research papers on various aspects of Fuel Technology and in

Geochemistry, Physical Chemistry, Geology, etc. *Recreations :* Shooting and hunting, photography, tennis and mountaineering. *Address :* Director, Central Fuel Research Institute, Jealgora P.O., Dhanbad Dist., Bihar.

LAHIRI, S. K., B.Sc. (Eng.), Director General of Lighthouses and Lightships. *b.* Dec. 10, 1909; *Educ.:* and trained at Calcutta, Patna, Manchester and London. Asstt. Engineer, Dagenham B. Council, Essex, England (1932); Calcutta Improvement Trust (1933); Town Engineer, Jamshedpur (1933-40); Engineer, Lighthouse Deptt., Govt. of India, (1941-48); Designs Officer, C.W.I.N.C. (1948); Engineer-in-Chief, Lighthouse Department, (1949-56); Member-Secy., Central Advisory Cttee. for Lighthouses; Member, Radio & Cable Board, Govt. of India, New Delhi; represented India as Leader of the Indian Delegation to the International Lighthouse Conferences, Paris, 1950 and Scheveningen, Holland, 1955. *Publications :* Author of several papers, the latest being "Electric Flashers and Lamps" which was presented on behalf of India at the International Conference of Lighthouses, Holland, 1955. *Recreations :* Reading, travelling, tennis and billiards. *Clubs :* Gymkhana Club. *Address :* 17, Curzon Lane, New Delhi.

LAKSHMANAN, Lieut.-Col. Cheruvari Kottieth,* L.M.S. (Mad.), M.R.C.S. (Lond.), D.T.M. & H. (Lond.), D.P.H. (Eng.), Ex-Director General of Health Services, Govt. of India. *b.* April 5, 1898. *Educ.:* Madras Christian Coll.; Madras Medical Coll.; St. Barthalomew Medical Coll. and Hospital, London. Was in the I.M.S., Oct. 1925-35, was Port Health Officer, Bombay and Calcutta; Dy. Public Health Commr. with the Govt. of India; Chief Health Officer, Delhi State; Dir. of Public Health, Bengal; Dir., All-India Institute of Hygiene & Public Health, Calcutta; was Chief Indian Delegate to International Health Conference, New York, 1946; Medical representative for India at Nutrition Conference at Singapore, 1946. Special Consultant to U.N.I.C.E.F. to assess child health needs in South East Asia; member, Indian Delegation to third, seventh, eighth and ninth World Health Assembly at Geneva, 1950, 1954, 1957 and Mexico, 1955; Delegate to the third, fourth, fifth and seventh Sessions of W.H.O. Regional Cttee. for S.E. Asia held in Ceylon, 1950, Rangoon, 1951, Bandung (Indonesia), 1952 and New Delhi, 1954; attended the first and second sessions of the W.H.O. Expert Cttee. on International Quarantine at Geneva, 1953 and 1954; is Hon. Surgeon to the President of India. *Address :* C/o Director General of Health Services, New Delhi.

LAKSHMANAN Chettiar, S.M. L., B.A., Diploma in Journalism, Public Relations Officer, Annamalai University. *b.* Feb 1, 1921. *Educ.:* Annamalai Univ.; graduated from Presidency Coll., Madras, 1941; took Diploma in Journalism, Hornimen Coll., Bombay; Wellawatte Polytechnic, Colombo. Travelled widely in Europe, U.S.A., Australia, South-East Asia, 1948-49; member, Southern India Journalists' Federation; awarded prize by Tamil Academy, Madras, 1953; was connected with the compilation of the National Bibliography for the Ministry of Education, Govt. of India, 1954; Pres., Y.M.C.A., Pattimanram, Madras; member, Senate of the Madras Univ., 1955; Secy., Dr. Rajah Sir Annamalai Chettiar Memorial Trust; Correspondent, Annamalai Polytechnic, Chettinad; Organiser, Rajah Muthiah Library, Chettinad; Editor, Annamalai Polytechnic Magazine; Producer, Documentary Film on Annamalai University; Jt. Ed., Indian Bank Golden Jubilee Souvenir. *Publications :* Author of several travel books; *Americaavippar; Nan Kanda Yelloattu Ketchigal; Australiavil oru Mothem; Pirapanam Oru Kalai; Chettinadum Tamilum; Pandithamani; En Prayana Ninaivugal; Namathu Thalainagaram, Valarum Tamil; Pirayana Ilakkiam;* Edited Annamalai Univ. Silver Jubilee Record, Neiveli Lignite Project and the Annamalai Univ., Introducing the Annamalai University. *Recreations :* Travel and public speaking; *Pen name :* Somalay. *Address :* Public Relations Officer, Annamalai University, Annamalainagar, South India.



LAKSHMIKANTHAM, Pingali, M.A. (Madras), Spoken word producer, All India Radio, Vijayawada. *b.* Jan. 10, 1894; *Educ.:* Hindu High School, Masulipatam; Noble Coll., Masulipatam. Was Lecturer, Noble Coll.; Research Fellow, Madras Univ.; and Head of the Deptt. of Telugu, Andhra Univ.; Member, General Council of the National Academy of Letters; elected as a member of the Executive Board of the Academy. *Publications :* Poetry: *Tolakari* (Lyric) and *Soundaranandum* (Epic). (both in collaboration with Katuri Venkateswararao). Prose: *Gouthama Vyasamulu* (Essays). *Recreation :* Tennis. *Club :* Visakhapatnam Club. *Address :* All India Radio, Vijayawada.

LAL, Jagat Narain, M.A., LL.B., Minister for Law, Co-operative & Animal Husbandry Deptts., Bihar. *b.* July 1896; *Educ.:* High School education at Ghazipur; Coll. education at Kayastha Pathshala, Ewing Christian Coll. and Univ. school of Law, Allahabad. Joined Patna District Bar, 1917; suspended practice and joined N.C.O. Movement, Dec. 1920; was General Secy. and later Pres., Patna District Congress Cttee., 1921-23; Asstt. Secy., B.P.C.C., 1923-24; member: A.I.C.C. for several years from 1924; Bihar Leg. Council from 1926 with breaks; Parliamentary Secy., Bihar Govt., 1937-39; convicted several times during freedom movement and courted jail for about nine years; General Secy. and later Pres., Prov. Hindu Sabha, 1923-36; General Secy., Bihar Provincial Sewa Samiti, 1918-26; State Chief Commissioner, Bharat Scouts and Guides, Bihar State. *Publications : Jugiana* (Poetry) in Hindi; *Light Unto a Cell*, Hindi translation of 'The One Thing Needful' by Tolstoy. *Recreations :* Interested in Yoga-Asanas. *Address :* 2, Strand Road, Patna.

LAL, Mohan, B.A. (Hons.), LL.B., Minister for Finance and Industry, Punjab. *b.* June 1, 1905; *Educ.:* Had a brilliant academic career; Khalsa Coll., Amritsar; Law Coll., Lahore. Practised as an Advocate in Batala District, Gurdaspur, 1929-56; had been a leading lawyer of the District; had been associated with various social, cultural and political activities in Punjab; Congressman from his youth; elected to the Legislature Upper House in Punjab, 1952; Leader of the House, Punjab Leg. Council, since 1956. *Recreations :* Tennis, Badminton. *Clubs :* Bala'a Club. *Address :* Finance Minister, Chandigarh Capital, Punjab.

LALA, Bhogilal Dhirajram, B.A., LL.B., Chairman, Bombay Legislative Council, since Nov. 1956. *b.* Dec. 7, 1877; *Educ.:* Ahmedabad and Bombay; passed LL.B., 1900. Began practice as Pleader, 1900; gave up practice when Non-Co-operation Movement started, 1920; since then worked as full time Hon. Congress Worker; Secy., Gujarat P.C.C., 1931-54, was its Vice-Pres., till 1956; elected to Bombay Leg. Assembly, from Ahmedabad City, 1937 and again in 1946; elected to Bombay Leg. Council by Ahmedabad Municipal Corporation, 1952; Professor, Law Coll., Ahmedabad, 1927-32; has been connected with the School for Deaf-mutes and Blind at Ahmedabad for the last thirty years. *Publications :* Two books on Penal Code and Procedure. *Address :* "Kaverne", 21, Narayan Dabholkar Road, Malabar Hill, Bombay 6.

LALBHAI, Kasturbhai, Millowner and Banker; Director in 20 concerns such as Textile, Insurance, Electricity, Steamship, Starch Dyes, Pharmaceutical Manufacture, and Motor Company, and also Director, Local Board, Western Region, Reserve Bank of India; Chairman: National Research & Development Corporation, New Delhi from 1954; Executive Council, National Chemical Laboratory, Poona; Ministry of Natural Resources, since 1953; Western Regional Cttee., All-India Council for Technical Education from 1955; Planning Committee, W. Region, Govt. of India from 1955. *b.* Dec. 19, 1894; *Educ.:* Govt. R.C. High School and Gujarat Coll., Ahmedabad. Pres.: Ahmedabad Millowners' Assoc., 1933-35; Federation of Indian Chambers of Commerce and Industry, 1934-35; Council of Administration of the Ahmedabad Textile Industry's Research Assoc., since 1947; Gujarat Chamber of Commerce, 1950-51; Chairman, West Coast Kandla Port Development Cttee. appointed by the Govt. since 1948, Industrial Cttee. of Mahatma Gandhi Memorial Fund, 1948; Gujarat Famine Relief Cttee., 1949 and 1952; Cttee. appointed by the Govt. of India for conducting inquiries into the State-sponsored industries in the Hyderabad, Mysore and Travancore States, 1950; Central P.W.D. Enquiry Cttee. to the Govt. of India, 1952; member: Indian Delegation to the International Labour Conference at Geneva, 1929 and 1934; Council of Scientific and Industrial Research Board and governing body from 1940 and also Chairman of the Finance Sub-Committee of C.S.I.R.; Textile Control Board from 1943; Indian Delegation to the Cotton Conference, Cairo, 1943, Senate of Gujarat University from 1950; Central Advisory Council to the Govt. of India, 1953; Advisor to the Govt. of India in the Indo-British Trade Negotiations, 1937 and Indo-Burma Trade Negotiations 1940. Leader and Pres., Jain Community in India; represented the Govt. of India on the Textile Cttee. of the Combined Production and Resources Board, Washington, 1945. Leader of the Indian Delegation to: the International Cotton Textile Industry Conference, Buxton, Manchester, 1952; the Industrial and Agricultural Delegation to the U.S.S.R., 1954; Patron, Ahmedabad Education Society; Chairman of its Governing Body, since 1935; Member, Senate, Gujrat Univ., Ahmedabad; Director, Reserve Bank of India, 1937-49 and since 1957. *Recreations :* Gardening, Reading. *Clubs :* Gujarat Club, Ahmedabad; Willingdon Sports Club, Bombay. *Address :* Pankore Naka, Ahmedbaad; Lal Baug, Shahibag, Ahmedabad.

LALCHAND HIRACHAND, B.A., Industrialist; Chairman: The Premier Automobiles Ltd., Indian Hume Pipe Co., Ltd.; Cooper Engineering Ltd., Bombay Cycle and Motor Agency Ltd., etc.; Director: The Premier Construction Co. Ltd., Hindustan Construction Co. Ltd., Walchandnagar Industries Ltd., Scindia Steam Navigation Co. Ltd., Hindustan Shipyard Private Ltd., etc.; Pres: Indian Sugar Mills Assoc., 1943-44; Deccan Sugar Technologists' Assoc., 1943-50; Chairman, Deccan Sugar Factories Assoc. for three successive years from 1943; Pres. The Automotive Manufacturers Assoc. of India, since 1954; is Vice-Pres., Maharashtra Chamber of Commerce; Indian Merchants' Chamber, 1958; member: Bombay Leg. Council, 1939; Rajya Sabha, 1952-58; is member: Bombay State Labour Advisory Board; Development Council for Machine Tools Industry set by the Govt. of India; Import Advisory Council of the Govt. of India; actively interested in agricultural, industrial and social activities; has interests over a wide field, viz. automobiles, construction, engineering, sugar, shipping, etc.; attended the Moscow International Economic Conference, 1952. *Clubs :* Cricket Club of India; Willingdon Sports Club. *Address : Office :* Construction House, Ballard Estate, Bombay 1; *Residence :* Neela House, Pedder Road, Bombay 26.



* Was to become Secretary-General, Indian Red Cross in June 1958.

LALL, Jag Mohan, B.A., A.C.A., Chairman; I.C.I. (India) Private Ltd.; Indian Explosives Ltd.; Alkali & Chemical Corporation of India Ltd. *b.* 1913; *Educ.*: B.A. from F.C. Coll., Lahore, 1933; A.C.A. from Institute of Chartered Accountants (London), 1938; won the Frederick Whinney Prize of the English Institute of Chartered Accountants, 1938. Joined I.C.I. (India) Ltd., 1939; joined its Board, 1951; Managing Director, I.C.I. (India) Ltd., 1957–58. *Address*: I.C.I. (India) Private Ltd., 34, Chowringhee, Calcutta 16.

LALL, Krishna Behari, I.C.S., Joint Secretary, Ministry of Commerce and Industry, Govt. of India, since March, 1954. *b.* May 30, 1915; Chairman; State Trading Corporation, since May 18, 1956; Foreign Trade Board, since July 1957; Director-General, Foreign Trade, since Aug. 1, 1957. *Educ.*: St. Stephen Coll., Delhi; School of Oriental Studies, London; Univ. Coll., Oxford. Served in M.P. as Asstt. Commr.; Officer-in-charge, Court of Wards, Raipur (took interest in Aboriginal Tribes); Dist. Magistrate; Dy. Dir. of Food Supplies; Food Secy. to State Govt., 1944; transferred to Govt. of India; Dy. Secy., Ministry of Commerce; Dy. Secy., Partition Secretariat; Secy., Delhi Emergency Cttee.; dealt with post-partition disturbances and participated in Inter-Dominion Conferences on Evacuee Property; took over charge of Alwar Administration, Feb. 7, 1948; Administrator, former United State of Matsya (1948-49); organised scheme of semi-mechanised co-operative cultivation for rehabilitation of refugees; Chief Secy., M.B. (1949-52); integrated Services and reorganised administration on provincial model; Chief Controller of Imports and Exports, 1953-54; India's Alternate Delegate to the 10th, 11th and 12th Sessions of the ECAFE; member, India's Delegation to the Asia-Africa Conference, Bandung (1955). *Address*: 2, Ram Kishore Road, Civil Lines, Delhi.

LALL, Shamaldharee, C.I.E. (1941), I.C.S., (Retd.), Chairman, Air Transport Council, Govt. of India, since April 1955. *b.* Oct. 1894; *Educ.*: St. Xavier's College, Calcutta; Scottish Churches College, Calcutta; Exeter College, Oxford. Joined Indian Civil Service 1919; served as Asstt. Collector to the Govt. of Bihar & Orissa; Director of Industries and Labour, Govt. of Bihar and Orissa; Secy. to Govt. of Bihar and Orissa, Education and Development Dept.; Deputy High Commissioner for India, London, 1938-44; Officiating High Commissioner for India, London, 1941-42; elected Chairman, Governing Body of I. L. O., 1948-49; Secretary, Ministry of Labour, Govt. of India, 1946-50; has also acted as Secretary-General, Aug. 1950; Asstt. Secretary-General, United Nations 1950-54. *Address*: 38, Lodi Road, New Delhi; Bhagalpur, Bihar.

LAMBERT, John Malcolm, O.B.E. (Jan. 1956), Bank Manager. *b.* Sept. 19, 1904; *Educ.*: in Scotland. *Recreations*: Golf. *Clubs*: Madras Club, Adyar; Madras Gymkhana. *Address*: National Bank of India Ltd., North Beach Road, Madras 1.

LASH, The Right Rev. William Quinlan, B.A. (1927), M.A. (1932), Bishop of Bombay. *b.* February 5, 1905; *Educ.*: Tonbridge School; Emmanuel College, Cambridge; Westcott House, Cambridge. Curate of St. Mary's Portsea, 1928-1932; member of Christa Seva Sangha, Poona, 1932; Professor, Sir Parashurambhau College, Poona, 1933-34; Acharya, Christa Prema Seva Sangha, 1934; consecrated Bishop of Bombay, August 10th 1947. *Publications*: *Christian Mysticism*; *Apostolic Faith*; *To High Kailas*; *Temple of God's Wounds*. *Address*: St. John's House, Colaba, Bombay 5; *Telegraphic Address*: Felicity, Bombay.

LEELA, P., a leading Playback Singer in the south. *b.* April 25, 1932; *Educ.*: Girls' High School, Ernakulam, Kerala State. Left school when 12 to devote herself to the study of music; came to Madras, 1944; studied under music tutors of repute; won several gold medals in music competitions; travelled all over the south and north giving a series of concerts; became a playback singer, her first assignment being in G. B. Narayan's "Kankanam" in 1947; has sung about a thousand and four hundred songs in over 600 pictures, in Malayalam, Tamil, Telgu and Kanarese; frequently sings on the A.I.R. *Recreations*: Gardening; Reading books. *Address*: "Brindavan", 2, Sreenivasan Street, Madras 28.

LOHIA, Madanmohan Basantilal, General Manager, The Kolhapur Sugar Mills Ltd. *b.* December 1910; *Educ.*: Marwadi Vidyalaya and St. Xavier's College, Bombay. Took to Commercial line in 1933 under the guidance of his father and grandfather; went to Kolhapur in 1943 to look after the whole business of the Kolhapur Sugar Mills Ltd., and the United Agencies Pvt. Ltd.; Director: Rula Industries Pvt. Ltd., Kolhapur; The Yeshwant Iron & Steel Works Ltd., Kolhapur; Pres.: New Education Society, Kolhapur; Deccan Manufacturers' Assoc.; Board of Trustees of the Shashikala Tuberculosis Sanatorium, Jayasingpur; Vice-Pres.: Vidyapeeth Society, Kolhapur; Chairman, School Board of Aryasamaj, Kolhapur; member: The Bombay Labour Welfare Board, Bombay; Advisory Cttee. for the Industrial Training Centre, Shivaji Technical Institute, Kolhapur; Residency Club, Kolhapur, State Advisory Council of Industries, Govt. of Bombay, Bombay; Lions Club, Kolhapur; Kolhapur Sports Assoc., Kolhapur; has travelled widely in India; went on a business tour all over the Continent, 1956. *Clubs*: Laxmi Gymkhana, Kolhapur (Pres.); Deval Club, Kolhapur (Pres.); Panhala Club, Panhala (Pres.). *Address*: Sykes Extension, "Prabhu Chhaya," Kolhapur.



LOHIA, Dr. Rammanohar, founder, Socialist Party; ex-General Secretary, Praja-Socialist Party. *b.* 1913; *Educ.*: Bombay, Banaras and Calcutta; went to Germany where he obtained his doctorate in Economics. At the age of 14 attended the Gaya Congress as a delegate; after returning from Germany became leader of the Congress Socialist Party; was Editor, *Congress Socialist* till 1939; organised the Foreign Department of the A.I.C.C. at the invitation of Mr. Nehru; developed relations between the Congress and progressive forces in different European countries; set up a separate branch to look after the interests of Indians overseas; elected to the A.I.C.C., 1936; prosecuted for sedition in Calcutta, 1939; arrested and imprisoned for two years for anti-war speeches, 1940; took a leading part in the Quit India Movement, 1942; arrested again in 1944; in Goa and Darjeeling, 1946; arrested twelve times since independence; founded and formed the Socialist Party of India, 1956; Editor, *Mankind*. *Publications*: Several books among them *Third Camp in World Affairs*; *Himalayan Policy for India*; *Wheel of History*; *Aspects of Socialist Policy*; *Fragments of a World Mind*. *Address*: Socialist Party, Himayat Nagar, Hyderabad.

LOKANATHAN, Dr. Palamadai S., M.A. (Madras), D.Sc. (Econ.), London, Gokhale Prize in Economics, 1921; Director-General, National Council of Applied Economic Research, New Delhi. Ex-Executive Secretary of the United Nations Economic Commission for Asia and the Far East; was conferred the Most Noble Order of the Crown of Thailand First Class. *b.* Oct. 10, 1894; *Educ.*: St. Joseph's Coll., Univ. of Madras, London School of Economics, Univ. of London. Reader in Economics and later Ag. Prof. of Economics in the Univ. of Madras; Editor, "Eastern Economist", New Delhi, 1948-47; member, Labour Adv. Board, Govt. of Madras, 1935-39; member, Consultative Cttee. of Economists; delegate to the World Business Conference, Rye, New York, 1944, and to the Pacific Relations Conference, Hot Springs, America, January 1945; Indian Delegate to the Preparatory Cttee. of International Trade Conference, London & Geneva; for some time member of the Senate, Academic Council, Madras Univ. and of Boards of Studies in Economics in the Universities of Madras, Travancore, Annamalai and Andhra; Chairman: Governing Body, National Productivity Council; Advisory Board, Demographic Research and Training Centre; Agricultural Economics Cttee., Indian Council of Agricultural Research, New Delhi; member Board of Research and Advisory Board, I.C.A.R.; Sugar Wage Board, Govt. of India; Court of Governors, Administrative Staff Coll. of India, Hyderabad; Director, State Trading Corporation; member, Local Board, State Bank of India, Delhi Circle; Vice-Pres., Indian Council of World Affairs; member: Exec. Cttee., Delhi Management Assoc., New Delhi; Governing Body, Shri Ram Coll. of Commerce, Delhi; Indian Institute of Public Administration; Ex. Cttee., Diwan Chand Indian Information Centre, New Delhi. *Publications*: *Industrial Welfare in India*; *Industrial Organisation in India*; *Industry and India and Post-War Reconstruction*. *Address*: Bombay Mutual Building, Parliament Street, New Delhi; 4/15, Edward Elliot Road, Mylapore, Madras 4.

LOKUR, Narayan Swamirao, B.A., LL.B., LL.D., Chairman, Committee for Rail-Ship Co-ordination; member, Airlines Compensation Tribunal, Madras. *b.* April 21, 1887; *Educ.*: Deccan Coll., Poona, and Govt. Law School, Bombay. Practised as pleader at Belgaum for some time; was Govt. Pleader and Public Prosecutor, Belgaum; Asstt. Judge, 1918-21, District & Sessions Judge from 1925; High Court Judge, 1939-40 & 1942-47; Chief Justice, Joint High Court for Kolhapur and the Deccan States, April-August 1947, Chief Justice, Kolhapur High Court, 1947-49; was Chairman, Bombay Cttee. for the Separation of the Judiciary and the Executive; Provl. Scout Commnr., Bombay, Pres., Rly. Rates Tribunal, since 1949, member, Labour Appellate Tribunal, 1950-53, was Chairman: Air Transport Licensing Board, New Delhi; Election Tribunal, Lucknow; conferred LL.D. by the Karnatak Univ. *Publications*: Annotated editions of *Janaki-haranam*, *Buddha-Charita* and *Selections from Mahabharata*, with Sanskrit Commentaries. *Address*: 'Adyar House', Adyar, Madras 28.

LUCKHAM, John, Managing Director, The Dunlop Rubber Co. (India) Ltd. Joined the Dunlop Rubber Co., Ltd., U.K., 1930; transferred to India in 1934; Chairman, Association of Rubber Manufacturers in India. *Residential Address*: 52/3, Ballygunge Circular Road, Calcutta 19.



MACDONALD, His Excellency The Rt. Hon. Malcolm John, M.A., High Commissioner for the U. K. in India, since Sept. 1955. *b.* Aug. 17, 1901; *Educ.*: Bedales School, Petersfield, Hampshire, England; Queen's Coll., Oxford. Member: London County Council, 1927-30; M.P. (Labour) Ramsay Division of Notts, 1929-31, (Nat. Labour), 1931-35; M.P. (Nat. Govt.) Ross and Cromarty, 1936-45; Parliamentary Under-Secretary, Dominions Office, 1931-35; Secretary of State for Dominion Affairs, 1935-38 and 1938-39; Secy. of State for Colonies, 1935 and 1938-40; Minister of Health, 1940-41; U.K. High Commissioner in Canada, 1941-46; Governor-General of the Malayan Union and Singapore, May-July 1946; Governor-General of Malaya and British Borneo, 1946-48; Special Ambassador at Inauguration of

Indonesian Republic, 1949; Commissioner-General for the U.K. in South-East Asia, 1948-55; contested Bassetlaw Division, 1923 and '24; Rhodes Trustee, 1948; Chancellor of the Univ. of Malaya, 1949; Doctor of Laws and Doctor of Letters Hon. Causa of various North American Univs. and the Univs. of Hanoi, Hongkong and Malaya. *Publications: Down North*, 1945; *The Birds of Brewery Creek*, 1947; *Borneo People*, 1956. *Recreations:* Ornithology, collecting, ski-ing. *Club:* Brooks's Club. *Address:* 2, King George's Avenue, New Delhi.

MACHWE, Prabhakar Balwant, M.A. (Philosophy), M.A. (English literature), Hindi Poet; Asstt. Secretary, Sahitya Akademi, New Delhi. *b.* Dec. 26, 1917; *Educ.:* X'tian Coll., Indore; Agra Coll., Agra; M.A. (Philosophy), 1937 and M.A. (English Literature), 1945. Secy., Mazdur Sangh, Indore, 1937; Lecturer in Madhav Coll., Ujjain, 1938-48; worked in All-India Radio, Allahabad, Delhi and Nagpur stations till 1954. *Publications: Hindi.* One volume of poems, four short novels, five books on literary criticism and edited one dictionary, translated several books and articles from English into Hindi and Marathi. *Recreations.* Painting. *Address:* Assistant Secretary, Sahitya Akademi, 74, Theatre Communication Bldgs., Connaught Circus, New Delhi.

MACINTYRE, His Excellency Mr. S. Chelvasingam, High Commissioner for the Federation of Malaya in India, since Sept. 1957. *b.* Jan. 27, 1903; *Educ.:* The Methodist Boys' School, Kuala Lumpur, Malaya; Trinity Coll., Kandy, Ceylon; called to the Bar from Lincoln's Inn, 1927; in practice as an advocate and solicitor in the State of Johore from 1928; acted as personal legal adviser to H.H. Sultan of Johore from 1956; nominated member, Batu Pahat Town Board, 1949-53; elected member, Batu Pahat Town Council (Johore State), 1953-56; nominated member, Johore State Council, 1949-53; elected member, Alliance Party for the Batu Pahat Central Constituency, 1954-57; resigned, Sept. 1957; elected member, Alliance Party for the Batu Pahat Constituency in the Federal Legislative Council, 1955-57; until resignation, served on the Finance Ctee. of Federal Legislative Council, Sultan Ibrahim Scholarship Board and Johore State Education Board; Associate member, United Malay National Organisation (U. M. N. O.), since 1953. *Address:* 50/48, Chanakyapuri, New Delhi.

MACMAHON, Gerald John,* B.A., C.M.G. (1955), Ex-U.K. Senior Trade Commissioner in India. *b.* Sept. 26, 1909. *Educ.:* Clongowes Wood Coll. (Ireland); Emmanuel Coll., Cambridge. Board of Trade, London, 1933. *Clubs:* Delhi Gymkhana; Reform (London). *Address:* C/o U.K. High Commission, New Delhi.

MADIA, Chunilal Kalidas, B.Com. (Bom.), Gujarati Writer of short stories, One Act Plays, Novels, etc.; Language Editor, U.S. Information Service, Bombay. *b.* Aug. 12, 1922, at Dhoraji, Saurashtra; *Educ.:* Bhagvatsinhji High School, Dhoraji; H.L. Coll. of Commerce, Ahmedabad. Took to journalism and fiction writing while at college; on the editorial staff of *Prabhat* and *Navsaurashtra* (1942-44); Edited a short story monthly *Varta* (1943); on the editorial staff of *Janmabhoomi* group of newspapers, Bombay; 1945-50; joined U.S.I.S., Bombay, April 1950; edited Gujarati edition of *American Reporter* (1951-53); toured the U.S.A., Europe and studied dramatics and theatre movement, 1955; was nominated on Gujarati Advisory Board of the Sahitya Akademi (National Academy of Letters), 1956; awarded Narmad Gold Medal for best contribution to playwriting (*Rangada*) for the period 1947-51; awarded several prizes for his short stories, plays, etc.; Bombay Government's first prize of Rs. 2,000 for best collection of short stories TEJ ANE TIMIR, 1956; *Publications: Novels:* Vyajano Varas; Liludi Dharati; *Collections of Short Stories: Ghoogharatan Pur; Antarota; Plays: Rangada; Shoonyashesh; Travel: Jai Girnar; Aa Pur, Pele Paar, Criticism: Granthayarima; Essays: Chopatine Bankadethi; Compilation: Shreshtha Natikao;* recently assigned by the Sahitya Akademi to compile and edit folk literature of Gujarat. *Translation:* Shreshtha American Vartao. *Address:* 264, Walkeshwar Road, Malabar Hill, Bombay 6.

MAHADEVAN, Calamur, M.A., D.Sc (Madras), F.A.Sc. (1934), F.N.I. (1945), M.A.I.M.E. (1951), Principal, A. U. Colleges, since July 1957. *b.* May 6, 1901. *Educ.:* Muthialpet High School; Madras Christian Coll.; Presidency Coll., Madras; D.Sc., Madras Univ., Research Scholar, at I.A.C.S., Calcutta, under Prof. Sir C. V. Raman, Kt., F.R.S.N.L. Geologist, Hyderabad Geological Survey (1931-45), Pres., Geology & Geography Section, Ind. Sci. Cong., 1940 (Allahabad); awarded Hyderabad-Travancore Travelling Fellowship by Andhra Univ. and invited by the Board of National Research Councils of U.S.A. to visit American Universities, Jan.-July 1951; UNESCO Technical Expert in Geology to Brazil, June 1955-June 1956; G.O.I. Delegate-XX Int. Geol. Congress, Mexico D.F., Sept. 1956; University Professor & Head of the Geology Dept., Andhra University, Waltair, 1945-57. *Publications:* About 100 original papers in scientific journals on X-Ray studies, Radioactivity, and Geopolitics and Geology. *Address.* University Campus, Waltair (S. India).

MAHAJAN, C. V., M.A. (Bom.), B.A. (Hons.) (Oxon), M.A. (Oxon), Member, Union Public Service Commission, New Delhi, since Jan. 2, 1956. *b.* Jan. 2, 1895; *Educ.:* M.A. from St. Xavier's Coll., Bombay 1917, B.A. (Hons.) 1929 and M.A., 1933, from Keble Coll., Oxford. Master, St. Peter's European High School, Bombay, 1917-22; Lecturer, Professor, Vice-Principal and Principal, St. John's College, Agra, 1922-54; Vice-Chancellor, Agra University, 1949-55. *Address:* 8-B, Lodhi Estate, New Delhi.

MAHAJAN, Lala Dinanath, Law and Revenue Minister, Jammu and Kashmir State; Advocate, Supreme Court of India. *b.* Jan. 17, 1902; *Educ.:* Mirpur High School, Prince of Wales Coll., Jammu. Joined the bar at the age of 19; started practice as a lawyer at Rajouri; moved to Jammu, 1930; enrolled as Advocate, High Court of Jammu and Kashmir State; made a mark in legal profession; was Pres., Jammu Bar Assoc., for about 11 years; enrolled as Advocate, Supreme Court, 1955; was member, Praja Sabha (Leg. Assembly), Jammu and Kashmir under Maharaja's rule till its dissolution in 1947, elected member, Municipal Council, Jammu, 1956; was its first elected Pres.; was Pres., Arya Samaj for many years; elected by a big majority to the Leg. Council of the State from Jammu Province Local Authorities constituency. *Address:* Law and Revenue Minister, Jammu and Kashmir State, Srinagar.

MAHAJANI, Ganesh Sakharam, M.A. (Cantab.), Ph.D. (Cantab.), B.A. (Bom.), Smith's Prizeman (1926), Member, Union Public Service Commission, since July 1957; Ex-M.L.C., Bombay. *b.* Nov. 27, 1898; *Educ.:* High School, Satara, Fergusson College, Poona, St. John's College, Cambridge; First in Intermediate (Second Sanskrit Scholar) and the B.A. Examinations, Duke of Edinburgh Fellow. Went to England as Government of India scholar; returned to India in 1927; appointed Principal, Fergusson College, 1929-45; Foundation Fellow of the Indian Academy of Sciences, Bangalore, and also of the National Institute of Science, Calcutta; obtained King's Commission, U.T.C.; promoted "Major" (1947 June); Dean of the Faculty of Science, Bombay University, 1936, 1937, 1938; non-official Civilian member of No. 4 G.H.Q. Selection Board, Jabalpur (Sept. 1943-June 1944); Principal and Professor, Fergusson Coll., Poona, 1929-45; Secy., Deccan Education Society, 1945-47; Vice-Chancellor, Rajputana Univ., 1947-53; Vice-Chancellor, Delhi University, 1953-57. *Publications: Lessons in Elementary Analysis* for Honours Courses of Indian Universities, *The Application of Moving Axes Methods to the Geometry of Curves and Surfaces, An Introduction to Pure Solid Geometry,* and some mathematical publications especially *Contribution to Theory of Ferromagnetic Crystals* (published in the Transactions of the Royal Society, London); some political pamphlets, *e.g., The Liberal Outlook, Liberals and the Congress, The Problem of the Minorities and Constitutional Democracy as its Solution, Education and Democracy* and *The Defence Problem of India. Address:* 9, Teen Murti Lane, New Delhi.

MAHALANOBIS, Prof. Prasanta Chandra, M.A. (Cantab.), F.R.S., Statistical Adviser to the Cabinet, Government of India, since 1949; Secy. and Director, Indian Statistical Institute, Calcutta, since foundation, 1931. *b.* June 29, 1893, at Calcutta. *Educ.:* B.Sc. (Hons.) in Physics, Presidency Coll., Calcutta Univ., 1912; Math. Tripos, 1914; Nat. Science Tripos, Part II (Physics), 1915; Senior Research Scholar, King's Coll., Cambridge Univ.; F.R.S. 1945; Weldon Medal and Prize, Oxford Univ., 1944; Hony. Fellow, Royal Statistical Society, London, 1954; Foundation Fellow, National Institute of Sciences, India; elected member, International Statistical Institute, 1937; Hon. member, 1952; Hon. Pres., 1957; Pres., Indian Science Congress, 1950, presided over Anthropology section, 1925, Mathematics and Statistics section, 1942; Gen. Secy., 1945-48, Pres., National Institute of Sciences, India, 1957, Chairman: U.N. Statistical Commission, 1954, '57; U.N. Sub-Commission of Statistical Sampling, 1947-51, in the Indian Educational Service, 1915-48, Asst. Deptt. of Physics, Presidency Coll., Calcutta, 1922-42, Principal, 1945-48, Prof. Emeritus, since 1948; Meteorologist, Calcutta, 1922-26. Founder-Editor, "Sankhya" The Indian Journal of Statistics, since 1933, Karmasachiva (Gen. Secy.), Rabindranath Tagore's Visvabharati 1941-51, made scientific tours and gave lectures and held conferences at Univs., laboratories and other institutions in Belgium, Brazil, Burma, Canada, China, Czechoslovakia, Denmark, France, Germany, Italy, Netherlands, Norway, Poland, Spain, Sweden, Switzerland, U.K., U.S.A. and U.S.S.R.; Leader, Indian Delegation: International Statistical Institute, 1947, '49, '51, '53, '55, '57, Congress of Mathematicians, 1950; U.S.S.R. Academy of Sciences, Moscow, 1951, '52, '54, '57; Chairman, ECAFE Conference of Statisticians, Bangkok, 1952. *Address:* 204, Barrackpore Trunk Road, Calcutta 35, 8, King George Avenue, New Delhi.

MAHESHWARI, Panchanan, D.Sc. (1931), F.N.I. (1936), F.A.Sc. (1934), F.R.S. (1950), Scientist; Professor and Head of the Department of Botany, Univ. of Delhi, since 1949. *b.* Nov. 9, 1904; *Educ.:* Jaipur and Allahabad; travelled abroad to visit botanical institutions in Europe (1936, 1950, 1954, 1956); U.S.A. (1946, 1956), Indonesia (1952). Lecturer at Agra Coll. (1930-37) and Univ. of Allahabad (1937-39); Reader and Head of the Biology Deptt., Dacca Univ. (1939-47); Professor of Botany, Dacca Univ. (1947-49); Pres.: Botany Section, Indian Science Congress (1950); Indian Botanical Society (1952); Embryology Section, International Botanical Congress, Paris (1954); International Society of Plant Morphologists (1954); Corresponding Member, American Botanical Society, 1947; Honorary Foreign Fellow, American Academy of Arts and Sciences, 1947. Editor, Phytomorphology since 1951. *Publications:* Author of *Embryology of Angiosperms*; and about 200 papers on Botany particularly on plant morphology and embryology. *Recreations:* Classical music; Photography. *Address:* 29, Probyn Road, Delhi 8.

* Now out of India.

MAHINDRA, K. C., B.A. (Cantab.), Chairman, Mahindra & Mahindra Limited, Bombay, Turner, Hoare & Co., Ltd., Bombay, Indian Aluminium Company Ltd., Calcutta, Indian & Eastern Engineer Co., Ltd., Bombay, Machinery Manufacturers Corporation, Ltd., Calcutta, Otis (India) Ltd., Bombay; was Head of the India Supply Mission stationed at Washington, U.S.A., 1942-45; Chairman, Indian Coalfields Cttee. of the Govt. of India; Chairman, the Automobile and Tractor Panel and the Prime Movers Panel, 1946-47; member, Central Advisory Council of Industries; Director, Reserve Bank of India. Director: Air India International; Hindusthan Steel Ltd.; Indian National Diesel Engine Co., Calcutta; National Carbon (India) Ltd., Calcutta; Nangal Fertilizers & Chemicals Private Ltd., New Delhi; Guest, Keen, Williams Ltd., Calcutta; Metal Box Co., Ltd., Calcutta. *Address*, Gateway Building, Apollo Bunder, Bombay 1.



MAHTAB, Harekrushna, Chief Minister, Orissa, from April 6, 1957. *b.* Nov. 1899; *Educ.*, Ravenshaw College, Cuttack. Joined non-co-operation movement, 1921; since then a worker for Indian National Congress; Chairman, District Board, Balasore, 1924-28; was also elected to the Bihar & Orissa Legislative Council, 1924; was in journalism for seven years as editor *Prajatantra*, an influential Oriya daily paper and also *Rachana*; took part in Civil Disobedience Movements, 1930 and 1932; was elected President, Utkal Provincial Congress Cttee. twice, 1930 and 1937; organised the Inchudi Salt Satyagraha, was imprisoned for 1½ years (1930-31); imprisoned several times in connection with political activities, 1932, 1942, etc.; Member, Congress Working Cttee., 1938-46; Leader, Congress Assembly Party, Orissa; has been largely instrumental in merging the Orissa States with the Province of Orissa, Dec. 1947, was President, Orissa States Enquiry Cttee., donated Rs. 25,000 for the publication of the unpublished works of ancient Oriya poets, and Rs 26,000 for the propagation of Gandhi Dharma among the Adibasis of Orissa; Chief Minister, Orissa, 1946-50; was conferred Honorary Degree, Doctor of Literature by the Andhra Univ. in 1950; Minister for Commerce and Industry, Government of India, 1950-52; Secretary-General, Congress Parliamentary Party, 1952-54 Governor of Bombay, 1955-56; as Chief Minister of Orissa submitted resignation of Ministry on May 9, 1958; resignation not accepted. *Publications*, Three popular novels; a drama; *History of Orissa*, the only authentic history of the Province. *Address*: Bhubaneshwar.



MAI-SWARUP MAI-MARKAND (formerly Rao Saheb M. R. Dholakia, L.C.E.), Founder of Mai-ism and President, "Mother's Lodge". *b.* Dec. 23, 1885; *Educ.*: Poona Engineering Coll. Entered Govt. Service, 1921; retired as Dy. Asstt. Consulting Surveyor, Bombay, 1942; served as Spl. Land Acqn. Officer, Karachi, Poona, Bombay and Hubli; after retirement from world has become full-time Mother's servant, since 1945; Hindu Mother's devotee since twelve, with miraculous experiences and powers; installed Universal Mother M.S.I. (Sept. 2, 1932); convened in Poona Sisters' social in strict purdah of all creeds on Dasserah day (Oct. 9, 1932); started Mother's Lodge in Poona, on Gudi Padva Navratra day (March 27, 1933); explained "God as Mother" at All Faiths Conference, Nasik, 1933; delivered speech on "Modern World and Motherhood of God" at Indian Philosophical Congress, Poona, 1934; also convened Sisters' gathering in Madras on Dasserah day (Oct. 1, 1949); and further in Calicut, Kerala, on Dasserah day (Oct. 8, 1954); has been conducting Mother's Lodge, an institute of sisters and brothers with branches and followers in Bombay and South, for the propitiation of God as Universal Mother through universal love and service, devotion and unconditional cheerful self-surrender and invoking Mother's Blessing with prayers and worship for universal peace, welfare and relief and Mother's Mercy for individual bliss, peace and prosperity; invited to participate in the World Peace Round Table Conference by the World Religion Congress, Japan (Shimizu), May 3, 1955; jointly established the International Religious Federation, May 27, 1955; elected Sub-Councillor, in-chief of I.R.F. contacting practically the whole world (over 70 countries); started the Essence Series of Universal Religion, contributions by world religionists to the World Religions Congress, Japan, Jan. 1958 (Ananal Kyo Issue); convened Fourth Sisters' Social of over 3,000 sisters in the Town Hall on Dasserah day, Oct. 4, 1957 and started Mai Adherents Institute in the charge of Bro. Ramanakutty Nair, both in Trichur, Kerala State; released on Christmas day, 1957, "The World's Need and Mai-ism" by Rev. Bro. Ernest Kirk, Editor of *Life Important Publications: God as Mother; Mai-Poojan* (Gujarati); *Theory and Principles of Universal Mother movement; Mother and Mother's Thousand Names* (in 2 vols.), *Hindi Mai Prarthana and Mai Guru Ananya Bhakti*; *Mother's Message* (2nd Edition, English, Malayalam); *Mai Sandesh* (Gujarati); *Mai Sahasranama Pathanam* (Marathi, Malayalam); *Thai-Mayo Valli* (Tamil); *Mai-ism* (734 pages), *Mothers' Meditation, Pre-natal Narration and Preamble of I.R.F., The World's Need and Mai-ism* by Ernest Kirk, etc. *Address*: Mother's Lodge (Mai Niwas), Santa Cruz West, Bombay 23.

MAITRA, Rathin, Painter; Hon. Secretary, Academy of Fine Arts, Calcutta. *b. July* 15, 1913; *Educ.*: Matriculated from the Calcutta Univ., 1932, passed the Final Diploma Exam. from Govt. College of Art & Craft (in Fine Arts), Calcutta, 1938. Zeal for self-expression through painting drove him play a prominent part in the formation of the Calcutta Group, travelled extensively throughout India, Europe and U.S.A., is attached to Govt. College of Art and Craft, Calcutta. *Address*: No 5, S. R. Das Road, Calcutta 26.

MAJITHIA, Sardar Surjit Singh, B.A., Deputy Minister for Defence, Govt. of India, since Aug. 1952. *b.* Aug. 8, 1912, at Simla; *Educ.*, Chiefs' Coll., Lahore; Khalsa Coll., Amritsar; Law Coll. and Govt. Coll., Lahore. M.L.A. Central, 1945-47; member, Defence Consultative Cttee., 1945-47; Indian Ambassador to Nepal, 1947-49; Pres., Khalsa Coll., Amritsar; Life-Member, Sant Attar Singh Gurusagar Mastuana Trust, PEPSU; returned to the Lok Sabha from Taru Taran Constituency, Punjab, 1952, and again 1957. *Recreations*: Wireless transmission, Agriculture, Flying, Sports. *Address*: Majithia House, Amritsar; New Delhi.

MAJITHIA, Sardar Sir Surendra Singh, Kt. (1946), Landlord and Industrialist. *b.* 1895. *Educ.*: Khalsa Collegiate High School and Khalsa Coll., Amritsar. Managing Director, Saraya Sugar Factory; Senior Managing Partner, Saraya Oil Works, Saraya Distillery, Saraya Dairy Farm, Saraya Surkhi Mill, Saraya Chemical Works, Sardarnagar; Fairweather of Muzaffarpur, Bihar; Proprietor, Saraya Estate; Director, Punjab and Sindh Bank Ltd., Dehra Dun; Pres.; Maharana Pratap Coll. Working Cttee., Gorakhpur; Budha Degree Coll. for Asian Languages, Kushinagar (Deoria); U.P. Badminton Assoc.; Chairman: Co-operative Development Union Ltd., Sardarnagar and Hata; Zonal Road Development Cttee., Sardarnagar; Senior Vice-Pres., Working Cttee., Gorakhpur Univ. Foundation Society; member: Council of Khalsa Coll., Amritsar; Dist. Cttee. of Mahatma Gandhi National Memorial Fund, Gorakhpur; Advisory Cttee. constituted under U.P. Sugar and Power Alcohol Industries Labour Welfare and Development Fund Act, 1950; Sugar Technologists' Assoc. of India, Kanpur; Exec. Cttee., Northern India Mercantile Chamber of Commerce, Lucknow; N.E. Rly. Zonal Users' Consultative Cttee.; U.P. Tuberculosis Assoc., Lucknow; Advisory Board for Promotion of Organised Industries, U.P.; Managing Cttee., Gorakhpur Labour Welfare Fund; Gorakhpur Blind Relief Assoc.; Exec. Cttee. of Deoria Mahavidyalaya Degree Coll., Deoria. *Address*: Saraya Sugar Mills Private Ltd., P.O. Sardarnagar, Dist. Gorakhpur, U.P.

MALAVIYA, Pt. Keshav Deva, Minister of Mines and Oil, Govt. of India, since April 17 1957. *b.* Aug. 11, 1903, at Allahabad; *Educ.*: M.Sc. from the Allahabad Univ., Diploma in Oil Technology from the Harcourt Butler Technological Institute, Kanpur, 1929. Joined the Congress movement, 1921, courted jail several times and spent, more than 9 years in various prisons; Secy., City Congress Cttee. Allahabad, Gen. Secy., U.P.P.C.C. for many years, Organiser of the first General Elections of the Congress in 1937 as Gen. Secy., Congress Parliamentary Board; actively participated in the "Quit India" movement and successfully conducted the struggle from underground, Parliamentary Secy., U.P. Govt. 1946, Minister of Development and Industries 1947, resigned from the Ministry Aug. 1950; Parl. Secy. Govt. of India, June 3 Aug. 15 1952; Dy. Minister, Natural Resources & Scientific Research Aug. 12, 1952 to Dec. 1954; Minister of Natural Resources, Dec. 1954 April 16, 1957. *Address*, 27 Safdarjang Road, New Delhi.

MALHOTRA, Beli Ram, Rai Sahib (1937), Rai Bahadur (1945), Chief Engineer, Hindustan Steel (Private) Ltd. (Ministry of Steel Mines and Fuel, Dept. of Iron & Steel Govt. of India), Rourkela-2 (Orissa) since Sept. 1954. *b.* Aug. 1, 1903, *Educ.*: Govt. Coll. Lahore; T.C.E. Coll., Roorkee., Asstt. Engineer, P.W.D., Dec. 1927-Sept. 1935; Executive Engineer, Sept. 1935-Sept. 1945; Superintending Engineer, Sept. 1945-Sept. 1954. *Address*: Chief Engineer, Hindustan Steel (Private) Ltd., Rourkela-2 (Orissa).

MALHOTRA, Puran Chand, President, Income-tax Appellate Tribunal. *b.* Jan. 24 1902, Member of the Institute of Chartered Accountants, London and India, joined the Govt. of India as the first Accountant Member of the Income-tax Appellate Tribunal, Jan. 1941. *Address*, *Office*, Income tax Appellate Tribunal, Central Govt. Bldg. 4th floor, Queen's Road, Bombay 1; *Residence*, Carmichael House, Carmichael Road, Bombay 26.

MALIK, Bidhubhusan, M.A., LL.B., Barrister-at-Law, Commissioner for Linguistic Minorities since 1957. *b.* Jan. 11, 1895; *Educ.*: Central Hindu Coll., Benares; Ewing Christian Coll. Allahabad; Univ. School of Law, Allahabad; The Hon. Society of Lincoln's Inn, London. Vakil, Allahabad High Court, 1919; called to the Bar, 1923; enrolled as Advocate, Allahabad High Court, Jan. 1924; member, Judicial Cttee., Benaras State, 1941; Special Counsel Income Tax Depts., 1942; Judge, High Court Allahabad, March 1944; Chief Justice, 1947 Acting Governor, 1949; Indian Representative on the Federation of Malaya Constitutional Commission, 1956. *Publications*: 10th Edition of Woodroffe and Ameer Ali's Evidence Act; *The Art of a Lawyer*. *Recreations*: [illegible] *Address*: 11, Edmonstone Road, Allahabad

MALIK, Wing Commander Sardar Hardit Singh, C.I.E. (1941), O.B.E. (1938), Legion of Honour, I.C.S. (Retd.), Ex-Indian Ambassador to France. *b.* Nov. 23, 1894 at Rawalpindi (W. Punjab); *Educ.*, Eastbourne College (public school), Eastbourne, England; Balliol Coll., Oxford. Served with French Army on Western Front, 1916; entered the I.C.S. and served in the Punjab, 1922-30; Indian Trade Commissioner at Hamburg, 1933-34; Dy. Secy. and then Joint Secy., Commerce Dept., Govt. of India, 1934-37; first Indian Trade Commissioner to the U. S. A. and Canada, 1938; Prime Minister, Patiala, 1944-47; represented the Government of India at the first and second sessions of the Preparatory Cttee. of the U.N. Conference on Trade and Employment in London, Nov. 1946 and Geneva, April 1947 respectively; leader of the Indian Delegation to the U.N. Conference on Trade & Employment, Havana, Nov. 1947; Member, Indian Delegation to the U.N. General Assembly, Lake Success, April 1949; Pres., I.C.A.O. Assembly, Montreal, 1949; High Commissioner for India in Canada, Sept. 1947--Aug. 1949; Leader, Indian Delegation to the Sixth Session of the U.N. General Assembly held at Paris, 1951-52. Was Indian Ambassador to France, 1949-57, to Norway, 1950-57, retired from I.C.S., Jan. 1957, now Resident Director: Dunlop Rubber Co. (India) Ltd., Corn Products (India) Ltd., Simon-Carves Ltd., Mahindra and Mahindra, Metal Box Co. of India Ltd. *Address*: 47-B, Friends Colony, New Delhi.

MALKANI, Naraindas Rattanmal, M.A. (Cal.), M.A., LL.B. (Bombay), Member, Rajya Sabha; Hon. Worker, Constructive Work Section, A.I.C.C., New Delhi; member, A.I.C.C. *b.* Oct 1880, *Educ.*, Karachi and Bombay. Prof. of Economics, G.B.B. Coll., Muzaffarpur, 1914-20, joined Congress, 1921. M.L.A., Sind, 1945-47; Addl. Dy. High Commissioner for India in Pakistan 1948, Director of Rehabilitation, Rajasthan, 1949-52; member, A.I.C.C.; Pres.: Sind Congress Workers' Samiti; Ex Cttee., All India Harijan Sewak Sangh, Central Board, All India Bharat Sewak Samaj. Pres. Little Theatre Group, Delhi. *Publications*: About 15 books in Sindhi. *Recreations*: Writing in Sindhi and English. *Address*: 115, South Avenue, New Delhi.

MALLICK, Kumudranjan, B.A., Bengali poet. *b.* March 1, 1883 (Bengali 18th Falgoon 1289) at Kogram, Burdwan. *Educ.*: [illegible] and Calcutta; took B.A. degree in 1905 winning the Bankim Chandra Gold Medal. Began his career as a school teacher in Nabin Chandra Institution of the Maharaja of Cossimbazar, was its head master, 1906-37, began writing verses at a very early age, awarded Jagat Tarini gold medal by the Calcutta Univ. 1957. *Publications*: *Upasi*, *Ajoy*, *Banamallica*; *Bithi*; *Ektara*, etc. *Recreations*: Gardening. *Address*: Kogram, P.O. Nutanhat, Burdwan, West Bengal.

MANDLOI, Bhagwantrao Annabhau, B.A., LL.B., Revenue and Local Self Govt. Minister, Govt. of Madhya Pradesh, since Nov. 1, 1956. *b.* Dec. 15, 1892; *Educ.*: Matriculated from Govt. High School, Sagar, B.A. from Govt. Coll., Jabalpur, 1914; LL.B. from Univ. School of Law, Allahabad, 1917. Practised as a Lawyer at Khandwa; has been Pres., Municipal Cttee., Khandwa for three terms of five years each; was in charge of various Public Institutions, *viz.*, The Morris Memorial Library, Khandwa, The Orphanage, Khandwa, The Nimar Education Society, Khandwa, which conducts a Degree College and a High School; was member, Governing Body of Women's Hospital, Khandwa; has been a member, P.C.C. for the last 20 years; member, C.P. & Berar Leg. Council, 1935-37; member, M.P. Leg. Assembly, since 1937; was member, Constituent Assembly and Interim Parliament; Revenue and Education Minister, M.P. till 31st Oct. 1956; member, A.I.C.C. *Address*: Revenue Minister, Madhya Pradesh, Bhopal.

MANGALDAS, Madanmohan, B.A. (Bom.), Industrialist and business man, Ahmedabad. *b.* Oct 5, 1917; *Educ.*: St. John's Coll., Cambridge. Is a leading millowner in Ahmedabad; joined business after taking his degree, manages three cotton textile mills, two in Ahmedabad and one in Bombay; Director of various cotton textile mills and associate concerns; Director, Bank of India Ltd.; has been member, Managing Cttee., Ahmedabad Millowners' Assoc., elected its Vice-Pres., 1947 and Pres., 1955; was mainly responsible for the five years' Bonus Pact between the employers and employees of the cotton textile industry in Ahmedabad, elected M.L.A., Bombay from Ahmedabad, 1951; Representative of the Ahmedabad Millowners' Assoc. on Employees' State Insurance Corporation, its Standing Cttee. and Sub-Cttee., Cotton Textile Fund Cttee. etc.; has travelled widely throughout the Continent and other countries namely Japan, America, Ceylon, Egypt, etc.; represented India at the International Cotton Congress, Egypt, 1951; liberally donates to charities and public institutions. *Clubs*: Orient Club, Ahmedabad (Pres.); Willingdon Club, Bombay (member). *Address*: Mangal Baug, Ellis Bridge, Ahmedabad 6.

MANI, Annakavoor Doraiswamy, M.A. (Madras), Managing Editor, *The Hitavada*, Nagpur, since 1936; Ex-Pres., A.I.N.E.C. *b.* April 8, 1910, *Educ.*, Wesley Coll. and Presidency Coll., Madras. Worked as editorial apprentice on *New India* edited by Dr. Besant, 1930, joined *Hitavada*, 1933; Secy., International Section of the All-India Newspaper Editors' Conference, 1935; Provincial Branch of the Editors' Conference, 1942-48, C.P. Press Advisory Cttee., 1942-49; General Secy., A.I.N.E.C. Conference, 1949; member, its Standing Cttee. from 1940; Executive of the Indian and Eastern Newspaper Society from 1947; Pres., International service Cttee. of the Nagpur Rotary Club, 1947-49; member, M.P. & Berar Press Enquiry Cttee., 1948; visited U.S.A., 1951, as guest of U.S. Govt; Alternate Delegate of India at U.N. General Assembly Session in Paris, 1951-52; Chairman, U.N. Cttee. for Adm. Unions, 1952; Representative on the 3rd Cttee. of U.N. General Assembly, 1952; Member, Indian Press Commission, 1952-54; Re-elected President, A.I.N.E.C., 1954; Director: A.B.C. Ltd., P.T.I. Ltd.; Spokesman, Indian Press Delegation to Holland, April 1954; Indian Delegate to the Congress of World Press Entities, Rio de Janeiro, Oct. 1954; visited British Caribbean, Nov. 1954; Alternate Delegate of India at U. N. General Assembly, New York, Sept. 1955. *Publications*: *Of Yanks and Others*. *Recreations*: Travelling, Palmistry. *Club*: Rotary Club, Nagpur. *Address*: Wardha Road, Nagpur.

MANI, Rangiah Subra, B.A. (Madras), B.Sc. (Hons.) (Lond.), A.R.C.S. (Hons.) (Lond.), I.C.S., Indian Ambassador to Chile. *b.* Aug. 14, 1907; *Educ.*: Hindu Coll., Tirunelveli, Christian Coll., Madras; Royal Coll. of Science, London. Joined I.C.S., 1932, served in various posts in Bombay; Deputy High Commissioner, London; Charge d'Affaires, Rome; Joint Secy., Ministry of External Affairs, New Delhi; Ambassador to Iraq and Jordan. *Recreations*: Tennis, Swimming, Chess. *Address*: C/o Ministry of External Affairs, New Delhi.

MANJAPPA, Kadidal, B.A., LL.B., Minister for Revenue, Mysore, since May 1958. *b.* 1910; *Educ.*, Maharaja's Coll., Mysore; Law Coll., Poona. Joined the Congress, 1937; participated in all the freedom movements; Minister for Revenue, Mysore State, 1952-56; elected leader, Mysore Assembly Congress Party, Aug. 16, 1956; Chief Minister, Aug. Oct. 1956; Minister for Education till second General Elections; elected to the State Assembly, 1957. *Address*: Bangalore.

MANNADIAR, Major Sardar Chondath Iravi Ramanunni, of Chondath House, one of the oldest families of chieftains in Kerala State. A.D.C. to H.H. the Maharaja of Cochin. Was appointed Commsnr. of the Cochin Special Guards during war; first appointed A.D.C. in 1929 to Sir Sri Rama Varma, G.C.I.E., the then Maharaja of Cochin; was Pres., Taluk Recruiting Cttee. Attached to His Majesty's I.T.F. for a long time and was apptd. member of Unit Advisory Cttee. of the, 13th Malabar Battalion in 1941; during ware rendered voluntary service for a short time and served as a company Commander in the 13th Malabar Battalion and had a; attachment in the 3rd Madras Regiment; apptd. as first Vice-Patron of the Bo Scouts Assocn., Cochin State in 1944, appointed as Hon. Major in the Cochin State Forces. Awarded title of "Sardar" by H. H. the Maharaja of Cochin on 6th June 1949. *Address*: P. O. Nallepilly *via* Palghat, Kerala State.



MANSINHA, Dr. Mayadhar, M.A., Ph.D., Writer: Adult Education Officer, Orissa. *b.* Nov. 11, 1905; *Educ.*: Banapur M.E. School; High School, Khurda, Ravenshaw Coll., Cuttack; Patna Coll., Patna; B.A. (Hons.) in English 1930; M.A. in English, 1934; Univ. of Dhuram, England, awarded Doctorate on a thesis on Kalidas and Shakespeare. Was Asstt. Teacher and Headmaster in some high schools; Lecturer and later Principal of College; was Inspector of Schools. *Publications*: Poetry, *Dhupa*, *Hemapushpa*; *Premasahasa*; *Kamalayana*; *Jahanachita*, *Matibana*; *Sadhabagha*, *Jema*, *Akshyata*, *Bapa Tarpana*, *Konarka*: *Kruna* Drama: *Pujarinee*, *Budha*, *Puspita*, *Nandanda*, *Barabahu*; *Rajakabi*. Essays criticisms and travels: *Jibana patha*; *Kabi O Kabita*; *Paschima Pathika*, *Oriya Samaj O Sahitya*, *Jibana O Prabandha*, *Sahitya Prabha*; English: *Kalidas and Shakespeare*, *Citizen Education*; *Scheme for Adult Education Recreations*. Writing for periodicals and visits to country-side. *Address*: Thoria Shahi, Cuttack, Orissa.

MARIAPPA, T., B.A., LL.B., Minister for Finance, Mysore State, since May 1958. *b.* July 10, 1905, *Educ.*, Central Coll., Bangalore, Law Coll., Poona. Practised as an Advocate for 17 years, entered public life, 1930; has been member, legislature of the Mysore State since 1930; member, Dist. Board, Mysore, City Municipal Council, Mysore for several years. Home Minister, Mysore, 1947-52; Minister for Finance and Legal Affairs, Nov. 1956--May 1958. *Address*: Minister for Finance, Vidhana Soudha, Bangalore 1.

MARIYAPPA, Mali, B.A., LL.B., Minister for Co-operation, Mysore, since May 1958. *b.* Feb. 18, 1912, in Sira Town; *Educ.*: Maharaja's Coll., Mysore; Law Coll., Poona. Entered the bar, 1935, joined the Congress, 1937; member, Mysore Constituent Assembly, 1948-49, M.L.A., Mysore, 1950-52; re-elected to the Assembly, 1952 and 1957 General Elections; participated in the Freedom struggle and suffered imprisonment thrice. *Address*: Bangalore.

MARZBAN Adi, B.A., Proprietor and Editor, *Jame Jamshed*. *b.* April 19, 1914; *Educ.*: Bharda New High School; Elphinstone College. Took up production of plays for the stage, films and radio; Staff Artiste in All-India Radio. *Publications*: Plays, Sketches. Short Stories. *Recreations*: Chess, Dramatics, Painting, Conjuring. *Clubs*: Cricket Club of India; Bombay Presidency Radio Club; W.I.A.A. Club; National Sports Club of India. *Address*: Jam-e-Jamshed, Mangalore Street, Fort, Bombay.

MASANI, Minocher Rustom, M.P. (Lok Sabha), author, management consultant. *b.* Nov. 20, 1905 in Bombay; *Educ.:* B.A. (Bom.), LL.B. (Lond.); called to the Bar by Lincoln's Inn in 1928. Founder and Joint Secretary of the All-India Congress Socialist Party, 1934-39; member of the Bombay Municipal Corporation, 1935-45; Mayor of Bombay, 1943-44; member, Indian Legislative Assembly, 1945-47; member, Constituent Assembly of India, 1947-48; Ambassador of India in Brazil, 1948-49; member, Parliament of India, 1949-52 and since May 1957; Chairman, United Nations Sub-Commission on Discrimination and Minorities, 1950-52; member, All-India Council of Labour and Welfare Officers; Vice-Pres., Bombay Management Assoc.; Head of Personnel and Productivity Services, Management Consultants. *Publications: India's Constitution at Work*, 1939; *Our India*, 1940; *Socialism Reconsidered*, 1944; *Your Food*, 1944; *Picture of a Plan*, 1945; *A Plea for the Mixed Economy*, 1947; *Our Growing Human Family*, 1950; *Our India*, 1953; *The Communist Party of India—A short History*, 1954. *Address*, 7, Altamount Road, Bombay 26.

MASANI, Sir Rustom Pestonji, Kt. (1943), M.A., J.P. *b.* 23rd Sept. 1876. Chairman, Executive Cttee., Indian Institute for Educational and Cultural Co-operation; member, National Commission for Co-operation with U N E S C O; Ex-Vice-Chancellor, Bombay University; President, Anthropological Socy., Bombay; Bombay Presidency Adult Education Assoc.; K. R. Kama Oriental Institute; Vice-Pres., All-India Centre, P.E.N.; Municipal Secretary, Dy. Municipal Commissioner and Municipal Commissioner for the City of Bombay; Mgr., Central Bank of India; Sec., Indian Central Banking Enquiry Committee; Chairman, Oriental Industrial Investment Corporation; Editor, *Kaiser-i-Hind* and *Indian Spectator*. *Publications: Child Protection; Folklore of Wells; The Law and Procedure of the Municipal Corporation, Bombay; The Conference of the Birds; A Sufi Allegory; Evolution of Local Self-Govt. in Bombay; The Religion of the Good Life; Zoroastrianism, Court Poets of Iran and India; Dadabhai Naoroji, The Grand Old Man of India; Education for World Understanding; Role of Wealth in Society, The Fire Gifts; Story of Bhoodan as an Instrument of Social Change*. Also several works in Gujarati. *Address:* 49, Merewether Road, Bombay 1.

MASTER, Mansukhlal Atmaram, B.A., LL.B. *b.* Nov. 11, 1884; *Educ.:* Elphinstone Coll., Bombay. Began earning by giving tuitions; Pres., Indian Merchants' Chamber, 1945; Pres., Cttee. of the Fed. of Indian Chambers of Commerce & Industry, 1947; Vice-Pres., All-India Organisation of Industrial Employers, 1949; Trustee, Port of Bombay since 1937; member, Port Technical Cttee.; Chairman, Minor Ports Development Cttee. of the Govt. of Bombay; Shipbuilding & Marine Engineering Panel, Govt. of India, 1946; member, Shipping & Trade Integration Cttee., Maritime Training Facilities Cttee., Shipping Policy Cttee., Governing Body, Training Ship "Dufferin", Central Advisory Committee for Lighthouses, Senate, Bombay University; Vice-Pres., Sailors' Home; member, Shipping delegation to London, 1947; Director, Bombay Steam Navigation Co., Ltd.; Travancore Steam Navigation Co., Ltd.; Premier Automobiles Ltd.; Govt. of India delegate: International Conference of Safety of Life at Sea (London), 1929 & 1948; United Maritime Consultative Council, Washington, 1946, Geneva, 1948, Employers' Adviser and then as Employers' Delegate; International Maritime Conference at Geneva; Representative, Indian National Steamship Owners' Assoc. at the International Shipping Conference in London, Feb. 1947; member at the Geneva Session of Joint Maritime Commission, Dec. 1947, 1951 & 1952; Chairman: Committee on Training of Civil Air Pilots, 1952 and 1953, the Port and Shipping Statistics Committee, 1953-54; Special Sub-Cttee. on Social Security and Welfare of Seamen, 1956; was General Manager, The Scindia Steam Nav. Co., Ltd.; Pres., Commerce Graduates Assoc.; Govt. Delegate—Trade Negotiations with Czechoslovakia & Switzerland. *Publications:* Several pamphlets on shipping and other matters of importance to commerce and industry. *Recreations:* Cricket and Tennis. *Address:* "Raj Mahal", Juhu (Bombay 23).

MATHULLA, Mathew Kandathil, B.A., A.C.A., Managing Director, Hindustan Machine Tools (Private) Ltd. *b.* April 24, 1907; *Educ.:* B.A. from Madras Christian Coll., 1928; A.C.A. from Institute of Chartered Accountants in England and Wales, 1934. *Clubs:* Delhi Gymkhana; Willingdon Sports Club, Bombay. *Address:* H.M.T. House, Jalahalli P.O., Bangalore.

MATHUR, Girja Kumar, M.A. (English), LL.B. (Lucknow), Hindi Poet and Critic; Assistant Station Director, All India Radio Allahabad. *b.* Aug. 16, 1919, at Ashoknagar (M.P.); *Educ.*, Lucknow. Founder of the New School of Hindi Poetry; joined A.I.R., 1943; first Hindi writer to work with the United Nations, 1950-51; member: Poets' delegation to Nepal, 1956; A.I.R. delegatoin to Russia and Czechoslovakia, 1956; widely travelled in America, England and Europe. *Publications.* Poems are being translated abroad; has published poems, plays, criticism and personal essays: *Manjeer* (Poems), 1940; *Naah Aur Nirman* (Poems), 1954; *Dhoop Ke Dharn* (Poems), 1955. *Address:* Ashoknagar, M P, All India Radio, Allahabad.

MATHUR, Jagdish Chandra, M.A., I.C.S., Director-General, A.I.R., since June 1955. *b.* July 16, 1917; *Educ.:* Allahabad Univ.; Ewing Christian Coll.; J.A.S. High School, Khurja; had a brilliant academic career. Entered the Indian Civil Service, 1941; Served in Orissa till 1944 and in Bihar, from 1944-55; was Education Secy. to Bihar Govt. for six years; founded Vaisali Sangh and Festival, 1945; served as member, Higher Rural Education Enquiry Cttee. set up by Govt of India, 1954; connected with Bihar Academy of Music, Dance, Drama; Editor, *Bihar Theatre. Publications:* Plays: *Bhor-ka-Tara, Komark, Omere Sapne, Runwar Singh-ki-tek, Sharadiya*; Miscellaneous: *Homage to Vaisali Recreations:* Play-Writing; Theatre. *Clubs:* Delhi Gymkhana Club; Bankipore Club, Patna. *Address:* Director-General, All-India Radio, New Delhi.

MATHUR, Kailash Behari, M.Sc. (Allahabad), Member, Transportation, Railway Board, since Oct. 1, 1954. *b* April 4, 1904; *Educ:* Cawnpore and Allahabad; M Sc. (Allahabad), 1926. Asstt. Transportation Supdt., East Indian Rly., 1928-36; Supdt. (Research Officer), 1936-38; Supdt., Transportation, 1938-39; Supdt., Transportation & Commercial, 1939-42; services placed at the disposal of the War Dept, 1942; granted Emergency Commission in the E.I. Rly, Defence of India Corps (Railways), June 1944; Supdt., Transportation, E.I. Rly., 1944-46; Deputy Divisional Supdt., 1946-47; Dy. Chief Commercial Manager (Rates), 1947; Divisional Supdt., 1947-48; attended the International Railway Congress at Lucerne, June 1947; Chief Operating Supdt., 1948-51; General Manager, 1951-54. *Publications:* Technical contributions to newspapers and magazines. *Clubs:* Delhi Gymkhana Club. *Address:* 23, Tughlak Road, New Delhi.

MATHURADAS, Pratapshah, J.P. and Hon. Magistrate, Business man. *b.* March 19, 1916; *Educ.:* New High School, Bombay. Has been in business. Partner, Vissanji Sons & Co.; Director: Alsaico Ltd.; Ahmedabad Advance Mills Ltd.; Assam Match Co. Ltd.; A.C.C. Ltd.; Bombay Cycle and Motor Ag. Ltd.; Bombay Burmah Trading Corp. Ltd.; East India Rubber Corp. Ltd.; Great Eastern Shipping Co. Ltd.; Khatau Makanji Spg. & Wvg. Mills Ltd.; Lakshmi Cotton Mfg. Co. Ltd.; Laxmi Estates Ltd.; Vissanji Sons & Co. Ltd.; Wallace Flour Mills Co. Ltd.; Premier Automobiles Ltd.; Minerva Mills Ltd., Bombay Dyeing & Mfg. Co., Ltd.; Mysore Spg. & Mfg. Co., Ltd.; Tata Chemicals Ltd. Tata Hydro-Electric & Power Supply Co. Ltd., W. H. Brady & Co. Ltd.; State Bank of India (Central Board and Local Board Bombay). *Recreations:* Games. *Clubs:* Rotary Club of Bombay; W.I.A.A.; C.C.I.; National Sports Club of India; Lodge Justice and Peace; Willingdon Sports Club; Bombay Flying Club; India Assoc. Institute (London) Radio Club; W I.A.A. Club; India-American Society. *Address: Residence:* Sir Mathurada Vissanji Road, Andheri; *Office:* 9, Wallace Street, Fort, Bombay.

MATTHAI, Dr. John, B.A., B L. (Madras) B. Litt. (Oxon), D Sc. (Lond.), C I E., Vice Chancellor, Kerala Univ., since Jan. 1, 1958. Ex-Chairman, Board of Directors, State Bank of India; Ex-Vice-Chancellor, Bombay Univ. *b.* Jan. 10, 1886; *Educ.:* Madras Christian Coll.; London School of Economics, Balliol Coll., Oxford. High Court Vakil, Madras 1910-14; Officer on Special Duty, Co-operative Dept., Madras, 1918-20; Professor of Economics, Presidency Coll., Madras, 1920-21; Professor of Indian Economics, University of Madras, 1922-25; member, Madras Legislative Council, 1922-25; member, Indian Tariff Board, 1925-31; President, Tariff Board, 1931-34; Director-General of Commercial Intelligence and Statistics, 1935-40, resigned and joined Tata Sons Ltd., 1940, appointed Director, 1944; Minister of Railways & Transport, Govt. of India, Jan. 1947-Sept. 1948; Minister of Finance, Govt of India, Sept. 1948-May 1950; resigned from Govt and was Director, Tata Sons Ltd., 1950-51; Chairman, Taxation Enquiry Commission, April 1953-Nov. 1954; Chairman, Board of Directors, State Bank of India, July 1, 1955-Sept. 30, 1956; Vice-Chancellor, Bombay Univ., March 1955-Feb. 1957. *Publications: Village Govt. in British India; Agricultural Co-operation in India; Excise and Liquor Control. Address:* Aramatukara, Trichur, Kerala State, Trivandrum.

MAZUMDAR, Dwijendra Lal, B A (Hons.) (Econ.) (Calcutta), B.A. (Hons. in Econ.) (Cantab.), M.A. (Econ.) (Calcutta), I C S., Secretary, Ministry of Commerce & Industry (Deptt. of Company Law Administration), since 1955. *b* Jan. 26, 1905. *Educ:* Hindu School, Calcutta; Presidency Coll., Calcutta; Jesus Coll., Cambridge. Entered Indian Civil Service, Dec 1929. *Publications:* Author and co-author of several economic & financial reports; A report on the inter-relation between Provincial and local finance in Bengal (1940); Report on some aspects of the finance of the Calcutta Improvement Trust (1940); Reports of: the Bengal Jute Enquiry Cttee (1940); the Bengal Paddy and Rice Enquiry Cttee (1940); the Bengal War Risk Insurance Cttee. (1942); Reports on: the Marketing of Transport of Jute (1941-42); the Problems of Dock Labour in Calcutta (1942); Report of the Fiscal Commission, 1949-50; the Import Control Enquiry Committee (1950); the Company Law Committee (1952), etc. *Recreations:* Tennis, gardening, writing. *Clubs:* Calcutta Club, Calcutta; Delhi Gymkhana Club, New Delhi. *Address:* 1, Sonehri Bagh Road, New Delhi 2.

MEADOWS, Stanley Fincham, General Manager, William Jacks & Co. Ltd., Bombay. *b.* Feb. 5, 1916; *Educ.:* St. Wilfred's School, Seaford, Sussex and Cranleigh School, Surrey. Wm. Jacks & Co. Ltd., Madras, Calcutta, Karachi; Indian Army 1940-46; Major, Indian Cavalry; mentioned in Dispatches (Burma). *Recreations:* Golf, Sailing, Swimming. *Clubs:* East India & Sports Club, Ltd. London; Sind Club, Karachi; Karachi Gymkhana Club; Royal Bombay Yacht Club, Presidency Club; Royal Bombay Yacht Club, Presidency Golf Club. *Address:* Royal Bombay Yacht Club, Bombay 1.

MEDHI, Bisnu Ram, B.Sc. (Hons.), M.Sc., B.L., Governor of Madras, since Jan. 24, 1958; Advocate. *b.* April 1890 in the village of Hajo (Kamrup—Assam); *Educ.:* Presidency College, Calcutta. Enrolled as Pleader, Gauhati Bar, 1914 and Advocate, Calcutta High Court, 1931; joined the Non-Co-operation Movement and was imprisoned for more than a year after Lahore Congress; elected President of Assam after Lahore Congress, P. C. C. unanimously and since then continuously elected President till 1939; member, A.-I.C.C.; imprisoned in 1930 and 1940 in connection with C. D. and Satyagraha Movements for about two years and again detained in jail for over 2 years in connection with 1942 movement; popularly known as the 'Iron Man' of Assam; Minister of Finance, Revenue and Legislation, Assam, Feb. 1946-Aug. 1950; Chief Minister, Assam, Aug. 1950-Jan. 1958. *Address:* Raj Bhavan, Madras; Uzan Bazar, Gauhati, Assam.



MEHRA, Bal Krishan, M.Sc (Lahore), Technical Representative of Chas. Pfizer & Co., in India, since 1951 and Managing Director, Ravison Pharmaceuticals Private Ltd. *Educ.:* M.Sc. with 1st Class in Chemical Technology from the Govt. Coll., Lahore and recipient of "Roll of Honour"; M.S. (Pharm.) from Philadelphia Coll. of Pharmacy & Science. Worked as Chemist-in-charge, Lesco Chemical & Pharmaceutical Works Ltd., and Lecturer in Pharmaceutics, K. E. Medical Coll., Lahore and Medical Coll., Amritsar; worked under Dr Arthur Osol and awarded Fellowship by the American Foundation for Pharmaceutical Education, New York; with Chas. Pfizer & Co. Inc. New York, working on the standardization and the manufacture in dosage forms of all antibiotics; member, P.S.C. and I P A. *Address:* Alpana, 60, Peddar Road, Bombay 26



MEHROTRA, Lalji, B.A., LL.B., Indian Ambassador to Burma. *b.* Nov 16, 1[illegible] *Educ.:* Universities of Allahabad and Bombay. Secy., Civil Disobedience Enquiry Ctte. of the Congress, 1922; Acting Gen. Secy., Congress, 1932-33; Mayor of Karachi, 1940-41; Pres., Indian Merchants' Assoc., Karachi, 1939-42; Federation of Indian Chambers of Commerce and Industries, 1948-49; Indian Chambers of Commerce in Great Britain, London, 1951-54; Director; Bachhraj Factories Ltd.; Bachhraj T. Corpn. Ltd.; Mukand Iron and Steel Works Ltd., etc. *Address:* 22A, World Seaface, Bombay 18; Embassy of India, Rangoon.

MEHTA, Asoka, B.A., M.P., Social worker; ex-General Secy., Praja Socialist Party. *b.* 24th October 1911; *Educ.:* Wilson College, Bombay; School of Economics, Bombay University. In political life from 1930; imprisoned five times; founder-member of former Socialist Party; edited its official organ, 1935-39; member of its National Executive for 20 years; elected to Lok Sabha in by-election from Muzaffarpur Constituency, Bihar, Dec. 12, 1957. *Publications: The Communist Triangle in India, Who owns India, Political Mind of India, Democratic Socialism, Politics and planned Economy, Socialism and Peasantry, Indian Shipping. Address:* 5, Dadysett Road, Bombay; Lok Sabha, New Delhi.

MEHTA, Balwantray Gopalji, B.A. (Bombay), M.P., Chairman, Estimates Ctte., Lok Sabha; ex-General Secy., Indian National Congress; Vice-Pres., Servants of People Society; Ex-Deputy Chief Minister, Govt. of United State of Saurashtra, Rajkot. *b.* Feb. 19, 1899. Entered public life, Oct. 1920; took active part in States People's Movement for civil liberties and responsible Govt., women's education, Harijan uplift work; Pres., Bhavnagar Prajamandal; Gohilwad Harijan Samiti; Vice-Pres., All-India States People's Conference; Sevasamiti; member, Working Ctte., A.-I.C.C.; participated in Salt Satyagraha (1930), Movement of 1932-33-34, Rajkot Satyagraha (1938), Individual Satyagraha (1940-41) and Quit India Movement (1942-45); spent about 7 years in jail; started Harijan Schools in Bhavnagar State and handed them over to the State after some years; started Thakkar Bapa Harijan Ashram, 1927; participated in establishing the All-India States People's Conference, 1927. *Address:* 18, Jana Path, New Delhi.

MEHTA, Chandravadan Chimanlal, Gujarati Poet and Play-Wright; Hon. Professor and Head of Dramatics, M.S. Univ., Baroda. *b.* April 6, 1901 in Surat; *Educ.:* Early education in Surat; Elphinstone Coll., Bombay; graduated in Arts, 1924; learned sociology under Thoothi, Bombay Univ. Joined Bardoli Satyagrah movement as volunteer, 1928; worked under Mahatma Gandhi; translated his articles with his Secretary Mahadev Desai and edited his paper *Navjivan*; worked as Secretary to Vithalbhai Patel, an active political worker; courted jail during freedom movement; Delegate to All-India Drama Seminar and Literary Samaroh, Delhi, organised by Sangeet Natak Akadami and A.I.R., 1956; travelled extensively in India, Europe and the U.K.; has also visited Burma; has appeared before T.V and featured in B.B.C. programmes, London; joined A.I.R., Bombay, 1938; retired as Asstt. Station Director, 1954; has broadcast in Gujarati, Hindi, Marathi and English; after 1955 has worked as a visiting professor in the Baroda Univ.; one of the organisers of the Saurashtra Akadami of Dance and Drama. *Publications:* More than fifty plays including an autobiography in 4 volumes; a collection of poems and a novel. Plays: *Aagagadi, Kanya Vidai; Sati; Santa Kukadi; Aradhana*, etc; Poems: *Illa Karya; Ratan; Chandarana;* Novel: *Khama Bapu. Address:* C/o Music College, Sursagar, Baroda.

MEHTA, Sir Chunilal Vijbhucandas, Kt., K.C.S.I. (1928), M.A., LL.B *b.* Jan. 12, 1881; *Educ.:* St Xavier's Coll., Bombay. Captain Hindu XI. Elected to the Bombay Municipal Corporation in 1907; Chairman, Standing Ctte., 1912; President of the Corporation, 1916; elected to the Bombay Legislative Council by the Corporation in 1916; elected to the City Improvement Trust, 1918; Chairman, Indian Merchants' Chamber, 1918 and 1931; elected to the Bombay Port Trust, 1920; ex-Chancellor, Indian Women's Univ.; ex-Provincial Scout Commsnr.; Minister, Bombay Govt., 1921-23; member, Executive Council of Govt. of Bombay, 1923-28; Chairman, Western India Match Co., Ltd.; Director, Tata Power Co. Ltd., The Tata Iron & Steel Co., Ltd., The Associated Cement Companies, Ltd., etc.; President, Indian Territorial Force, 1946. *Address:* 42, Ridge Road, Malabar Hill, Bombay.

MEHTA, Gaganvihari L., M.A. (Bom.), Ex-Indian Ambassador to the U.S.A. and Mexico and Ex-Indian Minister to Cuba. *b.* April 15, 1900; *Educ.:* Univ. of Bombay; London School of Economics. Honorary Degree, LL.D. Rollins Coll. (1953). Asstt. Editor, *Bombay Chronicle*, 1923-25; Manager, Scindia Steam Navigation Co., Ltd., Calcutta, 1928-47; visited U.S.A. as Deputy Leader of the Indian Delegation to the International Business Conference at Rye, New York, 1944; held various advisory or administrative positions such as Pres., Indian Chamber of Commerce and Federation of Indian Chambers of Commerce and Industry, Member: Indian Delegation to the International Conference on Trade and Employment, Geneva, member, Governing Body of the Council of Scientific and Industrial Research, 1947-52; Pres., Indian Tariff Board, Bombay, Dec. 1947-April 1950; member, Planning Commission, New Delhi, May 1950-52; Chairman Nuffield Foundation Indian Advisory Committee, 1950-52; Chairman, Tariff Commission, Jan. 1952-Sept. 1952; Indian Ambassador to the U.S.A. and Mexico, Sept 1952 May, 1958, Indian Minister to Cuba, 1956-58. *Publications:* Frequently contributes to daily and weekly journals in India; *Conscience of a Nation* (1932); *From Wrong Angles* (1935); *Perversities* (1942). *Address:* C/o External Affairs Ministry, New Delhi

MEHTA, Gaman Manilal, Proprietor, Sun Process Works, Bombay. *b.* May 22, 1906, at Surat; *Educ.:* Sarvajanik High School, Surat. Joined the Sun Process Works, Ltd., 1930; became its Managing Director, 1941; and Proprietor in 1956; Rotarian since 1949; Freemason since 1940; Past Master and Trustee, Lodge Reginald Spence No. 5514 E.C., D.M., Lodge Islam No. 587 S.C., P.Z. Chapter Crescent No. 346 S.C., P.S.R. Conclave Darius No. 58; Member, Indian Merchants' Chamber; travelled extensively; toured round the world by air, 1955. *Clubs:* Bombay Presidency Radio Club; Royal Western India Turf Club; Maharashtra Club, Poona. *Hobbies:* Swimming, Photography and Contract Bridge. *Address: Office:* No. 8, Swadeshi Mills Compound, Tata Road, Off New Queen's Road, Bombay 4; *Residence:* G. Bansilal Building, Opera House Tram Terminus, Bombay 4.



MEHTA, Mrs. Hansa Manubhai, B.A. (Philosophy, Hons.), Ex-Vice-Chancellor, Baroda University (April 30, 1949-April 29, 1958). *b.* July 3, 1897; *Educ.:* Baroda. Pres., B.P.C.C., 1930; Provincial Hindustan Scouts Assen., South Bombay; Fellow of the Senate of Univ. of Bombay, 1931-46; Pres., Senate and Syndicate of the Indian Women's Univ; Leg. Council, 1937 and again in 1940; Parliamentary Secy., Education and Health, 1937-39; Vice-Pres., A.I.W.C., 1930 and off and on and in 1945; President of and Govt. of India representative on the nuclear Sub-Commission, on the status of Women, 1946 of the U.N.O.; Government of India representative on the Human Rights Commission of the U.N.O., 1947-52; member of the Constituent Assembly; member of the delegation of the Commonwealth Parliamentary Conference, 1948; member, Central Advisory Board of Education, Govt. of India, 1951; Pres., Inter-Univ. Board of India, 1956; Member, Secondary Education Commission, Govt. of India 1952-53; member, All India Council of Secondary Education, since 1955; President, Indian Conference of Social Work, 1955; represented the Indian Conference of Social Work as leader of its Indian Delegation at the 8th International Conference of Social Work at Munich, 1956. *Publications:* In Gujarati. *Balvaratvali, Kishorvartavali, Rukmini, Bavalana Parakramo, Golibarni Musafri, Arun nu adbhut swapnu, Tran natako, Himalaya snarup ne bijan natako, Hamlet* (translated from Shakespeare), *Venice no vepari* (*Merchant of Venice*). *Bal Kand, Ayodhya Kand* and *Aranya Kand, Kiskindhakand*, 1956, *Sunder Kand*, 1957; Sanskhlok translation from Valmiki Ramayana. In English, *Adventures of King Vikram, Women under the Hindu Law of Marriage and Succession. Tract on Post-War Educational Reconstruction and Civil Liberties. Address:* C/o The Bank of Baroda Ltd., Fort, Bombay.

MEHTA, Dr. Jivraj Narayan, L.M. & S. (Bom.), M.D. (Lond.), (University Medal), M.R.C.P. (Lond.), F.C.P.S. (Bom.), Minister for Finance, Govt. of Bombay, since Nov. 1, 1956. *b.* August 29, 1887; *Educ.:*

Amreli, Bombay State, Grant Medical Coll., Bombay and London Hospital. Formerly, Ag. Asst. Director, Hale Clinical Laboratory, London Hospital, London and Chief Medical Officer, Baroda State; Pres, Indian Medical Association, 1930-43, and 1945; member; Medical Council of India, 1938-43, and since, 1947; Board of Scientific and Industrial Research, India, since 1942; ex-Secy., Health Ministry, Govt. of India; Chief Adviser to Govt of India and Govt. of Bombay on Baroda Affairs, June-August 1949 and Adviser, Ministry of Health, India, 1949. Arrested and imprisoned in 1932-33 and detained in 1942-44 under the Defence of India Act. Dir.-Gen. of Health Services, Govt. of India, 1947-48. Prime Minister, Baroda State, June 1948-49, member, Syndicate, Univ. of Baroda since 1949; P.W.D. Minister, Bombay, 1949-52; Minister for Finance, Prohibition and Industries, Bombay, May 1952-Oct. 1956. *Publications*: "Studies regarding presence of glycogen in Suprarenal Bodies"; "The Height, Weight & Chest Measurements enquiry relating to some School Children (Males) in Bombay." *Address*: C/o Bank of Baroda Ltd., Bombay.

MEHTA, Dr. Jyotindra Markand, M.A. (Oxon.) Ph.D. (Lond.), Bar-at-Law, Vice-Chancellor, Maharaja Sayajirao Univ. of Baroda, since May 1, 1958. *b.* Sept 13, 1894. *Educ.*: Elphinstone Coll., Bombay; Jesus Coll., Oxford, London School of Economics. Fellow of the Elphinstone Coll., 1914-15, Professor of History, Elphinstone Coll., 1920-22; Senior Professor of History and Economics, Baroda Coll., 1922; Principal, Baroda Coll., 1931, 1934 and 1938; Commissioner of Education, Baroda State, 1939-49, Joint Director of Public Instruction, Bombay, 1949-50; Chairman, Public Service Commission, Saurashtra, 1950-54. *Publications*: *Rural Economy of Gujarat*; *Socio-Economic Survey of Baroda Villages*. *Address*: Vice-Chancellor, Baroda University, Baroda 2.

MEHTA, Kanhaiya Lal, B.A. (Agra), **Barrister-at-Law, I.C.S., Adviser to the Governor of Assam (North-East Frontier Agency), since** Jan. 1954. *b.* March 15, 1913; *Educ.*: Govt. Coll., Ajmer, London School of Economics, Univ. of London; Lincoln's Inn. Captained the London Univ. Tennis and Badminton teams; awarded full Univ. colours. Joined I.C.S., 1937; Deputy Commr., Kumaon Division, U.P., 1947-48; Chief Commr., Ajmer, 1950-51; Chief Secy., Himachal Pradesh, March 1952-Jan. 1954. *Publications*: a few travel articles, which have appeared in the *Statesman* and the *Times of India Recreations*: Tennis, Badminton and Golf. *Clubs*: Delhi Gymkhana Club and Nainital Boathouse Club. *Address*: Shillong, Assam.

MEHTA, Mohanlal Tulsidas Sopan, Editor, *Janmabhoomi* and *Pravasi*, since Jan. 1, 1949 and *Jeevanmadhuri*, since its inception, Jan. 1957. *b.* Jan. 14, 1910; *Educ.*: Karachi. Took active part in National Struggle from 1930-47; joined as Editor, Weekly *Pravasi*, Dec. 1940; also became Editor, *Nootan Gujarat*, daily and *Akhand Anand*, monthly; Pres., Gujarati Patrakar Sangh. *Publications*: 40 publications in Gujarati: Short Story, Novel, Biography, Sociology and Politics; some of his books have been translated into English, Hindi, Sindhi, Tamil and Malayalam; conducts a publishing house and a printing press. *Recreation*: Photography. *Address*: Gulbahar, Barrack Road, Dhobi Talao, Bombay 1.

MEHTA, Vallabhbhai Lalbhai, B.A. Padma Bhushan (1954), Chairman, Khadi and Village Industries Commission. *b.* Oct. 23, 1891; *Educ.*: New High School, and Elphinstone College, Bombay. Winner of Ellis Scholarship, B.A. Examination. Manager, Bombay Central (Provincial) Co-operative Bank Ltd., 1912-15 and Managing Director, 1922-46; Vice-Pres., Social Service League, Bombay; Chairman, Bombay State Co-operative Union, 1943-46; member, Bombay Provincial Banking Inquiry Committee, 1929; member, Textile Labour Inquiry Committee, Bombay, 1937-40; member, Bombay Provincial Board, Harijan Sevak Sangh; Minister, Finance, Co-operation and Village Industries, Govt. of Bombay, 1946-52; Member, Finance Comm., 1952; Member, Taxation Enquiry Commission, Govt. of India, 1953-54. *Publications*: *The Co-operative Movement*, 1915; *The Co-operative Movement in India*, 1918; *Studies in Co-operative Finance*, 1927; *Planning for Co-operative Movement*, 1941. *Address*: Lallubhai Park Road, Andheri, Bombay 41.

MEIYAPPAN, A. V., Business man, Studio Owner and Film Producer; Sole Proprietor, A.V.M. Studios, Madras. *b.* July 28, 1907. *Educ.*: Karaikudi, Madras State. Built up a firm for making gramophone records under the name and style of Saraswathi Stores at Madras, 1932; soon after took to film production; subsequently built up his own Studio; travelled widely in India including Kashmir, and abroad in Japan, Malaya, Singapore and Ceylon for business and study; active Exec. Cttee member in allied films and studio associations. *Recreations*: Study of film industry—Indian and foreign; Travel. *Club*: Cosmopolitan Club, Madras. *Address*: *Office*: A. V. M. Studios, Madras 26; *Residence*: No. 27, Balajinagar, Royapettah, Madras.



MELCHERS, His Excellency Dr. Wilhelm, Doctor of Law (1924), Ambassador Extraordinary and Plenipotentiary of the Federal Republic of Germany in India. *b.* Jan 20, 1900, at Bremen (Germany). Secretary, German Legation, Addis Ababa, 1927-31; Secy., German Embassy, Tokyo, 1934-35; Secy., German Legation, Teheran, 1935-37; Consul at Haifa, 1938-39; Minister in Baghdad, 1953; Ambassador in Baghdad, 1956. *Address*: 1, Tees January Marg, New Delhi.

MENON, C. Achutha, B.A., B.L., Minister for Finance, Kerala State, since April 1957. *b.* 1913. *Educ.*: C.M.S. High School and St. Thomas' Coll., Trichur; Law Coll., Trivandrum. Practised at the Trichur bar for about 3 years, took to political activities subsequently and was Pres., Dist. Congress Cttee; convicted for one year for anti-war speech 1940, joined Communist Party, 1941, detained for one year, 1942; Secy., Kerala Cttee. of C.P.I. & member, Central Committee. *Publications*: *Soviet Nadu*, *Lokacharitra-samgraham* (translation of Wells '*Short History of the World*'). *Address*: Trivandrum.

MENON, Chathanath Raman Bhaskara, B.A., Director General of Commercial Intelligence and Statistics, Calcutta, since 1952. *b.* July 10, 1904; *Educ.*: Maharaja's Coll. of Science, Trivandrum. Asstt., Govt. of India, Industries and Labour and afterwards Commerce Deptt., 1927-40; Asstt. Shipping Master, Calcutta, 1940-42; Secy., Rubber Production Board, Kottayam, 1942-45; Asstt. Secy., Commerce Deptt., 1945-49; Deputy Director General of Shipping, Bombay, 1949-50; Under Deputy Secy., Ministry of Commerce, 1950-52; *Address*: 87-B, Park Street, Calcutta.

MENON, K. A. Damodara, B.A., B.L., D.T., President, Kerala Provincial Congress Cttee. *b.* June 10, 1906. *Educ.*: Govt. High School, Parur; Maharajah's Coll., Trivandrum; Law Coll., Trivandrum; Training Coll., Rangoon. Gave up job in Burma to join the Salt Satyagraha, 1930; was arrested and convicted several times between 1930 and 1942; was detained at Amravati (Bombay State), 1942-45; was Secy. and Treasurer, Kerala Prov. Congress Cttee.; Editor, "Mathrubhoomi", Calicut, 1937-48; member: A.I.C.C.; Kerala Congress Executive; Secy., Aikya Kerala Cttee.; elected to Provisional Parliament, 1949; resigned from the Congress to join the opposition formed by Acharya Kripalani; elected to the Lok Sabha, Jan. 1952, now in the Congress Party; elected Pres., K.P.C.C., 1957. *Publications*: *Rastravignanam* (politics); *Narmakathakal* (short stories); *Bhavanaanoonam* (poems); *Thoppile Nuthi* (novel). *Address*: Kannampuram, Ottapalam.

MENON, Dr. K. B., M.A., Ph.D. (U.S.A.), Member, Lok Sabha, Praja Socialist Leader. *b.* June 18, 1897; *Educ.*: Christian Coll., Madras; Sydenham Coll., Bombay; The Universities of Colorado and California. After graduating from the Madras Univ. joined the Nizam's Educational Service, was sent for higher studies in the U.S.A., took the Master of Arts and Economics and the Doctorate of Philosophy in Sociology, 1936; took charge of the Indian Civil Liberties Union as General Secy., 1937; appointed one of the Secretaries of the Indian States Peoples Conference, 1940; took active part in the 1942 struggle and was sentenced to 10 years R.I., joined the Praja Socialist Party when it was organised as an Independent Political Party; elected M.L.A., Madras from Trithala Constituency in the 1st General Election, elected member, Lok Sabha from Ponnani Parliamentary Constituency in the 1957 General Elections. *Address*: President, The Trithala High School, Trithala P.O. Palghat Dt., Kerala State.

MENON, K. P. Kesava, B.A., Bar-at-Law, Editor, MATHRUBHUMI, Kozhikode, since Oct. 1952. *b.* Sept 1, 1886, in Kerala. *Educ.*: Madras, called to the Bar 1915. Set up practice in Calicut; joined the Indian National Congress; Secy., Malabar Dist. Congress; Home Rule League started by Mrs. Annie Beasant; went to Madras for practice, 1919; started the Neo-Fabian Society to study political problems; gave up practice to join the 1921 Non-Co-operation Movement; Secy., Kerala Prov. Congress Cttee; founded the MATHRUBHUMI, Malayalam Daily, 1923; led the famous Vaikam Satyagraha movement in Travancore to establish the right of the untouchables to walk along public roads, 1924, arrested and imprisoned; released 1924; set up practice in Singapore, 1927; took active part in the Indian associations and labour organisations; imprisoned by the Japanese, 1944, released after the liberation; took up the editorship of MATHRUBHUMI, 1948. Chairman, Local Library Authority, Malabar, 1949; Pres., Aikya Kerala Cttee., 1949, was member, Standing Cttee. of the All India Newspaper Editors' Conference, High Comm. for India in Ceylon, 1951-52; presided over the silver Jubilee of the Kerala Sahitya Parishad, Sept 1956; Working Pres., Kerala Sahitya Akademi, 1956. *Publications*: Various books in Malayalam. *Address*: Kozhikode, Kerala.

MENON, H.E. K. P. S., M.A. (Oxon.), C.I.E., I.C.S., Indian Ambassador to Russia, since October 1952; Concurrently Ambassador to Poland; Minister in Hungary. *b.* Oct. 18, 1898; *Educ.*: Christian College, Madras, Christ Church, Oxford, I.C.S., 1921; Addl. Deputy Secretary to the Government of India, Foreign and Political Dept.; Under-Secretary to the Hon. the Resident at Hyderabad; also on the Frontier for 3 years; Agent to the Government of India in Ceylon, 1929-33; deputed by Government of India on Special Mission to Zanzibar, Kenya & Uganda, to enquire into the position of Indians there, 1934; Dewan of Bharatpur State for about 3 years; attended the San Francisco Conference in 1945; attended the General Assembly of the United Nations in New York in 1946; Agent-General of the Govt. of India in China from 1943 to Jan. 1947; Ambassador for India in China, March 1947; Chairman, United Nations Commission on Korea, 1948. Forgn. Secy., Govt. of India, 1948 May—1952 Sept. *Publications*: *Dai Chungking*. *Address*: C/o External Affairs Ministry, New Delhi.

MENON, Kesmanath Rama Krishna, M.A., B.L., C.I.E. (1946), M.B.E. (1938), Chairman, Industrial Financial Corporation of India, since Aug. 1955. *b.* June 21, 19

Educ.: St. Joseph's College, Tiruchirapalli and Law College, Madras; Competitive Exam., Indian Audit and Accounts Service, Dec. 1923. Appointed in the Mily. Accts. Dept., May 1924; Dy. Mily. Acctt.-Genl., 1936; selected to the Finance & Commerce Pool, 1939; Commissioner of Income Tax, Bombay, 1939-41; Madras, 1941-42; Director of Statistics, Supply Deptt., 1942; Director of Inspection, Income Tax, 1943-47; Member, Central Board of Revenue, 1947-48; Secy., Finance Ministry, Govt. of India, Sept. 1948—Nov. 1954; Member, Indian Taxation Enquiry Commission, 1952-54; Chairman, Ceylon Taxation Commission, 1954-55. *Address:* Pampady P.O., Tiruvilwama'a, *via* Wadakkanchery, Kera'a State.

MENON, M. Gopala, B.A. (Madras), Consul-General for India in New York *b.* 1902; *Educ.:* Madras Univ. and Jamia Milia (Aligarh). Under-Secy. i/c, U.N. Branch, Ministry of External Affairs and Commonwealth Relations, 1946; Alternate Indian Representative to the Special Session of the General Assembly on Palestine, 1948; Alternate Representative to the Security Council on the Indonesian Dispute, 1949, Adviser Secy., Indian Delegation to the Economic and Social Council, 1949; Ag Head, Permanent Indian Delegation, Sept. 1948-June 1949; Adviser Secy., 4th Session of the U.N. General Assembly, 1949; Alternate Indian Representative to the Security Council, 1949-50; Alternate Representative on the Atomic Energy Comm and the Comm. on Conventional Armaments, 1949-50, Secy General, Indian Delegation to the 5th Session of the General Assembly; Indian Representative in Malaya, 1951-54; Indian Commissioner in British East Africa, 1954-56, Chairman, International Commission on Commodity Trade Chairman *Ad Hoc* Committee on SUNFED. *Address:* C/o External Affairs Ministry, New Delhi.

MENON, K.E. Parakat Achutha, B.A. (Hons.) (Madras), I.C.S. Indian High Commissioner in Australia since October 1956 b. Jan. 1903. *Educ.* Presidency Coll. Madras, New Coll., Oxford. Joined I.C.S., 1929; Under-Secy. to Govt. of Madras, P.W.D. (1934-37); Under-Secy to Govt. of India, Home Dept. (1938-41) Collector of Guntur (1941-43); Deputy Secy and Secy., India Supply Mission, Washington, U.S.A. (1943-47); Joint Secy to the Govt of India, External Affairs, 1947-49; was nominated member of Indian Legislative Assembly (1938-39); attached to several International Conferences (United Nations 1944, 1946, U.N.R.R.A., 1946); Envoy Extraordinary and Minister Plenipotentiary of India in Portugal 1949-51. Ambassador of India to Belgium and Minister of India to Luxembourg, 1951-54; Ambassador to Thailand, Oct. 1954-Aug. 1956. *Recreations:* Swimming, Tennis *Clubs:* Several. *Address:* Canberra.

MENON, P. Govinda, M.A., B.L., was Chief Minister, former Travancore-Cochin State *b.* Sept. 1906; *Educ.* Ernakulam, Trichur and Madras. Advocate, High Court of Travancore-Cochin and Supreme Court of India; was Prime Minister, former Cochin State, was elected to the Travancore-Cochin Leg. Assembly in the general elections; was again elected to the State Assembly from Chalakkudy Constituency, 1954. *Address:* Ernakulam.

MENON, V. K. Krishna, B.A. (Madras), B.Sc (Econ.), London, M.A., London, M.Sc. (Econ.) London, Bar-at-Law, Middle Temple, King's Inns, Dublin (Honoris Causa), LL.D., Glasgow, (Honoris Causa), Padma Vibhushan (1954), Minister for Defence, government of India, since Apr. 1957. *b.* 3rd May 1897. *Educ.:* Tellicherry and Kozhikode (Kerala), Madras and London, National Univ., Adyar. Lecturer, 1919-22; Boy Scout Commissioner, Madras and Cochin, 1918-24; Secretary, India League, 1929-47; Councillor St. Pancras, London 1934-47; Chairman, Arts Council, St. Pancras; Labour Parliamentary Candidate, Dundee, Scotland, 1939-42; Special Representative of the Government of India, 1946-47; Alternate delegate at the U.N.O. General Assembly meeting at Lake Success, 1946-47; represented India at various International Congresses on behalf of Indian National Congress for Jawaharlal Nehru from 1936; visited various European capitals as Pandit Nehru's Personal Representative and made preliminary arrangements for establishing diplomatic relations; High Commissioner for India in London, 1947-52. India's Ambassador to Ireland, 1949-52; Delegate to the U.N., 1952 53, '54, '55 '56 and '57; Minister without Portfolio, Government of India, 1956-57 *Publications:* First Editor, Pelican Books, Editor, 20th Century Library (Bodley Head). Pamphlets and Articles such as *India, Britain and Freedom; Why must India Fight, Britain's Prisoner, Nehru, Unity with India against Fascism; Independence*, in collaboration with late Ellen Wilkinson, *The Condition of India. Address.* New Delhi; Eranampalam, Kallai, Kerala.



MENON, V. K. N., B.A. (Hons.) (Madras), M.A. (Oxon.), Director, Indian Institute of Public Administration, New Delhi *b.* March 1, 1897. *Educ.:* Maharaja's Coll Ernakulam Presidency Coll., Madras; St. John's Coll Oxford; The London School of Economics; The Univ of Paris Reader (earlier Lecturer) in Political Science Lucknow Univ till 1948; Director of the Bureau of Research in Public Administration, Public Service Commission U.P. 1948; Professor of Politics, Patna Univ., 1948-49, 1951-52 and 1954-56; Vice-Chancellor, Travancore Univ., 1950; Vice-Chancellor, Patna Univ., 1953. *Publications:* Articles in learned periodicals. *Recreations:* Walking, Reading. *Address:* 6, Bhagwandas Road, New Delhi.

MENON, V. K. R., I.C.S. (Retd.), Representative of the I.L.O. in India, since Oct. 1953. *b.* Aug. 29 1901. *Educ.*, Madras; Christ's Coll., Cambridge. Joined the Indian Civil Service 1926 Joint Secy., Central Ministry of Labour, 1945, acted as Secy., Secy., Ministry of Communications, 1948-50 Permanent Secy., Ministry of Labour, 1950-53; Govt Representative to I.L.O. Governing Body, 1950-53; member, Indian Delegation to International Labour Conference, 1950, 1951 and 1952; was Chairman, I.L.O.'s Ctte. on Plantations (Bandung, 1950); Coal Mines Ctte. (Geneva 1951) and of the Iron and Steel Ctte. (Geneva 1952); appointed Director of the I.L.O.'s India Office and I.L.O.'s Representative in India, Oct. 1953; Vice-Chairman, Training and Employment Services Organisation Ctte.: 1953; member, Labour Panel of Planning Commission, 1955; Chairman, Study Group on Educated Unemployed, Planning Commission 1955, Chairman, Study Group on Social Security of the Govt. of India 1956; Automobile Engineering *Publications:* Numerous articles on labour and social problems in various journals and periodicals. *Address.* 3, Mandi House, New Delhi.

MENON, Vapal Pangunni, ex-Adviser, Ministry of States, Govt of India; *Educ.:* Ottapalam High School. Joined service, 1914; Asstt. Secy., Govt. of India, Reforms Office, 1933; Under Secy., 1934; Dy. Secy., 1936-40, Joint Secy., June-Oct. 1937 and June-Oct. 1938; Deputy Secretary to Governor-General (Reforms), 1940-42; Joint Secy. to Governor-General (Reforms), Feb.-June, 1941; Reforms Commissioner, Sept. 1942 to Aug. 1947; Secy. to Governor-General (Public) and Secy. to the Cabinet, 1945-46; Secy., Ministry of States, July 1947-Oct. 1948 and Dec. 1949-May 1951; Adviser, Ministry of States, Oct. 1948-Nov. 1949; Offg. Governor of Orissa, May-July 1951; member, Finance Commission, 1951. *Publications: The Story of the Integration of the Indian States*, 1956; *the Integration of the Indian States*, 1956. *Address: The Transfer of Power in India*, 1957. *Address:* "Shelter," Cooke Town, Bangalore 5.

MHATRE, R. J., A.M.I. Mech. E. (Lond.), A.M.I.A.E. (Lond.) M.I.M.I. (Lond.), Diploma A.E.T.C. (Lond.), Partner, M/s. Mhatre & Mendes Automobile Engineers *b.* Oct. 8, 1907 *Educ.*, Tata Technical Institute Automobile Engineering Training Coll London Works Manager Lakshman Prasad & Sons Malta and Calcutta, Works Manager, Dalgety Darlington & Co. Private Ltd Bombay. *Publications:* Articles on Automobile Manufacture in this country and on Devaluation of Rupee and After etc in newspapers and periodicals. *Address:* Kamala Sadan Ranade Road, 99, Shivaji Park, Bombay 28.



MIABHOY, Mr. Justice Nomanbhai Mahmedbhai, B.A., LL.B., Judge, High Court, Bombay, since March 22, 1957 *b.* Sept 16, 1905, *Educ.*: Gujarat Coll., Ahmedabad. B.A. from Elphinstone Coll., Bombay, 1927, LL.B. from Sir Lallubhai Shah Law Coll., Ahmedabad, 1929. Practising Advocate at Ahmedabad, 1929-41; joined Judicial Service as an Assistant Judge, Dec. 15, 1941; Permanent District Judge, Dec. 27, 1942—March 1957. *Address:* 9, Rocky Hill Flats, Narayan Dabholkar Road, Malabar Hill, Bombay 6.

MICHELMORE, Sir Walter Harold Strachan, M.B.E. (Jan. 1945), Managing Director, Bird & Co. (Private) Ltd. A.J.W. Heilger & Co. (Private) Ltd *b.* April 4, 1908; *Educ.*: Sherborne and at Balliol Coll., Oxford, where he read Economics. Joined Bird & Co. (Private) Ltd. and F.W. Heilgers & Co. (Private) Ltd., 1929, during World War II, served in the Indian Army, 1940-1946, became Major; appointed in the Coal Commissioner's Office, Calcutta, 1944, helped to regulate the flow of coal to consumers, rejoined Bird & Co., 1946; became Managing Dir., 1st Jan 1949 and Deputy Chairman, March 1955; Chairman, Indian Mining Assoc. from March 1955-March 1953, Vice-Pres., Bengal Chamber of Commerce and Industry, Feb. 1956; Pres., Bengal Chamber and Associated Chambers of Commerce, Feb 1957; Founder Dir., India Reinsurance Corporation; created Knight Bachelor, June 1958 *Recreation:* Tennis *Clubs:* Cal South Club (Pres.); Bengal Club; Calcutta Club Ltd., Cal Cricket Club; Cal. Racket Club (Pres.), Saturday Club Ltd; Royal Cal Turf Club. *Address:* C/o Bird & Co. (Private) Ltd., Chartered Bank Buildings, Calcutta 1.

MILNE, Kenneth George, Managing Director and Vice-Chairman, Killick Industries Ltd. *b.* March 12, 1912; *Educ.:* Ashdown House, Sussex and Trinity Coll., Glenalmond, Perthshire. Pres., Federation of Electricity Undertakings of India, since 1951; Pres., Bombay Chamber of Commerce and Industry, 1955-56; Chairman of the Ahmedabad, Surat and Bombay Suburban Electric Supply Companies; Director, The Associated Cement Cos. Ltd., Bombay Burmah Trading Corpn. Ltd.; The Central Provinces Railways Co. Ltd.; The Hingir Rampur Coal Co. Ltd.; Killick, Nixon & Co. Private Ltd.; The Kohinoor Mills Co. Ltd.; The Shivrajpur Syndicate Ltd.; Stanco Industries Private Ltd.; The Tata Hydro-Electric Power Supply Co. Ltd., Vickers India Private Ltd.; Director of Power Supply, Govt. of India, 1943-45. *Recreations:* Photography, Games. *Clubs:* Royal Bombay Yacht Club, Bombay Club, Willingdon Sports Club and Bombay Gymkhana. *Address:* Bates Hill, 37, Pali Hill, Bandra, Bombay 20.



MIRA Behn (Miss Madeleine Slade), *b.* Nov. 22, 1892. Renouncing a life of luxury, took a vow of poverty and joined Mahatma Gandhi's Ashram; a staunch follower of Mahatma Gandhi; thrice convicted in connection with Civil Disobedience Movement; accompanied Mahatma Gandhi to England, 1931; went on tour to Britain and America, lecturing on the Indian situation, 1934-35; arrested 9th August 1942 along with Mahatma Gandhi and confined in Aga Khan's Palace for 21 months; in Nov. 1944 started small Ashram of her own on Gandhian lines; in April 1946 appointed Special Adviser to Govt. of U. P. for "Grow More Food Campaign"; from 1947 to 1950 Adviser for Development; now engaged in cattle and village development work in the Himalayas. *Publications: Bapu's Letters to Mira; Gleanings. Address:* Gaobal, P. O. Chamma, Tehri-Garhwal, U.P.

MIRAJ JUNIOR STATE: Raja of.—Shrimant Chintamanrao Balasaheb Patwardhan, Raja of former Miraj Junior State. *b.* Oct. 3, 1909; *Educ.:* Sangli High School; Willingdon Coll., Sangli, upto Intermediate Arts. Declared as the heir to the *Gadi* of Miraj Junior, in 1950 after the death of his late father the late Sir Madhavrao Balasaheb Patwardhan, K.C.I.E.; has special aptitude for antique Sanskrit Literature and cultural studies; a keen sportsman; was one of the top ranking tennis players of Bombay. *Recreations:* Billiards; Tennis; fond of classical music, which he studies and practises. *Address:* Budhgaon (Dist South Satara).



MIRAJ JUNIOR STATE: Rani of.—Shrimant Saubhagyawati Saraswatibai Alias Lilaraje Patwardhan, Rani of former Miraj Junior State. *b.* April 1916; *Educ.:* Jamkhandi High School. Takes interest in Marathi literature and has special aptitude for writing short stories and lyric poems in Marathi language. *Recreations:* Tennis; Badminton. *Address:* Budhgaon (Dist. South Satara).



MIRAJ (Senior), Rajasaheb of—Raja Shrimant Narayanrao Gangadharrao alias Tatyasaheb Patwardhan, Rajasaheb of Miraj (Senior) State. *b.* Sept. 6, 1898; *Educ.:* State High School, Miraj; Heir-apparent: Shrimant Yuvaraj Madhavrao Baosaheb, *b.* 1922. Succeeded to the *Gadi*, Dec. 11, 1939, on the demise of his father; was invested with full powers by H.E. the Viceroy, Jan. 12, 1940; introduced many democratic reforms in his State; merged the State with Bombay State, 1948; takes keen interest in Marathi literature, particularly in historical, religious and philosophical books; has travelled extensively throughout India including Kashmir; was in Africa in 1950 on Safari and travelled through Kenya, Uganda and Tanganyika territory for about three months; travelled widely in Europe for about three months, 1952 and visited the United Kingdom, France, Switzerland, Italy, Norway, Sweden etc.; did padayatra of the four dhamas (holy places) in the Himalayas walking about 500 miles in one and a half months, 1953; accomplished the most difficult Padayatra to Kailas and Manas-Sarovar in the Himalayas walking about 200 miles in the course of one month, 1954. *Publications: The Rise and Fall of Ottoman Empire and Mandukyopanishad*, in Marathi; contributes to periodicals on historical subjects and Natural History, particularly Bird Life. *Recreations:* Shikar, riding and outdoor games. *Address:* Devi Bhavan Palace, Miraj, S. Rly.



MIRAJ (Senior), Rani Saheb of—Shrimant Sou. Laxmibai-Saheb Narayanrao Tatya-Saheb Patwardhan, Ranisaheb of Miraj Senior State. *b.* Jan. 31, 1905, at Ahmedabad; *Educ.:* Primary education at Sangli; secondary education at Poona; was invested with some powers of administration in the State by the Rajasaheb some years ago; was Pres., Women's Club at Miraj for a number of years; takes active interest in women's problems and tries her best for their uplift; keenly interested in children's education and liberally helps such institutions; is very much fond of wool-knitting; has won a prize for silk-knitting (the photo of Napolean Bonaparte) and also prizes for paintings. *Publications:* Has written pamphlets in Marathi on wool-knitting; has composed a pamphlet containing poems on religious subjects; some of her poetical compositions were released on Poona Radio Station. *Recreations:* Badminton, Bridge, Landscape painting etc.; has painted some sceneries (in water colour). *Address:* Devi Bhavan Palace, Miraj (S. Rly.).



MIRAJKAR, Shantaram Saviaram, Trade Unionist; President, All-India Trade Union Congress; Mayor, Greater Bombay, 1958-59. *b.* Feb. 8, 1902; *Educ.:* Maratha High School, Girgaum, Bombay. Trade Unionist since 1920; Secy.: Workers' and Peasants' Party (1927); Girni Kamgar Union (Red Flag) (1928); Founder Member, Communist Party of India (1929); Vice-Pres., All-India Trade Union Congress (1948-57); Member, Bombay Municipal Corporation (1939-48; 1957); Chairman, Standing Cttee., Bombay Municipal Corporation (1957-58). *Publications:* Various Tracts and Marathi Publications. *Address:* 12, Abdulkader Chamber, St. Xavier Street, Parel, Bombay 12.

MIRASHI, Vasudev Vishnu, M.A., Mahamahopadhyaya (conferred by the Viceroy on 12th June 1941), Dean, Faculty of Arts, Nagpur Univ., since 1956. *b.* March 13, 1893; *Educ.:* Rajaram College, Kolhapur and Deccan College, Poona; Bombay University Sanskrit Scholar, Prizeman and Gold Medallist; Dakshina Fellow, Deccan College, Poona. Professor of Sanskrit, Morris College, Nagpur, 1919-42; Principal, Morris College, 1942-46 and Vidarbha Mahavidyalaya, Amravati, 1947-50; Head of the Department of Sanskrit, Nagpur Univ., 1930-51 and since 1956; President, History, Archæology and Numismatics Section, All-India Oriental Conference, 1941; President, Ancient Indian History Section, Indian History Congress, 1944; President, Numismatic Society of India, 1944 and 1951; Principal, Vidarbha Mahavidyalaya, Amravati, Berar, 1947-50; honoured by Dr. Rajendra Prasad, President of India, with a copper-plate charter, Sept. 16, 1956. *Publications: Kalidasa* (in Marathi); *Vakataka Inscription in Cave XVI at Ajanta; Inscription in Cave XVII at Ajanta; Ghatotkacha Cave Inscription; Samshodhanvahitevali, Vols. I* and *II* (Marathi), *Inscriptions of the Kalachuri-Chedi Era* Corpus Inscriptionum Indicarum, Vol. IV); numerous articles in various research journals on ancient history of India. *Address:* Nagpur University, Nagpur.

MIRCHANDANI, Bhagwandas Devaram, B.A. (Bombay), I.C.S., Secretary to Govt., Local Self Govt. & Public Health Department, Bombay. *b.* Feb. 25, 1906; *Educ.:* National Coll., Hyderabad (Sind); B.A. from Elphinstone Coll., Bombay, 1926; London School of Economics. Passed I.C.S., from London, 1928; Asstt. Collector at Dharwar, Bijapur and Ratnagiri, 1929-34; Asstt. Judge & Addl. Sessions Judge, Ahmedabad and Satara, 1934-36; Dist. Judge, Ahmednagar, Bijapur, Nadiad, Ahmedabad and Surat, 1937-43; Dist. Judge, Hyderabad (Sind), Larkana (Sind), 1943-45; Senior Judge, Special Tribunal for Hur Detenus' cases, Karachi, 1946; Dist. Judge, Nadiad, 1947; Chief Administrator, Sangli and other Deccan States and Special Officer, Merged States, 1948; Commissioner, Southern Division, 1948-50; in the Secretariat since Oct., 1950 in the following capacities: Secy., L.S.G. & P.H.D.; Charity Commissioner & Additional Remembrancer of Legal Affairs; Secy., Rehabilitation Dept.; Secy., Home Dept.; Addl. Secy., Political & Services Dept.; Secy., P.W.D. *Publications:* Contributed several papers on Sind History in the Sind Historical Journal. *Address:* Sachivalaya, Bombay.

MIRZA, Jafar Ali Khan, B.A., Asar, Urdu Poet; Ex-Minister, Jammu and Kashmir State. *b.* July 12, 1885; *Educ.:* Graduate; from Canning Coll., Lucknow, 1906. Deputy Collector, 1909; Deputy Commissioner [illegible] retired, 1940; appointed Minister, Jammu and Kashmir State, 1941; resigned [illegible]. *Publications:* Urdu poems: *Zangar Bajna*; translation from a French drama, *Anarkali Jawad*, translation of the Bhagwat Gita, *Ranghaal*, translation of many masterpieces in foreign and Indian Languages, *Hosn-e-Farеb*, translation of a Polish drama into [illegible] or verse according to the original. *Mir Ghalib*, a critical study of the poet Ghalib; *Maza Mir*, a study of the poet Mir in [illegible] volumes; *Tanqidi Mazamin*, collection of essays in criticism; and several others. *Recreations:* Literary pursuits. *Address:* 24 Kaisar Mohalla, Lucknow.

MISHRA, Pt. Dwarka Prasad, B.A. [illegible], D.Litt. (Honoris Causa), Vice-Chancellor, University of Sagar, since 1956. *b.* [illegible] 1901; *Educ.:* St. Paul's High School [illegible] M.P. (Matriculation); Christ Church, Kanpur (Intermediate); Robertson, Jabalpur (B.A.); Law Coll., Allahabad [illegible]. Elected to the Indian Leg. Assembly [illegible] elected Pres., Municipal Cttee., Jubbulpore, 1932; appointed Minister, C.P. & B., 1937; appointed Home Minister, M.P. [illegible] 1946. *Publications: Krishnayan* (Life of Lord Krishna in Hindi Verse). *Address:* [illegible] Bhawan, Civil Lines, Sagar, M.P.

MISHRA, Shyam Nandan, M.A., B.L., Deputy Minister for Planning, Govt. of India, since Sept. 10, 1954. *b.* Oct. 20, 1920; *Educ.:* [illegible] R. H. E. School, Sursand; G. B. B. College, Muzaffarpore; Patna Coll. and Patna Law Coll., Patna. Lecturer, T.N.J. Coll., Bhagalpore. Gen. Secy., 'Culture and Research' Section, Bihar P.C.C.; suffered Imprisonment in connection with 'Quit India Movement', 1942-43; member, Exec. Cttee., Indian Parliamentary Group, 1951-54; Secy., Foreign Affairs Study Group of the Indian Council of World Affairs, 1951; member, Provisional Parliament, 1950-52; Parliamentary Secy. to the Prime Minister, 1951-52; was Secy., Election Sub-Cttee. of the A.I.C.C.; member, Lok Sabha, since 1952; represented India at the 10th Session of the ECAFE, 1954, and the 17th Session of the Economic and Social Council of the U.N., New York, 1954; In Charge of the Five-Year Plan Section of the A.I.C.C.; member, A.I.C.C., 1955; edited a Youth Magazine "The Liberator", and "The Bihar Vaibhav." *Recreations:* Poetry, Music and Chess. *Address:* [illegible] Ashok Road, New Delhi.

MISRA, Sir Lalchandpati, Kt. (1944), B.[illegible] General Manager, Hindustan Motors [illegible], Calcutta, since 1946; Commandant, Special Constabulary, Calcutta since 1950. *b.* [illegible] July, 1899; *Educ.:* Agra Coll. & Thomason College of Engineering, Roorkee. Joined the State Rly. service, October 1911; Executive Engineer, 1918; services lent to Baroda [illegible]

as Engineer-in-Chief, Baroda State Rlys., 1924-27; after a study tour of Europe joined East Indian Rly., 1928; Spl. duty, Rly. Board, 1929; Controller of Stores, N. W. Rly., 1930; Dy. General Manager, E.I. Rly., 1932-35; Divl. Supdt., Howrah Div., 1935-38; member, Federal Public Services Commission, 1938-39; Gen. Manager, Eastern Bengal & Bengal and Assam Rly., Sept. 1939-43; retired, 1945; Commissioner for the Port of Calcutta, 1939-43; Pres., Institution of Engineers (India), 1942-43; Chairman: Machine Tool Panel, Govt of India, 1948-49; Road Transport Development Committee, U.P., 1948-49; Workshops Co-ordination & Development Committee, U.P., 1950-51; Advisory Cttee. of the Calcutta Branch of the Indian Standards Institution, since Oct. 1956; member, Automobile Expert Committee, India, 1950-51; National Rly. Users' Consultative Council, 1953; Development Council for Internal Combustion Engines & Power Driven Pumps, Ministry of Commerce & Industry, since Sept. 1953; Advisory Panel at Calcutta, Central Board of Film Censors, 1951-56; Fact Finding Cttee. to make recommendations for development of new industries in U.P., 1956; Rly. Equipment Cttee., Ministry of Rlys., 1955-56; Reviewing Cttee. on Rly. Accidents Enquiry Cttee.'s Report, 1954. *Clubs:* Imperial Gymkhana Club, Delhi; Calcutta Club, Calcutta; South Club, Calcutta; Chelmsford Club, New Delhi *Address:* C/o Birla Brothers Ltd., 8, Royal Exchange Place, Calcutta 1.

MISRA, Ram Anugrah Prasad, Managing Director, Indian Wild-Barfield Co. Pvt. Ltd., Bombay. *b.* Jan 19, 1914 at Dehra Dun, U.P.; *Educ.:* The Theosophical National School at Benares, 1925-29; Ewing Christian Coll., Allahabad, 1930-32; had great keenness and enthusiasm for Science and Engineering and learnt flying at the Delhi Flying Club at the age of 17; after passing his inter-science examination, proceeded to England to study Aeronautical Engineering, 1933. Served as an engineering apprentice with the De Havilland Aircraft Co. Ltd., 1933-36; afterwards joined the company's laboratories as an Assistant; rose to the position of Production Metallurgist and was placed in technical control of all works processes including heat-treatment; left the De Havilland Aircraft Co. to join Wild-Barfield Electric Furnaces Ltd., of Watford, England, one of the leading manufacturers of industrial and other electric furnaces, 1946; was selected by the Directors of Wild-Barfield to take charge of their Indian Co., *i.e.* Indian Wild-Barfield Co. Pvt. Ltd. at Bombay, which was formed in Sept. 1947; has designed the layouts of the heat-treatment shops of Hindustan Motors Ltd., Calcutta, and the Tata Locomotive Engineering Co. Ltd., Jamshedpur, his company having also supplied heat-treatment furnaces to the Premier Automobiles Ltd., Kurla, Indian Telephone Industries Ltd., Bangalore, Chittaranjan Locomotive Works, Texmaco (Gwalior) Ltd. and many other factories in India; is an Associate Fellow of the Royal Aeronautical Society of England; member, Institution of Production Engineers, London, being a Lord Austin Prize winner 1936 which was awarded to him for obtaining first place in the Graduateship examination of the Institution of Production Engineers; is also an Associate of the Institute of Metallurgists in England; Ex-Pres., Bombay Metallurgical Society and the Bombay section of the Institute of Production Engineers; is a staunch believer in international co-operation and in the need for spiritual guidance in all problems. *Hobbies:* Photography both still and cine; Cricket; Tennis; Flying. *Clubs:* United Services Club; Bombay Flying Club. *Address:* Indian Wild-Barfield Co. Pvt. Ltd., Lotus Trust Bldg., Hornby Vellard, Bombay 18.

MISRA, Shambhu Maharaj, Dancer; Rashtrapati Golden Award through Sangeet Natak Akadami, March 27, 1955. Senior Professor of Dancing; Teacher of Dancing to Govt. scholarship holders in Bhartiya Kala Kendra, Delhi. *b.* Nov. 15, 1907. *Educ.:* Learned music under Ustad Rahim Udin Khan in Faizabad 1920-21; had training in dancing under his brother and guru Jagannath Parsad *alias* Achan Maharaj, Rampur State, 1921-25. Started dancing career in 1925; spread the Kathak Natvari Nirtya from Lucknow; danced at Lucknow Music Conference, 1925; danced in the following cities where music conferences were held: Ajmer, Jaipur, Calcutta, Bombay, Baroda and Allahabad; was honoured as 'Nirta Samrat' in Dehra Dun, 1956. *Recreations:* Dancing and teaching dancing. *Address:* 6A 6, W.E.A., Karol Bagh, New Delhi 5.

MISTRY, Rahim Karim, Consul-General for the Republic of Turkey at Bombay; J.P., Landlord, Builder and Contractor. *b.* Aug. 2, 1907; *Educ.:* St. Mary's High School, Bombay. Is a business magnate; is associated with various banking, industrial and commercial undertakings as well as charitable institutions; has recently built quite a few imposing and gigantic buildings in Bombay; is a prominent figure in Bombay's social educational, industrial and business circles; Vice-Chairman, New Citizen Bank of India Ltd., Bombay; Pres., The Ismailia Co-operative Bank Ltd; Director: Platinum Jubilee Investments Ltd.; Chairman: National Land and Building Co. Ltd.; Mistry Estates (Private) Ltd.; Neptune Assurance Co. Ltd: Hon Treasurer, Ismaili Khoja Bros. Charities; Director, Indian Overseas Shipping Co., Ltd; Member: Platinum Jubilee Cttee. General Cttee., Anjuman-I-Islam; Managing Cttee., Khoja Peermahomed Dewji Mundra Musafarkhana; is a member of all the leading clubs of Bombay and takes active interest in their deliberations; has been appointed as an Agent and Constituted Attorney to His Highness Prince Aly S. Khan; is a keen Mason and is a member of Lodge Islam, Lodge Justice and Peace and various other lodges in Scottish and English Constitution; has travelled extensively in Europe, Scandinavian and Middle Eastern countries. *Clubs:* Cricket Club of India Ltd.; Royal Western India Turf Club Ltd; Bombay Presidency Radio Club Ltd; W.I.A.A. Club Ltd.; National Sports Club of India; Willingdon Sports Club. *Address:* Mistry Court, 208, Dinshaw Wacha Road, Backbay Reclamation, Bombay 1.



MITRA, Prof. Sisir Kumar, D.Sc., F.N.I. Emeritus Professor, Univ. of Calcutta; Administrator, Secondary Board of Education, West Bengal. *b.* Oct. 1901. Pioneer of radio research in India; King George V Silver Jubilee Medal, 1935; member, Bengal Industrial Survey Cttee., 1938; member, Industrial Research Planning Cttee., Govt. of India, 1944-45; Chairman, Radio Research Cttee., Board of Scientific and Industrial Research, 1942-48; member, Indian Scientific Mission to U.K. and U.S.A., 1944-45; Pres., Rotary Club of Calcutta, 1942; Chairman, Calcutta Section, British Institution of Radio Engineers; President, Asiatic Society, 1951-53; General Pres., Indian Science Congress, 1954-55; Director, Calcutta Chemical Co. Ltd. *Publications:* *Active Nitrogen* (1945); *The Upper Atmosphere* (2nd edition, 1955, translated into Russian) and numerous scientific papers. *Address:* 9, Hindustan Road, Ballygunge, Calcutta.



MITTER, Mr. Justice Gopendra Krishna, B.Sc. (Hons.) (Patna), Bar-at-Law, Lincoln's Inn, Judge, Calcutta High Court, since 1952. *b.* Oct. 7, 1906., *Educ.* Zilla School, Muzaffarpore; Patna Coll., Patna; The Univ. Coll., London. Started practising in the courts at Muzaffarpore, 1931; practised at the Bar of the Calcutta High Court, 1934-52. *Recreations:* Walking and Gardening. *Address:* 36/4, South End Park, Calcutta 29.

MODAK, Narayan Vinayak, C.I.E. (Jan. 1945), B.E. (Civil) (1911), member of the Institution of Civil Engineers (London) (1936), Fellow of the Royal Society of Health Member Institute of Municipal Engineers, Member, Municipal Public Health Engineers (U.S.A.), M.I.E. (India), F.N.I. &c., Special Engineer to the Bombay Municipal Corporation in charge of Vaitarna - cum - Tansa Scheme and Post-war Reconstruction Schemes and general development of Bombay City. Acting as Adviser to the Ministry of Health, Govt. of India, for Drainage and Water Supply problems of Delhi. *b.* December 1890. Worked with the Corporation of Hastings (England) for three years with State Technical Scholarship; worked with two Railways (Central & Western) in the capacity of Sanitary Engineer and Consulting Engineer; worked as Hydraulic Engineer, City Engineer and Ag. Municipal Commissioner in the service of Bombay Municipal Corporation; Pres., Institution of Engineers (India); Vice-Pres., Indian Roads Congress; connected with Engineering colleges and institutions, Univ. of Bombay and Board of Technical Education (Bombay State); nominated by the Central & State Govts. on various technical bodies and Cttees.; designed and executed large municipal engineering schemes for the past 25 years. *Address:* "Udyam," Shivaji Park, Bombay 28



MODI, Govindlal Dhirajlal, M.A., LL.B. Proprietor, Gujarat Trading Syndicate, India House, opp. G.P.O., Fort Street, Bombay 1. Importers and Suppliers of Materials, Handling Equipment Litho and Offset Press Materials and Textile Mill Furnishers *b* Aso Sud 12, Samvat 1973 (Oct. 27, 1917), *Educ.:* Bharda New High School, Bombay; Andheri High School, Andheri; St. Xavier's Coll., Bombay; Govt Law Coll. and Univ School of Economics and Sociology, Bombay. Was with Lala Shri Ram's Delhi Cloth Mills, Delhi; then entered business and started the firm Gujarat Trading Syndicate, Bombay; member: The National Railway Users' Consultative Council, New Delhi The Indian Merchants' Chamber, Bombay, Ex-Pres., The Passengers' and Traffic Relief Assoc., Bombay. *Recreations:* Reading; Tennis, Driving, etc *Address:* Modi Nivas, No. 2, Dadabhai Cross Lane, Off Versova Road, Andheri, Bombay 41.



MODI, Rai Bahadur Seth Gujarmal, Chairman, Modi Industries, Modinagar (Meerut), U.P. *b* August 1902, in the Modi family of Patiala State; *Educ.:* Privately. Took to business at a very early age; first apprenticed as cashier and accountant in various concerns of his own; was later trained as Engineer and Miller in the Flour Mills of his father, which gave him an insight into the principles of business and finance and mechanical working of factories; founder 'Modinagar', an industrial town in Dt.



Meerut, U.P.; has to his credit many inventions in the field of Engineering and Chemical control; established various industries, viz. Modi Sugar Mills Ltd., Modi Vanaspati Mfg. Co., Modi Soap Works, Modi Glycerine Factory, Modi Biscuit Co., Modi Confectionery Works, Modi Tin Factory, Modi Oil Mills, Modi Paints & Varnish Factory, Modi Hurricane Lantern Factory, and other Modi Group of Factories at Modinagar and other places in the East Punjab and U.P.; has founded the Modi Tent Mfg. Co., Modi Hosiery Works, Modi Rayon & Silk Mills, Modi Spinning and Weaving Mills Co. Ltd., Modinagar with latest American textile machinery and Associated Tubewells (India) Private Ltd.; Chairman: Sugar Mills Association, Western U.P.; Modi Charitable Fund Society and R. B. Multanimal Charitable Trust; Founder and Chairman, Western U.P. Chamber of Commerce; A. I. Manufacturers' Organisation, Delhi; member, All India Polytechnic, Industrial Planning Committee, from Punjab; Central Advisory Council (Labour), U.P.; Economic Advisory Cttee., U.P.; Housing & Town Planning Board (Rehabilitation); Life Member, Mechanical Engineers' Assoc. of India; member, Northern Rly. Advisory Cttee.; philanthropist, his donations run into several lakhs; has established various public welfare institutions; has generously contributed to various charitable and public institutions; contributed Rs. 1 lakh to the Benaras Hindu University for construction of a Technical Research Laboratory; has built an Industrial Colony known as 'Govindpuri,' with the help of the U.P. Govt., to rehabilitate the displaced persons near Modinagar. *Hobbies:* Gardening and buildings. *Address:* P.O. Modinagar (Meerut), U.P.

MODI, Mr. Justice Inder Nath, B.A., LL.B., Judge, Rajasthan High Court, since Jan. 29, 1953. *b.* March 1, 1905; *Educ.:* Had a brilliant educational career; graduated in Arts and Law, Allahabad Univ.; was placed on the roll of merit in the final LL.B. exam., 1935. General Secy., Jodhpur State, 1930-33; joined the Bar, 1935; enrolled as Senior Advocate, Supreme Court of India, 1951; elected Pres., Jodhpur Bar Assoc., 1938, '39, '42, '43, '48, '49 and '51; elected member, Jodhpur Municipality, 1937, '39 and '44; first elected Pres., Jodhpur Municipality, 1940-41, member: Marwar Representative Advisory Assembly, 1942-44; Director, Local Self-Govt., Jodhpur State, 1945-46; elected member, Marwar Legislative Assembly, 1947-48; served on numerous Cttees. and institutions connected with education, public health, Harijans, labour, municipalities, panchayats and legal and political subjects, 1937-52; Hony. Supdt., Sardar High School, Jodhpur, 1946-50; Pres., Red Cross and other allied Societies, 1950-52; member, Rajasthan Leg. Assembly, 1952; had a lucrative practice and argued many famous cases including the Jodhpur Railwaymen's Grievances case, 1948. *Address:* Jodhpur, Rajasthan.



MODI, Raisaba K. N., Managing Director, Modi Spinning and Weaving Mills Co., Ltd., Proprietors of Modi Cloth Mills, Modi Yarn Mills, Modi Rayon & Silk Mills and Modi Tent Manufacturing Co., Modinagar, (U.P.). *b.* May 22, 1921, in the Modi family of Patiala and Modinagar; *Educ.:* Patiala. Started business career as General Manager, Modi Food Products Co., Ltd.; became Director of various companies, *viz.*, Bhatinda Electric Supply Company, Patiala Flour Mills, Modi Sugar Mills Ltd., R. B. Gujarmal Modi and Bros. Ltd., Sutlej Flour Mills, Modi Oil Mills and Associated Tubewells (India) Private Ltd.; Pres.: All-India New Textile Mills Assoc.; Caravan of India; made an extensive business tour of the Continent, U.S.A., Canada, Japan and South-East Asia; Member: District Labour Welfare Advisory Cttee., Meerut; Employees' State Insurance Corporation. *Recreations:* Driving and sports, especially cricket. *Clubs:* India Culture League, Bombay; Wheler Club, Meerut; Chelmsford Club Ltd., New Delhi; Delhi Flying Club Ltd.; Alexander Athletic Club Ltd., Meerut; The Delhi and District Cricket Assoc. Ltd., New Delhi; National Sports Club of India, New Delhi; International Cultural Forum, Delhi; Meerut District Rifle Assoc. *Address:* P.O. Modinagar, District, Meerut, U.P.



MODY, Sir Homi, M.A., LL.B., K.B.E (1935), Grand Commander, Order of George I of Greece, Ex-Governor of U.P. Dir., Tata Sons Ltd *b* Sept 23, 1881; *Educ:* St. Xavier's Coll., Bombay. Pres., Bombay Municipal Corporation, 1923-24; Chairman, Bombay Millowners' Association, 1927 and 1929-34; President, Indian Merchants' Chamber, Bombay, 1928; President, Employers' Federation of India; member, Indian Leg. Assembly, 1920-43 and Constituent Assembly, 1948-49; member, First Round Table Con., 1929 and Reserve Bank Cttee. of the Conference, 1934; Member for Supply, Viceroy's Executive Council, 1941-43 and Deputy Chairman of the War Resources Cttee of the Council; Governor of Bombay, Sept 1947; Employers' delegate, International Labour Conference, Geneva, 1937; Chairman, Central Bank of India and Indian Hotels Co. Ltd.; Vice-Chairman, Tata Hydro-Electric Agencies Ltd.; Governor of U.P., May 1949-June 1952. Hon. LL.D., Banaras, Aligarh and Poona Univs.; D. Litt., Agra Univ. *Clubs:* Royal Automobile, Overseas League (London), Asian, Ripon, Willingdon, Royal Western India Turf, Cricket Club of India, Bombay, Delhi Gymkhana. *Publications: The Political Future of India; Biography of Sir Pherozeshah Mehta. Address:* "Spirospero," Carmichael Road, Cumballa Hill, Bombay.

MODY, Mr. Justice Nalinikant Ambalal, B.A., LL.B., Judge, High Court, Bombay *b* March 2 1910, *Educ:* Elphinstone High School; St. Xavier's College (1925-27); Elphinstone Coll (1927-29). Joined the Bar, 1935 *Recreations:* Bridge *Club*, Willingdon Sports Club *Address:* B-4, Ishwardas Mansion, Nana Chowk, Bombay 7.

MOGENSEN, Erik Brunnich, M.Sc., Civil Engineer, Director, F. L. Smidth & Co. (Bombay) Private Ltd *b* Sept 8 1906 in Denmark, *Educ:* Copenhagen Univ. Hon. Consulting Engineer (Cement) to the Govt of India 1945-56; Consul for Denmark 1950 *Address:* Shangrila, Carmichael Road, Bombay.

MOHAMMED, Bakshi Ghulam (See under Bakshi Ghulam Mohammed).

MOHAN, Yadava, C.E. (Hons.), Chief of the Natural Resources Development Division, Planning Commission, New Delhi, since 1953, Secretary of the Advisory Committee for Irrigation and Power Projects for the Second Plan since 1954, Secretary-General of the International Commission for Irrigation and Drainage, since May 1957. *b.* July 20, 1908; *Educ:* Meerut Coll., Meerut; C.E. (Hons.) from Thomason Coll. of Civil Engineering, Roorkee, 1928. Civil Engineer in various capacities (Asst Executive, Executive and Superintending Engineer) in the Irrigation Dept. of Uttar Pradesh; on deputation in U.S.A. on U.S. Bureau of Reclamation, Army Corps of Engineers, TVA, etc. *Publications:* A number of articles of engineering interest and humanities in engineering magazines and daily newspapers. *Recreations:* Photography. *Address:* 45, Lodi Estate, New Delhi.

MOHANTY, Gopi Nath, O.A.S., Oriya Novelist, Under-Secretary to the Government, Agriculture & Community Development (Gram Panchayat) Deptt., Orissa, since Oct. 1956. *b.* April 20, 1914; *Educ.:* Maharaja H. E. School, Sonepur; Patna High School, Patna; Ravenshaw Coll., Cuttack; awarded scholarship and stood first in the M.A. examination of Patna Univ. (English language and literature), 1936. Worked in different districts as Magistrate and as an Executive Officer; made a thorough study of the Adivasi tribes during seven years in Koraput Dist., collected their languages and songs; awarded Rs. 500 by Orissa Govt. for passing Kondh test; awarded Rs. 5,000 by the Govt. of India for his novel *Amrutara Santana*, being considered the best original production in the Oriya language. *Publications:* Novels: *Harijana; Amrutara Santana, Durapani; Saba Bhai, Paraja*, etc.; Stories: *Ghasara Fula Chhai Alua*; etc.; Dramas: *Mahapurusha* etc., Essays: *Premara Nyaya*, etc.; For little children: *Bhangolika Kahani*; Advisory researches: *Kuri Kondh Bhasa Tattwa, Kondh Parajastotra O Sangita*, Poems in Kondh; *Kuri Lokati Nchi Panbu. Address:* Under-Secretary to the Govt., Agriculture and Community Development (Gram Panchayat) Department, Orissa.

MOHIUDDIN, Ahmed, B.A (Cantab), Deputy Minister for Civil Aviation, Govt of India *b.* Oct 10, 1898, *Educ:* Aligarh and Cambridge Universities. Retired Govt servant, Hyderabad state, member, Indian Institute of Economics, Hyderabad, served in The Nation Building Deptt, Hyderabad State Professor of Economics, Nizam's Coll., Hyderabad 1927-30, Member-Secy Hyderabad Banking Inquiry Cttee, 1929; Hyderabad Co-operative Finance Inquiry Cttee., Director, Commerce and Industry, Hyderabad, 1938-43 etc.; represented Hyderabad on The National Planning Cttee appointed by Congress 1939, served in Hyderabad State Bank Secy, Labour Deptt, Hyderabad state, 1949-50, member, First Lok Sabha 1952-57 again elected to the Lok Sabha 1957. *Recreations:* Tennis, Golf, Indoor Games *Club* Secunderabad Club, Secunderabad *Address* Jubur Pagh, Nacharam P.O. Jamia, Osmania, Hyderabad 7, New Delhi.

MONANI, Mohamadali Gholamhosain, B.A., I.C.S., J.P., General Manager, Bombay Municipality 7 Oct 1899 *Educ* St Xavier's, Bombay St Vincent's Poona, Elphinstone Coll., Government Law Coll., Bombay, School of Oriental Study London Joined I.C.S., 1933 served as Asstt Collector Addl Dist Magistrate, Dist. & Sessions Judge, Deputy Secy Legal Deptt Secy., Leg Assembly and Council Home Secy., Political & Services Deptt., Relief & Director of Resettlement and Employment, Commissioner of Labour, Director General of Resettlement and Employment, Ministry of Labour, Govt of India, Director of Local Authorities, and member, Revenue Tribunal Bombay State; member, Bombay Rotary Club, Dist. Governor, Dist 34 (1955-6) Rotary Information Counsellor (1956-7) member, Rotary International Consultative Cttee. (1957-58). *Recreations:* Photography Tennis, Badminton, Bridge, Chess, Old Willingdon Sports Club, Cricket Club of India Bombay Provincial Hockey Association (Member, Executive Cttee.). *Address:* Electric House, Fort, Bombay 1.



MONDOL, Shot Kumar, B.A., S.T.D., D.D., LL.D., Bishop, Methodist Church in South Asia, since Jan 1941. *b.* Oct. 11, 1896; *Educ:* Scottish Church Coll. and St. Paul's Coll., Calcutta. Principal, Collins Institute, Calcutta; Pastor, Dist. Supdt., Railway Chaplain, Calcutta and Asansol; Pres.: National Christian Council of India, 1947-50 and 1950-56; National Missionary Society of India, since 1946; India Sunday School Union, since 1948. *Address:* Bishop's House, 12, Boulevard Road, Delhi 8.

MOOKERJEE, Sir Biren, M.A. (Cantab.), M.I.E. (Ind.), Kt. (1942), Governing Director, Martin Burn Ltd., Calcutta. *b.* Feb. 14, 1899, *Educ.:* Hastings House and Sibpur Engineering Coll., Calcutta; Trinity Coll., Cambridge. Joined Martin & Co. as an Assistant, 1924; made partner, Burn & Co., 1931 and Martin & Co., 1934; was closely associated with the negotiations which led to the formation of The Steel Corporation of Bengal Ltd., 1937 and the subsequent construction of the steel works at Napuria alongside the Hirapur Works of The Indian Iron & Steel Co. Ltd.; during World War II, appointed to the Munitions Board and the Defence Council; elected Sheriff of Calcutta, 1940; was Chairman, Calcutta Board, former Imperial Bank of India; Governing Body, Sibpur Engineering Coll.; Fellow, Faculty of Engineering of the Calcutta Univ.; was member, Indian Mission which negotiated Rs. 15 crore loan from the World Bank to the Indian Iron & Steel Co. Ltd. *Address:* 7, Harrington Street, Calcutta 16.

MOOKERJEE, Kalipada, Minister for Home, Police and Defence, West Bengal. Took active interest in students' movements; sponsored and organised the widespread national volunteer organisation on the lines of the national scout movement; joined the Non-co-operation movement, 1921; courted imprisonment in almost all the freedom movements; was member, A.I.C.C. for 15 years; was an office-bearer of the Bengal Congress for a long time; was General Secy., Bengal Prov. Congress; was one of its Vice-Presidents; was a close associate of Netaji Subhas Chandra Bose; conducted relief organisation during the North Bengal flood and was also actively associated with the relief organisation during both the Dacca and Noakhali communal riots; was elected to the Bengal Leg. Assembly, June, 1947; appointed Minister in the first Congress Cabinet, 1947; appointed Chairman, West Bengal Minority Commission, under the Indo-Pakistan Agreement; led the Indian delegation to the second session of the Industrial Cttee. on cotton textiles at Geneva, Oct.-Nov. 1948. *Address:* Minister for Home, Govt. of West Bengal, Calcutta.

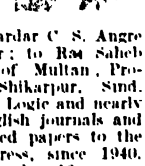
MOOKERJI, Dr. Radha Kumud, M.A., Ph.D., D.Litt., Padma Bhushan (Jan. 26, 1957), M.P., Emeritus Professor of History, Lucknow Univ. *b.* Jan 2, 1884, *Educ.*, Presidency Coll., Calcutta. First Prof. of History, Bengal National Coll., Calcutta. First Prof. of History, Mysore Univ., 1917-21. Prof. and Head of the Deptt. of History, Lucknow Univ., 1921-45; M.L.C., Bengal on Congress ticket, 1937-43; Member: Bengal Govt's Land Revenue (Floud) Commission, 1939-40; Indian Delegation to the F.A.O. Preparatory Commission at Washington, 1946-47; awarded Hon. Degree of D.Litt. by Lucknow Univ. at its Silver Jubilee Convocation; Lecturership instituted in his name at Lucknow Univ. by his friends of the value of over one lakh of rupees; nominated by the President as member, Rajya Sabha. *Publications: A History of Indian Shipping; Nationalism in Hindu Culture; Men and Thought in Ancient India; Ancient Indian Education; Early Indian Art; India's Land System; Ancient India,* and several others. *Address:* 39, Ekdalia Road, Calcutta 19. Goode Road, Darjeeling; Kumud Kutir, Puri; 24, North Avenue, New Delhi.

MOON, Edward Penderel, M.A. (Oxford), O.B.E. (1941), Adviser, Planning Commission since Sept. 1952. *b* November 13, 1905; *Educ.:* Winchester and New College, Oxford. Fellow of All Souls College, Oxford, 1927; entered I.C.S. (Punjab Commission), 1929; Under-Secretary, Punjab Government; Deputy Commissioner, Multan; Secretary to the Governor, Punjab; Deputy Commissioner, Amritsar; resigned from I.C.S. in January 1944; served in the Yugoslav Commission of U.N.R.R.A., 1944-45; Secretary, Development Board (Government of India), 1946; Revenue Minister, Bahawalpur State, 1947; Deputy Chief Commissioner, Himachal Pradesh, 1948-49; Chief Commr., Himachal Pradesh, 1950-51; Chief Commr., Manipur, 1951-1952. *Publications: Strangers in India; The Future of India; Warren Hastings and British India. Recreations:* Riding, Shooting and Singing. *Club:* Athenæum. *Address:* c/o Planning Commission, New Delhi.

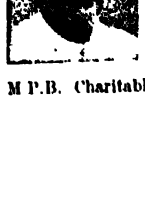
MOOTHAM, Mr. Justice Orby Howell, E.D., M.Sc. (Econ.) (Lond.), Bar-at-Law, Chief Justice, High Court, Allahabad, since Jan 11, 1955 *b* Feb 17, 1901; *Educ:* privately, London Univ., called to the bar (Inner Temple), 1925. Enrolled as Advocate, Rangoon High Court 1927, Deputy Judge Advocate-General, Army in Burma, 1941-42; Asstt. Judge Advocate-General, G.H.Q. (India) 1942-43; Legal Adviser and subsequently Chief Judicial Officer, British Military Administration, Burma; mentioned in Despatches, 1945; appointed Acting Judge of the High Court of Judicature at Rangoon, Dec. 1945; Chairman, Allahabad Univ. Enquiry Cttee., 1952-53. *Publications: Burmese Buddhist Law* (1939). *Recreations:* Golf; Map collecting. *Address:* 9, Hastings Road, Allahabad.

MORAES, Frank Robert, M.A. (Oxon.), B.A. (Bombay), Bar-at-Law, Editor-in-Chief *The Indian Express*, Bombay, Delhi, Madras and Madurai, since Dec. 9, 1957; Ex-Editor *The Times of India*, Bombay *b* Nov 12, 1907 *Educ.:* Bombay and Oxford Universities, member of Lincoln's Inn London. Assistant Editor, *The Times of India*, 1938-46; Editor of *The Times of Ceylon*, 1946-48; War Correspondent, Burma-China, 1942-45; Acting Editor, *The Times of India*, April 11-Aug. 14, 1949; Deputy Editor, *The Times of India* till March 1950; Editor, *The National Standard*, March-Nov. 1950; was member, Indian Cultural Delegation to China, April-June 1952. Editor, *The Times of India*, Bombay, 1950-57. *Publications: Introduction to India* (with Robert Stimson); *Story of India: Report on Mao's China* (1954); *Jawaharlal Nehru* (Macmillans New York, 1956) *Clubs* Willingdon; Rotary; C.C.I. *Address* D-3, Mafatlal Park, Bhulabhai Desai Road, Bombay 26.

MOSES, Angelo, M.A., F.R.A.C., B.P.E., Professor of Philosophy, Khalsa College Bombay and Captain in the National Cadet Corps. *b.* 1914; *Educ:* Andhra University where he was a student of Sir S. Radhakrishnan, was First in Univ. in Philosophy; won two Gold Medals, two Silver Medals and three First Prizes in Essay-writing Competitions, participated in the All-India Physical Education Conference at Amraoti, 1946; has won 97 trophies in Tennis, Hockey and Badminton tournaments, Secy: Baroda Y.M.C.A.; to Major Shrimant Sardar C. S. Angre Saheb Bahadur of Gwalior; to Rao Saheb Chaudhry Pratap Singh of Multan, Professor C. & S. Coll., Shikarpur, Sind. *Publications*, two books on Logic and nearly 400 articles in leading English journals and Newspapers; has contributed papers to the Indian Philosophical Congress, since 1940. *Address*, Khalsa College, Bombay 19.



MOTILAL Bawalal, B.A., Share and Stock Broker. *b.* 1896 at Jamnagar; *Educ.:* Jamnagar High School and Bahauddin Coll., Junagadh, graduated 1919. Worked as an Assistant in a cotton firm and also as a working partner with Langley & Co.'s Share Dept. Purchased his card in 1925 and started his firm, Motilal Bawalal & Co. Director, Bombay Stock Exchange, 1930-35; Pres., Shree Girinarayan Sahayak Mandal, Vice-Pres., Gurjar Brahmin Education Society; Trustee, M.P.B. Charitable Trust; a member of the Managing Cttee. of Santa Cruz Education Society; member, Indian Merchants' Chamber, Bombay, Bullion Exchange, and Seeds & Oil Assocn., Jamnagar; Member, Cricket Club of India. *Address:* Agakhan Building, Dalal Street, Fort, Bombay. *Residence*, 'Manohar', 27, Merine Lines, Fort, Bombay.



MUDALIAR, Sir A. Lakshamanaswami, M.D., LL.D., D.C.L., D.Sc., Padma Bhushan (1954), M.L.C., Madras, Vice-Chancellor, University of Madras, since Aug. 1942 *b.* Oct. 14, 1887 *Educ.* Christian and Medical Colleges, Madras. Joined Madras Medical Service, Prof. of Obstetrics and Gynecology, Medical Coll., 1934-42; Supdt., Govt. Hospital for Women and Children, Egmore, and Principal, Medical Coll., 1939-1942; Member, Syndicate, Madras Univ., since 1925; acted as Vice-Chancellor, 1936 and 1940; Chairman, Inter-Univ. Board, 1948-49 and of its Standing Cttee., 1949-51; member: Indian Medical Council, since its inception; All-India Council of Technical Education; All-India Council of Scientific and Industrial Research; and of its Governing Body; Chief Commissioner, Madras Prov. Boy Scouts Assoc.; Chairman, Secondary Education Enquiry Commission, 1952-53; Chairman, Executive Board of the World Health Organization; Chairman, Executive Board, UNESCO, 1955. *Publications: Clinical Obstetrics: Ante-Natal and Neo-Natal Mortality of Infants; Case-book for Midwives. Clubs:* Cosmopolitan, Madras; Kodaikanal Boat Club. *Address:* 'Kensington,' Kilpauk, Madras.

MUDALIAR, Sir A. Ramaswami, M.P., Diwan Bahadur, Kt., K.C.S.I. (1942), Chairman, Board of Directors, Industrial Credit and Investment Corporation. Ex-Vice-Chancellor, Travancore University. *b* October 14, 1887; *Educ.:* Christian, and Law Colleges, Madras. Advocate, Madras; member: Leg. Council, Madras, 1920-26; Pres., Municipal Council, Madras, 1928-30; member: Council of State, 1930; Indian Leg. Assembly, 1931-34, R.T.C. Federal Structure Cttee.; and Indian Franchise Cttee., Indian Reserve Bank Committee; leader, Indian Delegation to British Commonwealth Relations Conference, Toronto; member: Special Textile Tariff Board; India Council; Hon. Editor, *Justice*, 1927-35; delivered the Rt. Hon'ble V. S. Srinivasa Sastri foundation lectures, Madras Univ., 1933; memb., Economic Committee, League of Nations; Member, Viceroy's Executive Council for Commerce Dept., 1939-42; Supply Member, 1943, proceeded to San Francisco as leader of the Indian Delegation, March 11, 1945; was also Chairman of Economic Cttee of the Conference; India's representative on the Preparatory Commission to the U.N.O., Nov. 1945; elected Pres of the Economic and Social Council of the U.N.O., 1946; Leader, Indian Food Delegation to U.K. and U.S.A., 1946; re-elected President, Economic and Social Committee, U.N.O., 1947; Hon. D.C.L. of the Oxford Univ., 1946; Hon. D.C.L. (Durham), 1953; Senior Vice-Pres., Economic and Social Council, 1950, 1951; Chairman, U.N. Cttee. on Forced Labour; member, International Civil Service Board of U.N.O.; Chairman, India Steamship Co., Ltd.; Dewan, Mysore State, Aug. 1946-Aug. 1949. *Address:* 'Kensington', Kilpauk, Madras.

MUDHOLKAR, Mr. Justice Janardan Rangnath, B.A., LL.B. (Cantab.), Bar-at-Law, Judge, High Court of Judicature, Bombay, since Nov 1, 1956 *b.* May 9, 1902; *Educ:* Elphinstone High School, Bombay; Elphinstone College, Bombay; Sidney Sussex College, Cambridge; Lincoln's Inn, London. Practised at the Bar at Amraoti, 1925-29 and at Nagpur, 1930-41; District & Sessions Judge, Sept. 1941-June 1948; Judge, Nagpur High Court, June 1948-Oct. 1956. *Recreation:* Golf. *Clubs:* Gondwana Club and C.P. Club, Nagpur. *Address:* 33, 1, Civil Lines, Nagpur.

MUDIE, Lawrence David, General Manager, Burmah-Shell Oil Storage and Distributing Co. of India Ltd.: Vice-President, Bombay Chamber of Commerce 1958-59;

Chairman, Burmah-Shell Refineries Ltd. *b.* April 29, 1915; *Educ.:* Trinity Coll., Glenalmond. *Clubs:* Royal Bombay Yacht Club; Bombay Gymkhana. *Address:* Baroda Lodge, Nepean Road, Bombay.

MUGALI, Ranganath Shrinivas, M.A., B.T. (Bombay), D.Litt. (Poona), Professor of Kannada and English, Willingdon College, Sangli, since 1933 and Vice-Principal, since July 1955. Kannada writer.



b. July 15, 1906; *Educ.:* P. D. J. High School, Bijapur; Karnatak Coll., Dharwar. Life member, D. E. Society since 1937; Pres.: Dramatic Section, Kannada Literary Conference, Hyderabad, 1941; Literary Criticism Section, Kannada Literary Conference, Mysore, 1955; elected member: Karnatak Univ. Senate, 1950; Academic Council, 1952; recognised as Univ. Teacher for Ph.D. by the Poona Univ. since 1951. recipient of a prize of Rs 5,000 for *Kannada Sahitya Charitre* as the best book in Kannada, 1956 (Sahitya Akademi award). *Publications: The Heritage of Karnatak (in relation to India)*; Poems: *Rasiya* (1940); *Aparakarune* (1951); *Om Ashanth* (1951); Novels: *Baluri* (1934); *Karanapurusha; Anna* (1948); Drama: *Sevapradipa* (1936); *Akkamahadevi* (1937); *Paranapavaka* (1937); *Namadhari* (1939); *Vijaya Samrajya* (1948); *Mancrajya* (1950); *Ettida Kai* (1946) (Collection of one-act plays); Short Story: *Kanasina Koladi* (1943); Criticism: *Kannada Kadambariqalu* (1945); *Rannana Kritiratna* (1946); *Kannada Sahitya Charitre* (1953); *Sahityopasane* (1954). *Address:* Willingdon College, Sangli.

MUJEEB, Muhammad, B.A., Vice-Chancellor, Jamia Millia. *b.* Oct 30, 1902. *Educ.:* Oxford Univ., England. Joined the Jamia Millia, 1926; has fulfilled a pledge of 20 years' service *Publications: History of Russian Literature, History of European Political Thought, Story of the World* (in Urdu), *A History of the World, A Glimpse of New China* and four plays *Address:* Jamia Millia, Jamianagar, New Delhi.

MUKERJEE, Birendra Nath, M.A. (Calcutta et Oxon.), B.Litt. (Oxon.), Barrister-at-Law, M.P., Communist leader and Educationist. *b* Nov. 23, 1907; *Educ.:* Calcutta and Oxford. Lecturer in History and Politics, Andhra Univ (1934-35); Lecturer, Calcutta Univ. (1939-44); Head of the Dept. of History, Surendranath Coll., Calcutta, since 1936; member: A.I.C.C., 1938; Jt. Secy., Congress Socialist Party, Bengal, 1938; Bengal Provincial Cttee., Communist Party of India, 1947-49; Editor, "Indo-Soviet Journal" (1941-45); Vice-Pres., Bengal Provincial Trade Union Congress, 1948; detained without trial (1948-49); elected Member of Parliament from Calcutta North-East, Jan. 1952; again in 1957 from Calcutta Central; Deputy Leader, Communist Parliamentary group; Elected Member of Calcutta University Senate, 1953 and again in 1957, Member, Central Advisory Board of Archaeology, 1952-55 and since 1957; Member, Panel on Education, Planning Commission. *Publications: An Introduction to Socialism* (1939); *China Calling* (1942); *Under Marx's Banner* (1944); *India Struggles for Freedom* (1946), and other volumes in English and in Bengali. *Recreations:* Browsing among books and watching cricket. *Club:* Bar Library Club, Calcutta. *Address:* 14, Indian Mirror Street, Calcutta 13.

MUKERJEE, Prasanta Chandra, M.A. (Cantab.), M.I.E. (Ind.), Chairman, Railway Board, since Jan. 1, 1957. *b.* Oct. 30, 1904; *Educ.:* Hastings House and Clare Coll., Cambridge. Appointed to the Indian Railway Service of Engineers; worked in Engineering and in general administration; Dy. Director-General, Munitions Production, 1945; Dy. Director-General, Development; Controller of Railway Supplies; appointed General Manager, B. N. Rly., April 1948; General Manager, Chittaranjan Locomotive Works; General Manager, Eastern Rly.; Member, Rly. Board. *Clubs:* Calcutta Club; Calcutta South Club; Royal Calcutta Golf Club; Delhi Gymkhana Club, etc. *Address:* Railway Board, New Delhi.

MUKERJEE, Sailajananda, Bengali Novelist, Dramatist, Film Director, Scenario-Writer; Producer of plays, All India Radio, Calcutta. *b.* March 5, 1901; *Educ.:* Raniganj coal district. *Publications:* "Collection of Best Stories"; *Gram-ke-Gram; Badhu Baran; Atasi; Himanal Anath-ashram; Thik-Thikana: Aj Subhadin*, etc. *Recreations:* Photography. *Address:* 137, Indra Biswas Road, Calcutta 2.

MUKERJEE, Air Marshal Subroto, O.B.E., Chief of the Air Staff, Indian Air Force since April 1, 1954. *b.* March 5, 1911; *Educ.:* Presidency Coll., Calcutta; R.A.F. Coll., Cranwell. served with No. 16 Sqdn., R.A.F., 1932; No. 1 Sdqn., I.A.F., 1933; O.C. No. 1 Sqdn, I.A.F., 1939-41; Staff Coll., Quetta, 1941; No. 1 Group, India, 1942; No. 225 Group, 1942; O C, R.A.F. Station, Kohat, India, 1943-44; Deputy A.O A., Air H.Q., India Command, 1947; D C.A.S. and Deputy Air Commander, I.A.F., 1947-52; Imperial Defence College Course, 1953. *Address:* Air Headquarters, New Delhi.



MUKERJEE, Sunil Kumar, M.Sc. (Cal.), Ph.D. (Edin.), F.B.S., F.L.S., Curator of the Herbarium since 1938. *b.* August 28, 1909; *Educ.* Univ. of Calcutta, Univ of Edinburgh Carried on research work in Botany, in Royal Botanic Gardens of Cal., during 1935-36, Edinburgh, 1936-38; Kew, London, and British Museum of Natural History, London in 1937 and 1938, member of Bangiya Bijnan Parishad, the Botanical Society of Bengal, the Indian Botanical Society and the Asiatic Society, Calcutta; deputed by Government of India to explore the forests of East Nepal in 1947 with the Snow Survey Party and in 1948 to survey the forests of South Naga Hills. *Publications:* A monograph on the Indian and Burmese plants of the Mint family, and several papers describing 23 new species of plants and eight new varieties, and making several changes of nomenclature of plants and publishing results of original research. *Address:* Indian Botanic Garden, Calcutta.

MUKERJI, Dr. Bishwapada, D.Sc. (Michigan), M.B. Hons. (Cal.), M.P.S., F.I.C., F.N.I., F.A. Ph.S., F.A.A.A.S. (America), M.S.Ph.S. (Switzerland), Director, Central Drug Research Institute, Lucknow. *b.* June 1, 1903; *Educ.:* Calcutta; Michigan (U.S.A.); awarded Fellowship under the Rockefeller Foundation, Sigma XI Award, Michigan Chapter, 1933-36; visited extensively the laboratories in China, Japan, America, Great Britain, France, Germany, Belgium, Czechoslovakia and Austria and almost all the Univ. Centres and Research Organisations in India & Far East; again visited Europe & U.S.A., 1950, 1951, 1954 and 1956; Offg. Director, Biochemical Standardisation Laboratory, Calcutta (now Central Drugs Laboratory), 1941-47; Director, Central Drugs Laboratory and Pharmacognosy Laboratory, 1948-51; Jt. Secy., Co-ordination Cttee. of I.P.C.; member, International Pharmacopoeia Commission, Expert Cttee. on Biological Standards, Geneva; Technical Comm. on Food Additives, F.A.O./W.H.O., Rome; member, Expert Panel, Humid Tropics Research, UNESCO, Paris; Hon. member, Egyptian Pharmaceutical Society; Vice-Pres. & Secy., Nat. Ins. Sci. India; Awards: Casino Medal, 1952; Barclay Memorial Medal, Asiatic Society, Bengal and Nilmoney Brahmachari Gold Medal, 1956. *Publications:* four books, *Tropical Therapeutics, Pharmacognosy of Indian Root Drugs, Pharmacognosy of Indian Leaf Drugs, Indian Pharmaceutical Codex;* more than 150 papers in Scientific Journals of India and abroad; special studies in Pharmacology and Bioassay. *Address:* Central Drug Research Institute, Chattar Manzil Palace, Lucknow.

MUKHERJEE, Jnanendra Nath, B.Sc (Hons.) (Calcutta), M.Sc. (Calcutta), D.Sc (Lond.), C.B.E. (1944), Member, Union Public Service Commission. *b.* April 23, 1893; *Educ.* Presidency Coll., Calcutta; Premchand Roychand Scholar, Calcutta Univ.; Mouat Medal Calcutta Univ.; King George's Medal. Began as Assistant to Palit Professor of Chemistry Calcutta Univ, 1915; Lecturer in Chemistry Univ. Coll. of Science and Technology, 191.. Professor of Chemistry, Calcutta Univ 1921-45; associated with many Indian and International Institutes and Associations Director, Indian Agricultural Research Institute, New Delhi, 1945-50; Director Central Building Research Institute, Roorkee, 1950-52, member, Bureau and Executive Board, International Council of Scientific Unions and Vice-Pres., International Soil Science Congress 1950; Pres., Indian Science Congress Assn., 1952; Chairman, Scientific Research Cttee., U.P.; Administrator, Board of Secondary Education, West Bengal, 1955-56; Fellow of the National Institute of Sciences of India *Publications:* Numerous papers on Colloid Soil Science, Physical Chemistry. *Address:* 10, Puran Chand Nahar Avenue, Calcutta; Dholpur House, New Delhi-2; 2, Old Mill Road, New Delhi 1.

MUKHERJI, Binode Behari, Diploma in Art (Vishwa Bharati); Professor Vishwa Bharati, Santiniketan *b.* 1904. *Educ* Vishwa Bharati; studied art under Mr Nanda Bose; the chief educative influences of career have been Chinese art and calligraphy besides the classic art of India and Japan. 1937-38; worked in Kala Bhavan Santiniketan as Adhyapaka for best part of his life; did two major murals in Santiniketan popularly known as ceiling mural and Hall Bhavan mural, served occasionally as Curator of Kathmandu Museum (1948) and as Professor of Art in Patna Art College; recently went an eye operation in March 1957 and then virtually without vision, is now working as Special Instructor in Applied Aesthetics Santiniketan. *Publications:* Bibliography Abanindranath Tagore's works, several articles. *Recreations:* Chess, Chinese tea *Address:* P O. Santiniketan, West Bengal.

MUKTIBODH, Sharadchandra Madhav, M.A., LL.B., Marathi Poet, Critic and Novelist; Lecturer, Nagpur Mahavidyalaya Nagpur. *b.* Jan. 21, 1921; *Educ.:* Holkar Coll., Indore (M.P.). Commenced writing verse while at school; has been accorded an important place in contemporary Marathi poetry. *Publications: Navi Maiesat* (Poetry) *Kahipra* (Novel); has contributed many articles on modern literary critics. *Recreations:* Reading. *Address:* Ram Mandir Gali, Jobhiwada, Mahal, Nagpur

MUNDASSERY, Joseph, M.A., Minister for Education & Co-operation, Kerala; Malayalam Writer. *b.* 1902. Thirty years in teaching; recipient of titles from H.H. The Maharaja of Cochin for literary work—Sahitya Kusala and Sahithyanipuna; has travelled widely; visited China, Soviet Union and European countries; entered active politics 1946; member, World Peace Council 1950; been in the Teachers Movement and associated with educational activities for more than a quarter of a century; has been in the forefront of the Progressive movement in Literature, actively interested in the Co-operative movement of the State; was member, Legislative

of the State for about 10 years; was Editor of various literary journals and also a daily. *Publications:* Has produced more than thirty volumes including fiction, travel, biography, literary criticism and general essays; Some Books: *Professor, Konthayilninnukuriyilekku, China Forward, Matloli, Manadandam, Vayanasalayil, Manushya, Kathanugayikal*, etc. *Address:* Minister for Education and Co-operation, Trivandrum.

MUNSHI, Kanialal Maneklal, B.A., LL.B., D. Litt., Ex-Governor of U.P. *b.* 30th Dec. 1887; *Educ.:* Baroda College. Advocate, Bombay High Court, 1913; Joint Editor, *Young India*, 1915; Secy., Bombay Home Rule League, 1919-20; Editor, *Gujarat*, 1922-31; Fellow of the Universities of Bombay and of Baroda; member, Baroda Univ. Commission, 1926; Chairman, 1944; member, Commission for the Univ. of Gujarat, 1947; M.L.A., Bombay, representing the Bombay Univ., 1927-46; sentenced to six months' imprisonment for Salt Satyagraha, April 1930; member, Working Cttee, Indian National Congress, 1930; member, A.I.C.C., 1930-36 and 1947; sentenced to 2 years' R. I. for C. D., Jan. 1932; Secy. Congress Parliamentary Board, 1934; Home Minister, Government of Bombay, 1937-39; President Hindi Sahitya Sammelan, Udaipur, 1944; President, Bharatiya Vidya Bhavan, since 1938; Editor, *Social Welfare*, 1940-46; detained under D.O.I. Act, 1940-41; member, Constituent Assembly of India and of its Drafting Cttee. and of Parliament, 1947-52. Agent-General to the Government of India in Hyderabad, 1947; Chairman, Institute of Agriculture, Anand, since 1951 and of Charotar Vidya Mandal. Trustee: Birla Education Trust and other trusts, since 1948; Food and Agriculture Minister, Govt of India, 1950-52. Chairman, Sanskrit Vishwa Parishad, since 1951; Governor of U.P., 1952-57. *Publications* (Gujarati). Novels, Plays, Essays, Memoirs. (English) *Kulapati's Letters*, Vol I, II & III, *Gujarat and its Literature: Imperial Gurjaras, Bhagwad Gita and Modern Life, Creative Art of Life; To Bhadrinath; Saga of Indian Sculpture; End of Era Hyderabad Memories. Address:* Bharatiya Vidya Bhavan, Chowpatty, Bombay.

MUNSHI, Srimati Lilawati, M.P., Rajya Sabha, since 1952; Vice-Pres., Bharatiya Vidya Bhavan, Bombay, Delhi and Kanpur. President: Bombay Presidency Women's Council, 1950 and 1951, All India Women's Central Food Council, New Delhi, 1954-57; Ex-Service Women's Welfare Cttee., Govt of India, 1950-56; Bharatiya Sangit Shikasha Pith (Academy of Indian Classical Music), since its inception; Bharatiya Kala Kendra of Bharatiya Vidya Bhavan (Academy of Indian Fine Arts), since its inception; Indian Conference of Social Work, New Delhi, 1950-51; Countess of Dufferin's Fund, U.P., Lucknow, 1952-57; St. John Ambulance Brigade (India), U.P. Branch, Lucknow, 1952-57, Vice-Pres.; National Council of Women in India, 1953-56; Rashtrabhasha Pracher Samiti; National Education Society, member, Bombay Leg. Assembly (Congress), 1938-46, Cttee. of Indian Merchants' Chamber, 1933-36, 1946-50; Bombay Municipal Corporation (Congress), 1935-46; Senate of the Bombay Univ. (Congress), 1937-46; Board of Studies in Gujarati, 1939-44; Tea Board, 1955-56; P.E.N.; M.P.C.C., 1931-34; A.I.C.C., 1931-34; B.P.C.C., 1935-37; Hony. Presidency Magistrate and J.P., 1949-55; organised a number of Annapoorna Cafeterias all over India and a Dining Car Cafeteria; organised the School of Nutrition and Catering at Bombay (three courses), 1952; organised College of Catering and Institutional Management, Bombay, 1954-57; Dy. Leader, Municipal Congress Party, 1942-43; Whip, Municipal Congress Party, 1943; organised Swadeshi Market and was elected its Pres.; Trustee, Kashi Anathalaya Assoc., Banaras, 1953-56; courted jail for Salt Satyagraha, 1930, Civil Disobedience, 1932 and 1940; Patron: Hospital Welfare Cttee., Lucknow, 1952-55; National Council of India, U.P. Branch, Lucknow, 1952-55; Balkan-Ji-Bari, U.P. Branch. *Publications: Rekhachitro ane Bija Lekho* (Collection of character sketches, short stories and plays), *Kumaradevi* (Historical Play); *Jeevanmathi Jadeli* (collection of short stories); *Rekha Chitro—Juna Ane Nava* (character sketches—old and new); miscellaneous articles. *Address:* Bharatiya Vidya Bhavan, Chowpatty, Bombay.

MURANJAN, Sumant Khanderao, B.A. (Bom., 1st Class), M.A. (Bom., 1st Class), B.Sc. (Lond.), D.Sc. (Lond.). Member, Tariff Commission. *b.* April 22, 1900; *Educ.:* Wilson Coll. & St. Xavier's Coll. (Bombay Univ.), London School of Economics (London Univ.); Bombay Educational Service (1925-55), Principal and Professor of Banking, Sydenham Coll., Bombay (1948-55); Chairman, Bombay State Forward Markets Cttee.; Member, Indian Textile Inquiry Cttee.; Pres., Indian Economic Conference (1956). *Publications, Currency and Prices; Modern Banking in India; Economics of Post-war India; Foreign Central and Commercial Banking; Tatrachintan*, etc. *Address:* 8, Ashley House, 167-A Colaba Road, Bombay 5

MURRAY, Henry Lade, B.A. (Hons.). President, Bombay Chamber of Commerce and Industry, 1958-59; Business man. *b.* May, 31, 1907; *Educ.:* Haileybury Coll.; Brasenose Coll., Oxford. Joined Mackinnon Mackenzie & Co. on leaving Oxford and has been with them since, except during the period of the 1939-45 war. *Address.* C/o Mackinnon Mackenzie & Co. Private Ltd., 4, Ballard Road, Ballard Estate, Bombay 1.

MURTHY, Ramnathpur Venkatesa, M.A., Editor, *Records & Statistics. b.* Nov. 12, 1906; *Educ.:* Mysore and Bombay. After working for a short period in the Mysore Education Service joined the editorial staff of *Commerce*, March 1936; became its first Indian editor; resigned from *Commerce*, end of 1951; took over as Chief Editor, *The Bharat*, 1951; after a few months, appointed Special Representative, *Eastern Economist*; immediately after the Second World War, proceeded to the U.K. to make an on the spot study of post-war industrial conditions and prospects of Indo-British economic relations; edits Daily Cotton and Textile Market Review; broadcasts often from the All India Radio on economic subjects; is connected with a number of educational and cultural institutions and is a keen co-operator; as Chairman, Press Guild of India, takes very active interest in the work of this organisation. *Publications:* Has edited and published a number of specialised publications, including *The History of Technical Education in India* and *Industrial India*; is a frequent contributor to leading journals, both in India and abroad. *Address.* 5, Ratan Lodge, Bombay 19.



MURTI, Pandit A. S. N. *b.* Nov. 29, 1894; Member, Central Federation Working Cttee, was President of the Ganjam Harijan Sevak Sangh; took part in Non-Party Leaders Conferences; original member of the Indian Council of World Affairs; was a member of the Andhra Univ. Senate; was member, Royal Institute of International Affairs, London; was President, Orissa Millowners' Assoc. and Chamber of Commerce, Berhampur; was an Hon. Magistrate; constructed a Maternity Ward; member: Indian Society of Agricultural Economics; Indian Economic Association; P.E.N., etc.; is a prominent landowner in Orissa; contributed liberally to Bhoodan. *Publications: Free State for India* and other books. *Address.* Sarvodaya Bhavan, Chatrapur (Ganjam).



MUSAFIR, Giani Gurmukh Singh, M.P.; Pres., Punjab Pradesh Congress Cttee. *b.* Jan 1899. *Educ.* Rawalpindi and Training Coll., Lahore. Started career as a teacher, took active part in Akali movement, Jathedar Akal Takhat, Gen. Secy., S.G.P.C. and Shiromani Akali Dal; devoted to poetry and journalism, joined Congress, 1923, courted jail in almost every movement, member A.I.C.C. since 1930; Constituent Assembly 1947; Working Committee since 1952; Chairman Jallianwala Bag Trust Managing Cttee; member of a number of official Cttees formed by the Central and State Govts.; Chairman, Reception Cttee., 61st Session of the Indian National Congress, member, Delegation to Stockholm Peace Conference, 1954, visited Russia and continental countries, was honoured by the Russian Cultural Society. *Publications:* Over a dozen books of poetry, short stories, etc in Punjabi. *Recreations:* Politics, Travel and Hiking. *Address:* 21, Feroze Shah Road, New Delhi.

MUTHIAH, Chettiar of Chettinad, Rajah Sir Muthiah Annamalai, B.A., M.L.A., Kt. (1941), Pro-Chancellor, Annamalai University. *b.* 1905. *Educ.* Presidency Coll., Madras. Member Madras Banking Enquiry Cttee. 1929; Madras Leg. Council 1936-37, Madras Franchise Cttee., 1931; Madras Leg. Assembly, 1936-46, 1946-52 and since 1952; Syndicate, Madras Univ., 1940-46; Indian Constituent Assembly, 1946-50; Chief Whip and Chairman, Justice Party, Mayor of Madras, 1932-33, Education and Public Health Minister, Madras and Pro-Chancellor, Madras Univ., 1936-37; Local Self-Govt. Minister, Madras, 1937. Pres: Southern India Chamber of Commerce, 1941; Federation of Indian Chambers of Commerce and Industry, 1943-44; Local Board, former Imperial Bank, Madras; Trustee, Pachaiyappa's Coll. Board, since 1928; its Pres., 1942; Director: former Imperial Bank, Deccan Sugar and Abkhari Co. Ltd., Madras, Mysore Chemicals and Fertilisers Ltd., Mysore; A. & F. Harvey Ltd., Madura; Madura Mills Co., Ltd., Madura; Pandyan Insurance Co., Ltd., Madura. *Clubs:* Rotary Club of Madras; Madras Gymkhana Club; Madras Boat Club; Madras Race Club; Madras Cricket Club, Cosmopolitan Club; Bangalore Race Club, Bangalore. *Address:* Chettinad House, Rajah Annamalaipuram, Madras 28.

MYRDAL, Her Excellency Mrs. Alva, Swedish Ambassador to India, Burma and Ceylon, since Dec. 5, 1955. *b.* Jan. 31, 1902, at Uppsala, Sweden; *Educ.*: B.A. degree from Stockholm Univ., 1924, Stockholm, Uppsala, London, Leipzig, 1925-28, Rockefeller Fellow, U.S.A., 1929-30; Geneva, 1930-31. Director of Studies at Training Coll., Stockholm (1936-47), Head of the Dept for Social Affairs of the U.N., Lake Success (1949-50); Director, Dept. of Social Sciences, UNESCO (1951-55), has been member of and adviser to numerous Swedish Govt. Cttees and Swedish delegate to several international conferences; has presided over or has been Vice-Pres. of many Swedish and international organisations, among the latter the Federation of Business and Professional Women (1936-47) and the World Council for Pre-school Education (1947-49). *Publications:* Books: *Crisis in the Population Question*, 1934; *City Children*, 1935; *Right Playthings*, 1936; *Official report on Women's Work*, 1938; *Nation and Family*, 1941; *Contact with America*, 1941; *Cross Section of Great Britain at War*, 1943; *Post-war Planning*, 1944; *Comments* (being collection of articles on foreign affairs written for labour daily), 1944; *Are we too many?*, 1949; *America's role in International Social Affairs*, 1954; *Women's Two Roles*, 1956, etc. *Address:* Royal Swedish Embassy, 22, Hardinge Avenue, New Delhi.

MYSORE: His Highness Maharaja Sri Jaya Chamaraja Wadiyar Bahadur, G.C.B. (1946), G.C.S.I. (1945), LL.D. (1942), D.Litt. (1955). *b.* July 18, 1919; *Educ.:* Maharaja's College, Mysore; passed B.A. from the Mysore Univ., 1938. Has travelled extensively in the Far East, Europe and East Africa. Area of the State - 73,560 sq. miles and population—19,401,477. *Recreations:* Music, Riding, Tennis, Racquets and Big game shooting. *Address:* The Palace, Mysore.



NADIRSHAH, Erach Ardeshir, B.A., B.E., B.Sc. (Eng. Edin.), M. Inst., C.E. (Lond.), M.I.E. (India), F.I.P.H.E. (Lond.), O.B.E., J.P., Chief Engineer, Concrete Association of India since 1947. *b.* Feb. 8, 1895, *Educ.:* Bombay, Poona and Scotland. Responsible for promulgating Vaitarna-cum-Tansa scheme; chiefly instrumental in introducing traffic roundabouts and pedestrian crossovers in the Bombay City; Vice-Pres.: Indian Standards Institution; Federation Internationale de la Precontrainte; Chairman: Building Divisional Council and Cement and Concrete Sectional Cttee., ISI, Prestressed Concrete Development Group; Council Member, Housing and Regional Planning Panel of the Planning Commission, Building Projects Team of the Planning Commission; Bombay Traffic Advisory Cttee.; National Building Cttee of the National Building Organization, Govt of India, Rep. in India of the Inst. of the Public Health Engineers (Lond); Trustee: The Parsi Panchayat, Bombay; Anjuman Atash Behram, Cooper Education Trust and Zoroastrian Building Fund, member: Athornan Mandal; Bharatiya Vidya Bhavan; Grand Lodge U.S.F.I.P. (Subs. G.M.); Editor, *Indian Concrete Journal* and *IRTDA Newsletter. Address:* Khatau Mansion, Cooperage, Bombay.

NAG, Kalidas, M.A. (Cal.), D. Litt. (Paris) Officer d'Académié (France), Pres., Iran Society, Calcutta; Chairman, Tagore Centenary Committee; ex-Member, Rajya Sabha and Leader, Democratic Party. *b.* Jan 15, 1892. *Educ.:* Tagore's Rural Univ., Santiniketan; Calcutta Univ.; Univ. of Paris (1920-23) Professor of History, Scottish Church Coll., Calcutta, 1915-19; Principal, Mahinda Coll., Ceylon, 1919-20; Gen. Secy., Royal Asiatic Society of Bengal, 1942-46; edited its Bi-centenary Volume; nominated member, Rajya Sabha, 1952. *Publications:* Translated Tagore into French; collaborated with the French Nobel Laureate Romain Rolland in his studies on Mahatma Gandhi, Ramakrishna and Vivekananda; *Edited Bi-Centenary of Sir W. Jones* and *China & Gandhian India* by Dr Carsun Chang *Art and Archæology Abroad; India and the Pacific World; New Asia; India and the Middle East; Discovery of Asia; Tolstoy and Gandhi, China and Gandhian India*, etc., etc *Recreations:* Music, Drama and Sea Voyage *Clubs:* Tagore Societies of New Delhi, Calcutta, Rangoon, Singapore, Djakarta, Tokyo. *Address:* 108, Raja Basanta Roy Road, Calcutta 29.

NAGPUR, John William Sadiq, M.A., B.D. (Hons.), Bishop *of b* July 18, 1910, *Educ.:* St John's Coll., Agra with First Class M.A. in Persian; passed B.D. and B.D. (Hons.) examinations of the Serampore Coll as an external student Teacher in St. John's School, Agra, 1933-34. Secy., Student Christian Movement, 1934-35; Lecturer and later Prof. of Persian, Wilson Coll., Bombay, 1935-46; Secy., National Christian Council, 1946-57; William Paton Lecturer, Selly Oak Colleges, Birmingham, England, 1950-51, Secy., Bible Society, May-Sept. 1957; Consecrated Bishop at Poona Sept 15, 1957; Enthroned as Bishop of Nagpur, Oct. 6, 1957. *Publications:* Pamphlets dealing with devotional life and on Youth and Family Life *Address:* Cathedral House, Nagpur 1.

NAIDU, Sangitha Kalanidhi, Sangitha Ratnakara Prof. Dwaram Venkataswamy, 'Padma Shri' (Jan. 1957), M.P., a leading musician. *b.* Nov. 1893 in Bangalore Cantt.; *Educ.:* Mrs. A. V. N. Coll.; studied violin under his brother Prof. of Violin, Maharaja's Music Coll., Vizianagaram, 1919-36; appointed Principal, 1936; awarded gold medals by Sri Sri Sri Vikramadeo Varma Varu, H.H. the Thakore Saheb of Wadhwan, 1920; H.H. the Maharaja of Jaipur, 1922; All India Music Conference held during 42nd National Congress, 1927; decorated with the title of Ganakala Visarada by the Saraswata Parishat, 1929; presented with a violin and a diamond ring by the citizens of Vishakapatnam under the presidency of Dr. S. Radhakrishnan, 1931; presented with a civic address by Guntur Municipality, 1935; presided over the annual session of the Madras Music Academy and was awarded the title of Sangitha Kalanidhi, 1941; awarded title of Sangitha Ratnakara and given shawls and gold Royal Insignia by H.H. the Maharaja of Mysore, 1946; presented with a silver casket and a purse of Rs. 35,000 by the Savants of Indian Music in Madras State, 1949; presented a civic reception by Vijayawada Municipality, 1949; awarded honorary Doctorate degree of Kala Prapurna by the Andhra Univ. at its convocation, Dec 9, 1950; won several other awards from prominent personalities in India, has been on the Board of Studies and Board of Examiners in Music Madras and Andhra Univs. for several years; recipient of President's award for distinction in Carnatic Music (instrumental) for 1953. *Address:* Dwaram House, Madras 5.

NAIDU, Dr. G. C. Sudarsanam, M.B.B.S., B.Sc. (Madras), C.I.H. (Calcutta), Director of Public Health, Andhra Pradesh, Hyderabad, since Aug 31, 1957. *b.* Nov 20, 1903. Public Health Service, Madras, 1930-54; Professor, Dept of Social & Preventive Medicine, Andhra Govt., 1954-55; Asst Director of Public Health, Andhra State (Administration), 1955-56, Director of Public Health, Andhra State, 1956; served in Second World War with the rank of Captain *Publications:* Author of several articles on Public Health. *Address:* 10-2-249, Saifabad, Hyderabad 4.

NAIDU, Gopalaswami Doraiswamy, M.I.S.E., A.S.M.E., M.S.A.E., Industrial Scientist *b* March 23, 1893 Started life as a Cotton Broker; Founder G.M.S. Transport Co.; inventor of several mechanical devices, travelled round the world six times; member: Zoological Society of India, Prime Movers Panel, State Aid to Industries Board (Madras), American Society of Mechanical Engineers, New York, Society of Automotive Engineers, New York, Board of Technological Education (Madras), Indian Machine-Tool Manufacturers' Assoc., All-India Manufacturers' Organization, Adviser & Patron, Central Siddha Medical Council, Madras; Adviser, Carbonink-Products, Podanur; G.M.S. Radio Factory; G.M.S. Blade Factory, G.M.S. Works, India Radiators, The Armature Winding Works, Coimbatore; Pres., South India Centre of the India Society of Engineers (M.I.S.E.); Industrial Labour Welfare Assoc. Ltd., Coimbatore; Director of several Transport Companies in Coimbatore. *Clubs:* Cosmopolitan Club, Madras and Coimbatore; Lawley Institute, Ooty; South Indian Athletic Assoc. (Madras). *Recreations:* Gardening, Practical Industrial Education to students. *Address:* "Gopal Bagh", Avanashi Road, Coimbatore.



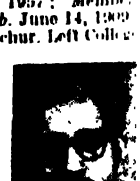
NAIK, Vasantrao Phulsing, B.A., LL.B., Minister for Agriculture and Aarey Milk Colony, Govt. of Bombay, since April 1957. *b.* July 1, 1913, at Gahuli, Yeotmal Dist.; *Educ.:* Neil City High School, Nagpur; graduated from Morris Coll. now known as Nagpur Mahavidyalaya; passed Law from Univ. Coll. of Law, Nagpur. Was recipient of Social Education Commemoration Certificate; was Pres.: Pusad Municipal Cttee.; Pusad Agricultural Assoc., 1943-47; Pusad Harijan Free Boarding; Dy. Minister in the old M.P. Govt.; has been member, Vidarbha Pradesh Congress; Director, M. P. Co-operative Central Bank, 1951-52; elected M.L.A., M.P. in 1952 General Elections; was Deputy Minister for Revenue, M.P. Ministry; was Chairman, former M.P. Housing Board; was also Dy. Chairman, M.P. Land Reforms Committee; was Chairman, Metric Cttee. appointed by the M.P. Govt.; Minister for Co-operation, Bombay, Nov. 1956-April 1957. Member, A.I.C.C. *Address:* "Dunvegun", Mount Pleasant Road, Malabar Hill, Bombay.

NAIR, K.P. Madhavan, B.A., B.L., Ex-General Secretary, All India Congress Committee; M.P. *b.* Nov. 20, 1905; *Educ.:* Parur and Trivandrum. Practised law for some time *Address:* Ernakulam Mills Building, Ernakulam; 26, Queen Victoria Road, New Delhi

NAIR, N. Sreekantan, M.A., Politician and Trade Union Worker, General Secy., Revolutionary Socialist Party, 1953-57, Member, Central Secretariat of the R.S.P.; Secretary, Kerala Committee of the Party. *b.* July 15, 1915. *Educ.:* Arts Coll., Trivandrum; passed M.A. March 1938 Joint Secy., the All Travancore Youth League (1937); joined Travancore State Congress (1938), first arrest and conviction, 1938, detained in 1939 for 10 months; Working Cttee. Member, Trav. State Congress, 1942 & resigned and joined Congress Socialist Party, 1946; resigned from C.S.P. and started U Kerala Socialist Party, Sept. 1947, merged into the Revolutionary Socialist Party, 1950 M.P. (Lok Sabha), 1952-57. *Publications: The Chinese Puzzle*—English, several literary and political treatises in Malayalam. *Recreations:* Table Tennis, Cards *Clubs:* Town Club, Ambalapuzha, Kerala Club, New Delhi *Address:* Chirajaramulu Veedu, Ambalapuzha, Kerala State, *Office:* Revolutionary Socialist Party Kerala Committee Office, Quilon, Kerala.

NAIR, Vallillath Madhathil Madhavan, B.A. (Hons.) (Madras) B.A. (Hons.) (Oxford) B.A. (Hons.) (Cantab.), M.A. (Cantab.), Bar-at-Law, Indian Advocate in Calcutta *b* Oct 8, 1919; *Educ.:* Board High School, Cherpalcherri; Wardlaw High School, Bellary; B.A. (Hons.) from Presidency Coll., Madras, 1939; B.A. (Hons.) from Brasenose Coll., Oxford, 1941; B.A. (Hons.) from Gonville and Caius Coll., Cambridge, 1949; called to the Bar, Inner Temple, London, 1950 Asstt. Collector, Arrah, Bihar; Sub-Divisional Officer, Sitamarhi, Bihar; under-Secy. Ministry of External Affairs, New Delhi, First Secy., Embassy of India, Cairo; Dy. Secy. Ministry of External Affairs, New Delhi, Deputy High Commissioner and later Acting High Commissioner in Ceylon, Commissioner for India in Singapore; High Commissioner in Malaya. *Recreations:* Tennis, Swimming *Club:* Gymkhana Club, Madras *Address:* C/o Ministry of External Affairs, New Delhi

NAMBOODIRIPAD, E. M. S., Chief Minister Kerala State, since April 1957; Member Central Exec Cttee., C.P.I. *b.* June 14, 1909 *Educ.:* St. Thomas' Coll., Trichur. Left College while in B.A. Class to join 1932 Civil Dis-obedience; formed along with others Congress Socialist Party in Kerala, 1934; joined C.P.I. later; Secy., Kerala Provincial Congress, 1938-40; Congress M.L.A., Madras, 1939-40; Member, Central Committee, C.P.I. from 1943; Member, Politbureau, from 1950; Acting Genl. Secretary, June-Dec. 1953, July-Dec. 1954 and 1955- elected to the Kerala Leg. Assembly in



General Elections, 1957. *Publications :* Many books in Malayalam and in English ; *Short History of Peasant Movement in Kerala ; Peasant Question in Kerala ; National Question of Kerala ; On Agrarian Question ; Food, Achilles Heel ; Peasant in National Reconstruction ; Two Policies on Agrarian Question ; Social Democracy and Communism ; On Organisation* (in English). *Address :* Cliff House, Trivandrum, Kerala State.

NANAVATI, Romesh Chandra Motilal, F.C.I., F.F.C.S., F.A., F. Com. Sc. A., F. R. Econ. S., F. S. S. (London), M. Econ. S. (Chicago), Public Accountant & Auditor, Corporate Secretary & Consulting Economist ; Proprietor, R. C. M. Trading Corporation ; Partner, Arc Shipping Corporation. *b* Jan. 25, 1908 ; *Educ. :* Esplanade High School, Bombay ; Theosophical College, Madras. Obtained Fellowships of the Commercial Institute, Birmingham, the Faculty of Secretaries Ltd., Guildford, Faculty of Auditors, Ltd., London, and the Association of Commercial Science, Hull (England) Elected Fellow of the Royal Economic and the Royal Statistical Societies of London in 1935 ; appointed Assistant Registrar for India of the Faculty of Secretaries Ltd., in 1936 ; member, American Management Assoc. and British Institute of Management, received by Their Majesties King Carol of Rumania, King Boris III of Bulgaria (1936) and the Governor-General of Australia (1934), Secy. to His Highness the Maharana of Dharampur, 1928-38 ; recipient of the International Honour of the Order of Officer of L'ordre Universal du Merite Humain of Switzerland (1938) ; awarded H.M. King George V Silver Jubilee and H.M. King George VI Coronation Medals ; Travel Solicitor to The American Express Co., Inc. (1938-39) ; Political and Foreign Secretary, Senior member, State's Executive Council and Vice-Pres., State's Legislative Assembly (Raj Praja Parishad), Nagod State, C.I., 1940-43 ; Manager, Famous Cine Laboratories and Studios Ltd., 1944-47 ; was responsible for planning and bringing into existence Asia's largest Cine film processing Laboratories and Studios ; Constitutional & Economic Adviser, Nagod State (1946-48) ; practising as consulting Economist and Business Adviser since 1947 ; visited Europe several times, cruising as far as Spitzbergen, Australia, New Zealand, Tasmania, Str. Settlements, China, Japan and Ceylon. *Publications :* A *Few Freelances Address : Residence :* "SMRITI", 13th Road, Khar, Bombay 21 ; *Office*, Thacomal House, Cowasji Patel Street, Fort, Bombay 1.



NANAVATI, Someschandra Manilal, Industrialist *b* Aug. 23, 1909 ; *Educ.*, Sydenham College of Commerce Has made exhaustive study of the Silk and Art Silk Industry started the National Art Silk Mills Ltd. in Bombay, 1938 ; travelled extensively in Japan, Switzerland, Holland, France, England, etc., member, Managing Cttee. of Indian Merchants' Chamber, Bombay, member, Mg Cttee., Indo-Japanese Assoc., Bombay. Director, Silk and Art Silk Mills Assoc. Ltd., Bombay. *Clubs :* Willingdon, C.C.I., Radio Club. *Address :* "Leela," Juhu, Bombay 23.

NANDA, Air Vice-Marshal Diwan Atma Ram, Deputy Chief of the Air Staff, Indian Air Force, since May 1958. *b.* July 27, 1914. Commissioned in the Indian Army, 1935 and posted to the 1st Punjab Regiment. Seconded to the I.A.F. and served with No. 1 I.A.F. Squadron, Sept. 1938 ; as Flight Commander, formed No. 3 Squadron and subsequently became its Commanding Officer ; saw active service on the North West Frontier and successfully carried out operations in Sind against the Hurs ; was highly commended by the then C-in-C Field Marshal Lord Wavell ; had his Staff Coll. training at Quetta ; was given after partition command of the I.A.F. Base Repair Depot at Kanpur, the largest maintenance unit in India ; appointed Director of Organisation and Establishment at Air HQ ; promoted Air Commodore and appointed one of the three Principal Staff Officers at the re-organised Air HQ as head of the Personnel and Organisation Branch, 1948 ; Air Officer Commanding, Operational Command, controlling all front-line units in the I.A.F. 1952-56 ; selected to attend a course at the Imperial Defence Coll., 1956 ; Air Officer on Special Duty at Air HQ till May 1958. *Address :* Air Headquarters, New Delhi.

NANDA, Gulzari Lal, B.A. (Hons.) in English (1918), M.A., LL.B (1920), Minister for Labour, Employment & Planning Govt. of India, since April 1957 Member, National Planning Commission since 1950. *b.* July 4, 1898 ; *Educ. :* Forman Christian Coll., Lahore, Agra Coll., Agra ; Research Scholar, Allahabad Univ. Joined the non-co-operation movement, 1921 ; Professor of Economics, National Coll., Bombay ; Parl. Secy., Govt. of Bombay (Labour & Excise), 1937-39 ; Labour & Housing Minister, Govt of Bombay, 1946-50, Secy., Textile Labour Association, Ahmedabad 1922 to 1946 ; member, National Planning Cttee ; Imprisoned for Satyagraha, 1932, 1942-44 ; Trustee, Kasturba Memorial Trust ; Secy., Hindustan Mazdoor Sevak Sangh ; Chairman, Bombay Housing Board, 1946-48 ; Chairman, Standing Cttee. of the Ahmedabad Municipality, 1940-42 ; went to Geneva as a Govt. delegate to the 30th Session of the International Labour Conference in June-July 1947, worked on "Freedom of Association Cttee.", appointed by I.L.C., visited Sweden, France, Switzerland, Belgium and England and studied the labour and housing conditions there ; largely instrumental in organising Indian National Trade Union Congress in May 1947, appointed a substitute Govt. Delegate, Asian Regional Conference, Oct. 1947, elected member, Economic Programme Cttee. of the All-India Congress Cttee. ; Leader, Indian Delegation to the Colombo Plan Consultative Cttee., Singapore, 1955, Chairman : Jt. Consultative Board, Labour and Housing Panels ; Bharat Sevak Samaj ; Advisory Cttee., Bharat Sadhu Samaj, Minister for Planning 1951 ; Minister for Planning, Irrigation and Power 1952-57 *Publications, Some Aspects of Khadi ; History of Wage Adjustment in the Ahmedabad Textile Industry, Approach to the Second Five Year Plan : Some Basic Considerations* (Aug 1955). *Address :* No. 6, Hastings Road, New Delhi.



NANJAPPA, Venkata Subramani Iyer, Capt. A.I.R.O., B.Sc. (Hons.) (Mysore), I.C.S., Officer on Spl. Duty, Atomic Energy Dept., since March 1958. *b.* Jan. 26, 1911 ; *Educ.*, Central Coll., Bangalore ; Univ. Coll., London ; Jesus Coll., Oxford Entered I.C.S., 1934 ; posted as Asstt. Collector, Jalgaon, East Khandesh ; joined the Army during World War II, 1940-43 ; Collector and Dist. Magistrate, Nasik and North Kanara districts ; appointed Administrator, Kolhapur State, 1948, Chief Commissioner, Cooch-Behar State, 1949-50 ; Special Commissioner, Telangana, Hyderabad State, 1950-51 ; Chief Commissioner, Tripura, 1951-55 ; Textile Commsnr., 1955-58. *Recreations :* Riding, Tennis, Swimming, etc. *Address :* Old Yacht Club, Bombay 1.

NANJI, Dr. Homi Ruttonji, B.Sc. (Bombay), Ph.D. (Lond.), B. Pharm. (Lond.), F.R.I.C., F.R.S.A., Managing Director, Italab Private Ltd. ; Director, Pharmed Private Ltd. Member, the Pharmacy Council of India and its Vice-Pres. ; member, Drugs Technical Advisory Board and Development Council (Drugs and Pharmaceuticals) ; Pres., Indian Pharmaceutical Assoc. *b.* December 2, 1909. *Educ.*, Institute of science, Bombay ; Imperial Coll of science and Technology, London *Publications :* Several publications in Chemistry and Biochemistry *Recreations :* Hockey, Cricket. *Clubs*, W.I.A.A. Club ; Willingdon Club, Radio Club, Ripon Club. *Address :* 'Sea View', 13, Pali Hill, Bandra, Bombay 20.



NARASIMHAM, Mr. Justice Ramaswamy Lakshmi, M.A. (Madras), B.A. (Hons.) (Oxford), Diploma in Economics (Madras), I.C.S., Chief Justice, Orissa, since March 1956. *b* Sept. 27, 1906, *Educ.*, Presidency College, Madras and New College, Oxford. Joined the Indian Civil Service, Bihar & Orissa, 1931 ; after holding various administrative posts, joined the Judiciary, March 1939 ; officiated as Deputy Secretary, Legislative Department, Govt. of India, May-Sept. 1945 ; Law Secy. to the Govt. of Orissa, Oct. 1945-June 1948 ; Judge, Orissa High Court, 1948-56. *Recreation :* Tennis. *Club :* Cuttack Club. *Address :* Cuttack.

NARASIMHASWAMY, K. S., Kannada Poet. *b.* Oct. 11, 1902 ; *Educ.*, Bihar and U.S.A. Founder Secy., Socialist Party (India), Head of Labour Dept., Indian National Congress, 1931 ; imprisoned on several occasions ; was member, Congress Working Cttee., resigned membership due to difference of opinion with the Congress ; Ex-Pres., All-India Railwaymen's Federation, made a statement in Oct. 1957 that he had finally renounced politics *Address*, Kadam Kuan, Patna 3, Bihar.

NARAYAN, Jayaprakash, Bhoodan worker. *b.* Oct. 11, 1902 ; *Educ.*, Bihar and U.S.A. Founder Secy., Socialist Party (India), Head of Labour Dept., Indian National Congress, 1931 ; imprisoned on several occasions ; was member, Congress Working Cttee., resigned membership due to difference of opinion with the Congress ; Ex-Pres., All-India Railwaymen's Federation, made a statement in Oct. 1957 that he had finally renounced politics *Address*, Kadam Kuan, Patna 3, Bihar.

NARAYAN, Shriman, M.A. (English), M.A. (Economics), Member, Planning Commission, since July 1958 *b* June 15, 1912 ; *Educ* A. P. Mission High School, Mainpuri, Agra Coll., Agra, Univ. of Allahabad Principal, Commerce Coll., Wardha, 1940-51, Dean, Faculty of Commerce, Nagpur Univ., since 1950 ; member : Ex Cttee., All India Hindustani Talimi Sangh, Sevagram ; All India Khadi & Village Industries Commission, Central Advisory Cttee., National Cadet Corps, Trustee, Hindustani Prachar Sabha, Wardha, Chairman : Planning Commission's Prohibition Enquiry Cttee., Standing Cttee on Basic Education ; General Secretary, Indian National Congress ; is a staunch advocate of the establishment of a casteless society, dropped Agarwal from his name as his first contribution towards the establishment of a casteless society ; *Publications : Fountain of Life* (Poems) ; *Gandhian Plan of Economic Development of India ; Gandhian Constitution for Free India ; Medium of Instruction ; The Two Worlds ; One Week With Vinoba ; Amar Asha, Manav ; Roti Ka Rang* (Collection of Hindi Poems) ; *Jugnoo*, (Hindi Essays) ; the first of the books mentioned above has an appreciation by Rabindranath Tagore and a foreword by the philosopher

Dr. Radhakrishnan, the Vice-President of the Indian Republic; the second, third and fourth books have forewords by Mahatma Gandhi. *Recreations :* Gardening. *Address :* 2, Ferozshah Road, New Delhi.

NARAYANAN, K. P., M.A. (Madras), Editor, *Madhya Pradesh Chronicle*, English Daily, Bhopal; Representative of the *Hindu* (Madras), at Bhopal. *b.* June 14, 1909; *Educ.:* St. Thomas' Coll., Trichur; Presidency Coll., Madras. Asstt. Editor, 'Insurance Review', Lahore, 1933; Asstt. Editor, 'Daily News', Nagpur, 1935; member, Standing Ctte. of A.I.N.E.C. and of Prov. Press Advisory Ctte. for number of years; former Editor, *Nagpur Times* and *Janata*; Pres : Working Journalists Union, M.P., 1952; M.P. Branch of Editors Conference, 1953; member, Railway Users Consultative Ctte. (Divisional), 1953-56. *Club :* Rotary Club, Nagpur. *Address :* "Brindavan", Swami Rao's Bungalow, Civil Lines, Bhopal.

NARENDRA, Kumar, M.A. (Punjab), Editor, *Daily Pratap*, New Delhi and Jullundur, and *Vir Arjun*, New Delhi. *b.* April 24, 1914; *Educ.:* Govt. Coll., Forman Christian Coll., and Law Coll., Lahore. Joined the *Pratap*, 1939; Hon. Treasurer, Indian and Eastern Newspaper Society. *Recreations :* Music; Tennis. *Clubs :* Chelmsford Club and National Sports Club of India, New Delhi. *Address :* 6, Keeling Road, New Delhi.

NAROLA, Dr. Kailas Narain, M.B.B.S. (Bombay), Deputy Minister, Public Health, Govt. of Bombay, since April 12, 1957. *b.* Dec. 12, 1910, at Sirohi. *Educ.:* Maharaja High School and Maharaja's Coll., Jaipur, 1924-30; Grant Medical Coll., Bombay, 1931-36; took M.B.B.S., 1937. Started medical practice, 1938; Congress member, since 1942; Pres : Uttar Bharatiya Sahyogi Bhandar, Marwari Mitra Mandal; Bharat Sevak Samaj, Kalbadevi Road Branch, Bombay and several other social bodies; Vice-Pres., Hindi Sahitya Sammelan; Rajasthan Kala Kendra etc., was member: Bombay Municipal Corporation, 1948-52; Bombay Univ. Senate; Ex-Ctte., Rashtra Bhasha Pracar Samiti; Chief Patron, Young Men's Free Night High School; interested in co-operative movement; member, Chief Prohibition Advisory Board, Bombay Govt.; served on a Special Ctte. of the Bombay Govt. on Hot Springs to develop them into health resorts, re-elected M.L.A., Bombay from Dhobi Talao Constituency in Greater Bombay, 1957. *Recreations :* Football, Hockey, Badminton, Classical Music. *Clubs :* National Sports Club of India. *Address :* 198, Jamshedji Tata Road, Churchgate, Bombay, A-10, Foreshore Road, Bombay 1.

NASKAR, Purnendu Sekhar, M.A. (History), Deputy Minister for Rehabilitation Govt of India *b* March, 1921; *Educ.:* Calcutta Univ. Elected to the Lok Sabha from W. Bengal (Diamond Harbour Constituency), 1952 and again in 1957; Member, Indian Delegation to U. N. General Assembly, 1954 and 1955; Parliamentary Secy. in the Works, Housing and Supply Ministry, Govt of India; later Parliamentary Secy. in Rehabilitation Ministry. *Address :* 72, Adighata Main Road, Calcutta 13; Ministry of Rehabilitation, New Delhi.

NASKER, Hem Chandra, Minister-in-Charge of Forests & Fisheries, West Bengal, since April 1947. *b.* Dec. 14, 1889; *Educ.:* Bangabasi School & Coll., Calcutta. Elected a Commissioner of the Maniktolla Municipality, 1916; after a few years became Councillor, Calcutta Corporation; elected an Alderman, Calcutta Corporation, 1924, became a staunch disciple of Deshbandhu Chittaranjan Das and fully devoted himself to the cause of the country; elected Deputy Mayor, 1936 and Mayor, 1942; elected member, Bengal Leg. Council, 1921-29; elected member, Bengal Leg. Assembly, 1937; again elected in the 1957 General elections; is a social worker; takes active interest in the amelioration of his community; is mainly responsible for great improvement in the condition of allied communities educationally, socially, and politically; is closely connected with many literary and social institutions in and outside Bengal. *Address :* "Nasker Lodge", 72, Beleghata Main Road, Calcutta 10.

NATEKAR, Nandkumar Mahadeo, Leading Badminton Player. *b.* May 12, 1933; *Educ.:* had his schooling at Sangli; is doing Economics (Hons.) at Ruia College. India's No. 1 Badminton player for 1953 and 1954; did not defend title, 1955; toured England and America and played in all championships, 1954; represented India in Thomas Cup series, 1954-55; Triple Crown holder in the Western India, C.C.I. and Bombay Univ. Badminton Championships; Triple Crown holder again in the Western India, C.C.I. and the Inter-collegiate championships, 1956; holder of the Men's Singles in the Selangor open Badminton championships at Kuala Lumpur in Malaya, 1956; Ranked No. 2 in Singles for 1956, during 1957 participated in the 'Merdeka' Championships at Kuala Lumpur; represented India against Thailand at Bangkok; runner-up to Eddy Choong in Singles in the Western India and the C. C. I. Championships and in Mixed Doubles in partnership with Miss Shashi Bhat. *Recreations :* Badminton in particular and Sports in general. *Clubs :* C.C.I.; Hindu Gymkhana. *Address :* 21 A, Sitaram Buildings, Hornby Road, Bombay 1.

NATH, Prof. Dr. Madhab Chandra, D.Sc., F.N.I., F.R.I.C., F.I.C., Chitnavis Professor & Head of the Department of Biochemistry, Nagpur University, Nagpur, since 1946 *b.* Oct. 1905 at Hashara, Dacca, *Educ.:* Jagannath Intermediate Coll., Dacca, Univ. of Dacca; Lady Tata Memorial Scholar, 1934-37. Lecturer in Physiological Chemistry, Dacca Univ., 1937; awarded Elliot Prize for Chemistry for 1941 by the Royal Asiatic Society of Bengal; elected member of the American Association for the Advancement of Science, Washington, 1948; elected member, Soc. Expt. Biol. and Med., New York, 1950; is connected with several Scientific Societies, Learned Bodies, etc. *Publications :* 95 original papers on various problems of Bio-chemical importance published in India and outside, *Carbohydrate metabolism with special reference to the cause, theory, prevention and treatment of diabetes; Biosynthesis of Vitamins; Steroids, Enzymes, Nutrition, etc., etc. Address :* Nagpur University, Nagpur.

NATH, Ram, M.A. (Allahabad), Deputy Governor, Reserve Bank of India. *b.* Nov. 18, 1903; *Educ.:* Allahabad Univ. Joined the State Bank of India, 1925; services transferred to the Reserve Bank of India, 1935; Secy., Reserve Bank of India, 1943-48; M.L.A., Centre, 1945-47; member: first Indian Delegation on Sterling Balances, Jan.-Feb. 1947; Indian Delegation to the Second Annual Conference of the International Monetary Fund and the International Bank for Reconstruction and Development, Sept. 1947; Ctte. appointed by Govt. to report on the application of profit-sharing to Industry, 1948; Managing Dir., Industrial Finance Corporation of India, 1948-51; Pres., Session of the International Credit Conference in Rome, Oct. 1951; member, Company Law Advisory Commission, Jan. 1, 1955. *Recreation :* Walking. *Clubs :* Calcutta Club; Willingdon Sports Club, Bombay; Delhi Gymkhana Club. *Address :* Reserve Bank of India, Bombay.

NATU, Gangadhar Laxman, Industrialist and Millowner, Bombay and Madhavnagar. *b.* Jan. 15, 1890; *Educ.:* Malwan and Thana. After matriculation joined railway service as a clerk; permanent clerk, Customs Deptt., 1919; left service and entered business as a dealer and agent in textile goods, handloom cloth, etc.; started the Swastik Silk Mill in Bombay in co-operation with a colleague, 1931; opened a dye-house, 1939; started the Madhavnagar Cotton Mills at Madhavnagar as a result of concessions extended by the then Ruler of Miraj Jr. State, 1944; gave oral evidence before Textile Inquiry Ctte. and strongly advocated the cause of weaving industry in the Deccan, was one of the prominent founders of The Deccan Manufacturers' Assoc., Sangli; Pres., Maharashtra Chamber of Commerce, Poona, 1953-54; is member, Bombay State Electricity Board; takes keen interest in industrial expansion and productive activities; devotes some of his time to religious and spiritual thought and study. *Address :* Madhavnagar Cotton Mills Compound, Madhavnagar (Dist. Satara); C/o New Citizen Bank Building, 2nd floor, Pallon Rd., Bombay 1.



NAWANAGAR : Lieut.-General His Highness Maharaja Jam Shree Digvijaysinghji Ranjitsinghji Jadeja, G.C.S.I. (1947), G.C.I.E. (1939), K.C.S.I. (1935), the Maharaja Jamsaheb Bahadur of, was Rajpramukh of Saurashtra till that State merger in Bombay on 1st Nov. 1956. *b* Sept. 1895; *Educ.:* Rajkumar Coll., Rajkot; Malvern Coll. and Univ. Coll., London. Succeeded to the *Gadi*, April 1933; Chancellor, Chamber of Princes, 1937-44; Capt., late 5th 6th Rajputana (Napier's) Rifles; saw active service with the Egyptian Expeditionary Force, 1915, and with the Waziristan Force, Jan. 1920-21; Major, 1936; Colonel, 1942; Lieut.-General, 1948; was elected Rajpramukh of the constitutional head of the United State of Saurashtra, Feb. 15, 1948 and held the office of Rajpramukh, 1949; visited the Middle East, 1941; represented Indian Princes on the Imperial War Cabinet and Pacific War Council in London, 1942; Indian delegate at the Annual Sessions of the General Assembly of the U.N.O. at Paris in Sept.-Dec. 1948 and at the 4th Session of the General Assembly of the U.N.O., Flushing Meadows, Lake Success in Sept.-Dec. 1949; again at the 5th Session, 1950; elected member and then Chairman, U.N. Administrative Tribunal at Lake Success, 1950, July-Aug. 1951; at Paris, Dec. 1953; Chairman, Budgetary Ctte., 1950; elected Chairman, U.N. Negotiating Ctte. for Korean Rehabilitation; elected member, Council of the I.A.Y. Benevolent Assoc., New Delhi. Specialised in Lewis Gun, Machine Gun, Searchlight work and tactics. *Recreations :* Rackets, Cricket, Squash, Tennis, Shooting, Hockey. *Clubs :* Marlborough; Willingdon Sports Club, Bombay; National Sports Club of India, New Delhi; Jamnagar Rotary Club. Patron-in-Chief : Jamnagar Rifle Club, Seaplane Sports Club. *Address :* Palace, Jamnagar.

NAYAR, Dr. Sushila, M.B.B.S., M.D., Dr. P.H., M.P. (Lok Sabha) from Jhansi; Minister, former Delhi State; now in active practice, medicine and pediatrics. *Educ.:* Lahore; for Women, Lahore; Lady Hardinge Med. Coll., Delhi, M.B.B.S.; Johns Hopkins, U.S.A. (Baltimore Md.), Dr. P.H.; Edward Medical Coll., Lahore, M.D. Medical attendant to Mahatma Gandhi and the Ashram; Rural medical work at Sevagram and in Noakhali; Communal Harmony, social work in Noakhali, East-West Pakistan and Delhi; Chief Medical Officer, Faridabad. Specialisation in Pediatrics; was Minister, Health, Rehabilitation and Transport, State; was Speaker, Delhi Legislative Assembly; elected 1st Vice-Chairman, Commission of U.N. and Pres., Asian Moral and Social Hygiene in India, Pres., Bharatiya Grameen Mahila Sangh, Pres.: S.P.C.A., Delhi; U.N. Assoc.,

Delhi State Council for Child Welfare and some other local organizations. *Publications:* *Kasturba, Karavas Kikaham*, various articles on Gandhian thought or medical subjects. *Recreations:* Painting, writing, etc. *Address:* 19, Rajpur Road, Delhi.

NAYUDU, Mr. Justice Canakapalli Sanjeeva Row, B.A., B.L., Rao Sahib (1941), Judge, Andhra Pradesh High Court, Hyderabad, since March 13, 1958. *b.* March 8, 1906; *Educ.:* Pachaiyappas High School, Madras; B.A. from Presidency Coll., Madras, 1926; B.L. from Law Coll., Madras, 1928; Advocate, Madras High Court, since 1929; Senior Advocate, Supreme Court of India; practised in the Supreme Court, 1950-March 11, 1958; Public Prosecutor and Govt. Pleader, Madras State, 1935-43; served as a King's Commissioned Officer during the last war on the Assam Burma front, 1943-45, served in the Judge Advocate General's Deptt., 1945-50; Judge-Advocate, Indian Navy, New Delhi, 1950-1958. *Publications:* *Handbook of Military Law.* *Recreations:* Tennis and gardening. *Clubs:* Delhi Gymkhana Club, Defence Services Club, New Delhi. *Address:* 'Akash', Road 12, Banjara Hills, Hyderabad.

NEHRU, Braj Kumar, B.Sc. (Allahabad), B.Sc. (Econ) (London), I.C.S., Secretary, Department of Economic Affairs, Ministry of Finance, Govt. of India.* *b* Sept 4, 1909, *Educ:* Allahabad University; London School of Economics; Balliol College, Oxford, Inner Temple. Joined the I.C.S., 1934, Assistant Commissioner, Punjab, 1934-39, Under-Secretary to the Govt of India, Dept of Education, Health and Lands 1939 Officer on Special Duty, Reserve Bank of India and Under-Secy., Finance Dept., 1940, Dy. Secy., 1944; Joint Secy., 1947, Secy., 1957, Executive Director, International Bank for Reconstruction & Development, and Minister, Indian Embassy, Washington, 1949-54; represented India at the Reparations Conference, 1945, Commonwealth Finance Ministers' Conference, 1949-50, 1955-56, United Nations General Assembly, 1949-52, Food & Agricultural Organisation, 1949-50, Sterling Balance Conferences, 1947-48-49 and at the Bandung Conference, 1955, deputed to enquire into Australian Federal Finance, 1946; and to advise the Govt of the Sudan, 1955; member, U.N. Advisory Ctte. on Administrative and Budgetary Questions, 1951-53. *Recreations:* Bridge, Reading and Conversation. *Club:* Delhi Gymkhana. *Address:* Ministry of Finance, Govt. of India, New Delhi.

NEHRU, Jawaharlal, M.A. (Cantab.), Bar at Law, Bharat Ratna (1954), Prime Minister of India and Minister for External Affairs, since 1947; in charge of Department of Atomic Energy; Defence Minister, 1953, 1954 and 1957; Finance Minister, February to March 1958. *b.* Nov. 14, 1889, at Allahabad; *Educ.:* Harrow School, Trinity Coll., Cambridge (M.A.); Barrister-at-Law, Inner Temple, 1912. Advocate, Allahabad High Court; Secy., Home Rule League, Allahabad, 1918, member, A.I.C.C., since 1918; joined non-violent non-co-operation movement under Gandhiji, 1920; associated with labour and nationalist movements, imprisoned on several occasions for political activities; General Secy., A.I.C.C., 1929; elected and took over from his father as Pres., Indian National Congress, 1929; re-elected Pres. in 1936, 1937, 1946, 1951-54; Pres., All India States Peoples' Conference and Chairman, National Planning Ctee., 1939; Vice-Pres., Interim Govt. and Minister for External Affairs and Commonwealth Relations, India, 1946; Member, Constituent Assembly, Provisional Parliament and first Lok Sabha; elected to the Lok Sabha on Congress ticket from Phulpur Constituency, Uttar Pradesh, 1957. *Publications:* *India and the World; The Unity of India; Soviet Russia; Eighteen Months in India*, 1936; *Autobiography*, 1936; *Glimpses of World History*, 1939; *Discovery of India*, 1946; *Independence and After*; *Jawaharlal Nehru's Speeches*, 1949-53. *Address:* Prime Minister's House, New Delhi; *Permanent Address:* "Anand Bhavan," Allahabad.



NEHRU, Shrimati Rameshwari, Padma Bhushan (1955), Hony. Adviser and President, Central Advisory Board for the Rehabilitation of displaced widows, unattached women, the old and infirm and their dependants, the Central Ministry of Rehabilitation. *b.* 1886; *Educ.:* Privately. Edited Women's Magazine *Stridharpan* from 1909; Founder-President, Delhi Women's League, 1926; Member, Age of Consent Ctee., 1928; toured England and Continent, 1930-32 and collaborated with League of Nations at Geneva, 1931; President, All-India Women's Conference, 1940; Vice-President, Kasturba Gandhi National Memorial Trust; Pres., Children's Aid Society, Lahore, 1946, and Delhi, from 1947; Pres., The Assoc. for Moral & Social Hygiene in India; led the Indian Delegation to an *ad hoc* Conference convened at Stockholm, June 1954, by certain important individuals belonging to various countries, for promoting relaxation of international tension and for strengthening world peace; presided over a non-official African-Asian Conference held in New Delhi about African and Asian problems; led a non-official delegation to the World Conference, against A. & H. Bombs and for disarmament at Tokyo, August 1957; toured China as the leader of a delegation sent by the Afro-Asian Solidarity Committee of India of which she is the President. *Publications:* *Gandhi is my Star* collection of speeches and writings, edited by Prof. Somnath Dhar. *Recreation.* Work. *Address:* 8, Lodi Road Estate, Cornwallis Road, New Delhi

NEHRU, Ratan Kumar, B.A. (Oxon.), Indian Ambassador to the United Arab Republic since May 1958. *b.* Oct. 10, 1902; *Educ.,* Allahabad and Oxford. Joined I.C.S., 1925, Dy. Commsr., M.P.; Deputy Secretary to Govt. of India, Collr. of Customs, Bombay (1936) Commissioner, Central Excises, Northern India (1939-42); Joint Secretary, Supply and Commerce (1942-46), Leader, Indian Delegation to International Trade Conference, London (1946); Representative on U. N. Commissions (1947); Additional Secy., Finance (1947); Chairman, C.B.R. (1947); Secretary, Communications Ministry (1947); Minister in Washington (1948); Ambassador of India, Envoy Extraordinary and Minister Plenipotentiary of India in Sweden, Finland and Denmark till Sept. 1951; Delegate to 6th Session of U.N. General Assembly; was Foreign Secretary, Govt. of India; Ambassador to China Oct 1955-May 1958. *Recreations* Hiking, Tennis *Clubs:* International Club, Stockholm and Peking, and Gymkhana Club, Delhi. *Address:* C/o External Affairs Ministry, New Delhi.

NEOG, Dr. Maheswar, B.A. Hons. (English) (Calcutta), M.A. First Class First (Calcutta), D. Phil. (Gauhati), Poet, essayist, art and literary critic; Reader in Postgraduate Deptt. of Assamese Language and Literature, Gauhati Univ., since July 1957. *b.* 1918; *Educ.:* Sibsagar, North Lakhimpur and Jorhat Govt. High English Schools; Gauhati Cotton Coll., Teacher, High English Schools (1939-44); Office Secy. and Supdt. of the Gauhati Univ. Trust Board, 1944-47; Editor, *Ramdhenu*, 1950-51; *Jhankar*, music journal, 1953-54; Asstt. Director, Literary Workshop for Eastern Zone, under the Ministry of Education, at Santiniketan, June-July 1954; Director, Literary Workshop, Shillong-Gauhati, Feb.-April 1957; member: Assam Sahitya Sabha; Ex. Board and General Council of Assam Sangeet Natak Akademi; Govt. of Assam's nominee on the General Council of the Central Sangeet Natak Akademi; member, the Central Sahitya Akademi; is associated with several research institutes in India and the All India Oriental Conference; Lecturer, Postgraduate Deptt. of Assamese Language & Literature, Gauhati Univ., 1948-57; Leader, Gauhati Univ Contingent to all the 1st four Inter-Univ. Youth Festival, New Delhi, 1954-57. *Publications:* *Sankaradeva* (literary biography); *Dawarar Sopare Dhuniya Desh* (stories of Greece & Rome for children); *Sankaradeva and His Predecessors* (in English); critical editions of old Assamese texts, *Bhaktipradipa, Kirtana-ghosha*, etc.; contributes to leading research journals. *Recreations:* Music, drama and dance. *Address:* Gauhati University, Gauhati (Assam).

NEOGY, Kshitish Chandra, Ex-Member, Planning Commission *b* 1888 *Educ* Presy. Coll., Calcutta, Dacca Coll. some time a member of the All-India Council of the Nat. Lib. Fedn.; elected member of the Dacca Univ. Court, 1921-24; member, (Central) Legislative Assembly, 1921-34; re-elected 1942, Adviser to the Indian States Delegation to the Three Round Table Conferences in 1930-31; Dewan of Mayurbhanj State in Eastern States group, 1935-40; Political Adviser, Mayurbhanj State, 1940-47; member, Standing Ctee. of Ministers of the Chamber of Princes, 1940-42; Chairman, Committee of Ministers of the Council of Rulers, Eastern States, 1940-42; Member, Central Assembly, 1946 to 15th August, 1947; Member, Human Rights Commission (U.N.O.), 1946; Chairman, Planning Advisory Board (Govt of India), 1946; Chairman, Indian Railway Enquiry Committee, 1947 (Government of India); Minister for Refugees and Rehabilitation, Govt of India, 1947, Minister for Commerce, Govt of India, 1948-50, resigned 18th April 1950; Chairman, Finance Commission, Govt of India, 1951-53 Member, Planning Commission, 1953-58. *Address:* New Delhi.

NEPALI, Gopal Singh, Hindi Poet and Film Song Writer. *b.* Nov. 17, 1919; *Educ.:* Bettiah Raj Institution, Dist Champaran, North Bihar. Joint Editor, *Chitrapat*, Hindi Weekly, Delhi (1934); Editor, *Ratlam Times*, Ratlam (1934-37); Editor, *Yogi*, Hindi Weekly, Patna (1937-39); Manager, Bettiah Raj Press, Champaran (1939-43); Song Writer, Film Industry, since 1944, composed songs for 50 pictures *Publications* *Panchhi, Umang, Ragini, Neelima, Panchhi* and *Nagin* (all poems). *Recreations*, Football *Address:* Chincholi, P.O. Malad, Bombay 46.

NICHOLS-ROY, The Rev. James, Joy Mohon, B.A., Ph.D., D.D., M.D.C., M.L.A., Ex-Minister, Excise, Jails, Registration and Stamps, Assam Govt. Christian Missionary *b.* June 12, 1884 at Shella Khasis Hills, Assam; *Educ.:* Duff Coll., Calcutta. Member, Assam Leg. Council, 1921-36; M.L.A., 1937-55, author of the Assam Students' Smoking Act, the Assam Temperance Act, the Opium Smoking Act, Minister of Local Self-Govt and Public Health, Excise and Registration, 1927-29; Chairman, Assam Opium Enquiry Ctee., 1934; Minister: Local Self-Government, Medical and Public Health, 1937-38; P.W.D., Forest, Industry and Co-operative Societies, 1946-47; P.W.D., 1947-April 1950; was member, Consultative Ctee. of the Congress Party in the Constituent Assembly, New Delhi; Member: Advisory Ctee. for Minorities, Sub-Ctee. for Excluded and Partially Excluded and Tribal Areas in Assam; A.-I.C.C., 1946-47; has travelled widely and visited Singapore, Japan, China, U.S.A., Canada, Honolulu and the British Isles, 1913-15; again from April 1943-Oct. 1945, visited Durban and Cape Town in South Africa, South America and Panama Canal, U.S.A., Canada and Australia. Member of the Constituent Assembly, 1946-50; Deputy Leader, Congress Legislature Party in Assam in 1950 and 1951; re-elected to the Assam Leg. Assembly from the Shillong Constituency in the general elections, 1952; again appointed Minister, Assam, Feb. 1952; has been responsible, as Minister, for the passing of the Assam Liquor Prohibition Act, 1953; Resigned from the Ministry on

* Now India's Economic Ambassador with Washington as headquarters.

15th Nov. 1956 and from the Congress in Jan. 1957; and re-elected to the Assembly as an Independent in the general election, 1957; elected member, District Council of the United Khasi-Jaintia Hills, Feb. 1958; conferred Hon degree of Ph.D. and also D.D. by the Assam Univ. and the International Cultural Sovereignty of Carson City in the State of Nevada, U.S.A. *Publications: Speech on Christianity; Hours with Jesus Christ; Life of Christ; Clarion Call to Christian Unity; Christian Unity; Hill Districts of Assam; Speech on the British Cabinet Mission Declaration; Ownership of Minerals in the Autonomous Districts in Assam*, etc., etc. *Address:* Shillong, Assam.

NIJALINGAPPA, Siddavvanahalli, B.A., LL.B., Ex-Chief Minister, Mysore ex-President, Karnatak Pradesh Congress Committee. *b.* Dec. 10, 1902. *Educ.:* Davangere, Chitaldrug, Bangalore and Poona. Enrolled as Advocate of the Mysore High Court, 1926; convicted for political offence, 1939, debarred from practice, 1940; political detenu, 1942-44 and 1947; member, Mysore Congress Working Ctte., 1939-51; Pres.: Mysore Pradesh Congress Ctte., 1945-46, K.P.C.C., 1946-54; member, Working Ctte of Parliamentary Board, Indian National Congress, and also of Working Ctte., I.N.C., 1948-53; Constituent Assembly, 1946-47; member: Parliament, 1952-56, Mysore Constituent Assembly, 1948-50, elected Leader, the Visha'a Mysore Legislature Congress Party, Oct. 21, 1956, Chief Minister, Mysore State, Nov. 1, 1956 May 8, 1958. *Recreations.* Tennis. *Address:* Vidhana Soudha, Bangalore.

NIJHAWAN, Bal Raj, B.Sc. (Met.) (Farman), Ph.D. (Met.) (England), F.I.M. (Lond.), F.N.I., Director, National Metallurgical Laboratory, Jamshedpur, since March 8, 1957; Ag. Dir., Feb 1956-March 1957. *b.* Sept. 22, 1915; *Educ.:* Punjab, Banaras and Sheffield (England). Worked in the Metallurgical Inspectorate of the Govt of India as Research Officer for about 7 years; joined the National Metallurgical Laboratory, Jamshedpur as Asstt. Director, March 1948; appointed Deputy Director, 1953, toured U.K. and the Continent on U.N. Fellowship, 1951, went to Australia as Govt. of India delegate to attend the Australasian Institute of Mining and Metallurgy, 1953; member: Indian Institute of Metals, British Iron and Steel Institute (U.K.), British Institute of Metals (U.K.); Indian Institute of Foundrymen; Member and Convener of various Ctees. of Indian bodies such as Sand Sub-Ctee, etc., Chairman, Ctee. on 'Indigenous Foundry Molding sands' of the Indian Institute of Foundrymen. *Publications.* About 100 research and technical review papers on metallurgical research and industrial subjects either singly or jointly. A joint paper on 'Structure of Graphite Spherulite' published in the Transactions of the Indian Institute of Metals in 1953, was adjudged the best paper of the year and as such received a 'Certificate of merit'. *Recreations:* Travelling. *Clubs:* Rotary Club of Jamshedpur and other Clubs. *Address:* Director, National Metallurgical Laboratory, Jamshedpur.

NILAKANTAN, V., B.E., Managing Director, Sindri Fertilizers and Chemicals Private Ltd *b.* sept. 9, 1902; *Educ.:* Trivandrum and Engineering Coll., Madras; took B.E. degree, 1925. Joined the G.I.P. Railway, on the Transport and Traffic side, 1926; worked in various positions both at the Headquarters and in the Divisions; Dy. Director (Establishment), Rly Board, 1940-44. Dy. General Manager (Personnel), G.I.P. Rly, 1944-46, rejoined the Rly. Board as Secy., 1946, member (Refugees), Rly. Board, in charge of heavy refugee movement by train from West Pakistan into India, Sept.-Dec. 1947; General Manager, East Indian Rly., 1947-49; brought about many improvements in the railway communications at the time; Member (Staff), Rly. Board, 1949-54. *Address:* Managing Director, Sindri Fertilizers and Chemicals Private Ltd., Sindri, Dist. Dhanbad (Bihar).

NIMBKAR, Vishnu, B.Sc., M.E. (N.Y. Univ.), M.A.S.M.E. (U.S.A.), A.M.I. Mech. E. (London), A.I.Loco. E. (London), General Manager (India and Pakistan), The Consolidated Pneumatic Tool Co. Ltd. *b.* June 25, 1900; *Educ.:* Deccan Coll., Poona, New York Univ., New York and Columbia Univ., New York. Employed in the Foreign Trade Department of the Chicago Pneumatic Tool Co., New York, 1927-29; Asstt. Engineer, Consolidated Pneumatic Tool Co. Ltd., Fraserburgh, 1929; Service Engineer, Consolidated Pneumatic Tool Co. Ltd., Bombay, 1929-32; Manager for Bombay, 1932-34; Acting General Manager, 1934-42 and apptd. Resident General Manager, 1943; General Manager, 1945; General Manager, India & Pakistan, 1948; Managing Director, 1957; Consolidated Pneumatic Tool Co. (India) Private, Ltd.; Managing Director, Hindusthan Mineral Products Co. Ltd., Bombay; Mineral Mining Co. Ltd., Madras; Director: Bombay Potteries and Tiles Ltd., Bombay; Korula Rubber Co., Ltd., Bombay; Ogale Glass Works, Ltd., Ogalewadi; Fuel Injections Ltd., Bombay. *Clubs:* C.C.I., Willingdon and Bombay Presy. Golf Club, Bombay; Roshanara Club, Delhi; Mysore Sports Club, Mysore; Century Club, Bangalore; Calcutta Club, Calcutta; National Sports Club, Delhi. *Hobbies:* Gardening and Agriculture. *Address:* Liberty Building, 41/42, Marine Lines, Bombay; *Residence:* 'Amerind', 15th Road, Khar, Bombay 21.



NIZAMUDDIN, Dr. Muhammad, Ph.D. (Cantab), Honorary Director and Secretary, Dairatul-Maarif-il Osmania, Hyderabad. *b.* 1899 in Hyderabad. Took Ph.D. from Cambridge Univ., 1924. Retd. Prof and Head of the Deptt. of Persian, Osmania Univ; member, Academic Council and Senate, Osmania Univ 1926-55; Hon. Senior Librarian, 1933-41, Curator, Translation and Compilation Bureau 1944-48, Acting Principal, Univ. College of Arts and Dean, Faculty of Arts, Osmania Univ., 1952-54, member: Editorial Board, Islamic Culture, Hyderabad, 1952 Indological Research Ctte., Govt of India, 1954, recommended by UNESCO as an Exchange Professor of Arabic, 1956, represented the Cambridge and Osmania Univs in several sessions of the All-India Oriental Conference, represented India at the Colloquium on Islamic Culture at Princeton and Washington D.C. at the invitation of State Deptt., U.S.A., and met President Eisenhower, Sept 1953. Chief Editor and Publisher of several standard Arabic works during 1937-57. *Publications: Introduction to the Jawamul-Hikayat of Aufi, Gibb Series;* Catalogue of the Arabic and Persian manuscripts in the Salar Jung collection, Hyderabad, Notices in proceedings of International Congresses and literary journals. *Address:* 'Lalazar', Lallaguda, S.D. 17, Hyderabad (A.P.)

NOEL-TOD, Geoffrey Noel, M.A. (Cantab), O.B.E. (Mily.), Chairman, Parry & Co., Ltd., The Travancore Sugars and Chemicals Ltd. *b.* Sept 3, 1898; *Educ.:* Uppingham school, Cambridge Univ., England, United Africa Co. Ltd., Nigeria, 1920-31; Metropolitan Police, London, 1932; Parry & Co., Ltd., Madras, since 1933; served in Indian Army, First Punjab Regiment, 1940-45, reaching rank of Lt.-Col.; awarded the O.B.E. for services in Burma; Vice-Chairman and Managing Director, East India Distilleries & Sugar Factories Ltd.; Director: The Deccan Sugar & Abkhari Co., Ltd.; Cauvery Sugars & Chemicals Ltd.; Parrys Confectionery Ltd. and several other companies. *Recreations:* Golf, Fishing, Bridge, Philately. *Clubs:* Madras Club; East India and Sports Club, London. *Address:* c/o Parry & Co., Ltd., "Dare House", Madras 1.

NOPANY, Rameshwarlall, Millowner and Merchant. *b.* in 1902 at Calcutta; *Educ.:* Scottish Church College, Calcutta. Partner: Messrs. Daulatram Rawatmull and Daulatram Rameshwarlal, Calcutta and Bombay; Director: Shree Hanuman Sugar Mills Ltd., Mewar Sugar Mills Ltd., North Bihar Sugar Mills Ltd., Belsund Sugar Co., Ltd., Naskarpara Jute Mills Ltd., Hind Mills Ltd., United Commercial Bank Ltd., Ruby General Insurance Co. Ltd., and several other Industrial and commercial concern. Member: Indian Central Sugarcane Ctte. (1944-53); Indian Central Oilseeds Ctte. (1947-53); Indian Chamber of Commerce, Calcutta; Indian Sugar Mills Assoc., Calcutta etc.; Pres.: Indian Chamber of Commerce (1942-43); Indian Hemp Association (1941-); Indian Sugar Mills' Association (1940-41), Hon. Treasurer, Federation of Indian Chambers of Commerce and Industry (1933-34); takes active interest in social work, has founded Charitable Trusts and Institutions for social and educational uplift and medical relief. *Address:* 178, Mahatma Gandhi Road, Calcutta 7.



NORGAY, Sherpa Tenzing, Mountaineer Director, Himalayan Institute of Mountaineering, Darjeeling. *b.* 1914, in Solo Khumbu village, Eastern Nepal. Had a natural love of mountains early in his childhood. Became a porter attached to party of mountaineers, Darjeeling, participated in expeditions, taken part in more Everest expeditions than any other person, first visited Everest as a youth of 21 when he accompanied Shipton Reconnaissance Party, 1935, participated in the expedition under Ruttledge, 1936, went with Tilman's party where he carried a load himself, reached a height of 28,210 ft. with Raymond Lambert, May 28, 1952, accompanied the summit of Mount Everest with the New Zealand mountaineer Sir Edmund Hillary under the leadership of Sir John Hunt of the British Expedition, May 29, 1953, presented by the King of Nepal with the Star of Nepal 1st Class, June 1953; awarded George Medal by Queen Elizabeth, awarded Iran's highest sports medal by the Shah of Iran, presented with a special gold medal by Dr Rajendra Prasad, President of India for extraordinary courage and heroism in the Everest Expedition; awarded the Lowell Hubbard Medal, the medal of the National Geographical Society of America, March 16, 1954. *Address:* Darjeeling, West Bengal.

NORRIS, Eric George, B.A. (Hons.) (Cantab), Deputy High Commissioner for the United Kingdom, Bombay, since Nov. 1957. *b.* March 14, 1918. *Educ.:* Hertford Grammar School & St. Catharine's Coll., Cambridge, B.A. (Hons.) (Cantab), 1939. Service in Army 1939-46, entered Dominions Office, Feb Office of U.K. Representative in Pakistan, Feb. 1948 to Sept 1950; Office of U.K. High Commissioner in Pakistan, 1952-55, Counsellor, Office of High Commissioner for U.K. New Delhi, 1956. *Recreations.* Golf & Sailing. *Clubs:* Willingdon, Bombay; Royal Bombay Yacht Club, Delhi Golf Club. *Address:* 2, Mount Pleasant Rd., Bombay.

OJHA, Jayantilal Manishanker, Chairman, Jayantilal Ojha & Co., Ltd. *b.* May 3, 1907 at Anjar, Kutch; *Educ.:* High School education, Ahmedabad; while a student, took part in Congress movement and worked at Sabarmati Ashram. Served on R.I. Rly. Advisory Ctte., Coal Wagon Supply Ctte., Soft Coke Cess Ctte., Indian Colliery Owners' Assoc., Joint Working Ctte of Coal Assoc.; Chairman, Jayantilal and Sons, Ltd., Jayantilal Manishanker & Co., Ltd.; Director:



Gourangdih Collieries Ltd.; Bhurangya Coal Co., Ltd.; Khas Shampore Coal Co., Ltd.; Sarpi Kajora Coal Mines Ltd.; New Joyrampore Coal Co., Ltd.; Chairman: Board of Trustees, Bhawanipur Gujrati Balmandir; Trustee: Shree Mahalaxmi Asrit Shrimali Brahman Kelavanimandal, Ahmedabad; Tarkeswar Estate Managing Cttee.; The New Education Trust, Ahmedabad; Cttee. member: Indian Mining Federation, Calcutta; Traffic Advisory Cttee., Bharat Chamber of Commerce; Indian Council of Foreign Affairs; Indian School of Mines and Applied Geology; Life member, Cricket Assoc. of Bengal. *Clubs:* South Calcutta Club, Rotary Club of Howrah and Calcutta Club. *Address:* 81, Stephen House, Dalhousie Square, Calcutta.

OLIVARES y BRUGUERA, Luis De, Count de Artaza, B.A., Doctorate in Law, Ambassador of Spain in India, since Aug. 21, 1956. *b.* March 22, 1894; *Educ.:* in Spain Diplomatic Attache to the Spanish Embassy in Berlin, Jan. 18, 1917 and to the Spanish Embassy in London Jan 21, 1919; 3rd Secy., Spanish Embassy in London, Dec 17, 1919, Third Secy., Spanish Ministry of External Affairs, March 28, 1921; Second Secy. to the Holy See Embassy near the Holy See, Nov. 14, 1922; First Secy., Consul in Bombay March 1, 1929; First Secy., Spanish Ministry of External Affairs, April 1, 1932; First Secy. to the Spanish Embassy, Washington Jan 1, 1933, Sub-Agent-in-charge of the Consulate in Southampton, Feb 22, 1938; Charge d'Affaires in Riga, April 26, 1939; Consul at New Castle and Cardiff, April 30, 1940 to June 9, 1943, Minister in La Asuncion, June 21, 1943, Minister at External Affairs, Oct 14, 1943, Minister in Dublin, May 26, 1945, Director General for Philippines and Far East at External Affairs, Nov. 5, 1947; Consul-General in London, Feb. 19, 1949, Minister Counsellor to the Spanish Embassy London, March 5 1951; awarded Grand Cross of the Civil Merit, Commander of the Order of Isabel of Spain and of Charles the Third and San Gregorio, Piana of the Holy See, and other distinctions of Belgium, Portugal, etc. *Recreations:* Hunting, Tennis, Golf, etc. *Clubs:* Delhi Gymkhana Club. *Address:* Spanish Embassy, 12, Prithviraj Road, New Delhi.

OSTROROG, His Excellency Count Stanislas, French Ambassador in India, since 1951. *b* May 20, 1897, *Educ.:* Paris and London. Attaché in Peking, 19[illegible], Secy. in Ankara, 1930-33; Paris, 1933-35, Beyrouth and Damascus, 1935-39; Moscow, 1939-40, France, 1940-42; Algiers, 1943, Beyrouth, 1943-46; New York, 1946; Minister and Ambassador, Dublin, 1947-51. *Address:* 16, Hardinge Avenue, New Delhi.

OZA, Keshavlal Karsanji, B.A. (Hons.), LL.B. Ex-Deputy Collector (Gharkhed), Zalawad District. *b.* December 9, 1895; *Educ.:* Wankaner High School; Bahauddin College, Junagadh; and Government Law School, Bombay. Practised as a Pleader in Junagadh State, 1921-22; Sarnyayadhish, Lakhtar State, 1922-27; Treasury Officer, Wankaner State, 1927-31 and 1941; Dewan, Lathi State, 1931-38; Dewan, Mansa State (Mahikantha), 1938-41; Dewan, Vala State, 1943-48; was elected President, Executive Committee of the 11th "Gujarati Sahitya Parishad" convened at Lathi under the Presidentship of late Dewan Bahadur Jhaveri Krishnalal Mohanlal, retired Chief Judge, Court of Small Causes, Bombay; on integration of Kathiawar States into the United State of Saurashtra, was first appointed as Officer-in-Charge, Mull and Sayla; District Treasury Officer, Zalawad and Dy. Collector (Gharkhed), Zalawad; retired from Govt. service, March 2, 1953. *Address:* Vallabhipur, Gohilwad Dist., Bombay State.



PAI, Ammembal Vittal, B.A., I.C.S., C.I.E. (1946), O.B.E. (1939), Secretary to the President of India, since Jan. 15, 1958. *b* Oct. 11, 1901; *Educ.:* Presy. Coll., Madras and Wadham Coll., Oxford. Asstt. Collector, North Arcot Dt., Madras, 1926-27; Sub-Collector, Palghat and Kumbakonam, 1928-30; Under-Secy., Govt. of Madras, Public Works and Labour Depts., 1931-34; Addl. Dt. Mgte., Tanjore, 1936; Agent of the Govt of India in Ceylon, 1936-40, Dy. Secy to the Govt of India, Dept of Indians Overseas, 1941-44; nominated Official member of the Council of State, 1942, and nominated Official member of the Leg. Assembly, 1943, Joint Secy. to Govt of India, Commonwealth Relations Dept., and Controller-Genl. of Emigration, 1944-47; Minister-Counsellor, Indian Embassy, Moscow, 1947-48; Principal Private Secy. to the Prime Minister of India, 1948-50; Secy., Ministry of Communications, 1950-53; Secy., Ministry of Home Affairs, March 1953-Jan 1958. *Address.* President's Secretariat, New Delhi.

PAI, Mangalore Purshotam, B.A. (Madras), B.A. (Hons.) (London), I.C.S., Chief Secretary, Andhra Govt. since May 20, 1957. *b* December 1, 1906; *Educ.:* Madras, London and Oxford. Controller of Coffee, Indian Coffee Board, 1940-42, Provincial Textile Commissioner, Madras, 1942; Controller of Supplies, S. I. Circle, Govt of India, 1942-45; Joint Secy., Ministry of Industry & Supply, 1946-49; Jt Secy., Ministry of Works and Supply 1949-52, officiated as Managing Dir., Sindri Fertilisers and Chemicals Ltd., April-July 1952 and Feb-Sept. 1953. Jt. Secy., Ministry of Production, Govt of India, 1952-53, Member, Board of Revenue, Andhra, Oct. 1953 to Oct 1956, and of Andhra Pradesh, 1st Nov. 1956 to May 19, 1957 *Club:* Delhi Gymkhana, New Delhi. *Address:* Hyderabad.

PAKASLAHTI, Aaro, Envoy Extraordinary and Minister Plenipotentiary of Finland in India, since December 26, 1956. *b.* June 7, 1903, *m* Ruth Elizabeth Wittanen *Educ.:* Helsinki Univ. Entered Finnish diplomatic service, 1928, Director of the Political Division at the Foreign Ministry, 1938 and Secretary General, 1941, Envoy in France, 1944-47, Director for the Finnish Federation of Technical Imports, 1948-56, Envoy in New Delhi since 1956. *Address.* Legation of Finland, 39, Prithviraj Road, New Delhi.

PAKVASA, Mangaldas Manchharam, Pres., Bharat Scouts; ex-Governor of Madhya Pradesh; Acting Governor, Bombay, Dec 1954-March 1955. *b.* May 7, 1882; *Educ.:* Elphinstone High School and Elphinstone College, Bombay; some time Dakshina Fellow, Elphinstone College, and won Dhirajlal Mathuradas Scholarship in LL.B. Solicitor for thirty years; was in jail 14 months in connection with the 1932 Satyagraha, 12 months in 1940 and 17 months in 1942-43; went on a world tour and visited Italy, Switzerland, France, Belgium, Germany, Austria, Hungary, England, America, Japan and China, 1935; as Solicitor for the All-India Spinners' Assoc. helped in saving income-tax, and fought up to the Privy Council when it was decided that that body was not liable to Income-tax; was the Chairman of Bombay City Adult Education Cttee., Bombay Historical Society, Hindustan Scout Assoc., etc.; President, Bombay Legislative Council from July 1937 to 14th August 1947. *Address:* 29, Doongersey Road, Malabar Hill, Bombay 6.

PAL, Benjamin Peary, M.Sc., Ph.D. (Cantab.), F.L.S., F.B.S., F.N.I., Director, Indian Agricultural Research Institute, New Delhi, since 1950 *b.* May 26, 1906; *Educ.:* Rangoon University (1924-29); Cambridge Univ., Downing College (1929-32). Joined the Indian Agricultural Research Institute, 1933; appointed Director, 1950; President, Botany Section of the Indian Science Congress (1945-46); Indian Society of Genetics and Plant Breeding (1947-48); member, Agricultural Mission to China (1944); member, Indian Scientific Delegation to Australia (1949), Pres., Indian Botanical Society, 1950; Vice-President, All-India Fine Arts and Crafts Society, Leader, Indian Delegation to the VIIIth International Congress of Botany in Paris 1954; Secy., National Institute of Sciences of India; Pres., Agricultural Sciences Section, Indian Science Congress, 1954; official Delegate to the International Genetics Symposia, Japan, 1956, Member of Council, Indian Science Congress Assoc., 1956, Hony. Member Genetics Society of Japan *Publications.* About 100 papers on plant breeding and genetics of crop plant. *Recreations:* Painting and Rose-gardening *Address.* New Delhi.

PALSIKAR Shankar Balvant, G.D. Art (Painting), Painter, Teacher, Dept. of Fine Art, Sir J. J. School of Art, Bombay. *b.* May 17, 1910. *Educ.:* Sir J. J. School of Art, Bombay, Govt. G.D. Art (Painting), 1947. Awarded gold medal of Bombay Art Society and Academy of Fine Art, Calcutta, 1950; exhibited paintings in all the leading exhibitions in India and abroad, Russia, America, Japan, England *Address:* 43, Machalimar Camp, Versova, Andheri, Bombay 41.

PANANDIKAR, Satyashraya Gopal, M.A. (Bombay), Ph.D. (Econ., London), D.Sc. (Econ., London), Secretary, Indian Banks' Association, Bombay; Retd. Principal and Prof. of Commerce, Sydenham College, Bombay. *b* July 18, 1894 *Educ.:* Elphinstone College Bombay and School of Economics Univ of London. Some time Professor of Political Economy, University of Dacca (1921-23) *Publications: Economic Consequences of the War for India; Wealth and Welfare of the Bengal-Delta, Economic Development of the Great Powers and India Banking in India, Industrial Labour in India Address* Gandhi House, Sandhurst Bridge Bombay

PANDEYA, Gayanacharya Avinash Chandra, M.A. (Economics), B.Com., J.D. Musicologist and Dancologist Asstt. Information Officer, Press Information Bureau, Govt of India since July 1948 *b* May 26, 1924; *Educ.:* Univ of Lucknow Prayag (Gold and Agra Disciple of the late Ustad Allabande Khan of Alwar on music) and Padma Shri Guru Shambhu Maharaj and Guru Gopinath on dancing) Culture study tour of East Indies etc., 1938-39, Delegate International Congress of Music, 1938, Associate Editor *Globe*, 1941, Editor, *Music & Dancing*, 1941-42, General Editor F.I.P. Corporation, 1943, Staff and Special Correspondent of *The Hindustan Times, The Amrita Bazar Patrika, U.P.I.*, etc., 1943-46, Delegate, All-India Writers' Conference 1944 and 1954, Journalist on Special Duty, Deptt of Information U.P. Govt, 1946-47 Publicity Officer, Modi Industries, 1947-48, Observer, All-India Cultural Conference, 1951; participant in Sangeet Natak Akademi's Music Seminar (1957) and Dance Seminar (1958). Delegate All-India Oriental Conference, 1957 etc *Publications: The Art of Kathakali, Raq Darshan* (Urdu) edited; *Bharatiya Nrityakala Dhara* and *The Art of Bharat Natya* (Natyam) etc *Recreations:* Painting and photography *Clubs* Indian P.E.N., Book Club, etc *Address* Agra; 16E 17-East Patel Nagar, New Delhi 12.

PANDIT, Anand Dattatraya, B.Sc. (Alld.), I.C.S., Chief Commissioner, Delhi. *b.* April 1, 1909. Was Chief Commissioner, Ajmer, Jan. 1952—March 1954. *Address:* Chief Commissioner, Delhi.

PANDIT, Srimati Vijaya Lakshmi, High Commissioner for India in London and concurrently India's Ambassador to Ireland; Ex-Ambassador of India in U.S.A. and U.S.S.R. *b.* 18th August 1900; *Educ.:* Privately by tutors and governesses Elected Chairman, Education Cttee., Allahabad Municipal Board, 1935; elected U.P. Assembly, 1937;

appointed Minister of Local Self-Government and Public Health in U.P. Congress Government; Pres., All-India Women's Conference, 1940-42; Vice-Pres., Women's International League for Peace and Freedom; attended Pacific Relations Conference at Hot Springs, Virginia, U.S.A., as leader of Indian delegation appointed by the Indian Council of World Affairs; toured extensively in U.S.A.; was present in San Francisco at the time of the United Nations Conference, and presented India's case in an unofficial capacity to the world as spokesman for the India League of America and the National Committee for India's Freedom; Leader of the Indian delegation to the U. N. O., 1947 and 1948 Peace Conference; imprisoned three times in connection with Congress Civil Disobedience Movements—one year, four months and 11 months in 1931, 1941 and 1942, respectively; returned unopposed to U.P. Assembly from the old constituency; appointed Minister for second time by Congress Government holding portfolios of Local Self-Government and Public Health; Indian Ambassador in U.S.S.R., 1947-49; Ambassador in U.S.A., 1949-52; President, United Nations General Assembly, 1953-54. Has received ten honorary doctorates from Indian and foreign universities and a number of awards for work in the international fields. *Address:* The High Commission of India, India House, Aldwych, London, W.C. 2.

PANDURANGIAH, Vammidi, Partner, Vammidi Ramiah Chetty Guruswamy Chetty & Co., Jewellers and Diamond Merchants, Madras; Managing Director of Vammidiars (Mfrs.) Ltd., Stainless Steel Fabricators, Madras. *b.* 1903; *Educ.:* Presidency Coll., Madras. Pres., Madras Jewellers' and Diamond Merchants' Assoc., Madras; Southern India Chamber of Commerce, Madras (1947-48); Director, New Guardian of India Life Assurance Co., Ltd.; was a Delegate to the International Chamber of Commerce, Paris, 1946; visited Germany and other countries in Europe as Delegate, Govt. of India Trade Delegation to Germany, 1948. *Recreations:* Billiards, Tennis. *Club:* Cosmopolitan Club, Madras. *Address: Residence:* 5, Dr Nair Road, T. Nagar, Madras 17; *Office:* 25, N. S. C. Bose Road, Madras 1.



PANDYA, Gangashankar Baldevshankar, B.A. (Hons.) (London), M.A. (Allahabad), University Professor and Head of Dept. of History, Baroda Univ., since July 1950. *b.* August 24, 1915; *Educ.:* The Theosophical National School, Benares; Benaras Hindu Univ., The Union of Allahabad; London Univ. Professor of History, M.T.B. College, Surat, 1940-42; Professor of Administration and Geography, College of Commerce, Baroda, 1942-49; First Registrar, Maharaja Sayajirao Univ. of Baroda, May 1949 to July 1950; Dean, Faculty of Arts, Baroda Univ., 1951-54; attended seminars on Educational Administration & International Education, Chicago, Feb.-June 1955. *Publications:* 2 books on Indian Administration and Politics; sundry articles on Politics and History in periodicals. *Recreations:* Hiking; Mountaineering; Hockey; Table Tennis. *Address:* Adhyapak Nivas, Pratap Ganj, Baroda.

PANIGRAHI, Lingaraj, B.A., B.L., Minister, for Home, Law, Education, Govt. of Orissa, since Apr 1957. *b.* March 21, 1906; *Educ.:* Madras Presidency College. Practised at Berhampur (Ganjam); was Public Prosecutor for two terms; Advocate-General, 1945-48; Judge, Orissa High Court, July 1948-March 1953; Chief Justice, Orissa, 1953-56; retired, March 1956; returned to the Orissa Leg. Assembly, 1957; attended the Round Table Conference and gave evidence before the Joint Parliamentary Ctte., 1934; one of the prominent leaders responsible for the creation of the Orissa Province; a forceful speaker and writer; a keen Botarian. *Publications:* Contributor to periodicals. *Recreation:* Tennis. *Club:* Cuttack Club. *Address:* Bhubaneshwar.

PANIKER, K. C. S., Artist, Vice-Principal, Govt. School of Arts & Crafts, Madras. *b.* May 30, 1911; *Educ.:* Madras Christian College; graduate of the Madras School of Arts & Crafts. Joined the staff of the School as teacher, 1941; exhibited widely in India and abroad with distinction; one-man shows held at India House, London and Paris, 1954; represented at The National Art Gallery, New Delhi, The National Art Gallery, Madras and various private collections in India & Europe; member, Executive Board of the Lalit Kala Akademi as one of the nine eminent artists. *Address:* 2, Casa Major Road, Egmore, Madras-8.

PANIKKAR, Kavalam Madhava, Indian Ambassador in France, since Dec. 1956. *b.* June 3, 1895; *Educ.:* Madras & Oxford, Scholar of Christ Church, Barrister-at-Law (Middle Temple). Professor, Aligarh Muslim University; Editor, *The Hindustan Times*; Secretary to the Chancellor, Chamber of Princes; Foreign Minister, Patiala; Foreign & Political Minister, Bikaner; Prime Minister, Vice-President of State Council and Foreign & Political Minister and Minister for Education & Health, Bikaner State (1944); Secretary, Indian States Delegation to the Round Table Conference; official witness on behalf of the States before Joint Select Committee; Indian States' Representative to the Pacific Relations Conference, Canada, 1942 and Commonwealth Relations Conference, 1945; member of Indian Delegation to United Nations General Assembly Session, 1947; Vice-President, Royal India Society, London; Pres., Kerala Academy of Letters; member, National Academy of Letters; Ambassador in China, 1948-52; Ambassador in Egypt, Sept. 1952-Dec 1953; member, States Reorganisation Commission, 1954-56. *Publications: Indian States and Government of India; Interstate Law; Portuguese in Malabar; Dutch in Malabar; Caste and Democracy; Hinduism and the Modern World; Kingship in India; Education Reconstruction; India and the Indian Ocean; Future of South East Asia; The Basis of Indo-British Treaty; Survey of Indian History; Asia and Western Dominance; In Two Chinas; Geographical Factors in Indian History, India and China; etc.*; has also contributed to *The Times, The Manchester Guardian, News Chronicle, Contemporary Review, etc.* and published novels, plays and poems in Malayalam. *Address:* Embassy of India, Paris.

PANJABI, Kewalram Lalchand,* B.A. (Bom.), I.C.S., Chief Secretary, Govt. of Bombay. *b.* Dec. 28, 1896; *Educ.:* Elphinstone Coll., Bombay; London School of Economics; Gray's Inn, London. Joined the Indian Civil Service, 1923; has occupied various posts including Secretary, Ministry of Food, Govt. of India,* 1947 and Secy., Ministry of Agriculture, Govt. of India, 1948. *Publications: Bombay Land Revenue System; Culture of Sind. Recreations:* Tennis, Swimming, Bridge. *Address: Residence:* 11, Framroz Court, Marine Drive, Bombay; *Office:* Sachivalaya, Bombay 1.

PANT, Apasaheb Balasaheb, B.A. (Bombay), M.A. (Oxon.), Bar-at-Law, Padmashri (Aug. 15, 1954), Political Officer in Sikkim and Bhutan with control over Indian missions in Tibet since Feb. 1955. *b.* Sept. 11, 1913, of the family of the Pratinidhis of Aundh; *Educ.:* Deccan Coll., Poona, Oxford (B.N.C.); Lincoln's Inn. Started work in the Aundh State under his father Shrimant Bhawanrao Pratinidhi, Rajasaheb of Aundh; worked as Education Minister; prepared a draft Constitution for the Aundh State, with the consent of Mahatma Gandhi, when his father granted Responsible Govt. to his subjects, 1939; first elected Prime Minister, Aundh State, for six years; was Minister for four years till the State was merged into Bombay State, March 1948; member, A.I.C.C., 1948; represented Govt. of India at the U.N.O. as an alternate delegate, 1951 and 1952; Commissioner for the Govt. of India in British East Africa, July 1948-Feb. 1954; apptd. Consul-General for Belgian Congo & Ruanda-Urundi, Nov. 1950 & Commissioner for Central Africa and Nyasaland, Dec. 1950; Officer on Special Duty, External Affairs Ministry, 1954-55. *Address:* Amral Camp, Deccan Gymkhana, Poona 4; C/o External Affairs Ministry, New Delhi; Residency, Gangtok.

PANT, Pandit Govind Ballabh, B.A., LL.B., LL.D. (Allahabad, Banaras and Lucknow), Bharat Ratna (Jan. 26, 1957) Minister for Home Affairs, Government of India since Jan. 10, 1955. *b.* Sept. 10, 1887, in Almora District; *Educ.:* Almora, Muir Central College, Allahabad; School of Law, Allahabad Univ. Enrolled Advocate, Allahabad High Court, 1909; joined the Bar at Naini Tal; took active part in politics; started Kumaon Parishad in 1916 to study local problems and redress grievances; gave evidence before the Southborough Committee and succeeded in bringing the Kumaon district under the Southborough Committee and the Montford Reforms; elected member, U.P.L.C. 1916; U.P. Leg. Council, 1923, on Swaraj Party ticket; Leader, Swaraj Party, U.P. Council, for 7 years; elected Pres., U.P.C.C. 1927, and presided at Aligarh Session, took prominent part in anti-Simon Commission agitation; twice imprisoned for C.D. 1930-32; appointed Chairman, U.P. Agrarian Cttee. by the U.P.C.C.; submitted Fact Report, 1931; Member, Congress Working Cttee., since 1931; Genl. Secy., All India Parliamentary Board, 1934; elected M.L.A. (Central), 1934 and was Deputy Leader of the Congress Party; elected Leader of the Congress Party in U.P. Assembly, 1937 and Premier 1937-39; resigned on War issue; offered Satyagraha, Nov. 1940 and was jailed for one year, arrested and kept in detention in Ahmednagar Fort, August 9, 1942-March 31, 1945, attended Simla Conference, June 1945, and carried on negotiations with Jinnah; member, Central Parliamentary Board and Chairman, U.P. Parliamentary Board; re-elected to U.P. Legislative Assembly and Leader of Congress Party in the U.P. Assembly; elected member, Constituent Assembly and member of several Committees and Sub-Committees of the Constituent Assembly, Chief Minister, U.P. April 1946 to Jan. 1955; Home Minister, Govt. of India and deputy leader, Congress Parliamentary Party. *Address:* New Delhi.



PANT, Sumitranand, Hindi Poet; Sahitya Salahkar, All India Radio *b.* 1900 at Kausani in Almora Dist.; *Educ.:* Early education at Almora; matriculated from Banaras, Allahabad Univ. Gave up studies in response to Mahatma Gandhi's appeal to students. Deeply made an extensive study of Sanskrit, English, Bengali and Hindi literature; Shelley and Tagore were among the early influences moulding his poetic career; one of the prime architects of the Chhayavad (romantic) school of poetry in Hindi; gave a new trend to poetic writing in Hindi; joined A.I.R. as Adviser, Hindi programmes, 1950; became Chief Producer, Hindi (Spoken Word) programmes, 1955. *Publications: Pallava; Gunjan; Granthi; Swarnadhool; Swarna Kiranа; Uttara; Kalikhar; Atima. Address:* 18/B-7, Stanley Road, Allahabad.

PARANJPYE, Dr. Sir Raghunath Purushottam, M.A (Cantab.), B.Sc. (Bombay), D.Sc. (Calcutta), D.Litt. (Poona), Vice-Chancellor, Poona University since 1948. *b.* Mardi, 16th Feb. 1876; *Ed*

* Is due to retire in Dec., 1958.

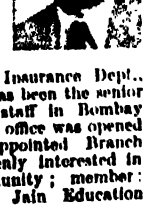
Maratha H. S., Bombay; Fergusson Coll., Poona; St. John's Coll., Cambridge (Fell.), 1901-07, and Hon. Fellow, 1945; Paris and Göttingen; Govt. of India Scholar; bracketed Senior Wrangler at Cambridge, 1899. Principal and Prof. of Math., Fergusson Coll., Poona, 1902-24; Hon. Associate of the Rationalist Press Association; has taken prominent part in all social, political and educational movements in Bombay State; Vice-Chancellor of Indian Women's Univ., 1916-20; member, Bombay Leg. Council, 1918-23, 1927; Kaisar-i-Hind Gold Medal in 1916; Knighted, 1942; Minister, Bombay Government, 1921-23, 1927; member, Reforms Inquiry Committee, 1924; Auxiliary and Territorial Forces Committee, 1924; Indian Taxation Inquiry Committee, 1924-25; member, India Council, 1927-32; Vice-Chancellor, Lucknow University, 1932-38; President of the National Liberal Federation, 1924, 1939; High Commissioner for India in Australia, 1944-47. *Publications: Gokhale, Karve, The Cruz of the Indian Problem, Rationalism in Practice. Address:* Poona 4.

PARECATTIL, Most Rev. Dr. Joseph, B.A., D.D., Archbishop of Ernakulam *b.* April 1 1912, at Kidangoor, Ankamaly, *Educ.*: Papal Seminary, Kandy, Ceylon Ordained priest, 1939; worked as Assistant and Vicar in some parishes; Editor, *Satyadeepam* for 6 years; consecrated Titular Bishop of Arethusa and Auxiliary to the Archbishop of Ernakulam by His Eminence Cardinal Tisserant, Nov. 30, 1953 Installed as Archbishop of Ernakulam on January 9 1957. *Address.* Archbishop's House, Ernakulam-1

PARIKH, Sheth Chimanlal Bapalal, J.P. and Hon. Presidency Magistrate; Business man, *b.* 1898, at Kapadvanj Took to business at a very early age, as one of the founders of C. Parikh & Co., has played a prominent part in the cotton and textile trade of Bombay, Ahmedabad and East Africa; served as Vice-Pres., East India Cotton Assoc. Ltd. and the Indian Central Cotton Ctte served as Pres., Indian Merchants' Chamber; is controlling in Uganda concerns of repute in the cotton trade; has been responsible for pioneering several concerns expanding their activities to a great extent; is widely travelled; Pres. Indian Nationals Overseas Congress, represented the Govt. of India at the International Cotton Advisory Ctte's meeting held at Lahore, 1950, at Rome, 1952 and at Washington, Nov. 1953; Director Central Bank of India Ltd. *Clubs:* W.I.T.C. Ltd.; Willingdon Sports Club; Cricket Club of India Ltd. *Address:* 28, Apollo Street, Bombay 1.



PARIKH, Chunilal Navandas, Secretary for India, The Manufacturers Life Insurance Co. of Canada, Bombay, since 1958 *b.* Feb. 28, 1903, at Bhavnagar, *s.* of late Narandas Bhikhabhai Parikh, Retired Postmaster, Bhavnagar R. S. and late Smt. Narmadabai; *m.* Smt. Taralaxmi, May 5, 1922; three *s.* and four *d.*; *Educ.*: Samaldas Coll., Bhavnagar; Sydenham Coll. of Commerce & Economics, Bombay. Joined the staff of M. Kanji & Co., former General Agents in Bombay of the Manufacturers Life Insurance Co. of Canada, May 1921; Head of Life Insurance Dept., M. Kanji & Co., 1929-35; has been the senior member of Indian office staff in Bombay since the Company's branch office was opened in Bombay in 1935; appointed Branch Secy., Jan. 1, 1947; is keenly interested in the affairs of his community; member: Managing Council of the Jain Education Society, Bombay; Managing Cttee. of the Assoc. of his community. *Address: Office:* 123, Mahatma Gandhi Road, Fort, Bombay; *Residence:* 113, Gaiwadi, Swadeshi Market Building, Room No. 210, 3rd floor, Bombay 2



PARIKH, Hiralal Maganlal, Merchant and Quarrist. *b.* March 20, 1910, at Nadiad Started career as an independent Quarry Owner in former Kotah State; presented a scheme to Kotah Govt. for working quarries on an economical basis which was subsequently accepted resulting in the formation of the Associated Stone Industries (Kotah) Ltd., Ramganjmandi; Promoter and Director-in-Charge, Associated Stone Industries (Kotah) Ltd., Ramganjmandi; Director-in-Charge, Rajputana Mining Agencies Private Ltd., Ramganjmandi; member, Minimum Wages Advisory Ctte. of the Labour Deptt. Govt. of Rajasthan, Jaipur; Vice-Pres., Rajasthan Chamber of Commerce and Industry, Jaipur; Pres., Chamber of Commerce, Kotah Division, Kotah *Address:* Ramganjmandi (Rajasthan), Western Rly.



PARIKH, Rasiklal Umedchand, B.Com (Bombay), B.Com. (London), Minister for Revenue, Bombay, since Nov. 1, 1956. *b.* May 18 1910. *Educ.*: Jaswantsinhji High School, Limbdi, Fergusson College, Poona (1926-27); Sydenham College of Commerce and Economics, Bombay; London School of Economics London Courted imprisonment thrice during satyagraha movement, in 1930, 1933 and 1942; was Secretary, Kathiawar Political Conference; Member, Constituent Assembly of India, 1948, joined the first Saurashtra Constituent Assembly, 1949, elected Member, Lok Sabha Feb. 1952, resigned and elected to Saurashtra Leg. Assembly; Minister, Home, Services P.W.D., Medical and Health, Information, Printing Press and Stationery and Communications Deptt. at various periods, Chief Minister, Saurashtra, Dec. 20, 1954-Oct. 31, 1956 *Address.* Ridge House, Ridge Road Bombay 6.

PARKER, Ernest, O.B.E., Chartered Accountant, Director, I.C.I. (India) Ltd., President, Bombay Chamber of Commerce, 1957-58 *b.* Sept. 27, 1909, *Educ.*: St. Lawrence, Ramsgate. *Clubs:* Royal Bombay Yacht Club; Bombay Gymkhana; Willingdon Sports Club. *Address:* 14, Pali Hill, Bandra.

PARMAR, Dr. Yeshwant Singh, Ex-Chief Minister, Himachal Pradesh *Educ.*: Forman Christian Coll., Lahore; Lucknow Univ.; took Ph.D. District and Sessions Judge, Sirmur, 1937-41; resigned and exiled from the State due to political differences; entered politics, 1947; elected Pres. Himalayan Hill States Regional Council of All-India States People's Conference; organised Satyagraha in Suket State resulting in the integration of 24 States into Himachal Pradesh; was member: A.I.C.C.; Chief Commissioner's Advisory Council, Himachal Pradesh; Indian Constituent Assembly; Pres., H.P.C.C., 1948-50; Leader, Indian Parliamentary Delegation to the Inter-Parliamentary Conference at Istanbul, Turkey, 1951; elected M.L.A., Himachal Pradesh from Pachhad constituency in the general elections; elected M.P., 1957. *Address:* C/o Lok Sabha, New Delhi.

PARTHASARATHI, G., B.A. (Hons.) (Madras), B.A. (Oxon.), Barrister-at-Law, Indian Ambassador to China, since June 1958. *b.* July 7, 1912; *Educ.*: Presidency Coll., Madras; Wadham Coll., Oxford; Lincoln's Inn, London. Assistant Editor, *The Hindu*, 1936-49; Chief Representative of P.T.I. in London, 1949-52; Chief Editor, Press Trust of India, 1951-53; Chairman, International Commission for Cambodia, 1954-55; Chairman, International Supervisory Commission for Viet Nam, 1955-56; Ambassador to Indonesia, Jan. 1957-June 1958. *Recreations.* Cricket, Tennis and Hockey. *Club:* Cosmopolitan Club, Madras. *Address:* Peking; 'Nanga Parbat', 49, St. Mary's Road, Madras 18.

PARULEKAR, V. M., B.A., D.A.I. Offg. Joint Secy. to the Govt. of India Deptt. of Atomic Energy, since Sept. 3, 1956. *b.* March, 1909, *Educ.*: Secondary education at Malvan, Dist. Ratnagiri, College education at Sangli and Poona, Bombay State. Entered Govt. service in the office of the Accountant General, Bombay May 5, 1925, Asstt. Finance Deptt., Govt. of Bombay (on deputation) April 20 1937 to Aug. 31, 1938, Auditor Bombay Port Trust, Sept. 1 1938 Sept. 1 1940 Accountant, Trade Marks Registry, Bombay, Sept. 2 1940 May 21, 1942, then Supdt. May 22 1942 Oct. 9 1945 Administrative Officer Oct. 10 1945 July 31, 1947, Under Secy. to the Govt. of India, Ministry of Transport July 26 1949 May 29, 1952, Ministry of Commerce and Industry, May 30, 1952 June 30 1954, Ministry of Transport, June 30 1954 Aug. 2 1954, Deptt. of Atomic Energy, Aug. 3 1954 Nov. 16, 1954 Deputy Secy. to the Govt. of India, Deptt. of Atomic Energy, Nov. 17, 1954 Sept. 2 1956 *Club:* Orient Club Chowpatty, Bombay *Address:* Joint Secretary, Department of Atomic Energy, Old Yacht Club Apollo Pier Road, Bombay 1.

PATASKAR, Hari Vinayak, B.A., LL.B. (Bombay), Governor of Madhya Pradesh since June 1957. *b.* May 15 1892. *Educ.*: Fergusson College, Poona; Govt. Law Coll. Bombay Enrolled as an Advocate, Bombay High Court and set up practice in Khandesh, 1917, Congressman since 1920; member A.I.C.C., 1929 entered Bombay Leg. Council 1927; resigned as a protest against the incarceration of Gandhiji 1930 elected M.L.A. Bombay 1937; elected again 1946, member, Constituent Assembly of India 1947, returned to the Lok Sabha 1952 Jailed for three years in the freedom movement, 1942, was Civil Pres., Borough Municipality, Chalisgaon continuously and unanimously for 12 years, Chairman, Educational Society Chalisgaon since 1922; has been taking part in all social, educational and political activities of Maharashtra, since 1922, Chairman (Local Office) Blind Relief Assoc., Chalisgaon, Minister for Legal Affairs, Govt. of India 1951-57, Minister for Civil Aviation, Dec. 1956-Apr. 1957 *Address.* Bhopal.



PATEL, Babubhai Jashbhai, B.A., LL.B., Secretary, Constructive Work Deptt. All India Congress Ctte., Ex-Minister for Development, Planning, Electricity & Housing, Bombay *b.* Feb. 9, 1911, *Educ.*: Govt. High School, Nadiad, Fergusson, Wilson, St. Xavier's and Govt. Law Colleges, Bombay Joined Congress movement, 1930 was Parliamentary Secretary to Chief Minister, Bombay, till 1952; Dy. Minister, Public Works and Transport, Bombay, 1952-Oct. 31 1956. *Address.* 'Shreyas', Nadiad Dt. Kaira; 7, Jantar Mantar Road, New Delhi

PATEL, Baburao, Critic, Author, Journalist, Film Producer, Director, Editor, *Filmindia* and Managing Dir., Sumati Publications Private Ltd. *b.* April 4, 1904, at Maswan, Thana Dist., Bombay. Took up free-lance journalism as a career, 1922; wrote, directed and produced motion pictures simultaneously with journalistic activities; specialized as a critic of art, stage and films; started *Filmindia* a popular magazine in India, April 1935; agitated against anti-Indian pictures produced by British and Hollywood producers; carried the campaign



successfully to Europe and Hollywood in 1939 and obtained guarantees from foreign producers to stop films slandering India; lectured in Europe and United States on India's ancient culture and civilization; launched another campaign against indigenous crime and anti-social pictures, 1940; set up a production code and compelled revision of film censorship; recognized as one of India's foremost critics of art, stage, films and politics; visited America again for sociological study and survey, 1948. *Hobbies:* Music, Gardening and Travelling. *Publications: Grey Dust; Burning Words;* wrote and produced the following films: *Kismet, Mahananda, Bala Joban, My Darling, Maharanee, Draupadi* and *Gralan;* wrote numerous articles for several Indian and overseas periodicals. *Address:* "Girnar," Pali Hill, Bombay 20.

PATEL, Bahadurbhai Kunthabhai, B.Sc., Deputy Minister for Social Welfare, Govt. of Bombay, since April 1957. *b.* Nov. 11, 1913. *Educ.:* Shri Pratap High School, Bansda; Baroda Coll., Baroda; passed B.Sc., 1935. Was Science Teacher for 12 years; Social Worker in Congress since 1947; Pres.: Bansda Rajya Praja Mandal, Taluka Congress Cttee., Bansda; Congress delegate, A.I.C.C. *Recreations:* Spinning; Sports. *Club:* Shri Digvir Club, Bansda. *Address:* Bhinar (Bansda), via Billimora (W. Rly.), Dist. Surat; Sachivalaya, Bombay.

PATEL, Bhagvatprasad R., M.A., A.I.A., I.C.S., General Manager, Air India International, since Sept. 1955. *Educ.:* Proprietary High School, Ahmedabad and Gujarat College and Baroda College; M.A., 1933, passed I.C.S. Examination, 1935. Became Associate of the Institute of Actuaries, London, 1936. Joined I.C.S., 1936; took service in Sind; served as Asstt. Collector, Asstt. Revenue Officer, Barrage, Collector, Dy. Secy. and Secy., Food & Civil Supplies Department; was in Ministry of Food, Govt. of India, April 1947 to Aug. 1948; was Chairman, Capital Selection Cttee. for Saurashtra and Rajasthan; Chief Secy., PEPSU, Aug. 1948-March 1950; Chief Secretary, Saurashtra, March 1950-May 1954; Director-General of Shipping, May 1954-Aug. 1955. *Address:* Air India International, New India Assurance Building, Mahatma Gandhi Road, Bombay 1.

PATEL, Bhailalbhai Dyabhai, L.C.E. (B.U.), Vice-Chancellor, Sardar Vallabhbhai Vidyapeeth, Vallabh Vidyanagar. *b.* June 9, 1888, in Lewa Patidar Community of Savdasbhai Bhakti Sojitra; *Educ.:* College of Engineering, Poona. Served in P.W.D., 1912-40; Engineer, Ahmedabad Municipality, March 1940 to Sept. 1942; has been working for the establishment of Vallabh Vidyanagar from 1945. *Publications: Mahi Canal; Sukkar Barrage Ma Mara Ath Varsha; Gamadanu Vastav Darshan. Recreations:* Bridge, Gardening, Archaeology, etc. *Address:* Vallabh Vidyanagar, Taluka Anand, District Kaira.

PATEL, Dr. Bhasker Rambhai, M.D., M.R.C.P., T.D.D., Deputy Minister for Prohibition, Govt. of Bombay since Nov. 24, 1957. *b.* Aug. 3, 1897; *Educ.:* Sojitra; passed Matric, 1917, Wilson Coll., Bombay; studied Inter Sc. in Ahmedabad and Baroda; Grant Medical Coll.; passed M.D., from Germany, 1927. Left Medical College in Aug. 1920 to join the national movement, at the Sabarmati Ashram for some time; was in charge of Khadi Production Centre at Petlad, 1921-22, Hon. General Secy., Gujarat Provincial Political Conference, Anand, May 1922; started consulting practice in Bombay, March 1929; courted jail several times in freedom movement; elected member of Royal College of Physicians in Edinburgh, 1938; got the special diploma in Tuberculosis, 1938; started practice, 1939; appointed member, Prohibition Board, Province of Bombay and Hon. Secy. to Prohibition Medical Board, Bombay State, Aug., 1939; Hon. Specialist in T.B., J. J. Hospital and Lecturer in Tuberculosis, Grant Medical Coll., 1940; Hon. Special Officer in Tuberculosis, Govt. of Bombay, 1947; resigned as Dy. Minister, Oct. 1957; again sworn in, Nov. 1957. *Publications:* Many publications in Medical Literature on T.B. Problems & B.C.G. Vaccination. *Clubs:* Rotary; National Sports Club. *Address:* 26A, Little Gibbs Road, Malabar Hill, Bombay 6.

PATEL, Bhogilal P., B.Sc., Bar-at-Law, I.C.S., J.P., Managing Director, State Bank of India, Bombay. *b.* Oct. 16, 1912; *Educ.:* Primary Education, Khanpur; secondary education, Nar and Baroda; Baroda College and Royal Institute of Science, India; London School of Economics and Middle Temple Inn, England, 1933-37; Asstt. Collector, Satara, 1937-41; Collector for a month, 1940; Settlement Officer, Central Division, Sholapur, 1941-42; did Revision Settlement of Land Assessment in the Talukas of Karmala, Madha, Malsiras and Sholapur; Asstt. Commissioner, Central Division, Poona, in charge of supplies and controls for Maharashtra, 1942; Collector of Ahmednagar, Jan. to June 1943; Collector of Ratnagiri, 1943-46; Registrar of Co-operative Societies and Director of Agricultural Marketing and Rural Finance; also Registrar General of Moneylenders, Bombay State, 1946-50; Commissioner, Ahmedabad Municipal Corporation, 1950-54; General Manager, B.E.S.T. Undertaking, Bombay, 1954-56. *Recreations:* Swimming, Riding, Bridge, Shooting. *Address:* State Bank of India, Fort, Bombay 1.

PATEL, Hiralal Muljibhai, B.A. (Oxon.), B.Com. (London), C.I.E. (1946), I.C.S., Principal Secretary, Ministry of Finance, Govt. of India, since Feb. 1957 (on leave since Feb. 14, 1958). *b.* August 27, 1904; *Educ.:* St. Xavier's High School, Bombay and St. Catherine's at Oxford. Served as Sub-Divisional and Dt. Officer in Sind, Sind Separation Officer, 1935; Deputy Secy., Finance Dept., Govt. of Bombay; Secy., Stock Exchange Cttee., 1936-37; Trade Commnr., Northern Europe, at Hamburg, June 1937 to outbreak of War; Deputy Trade Commnr. and Trade Commnr., London, 1939 Sept. to 1940 July; Secy., Eastern Group Supply Council, 1941-42; Deputy Director-General, Supply Dept., 1942-43; Joint Secy. and Secy., Industries and Civil Supplies Department, 1943-46; Joint Secy. and Secretary to the Cabinet, 1946-47; Partition Secretary; Defence Secretary, 1947-53; Food and Agriculture Secretary, 1953-Dec. 1954; Finance Secy., Govt. of India, Dec. 1954-Jan. 1957; Chairman, Life Insurance Corporation of India, Sept. 1, 1956-June 1957. *Address:* 2, Roberts Road, New Delhi.

PATEL, Jehangir Pestonji, M.A. (Cantab.), Cotton Merchant. *b.* 1st February 1905; *Educ.:* St. Xavier's High School, Bombay and Downing College, Cambridge. Mg. Director of The Patel Cotton Co. Private Ltd.; Director: Bhopal Sugar Industries Ltd., The New Great Insurance Co. of India Ltd., G. Claridge & Co. Ltd., Indian Schering (Private) Ltd.; The Khatau Makanji Spg. & Wvg. Co. Ltd., Wallace Flour Mills Ltd., Central India Flour Mills Private Ltd.; Bombay Steam Navigation Co. (1953) Private Ltd., Scindia Workshop Private Ltd., The Scindia Steam Navigation Co., Ltd.; The Asiam Match Co., Ltd.; W. H. Brady & Co. Ltd.; State Bank of India, Bombay; Partner, Messrs. Patel Brothers, Cotton Brokers, Bombay; Member: New York Cotton Exchange; New York and Liverpool Cotton Assoc. Ltd., Liverpool; Pres., Adivasi Seva Mandal; *Clubs:* Willingdon, Rotary, Cricket Club of India, Radio Club, The Royal Western India Turf Club Ltd., The Western India Automobile Association Club House Ltd., The National Sports Club of India and Cotacamund Gymkhana Club. *Address:* "Goolestan", 37, Cuffe Parade, Colaba, Bombay 5.

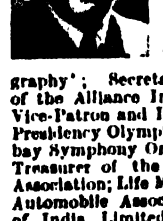


PATEL, Pannalal Nanalal, Gujarati Short Story Writer and Novelist. *b.* May 7, 1912; *Educ.:* Idar Middle School. Services in various walks of life; Liquor Godown Manager, Water Pipe Fitter, Farming, Oilman in Electricity Co. & Water Works, Clerk, Small Merchant, Film Story Writer. *Publications:* Novels: *Malela Jiv; Vilamanan; Bhiru Sathi; Surabhi; Vanvan; Manavini Bhavai; Pachhale Barane; Na Chhutake; Fakiro; Bhagyanan Bhera;* Short Stories: *Sukh Dukhnan Sathi; Jivo Dand, Jindagina Khel; Lakh Chorasi; Panetarna Rang; Suchan Shamanan; Vatrakne Kanthe, Orta; Dilni Vat; Parevdan;* Play: *Jamavaru. Address:* Mandli, Dist. Dungarpur (Rajasthan).

PATEL, Mrs. Sushila Rani Baburao, M.A., L.T., Journalist, Associate Editor of *Filmindia* and Director, Sumati Publications Private Ltd. *b.* Oct. 20, 1918, at Madras. *Educ.:* Had a brilliant first class career; obtained M.A. degree in Science from Madras Univ. with first class honours winning Pulney Audey Gold Medal for Botany, May 1939; passed L.T. (Madras Univ.) in 1941 standing first and won the Univ. Gold Medal. After some experience of teaching, took up journalism in 1942 and joined *Filmindia*; worked in two motion pictures *Draupadi* (1944) and *Gralan* (1946); is keenly interested in classical music; visited America for social studies, 1948. *Hobbies* Music, Arts, Gardening *Publications: Grey Dust; Burning Dust. Address:* "Girnar," Pali Hill, Bombay 20



PATELL, Jehangir J. K., Secretary, W.I.A. Association, Bombay, since 15th April 1956. 2nd August 1905; *Educ.:* St. Xavier's School and College; Davar's College of Commerce and School of Accountancy, London, completed article-ship for Incorporated Accountancy with Messrs. S. B. Billimoria & Co., Bombay. Assistant Secretary, W.I.A. Association, 1931-39, contributed articles on various subjects, particularly on 'Motoring' and 'Photography'; Secretary of the Asian Zone of the Alliance Internationale de Tourisme, Vice-Patron and Life Member of the Bombay Presidency Olympic Association and the Bombay Symphony Orchestral Society; Honorary Treasurer of the Western India Football Association; Life Member of the Western India Automobile Association and the Cricket Club of India, Limited; Member of the Asiatic Society of Bombay; member, Govt. Traffic Advisory Cttee.; Hony. Secy., Governor's Hospital Fund Cttee.; member "D" Ward Rifle Club; Flag Day Appeal Fund Cttee., Pres., Motor Cycle Assoc. *Clubs:* Willingdon, Rotary Club of Bombay; Royal Western India Turf Club; Royal Western India Golf Club, Nasik; M. C. Car Club; President for the last twelve years of the W.I.A.A. Staff Sports Club and the W.I.A.A. Staff Association. *Recreations:* Football, Motoring and Photography. *Address:* Jer Manor, Chanda Ramji Estate, Colaba, Bombay.



PATIALA: Lieutenant-General His Highness Maharajadhiraj Sir Yadavendra Singh Mahendra Bahadur, G.C.I.E. (1945), G.B.E. (1941), LL.D. (1939), Maharaja of. *b.* January 7, 1913; *Educ.:* Aitchison College, Lahore; also studied under an English tutor. Accompanied his father to the first Round Table Conference, 1930; worked with Sir Tej Bahadur Sapru, Col. Haksar and other leading Indian personalities; was member, Standing Cttee. of the Chamber

of Princes for many years; elected its Pro-Chancellor and finally Chancellor; conferred the Hony. degree of LL.D. by the Banaras and Punjab Univs.; underwent complete cavalry and infantry courses; served for many years in the infantry; served in the Police for 5 years; is looked on by all sections of the Sikhs as their head; has always taken a prominent part in social and political activities; is an International cricketer having captained India in Test Matches; is very fond of mountaineering; Pres., Indian Olympic Assoc.; Founder and Life-Pres., Asian Games Federation; Rajpramukh of PEPSU till reorganization of States. *Recreations:* Practically all games, particularly Cricket, Tennis, Horticulture, Agriculture, Gardening. *Address:* Motibagh Palace, Patiala (in Winter), Chail, Simla Hills (in Summer).

PATIL, Bhaurao Payagounda, popularly called 'Karmaveer' Patil, social worker in educational field; founder, 'Rayat Shikshan Sanstha', Satara. *b.* 1887, at Kumbhoj, Kolhapur Dist. *Educ.:* Rajaram High School, Kolhapur. Left school, 1907; was insurance agent, 1910-14, joined Kirloskar Bros Iron Works and Ogale Glass Works as Sales Organiser, took a prominent part in starting Cooper Engineering Ltd.



served as a Recruiting Officer, 1914; took active part in Satya Shodhak Samaj 1914-17; worked hard to promote education among masses, founded 'Shikshan Prasarak Mandal' at Dudhgaon 1919, started boarding places for children at Kale and Nesri, founded 'Rayat Shikshan Sanstha' (Education Society for Peasants), Kale, 1919; shifted to Satara in 1924 with a modest starting of a boarding house, which was later (1927) named as 'Chhatrapati Shahu Boarding House' at the hands of Mahatma Gandhi, the Sanstha with State and public support, canvasses, educates 12,146 students and runs on nine districts of Maharashtra one Pre-primary school, 64 Primary Schools, 3 full grade High Schools, 36 Middle Schools, 26 cosmopolitan boardings, 6 Primary Training Colleges (1 for women) and two Arts Colleges one at Satara and the other at Karad, one B.T. Coll. at Satara, the guiding principles in all these institutions being manual labour, simplicity of life, self-help and abolition of castes and creeds, the first year budget was only Rs. 7, while that of 1957-58 is 26 lakhs of rupees. Presented with a purse of over one lakh of rupees by the Satara Dist. Students Congress in appreciation of his selfless services in the educational and social sphere, 1948, which he donated to the Rayat Shikshan Sanstha, runs an education fund, the Late Laxmibai Patil Memorial Education Fund which is now registered under the Cooperative Society Act and is named as Late Sow. Laxmibai Bhaurao Patil Smarak Shikshanottejak Vidyarthi Sahakari Patpedhi Ltd., Satara, in memory of his wife, out of which loan scholarships to the extent of Rs. 10,000 are annually awarded to the poor and deserving students taking secondary and higher education; in appreciation of his educational work, His Highness the Maharaja of Gwalior donated to the Sanstha four palatial buildings, 1,274 acres of agricultural lands worth Rs. 3 lakhs for educational purposes; member, Extra Mural Board and Poona Univ. Court appointed by the Poona Univ.; Trustee, D. C. Mission Society of India; member: Advisory Board of Shree Gadge Maharaj Seva Sangh; State of Bombay Backward Class Board. *Address:* Rayat Shikshan Sanstha, Satara.

PATIL, Kallangouda Fakirgouda, B.A., Minister for Agriculture and Food, Mysore, since May 1958. *b.* at Kakol, Dharwar Dist. *Educ.:* Kakol, Motebennur, Byadgi and Hubli; Lamington High School, Hubli; Karnatak Coll., Dharwar; Rajaram Coll., Kolhapur. Took active part in the freedom movement; courted jail; Secy., Karnatak Harijan Sevak Sangh, 1934-36; elected Pres., Byadgi Municipality, 1940, elected M.L.A. Bombay, 1946 as a Congress candidate from the Dharwar South Constituency, Parliamentary Secy. to the Minister for Revenue 1946; elected in the General Elections of 1952; Dy. Minister for Agriculture and Forest, Bombay, 1952-56; again M.L.A. Mysore, 1957; was Gen. Secy., M.P.C.C. member, A.I.C.C.; was Chairman Estimates Cttee. *Address:* Bangalore.

PATIL, Ramrao Krishnarao, B.Sc., LL.B., Ex-Minister, Planning and Development, Madhya Pradesh. *b.* Dec 14, 1907. *Educ.:* Morris College, Nagpur; Hindu University Benares Law College, Nagpur; competed and passed the I.C.S. examination in England, 1930; called to the Bar, 1931. Served as Asstt. Commissioner and Deputy Commissioner in different districts of the province; resigned from the I.C.S., 1948; Secretary of the Kasturba and Gandhi Memorial Funds for the Marathi districts of Madhya Pradesh; Minister for Food and Agriculture, Madhya Pradesh; Food Commissioner, Govt. of India; Member, National Planning Commission. *Address:* Civil Lines, Nagpur.

PATIL, S. K., Minister for Transport and Communications, Govt of India, since March 29, 1958. *b.* Aug 14, 1900 in Ratnagiri Dist. *Educ.:* St Xavier's Coll., Bombay and London Univ. Joined non-cooperation movement, 1920 and conducted National Schools till 1924; studied journalism at the London School of Economics and London Univ. Coll. Took part in C.D. movements and was sentenced 8 times, member: A.I.C.C. for last 28 years, Congress Working Cttee., Sept 1947-51, Bombay Municipal Corporation for 17 years; was General Secy., Bombay P.C.C. for 17 years until he became Pres. in 1946, was M.L.A., Bombay for 10 years, was member: Central Board of Film Censors, Chairman, Govt. of India's Film Enquiry Cttee. and Cantonment Cttee., member, C.C.I., Central Council, N.S.C.I., W.I.A.A., etc., Pres., Local Self-Govt. Institute of India, All India Motor Unions Congress; Marathi Granth Sangrahalya, Bombay; International Club and Indo-German Cultural Society, closely connected with various social organisations and educational institutions in the City of Bombay, toured important cities of Europe, America and Pacific coast several times to study City Administration and Motion Picture industry and met important personalities; had the unique honour of being elected Mayor of Bombay for three consecutive terms, 1949-52; Fellow of the Royal Geographical Society for four years; Pres., Brihad Bharatiya Samaj since its inception, toured African and Middle East countries many times in connection with the work of the Samaj; organized the Congress campaign in the Andhra General Elections of 1955; was Pres., I.M.P.P.A. for a year; nominated member, Congress Working Cttee. in Oct 1956; was Pres., Bombay Pradesh Congress Cttee., 1946-57; Minister for Irrigation and Power, Govt. of India, April 1957-March 1958. *Address:* Shanti Kutir, Marine Drive, Bombay 1; New Delhi.



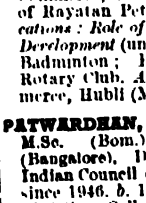
PATIL, Shamrao Ramchandra, Deputy Minister, Sarvodaya, Bombay, since April 1957. *b.* Aug 15, 1902. *Educ.:* Bordi (Thana Dist.). Joined N.C. movement, 1920 and C.D. movement, 1932, courted jail in freedom movement; Secy., Thana Dist. Congress Cttee., 1935-40; its Pres., 1946-April 1952; member, A.I.C.C. since 1953; was General Secy., Maharashtra-P.C.C., elected M.L.A., Bombay from Dahanu-Umbergaon constituency, 1952 and 1957. *Publications:* *Gandhiji's life for Children*, in Marathi, contributed articles to various magazines. *Recreations:* Agriculture. *Address:* Sachivalaya, Bombay 1.

PATNAIK, Anant, a leading Oriya poet; has been an Asstt. Editor and leader writer of the *Samaj*. *b.* 1914. *Educ.:* Graduated from Patna Univ. Participated in the freedom movement, is known for his contribution to modern Oriya literature, chiefly in the field of poetry. *Address:* Dajapala, Cuttack 2.

PATTABHI RAMAN, C. R., B.A., LL.B. (Lond.), Barrister-at-Law, Senior Advocate, Supreme Court; M.P. (Lok Sabha); *b.* Nov 11, 1900. *Educ.:* B.A., Presidency Coll., Madras; LL.B. London School of Economics and Political Science, Barrister-at-Law, Middle Temple. Accompanied as Private Secy. his father who was Chief Delegate to the League of Nations, Geneva, 1927; Pres. for eight years, now Patron Madras Cricket Assoc.; Pres., South Madras Bharat Scouts and Guides; member: Trust Boards and Governing Bodies of the P.S. High School, Mylapore, Madras; The National Girls' High School, Triplicane, Madras and Sri Somasundara Kanya Vidyalaya, Kancheepuram; Chairman, Pradesh Election Tribunal of the Tamil Nad Congress; member, Indian Council of World Affairs and the International Law Assoc., Indian Branch; Foundation member, Indian Law Institute; Hon. Secy., Madras State Bar Federation, Legal Adviser, Indian Delegation to the tenth Session of the Assembly of the United Nations, 1955; returned to the Lok Sabha as Congress candidate from Aduthurai-Kumbakonam-Papanasam-Thiruvaiyar Constituency, March 1957. Panel of Chairmen, Lok Sabha & Member Rules Cttee. *Publications:* "Periyar Water Rights Arbitration" proceedings as Counsel with a foreword by the late Sir Maurice Gwyer, former Chief Justice of India, collaborated with Justice N. Chandrasekhara Aiyar in the XI Edition of Mayne's Hindu Law, articles to various legal and other journals on various subjects. *Address:* "The Grove", Tevanampet, Madras 18; "De Lisle", Ooty amund, Nilgiris; 22, Janpath, New Delhi 1.



PATTANSHETTI, Dr. Chintaman Chandrappa, B.A. (Hons.) (Bom.), M.A. (Bom.), Ph.D. (Bom.), Principal and Professor of Banking, J. G. College of Commerce, Hubli, since 1954. *b.* Feb. 13, 1927, at Sankeshwar. *Educ.:* Sankeshwar, Belgaum and Bombay, took B.A. (Hons.), 1948, M.A., 1950; Ph.D., 1953. Lecturer and Professor of Economics, Lingraj Coll., Belgaum, 1952-54; member, Syndicate, and Dean, Faculty of Social Sciences, and Chairman, Board of Studies in Commerce, Karnatak Univ.; member: Board of Studies in Commerce, Mysore Univ.; Editorial Board of Rayatan Pethe (Peasant's Market). *Publications:* *Role of Banking in India's Industrial Development* (under publication). *Recreations:* Badminton; Photography. *Club:* Hubli Rotary Club. *Address:* J. G. College of Commerce, Hubli (Mysore State).



PATWARDHAN, Dr. Vinayak Narayan, M.Sc. (Bom.), Ph.D. (Lond.), A.I.I.Sc. (Bangalore), Director, Nutrition Research, Indian Council of Medical Research, Coonoor, since 1946. *b.* 10th Jan. 1905; *Educ.:* Ewing Christian Coll., Allahabad, Fergusson Coll., Poona, Indian Institute of Science, Bangalore. Research Asstt., Biochemistry Dept. of the Indian Institute of Science, Bangalore, 1927-32; Grocers' Company Research Scholar, Lister

Institute of Preventive Medicine, London, 1933-34; Asst. Prof. of Biochemistry, Seth G. S. Medical Coll., Bombay, 1935-46; member, Nutrition Advisory Cttee., I.R.F.A. since 1939; F.A.O./W.H.O. Expert Cttee. on Nutrition. *Publications:* Papers on (1) Cheap balanced diets, (2) Basal metabolism, (3) Metabolism of Calcium, phosphorus fats and proteins, (4) Vitamin action and requirements, etc. *Address:* Director, Nutrition Research, I.C.M.R., Coonoor (Nilgiris), S. India.

PAULRAJ, Gedion Devapiriam, Diploma in Fine Arts, Painter. *b.* Sept. 22, 1914; *Educ.:* Govt. School of Arts & Crafts, Madras; took diploma in fine arts, 1936. Has been a painter after completing his education. *Address: Present:* 17, Muthukrishna Mudali Street, San-Thome, Mylapore, Madras 4; *Permanent:* 'Diamond Cottage', Kodaikanal.

PAVATE, Dadasaheb Chintamani, B.A. (Hons.) (Bombay), M.A. (Cantab.), Vice-Chancellor, Karnatak University, since July 1954. *b.* Aug. 2, 1899, *Educ.:* Karnatak Coll., Dharwar; B.A. (Hons.), first class, Bombay Univ., 1923; Sidney Sussex Coll., Cambridge; obtained a double first class in Mathematics Tripos exams. of the Cambridge Univ. and became a Wrangler, 1927. Professor of Mathematics, Benaras Hindu Univ., 1928-30; was admitted to the Bombay Education Service Class I in the Administrative Branch, June 1930; Director of Public Instruction, Bombay State, Jan. 1947—July 1954; appointed by the Govt. of India as a member of the official Language Commission, 1955-56; deputed as Leader of the Indian Delegation to the 19th International Educational Conference, Geneva, July 1956; visited 25 Universities in France, England, America and Japan in the summer of 1957 with a view to studying their administrative structure, courses of studies and the system of examinations. *Publications: Elements of Calculus* and some other books in Mathematics. *Address:* Vice-Chancellor, Karnataka University, Dharwar.

PAVRY, Dr. Dasturmada Jal, M.A., Ph.D., Spiritual Head of the Liberal Zoroastrian Church of Europe and America; Scion of a distinguished high-priestly family; Orientalist and Author. Received highest academic honours at Bombay Univ., 1916-20, and at Columbia Univ., New York, 1921-25. First scholar from India to be elected a Fellow and appointed a member of Columbia Faculty; awarded Bicentennial Medal; represented Columbia Univ. at Univs. of Calcutta, Madras and Bombay Centennial Celebrations, 1957; Delegate to numerous international conferences for establishment of friendly relations between nations; Author of several important works on history and religions of Israel and Iran; delivered lectures upon aspects of Indian and Iranian civilizations at several leading Universities of Europe and America; well-known figure in literary and political circles of England and on the Continent; has travelled all over the world and has world-wide contacts; received and honoured by Kings and Presidents of most of the countries in Europe and the Near and Middle East; has personal acquaintance of leaders of various nations; Member of Council of various international organizations for World Peace and of several scientific and learned societies; Pres., Emeritus Columbia Univ. Alumni Assoc. of India; Hon. Member, Institute Litteraire et Artistique de France; Director, Pan Asian Union; Vice-Pres., World Alliance for International Peace through Religion, of World Fellowship of Faiths and of All-Inclusive Spiritual Centre of Geneva; has touched life at several points and given himself devotedly to the service of his country and larger humanity, identifying himself with various religious, educational and philanthropic movements; edited *Dastur Pavry Memorial Volume* in English, French and German, prepared by 70 savants from 17 countries and published by Oxford Univ. Press in England (1956). *Address:* Malabar Hill, Bombay.

PENDHARKAR, Yeshwant Dinkar, Rajkavi (Poet Laureate) of Baroda (1940), Poet and Author. *b.* March 9, 1899, at Chafal, Dist. Satara; *Educ.:* Sangli High School. Served as a clerk in the Education Dept. for 17 years; a poet of Maharashtra; popularly known as "Yeshwant"; Pres., Marathi Literary Conference at Bombay, 1950; Literary Editor, 'Dnyanprakash', 1947-50. *Publications:* Seven collections of lyrics and 3 longer narrative poems, viz., *Bandishala, Jayamangala* and *Kesyakirit.* A collection of essays and a novel and 6 books for children (Bal Vangmaya). *Address:* 106/34, Sadashiv Peth, Poona 2.

PERIER, Most Rev. Ferdinand, S.J., Catholic Archbishop of Calcutta, since 1924. *b.* Antwerp, 22nd Sept. 1875. Joined Society of Jesus, 1897, nominated Superior of Jesuit Mission in Bengal, 1918; consecrated Coadjutor Bishop, Dec. 21, 1921; Archbishop of Calcutta on June 23, 1924; Grand Cross Order of the Crown; Grand Officer Order of Leopold; Assistant at the Pontifical Throne, 1949. *Address:* 32, Park Street, Calcutta 16.

PETIT, Dinshaw Manockjee, 3rd Baronet, *cr.* 1890. *b.* June 24, 1901, *s.* of Sir Dinshaw Manockjee Petit, 2nd Baronet, and Dinbai; *m.* Sylla, *d.* of late R. D. Tata, 1928; one *s.* and one *d.*; *Educ.:* St. Xavier's, Bombay; Trinity Hall, Cambridge. Called to the Bar, Inner Temple, 1925; member, Lloyds of London; Pres.: N. M. Petit Charities; Sir D. M. Petit Charities; F. D. Petit Sanatorium; Persian Zoroastrian Amelioration Fund; Petit Girls' Orphanage; Sir D. M. Petit Gymnasium; J. N. Petit Institute; Native General Dispensary and the Bombay Society for the Prevention of Cruelty to Animals; Trustee, V. J. T. Institute, Bombay; member, Managing Cttee., B. D. Petit Parsee General Hospital. *Heir:* *s.* Nasserwanji Dinshaw Petit, *b.* Aug. 13, 1934. *Address:* Petit Hall, Malabar Hill, Bombay 6.

PHILIPS, Royappa Nalliah, B.A., L.T. (Madras), Director of Export Promotion, Ministry of Commerce and Industry, New Delhi. *b.* April 14, 1905; *Educ.:* American Coll., Madurai; Bishop Heber Coll., Trichinopoly; Teachers' Coll., Madras; B.A., 1928; L.T., 1932. Vice-Principal, Mehboob Coll., Secunderabad, 1943; commissioned in the Air Force, Dec. 1943; Adjutant, Air Force Units; Asstt. Commissioner of Civil Supplies, Govt. of Madras, 1945; Associate Member (G.T.O.), Civil Selection Board, Govt. of India, 1946; Under-Secy., Home Dept. to the Govt. of India, 1947; Deputy Secy., Ministry of Home Affairs, 1951; Jt. Chief Controller of Imports and Exports, Bombay, 1953-57; Custodian of Enemy Property to the Govt. of India, 1955-57. *Recreations:* Tennis, Horse Riding. *Address:* Ministry of Commerce and Industry, Govt. of India, New Delhi.

PHOOKAN, Nilmani, a leading Assamese poet and journalist; for some time President, Asam Sahitya Sabha. Is a prominent figure in the public life of Assam; is also a gifted orator and is popularly known in his State as 'Bagmiphar'; occupies a distinctive place in modern Assamese literature both as a master of prose style and as a poet. *Address:* Jorhat, Assam.

PILLAI, J. Sivashanmugam, M.A., Member, Union Public Service Commission, since Aug. 16, 1955. *b.* Feb. 24, 1901; *Educ.:* Loyola College, Madras. Mayor of Madras, 1937-38; Speaker, Madras Legislative Assembly, 1945-55. *Address:* Mayor Sivashanmugam Pillai Street, Nungambakam, Madras; 6, Robert's Road, New Delhi.

PILLAI, Sir Narayana Raghavan, K.C.I.E. (1946), B.A. (Madras), 1910, B.A., LL.B. (Cantab.), 1922, Hon. D. Litt. (Travancore), 1943, C.I.E., C.B.E., I.C.S., Secretary-General, Ministry of External Affairs, Govt. of India and Chairman, Board of Directors, Hindustan Machine Tools. *b.* July 24, 1898; *Educ.:* Christian College, Madras and Trinity Hall, Cambridge. Entered I.C.S. in 1922 and served till 1927 in Madhya Pradesh; Assistant Collector of Customs, 1927; Deputy Director of Commercial Intelligence, 1929; Deputy Secretary to the Government of India, Commerce Department, 1931; Collector of Customs, 1936; Joint Secretary to the Government of India, 1938; Addl. Secretary to the Govt. of India, 1941; Secretary to the Govt. of India, 1942; Commissioner General for Economic and Commercial Affairs in Europe, Paris, 1948; Secy. to the Cabinet till 1952. *Address:* Ministry of External Affairs, New Delhi.

PILLAI, T. M. Narayanaswamy, M.A., B.L., Dewan Bahadur (Jan. 1, 1937), Vice-Chancellor, Annamalai University. *b.* Aug. 1891; *Educ.:* St. Joseph's Coll., Trichinopalli; Presidency Coll. and Law Coll., Madras. Was a leading Advocate at Tiruchirapalli, appointed Govt. Pleader and Public Prosecutor; was Pres., Dist. Board for 6 years and Chairman, Municipal Council, Tiruchirapalli, for a year; elected member, former Madras Leg. Council, 1924-32; took a prominent part in the field of Co-operation, was Pres., Trichy Dist. Co-operative Central Bank for six years; represented Madras Presidency at the All-India Co-operative Conference, 1936; Chairman, Cttee. on Co-operation appointed by the Govt. of Madras; appointed Pres., H.R.E. Board by the Govt., 1940; Member, Madras Public Service Commission, 1941-48; Chairman, 1948; retired, 1953; elected to the Madras Council, 1953; was member, Senate of Madras Univ. from 1942; also Chairman Board of Studies in Tamil; nominated to the Senate of the Annamalai Univ., 1954. *Publications:* A pamphlet on *Thirumoolar. Club:* Madras Cosmopolitan Club. *Address:* Vice-Chancellor, Annamalai University, Annamalainagar (South India).

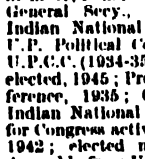
PODAR, Ramnath Anandilal, Industrialist and business man *b* Jan. 21, 1904; Founder Marwari Vidyalaya High School, Jodhpur; father's business, 1927; Chairman of the Group of Concerns; The Rajasthan Industrial Corporation, Development Council for Textile Industry; Millowners' Assoc., Bombay, Chairman and 1958; Cotton Advisory Board, Delhi; Member, State Bank of India, J.P. & Hon. Presidency Magistrate; Member; Rajya Sabha (1952-58); Member, Bombay Leg. Assembly (1946-52); Member, Municipal Corporation (1943-52); Constitutional Reforms Advisory Cttee., Jaipur State (1943); Member, Cttee. of Federation of Indian Chambers of Commerce & Industry; Member, Indian Merchants' Chamber; All India Organisation of Industrial Employers; Social Service League; Senate, Univ. of Rajputana; Senate, Univ. of Bombay; All-India Handloom Board; numerous Institutions having activities connected with medical relief, social welfare, imparting of education; Member and Director of many commercial and industrial enterprises. *Address:* Podar Chambers, Fort, Bombay.

PONOMARENKO, His Excellency Mr Panteleimon Kondratyevich, Ambassador Extraordinary and Plenipotentiary of U.S.S.R. in India, since Dec. 1957. *b.* in a village in the Kuban; *Educ.:* Graduate of the Moscow Institute of Transport Engineers. Took employment at the age of 12 in a smithy fixing wagon wheel axles and horses; worked on the railroad from the age of 18 as a stoker, then as an assistant and finally as driver; was a section [illegible] during the construction of a bridge across the Volga; was in charge of a laboratory of the U.S.S.R. Electro-technical Institute; was appointed to commanding posts in the field during World War II; served as a member of the Military Councils at [illegible] fronts; has held for many years high executive posts as Chairman of the Council of Ministers of Byelorussian S.S.R. and First Secretary of the Republic's Central Cttee. of the Communist Party; as U.S.S.R. Minister of Culture took

part in organising the first Indian Art Exhibition in Moscow, 1953; was deputed to develop virgin lands to a decisive sector in the "Battle for an Abundance of Grain", Kazakstan, 1954; was elected First Secy. of that Republic's Central Cttee. of the Party; was decorated with two Orders of Lenin, the Order of Suvorov, First Class, and the Order of the Patriotic War, First Class, for his war-time services; decorated with the highest military award, the Order of Grunwald, First Class, by the Polish Govt., 1945. *Publications:* Several speeches, articles and pamphlets on Byelorussia; co-author of *Electric Locomotives—A Guide for Drivers and their assistants*. *Address:* Travancore House, Curzon Road, New Delhi.

POTDAR, Datto Vaman, Mahamahopadhyaya (1946), B.A. (Bombay). Member, State Board for Historical Records (Bombay). *b.* Aug. 5, 1890; *Educ.:* Poona. Professor of Marathi and History in the S.P. College, Poona, 1922-35; Orator, Educationist; researches in the field of Mahratta History and Literature; reared up the Bharat Itihasa Sanshodhak Mandal, Poona; founded the Indian History Congress in Poona, 1935; presided over its Delhi session, 1948 and the Ahmednagar session of the Maharashtra Sahitya Sammelan, 1939; nominated to the Court and Academic Council of the Poona Univ.; Chairman, Shikshana Prasaraka Mandali, Poona; member: Adv. Board for Marathi Sahitya Akademi (Govt. of India) and All India Radio, Poona; Kul-Guru of the Tilak Vidyapeeth, Poona; Pres., Maharashtra Rashtra Bhasha Sabha; represented the Govt of Bombay at the 3rd International Congress on Archives at Florence, 1956. *Potdar Commemoration Volume:* presented on Oct. 28, 1950 *Publications: A History of Marathi Prose Literature*, etc. *Address:* "Lokakalyan," 77, Shanwar Peth, Poona 2.

PRAKASA, Sri, B.A. (Allahabad), B.A., LL.B. (Cantab.), Bar-at-Law, Padma Vibhushan (Jan. 26, 1957), Governor of Bombay, since December 10, 1956 *b* August 3, 1890; *Educ.*: B.A., 1911; called to the Bar, 1914. Educationist, Journalist and Politician; connected with the Benares Hindu Univ. (1914-17); *Leader*, Allahabad (1917-18); *Independent*, Allahabad (1919); *Aj*, Benares (1920-43), *National Herald*, Lucknow, since 1938; *Sansar*, (Benares) (1943-49); member, A.I.C.C. (1918-45); Foundation member, Kashi Vidyapith (1921); member, Benares Municipal Board (1921-25); General Secy., U.P.C.C. (1928-34), and Indian National Congress (1920-31); Pres., U.P. Political Conference (1934) and Pres., U.P.C.C. (1934-35); M.L.A. (Central), 1934; re-elected, 1945; Pres., Karnatak Provincial Conference, 1935; Chairman, Reception Cttee., Indian National Congress, 1936; imprisoned for Congress activities in 1930, 1932, 1941 and 1942; elected member, Indian Constituent Assembly from U.P., 1946; High Commissioner for India in Pakistan, 1947-49; Governor of Assam, Feb. 1949-May 1950; Minister of Commerce, Govt. of India, May 1950-Feb. 1951; Minister for Natural Resources & Scientific Research, Govt. of India, Feb. 1951-March 1952; elected M.P. in the 1st general elections, Feb. 1952; subsequently resigned; Governor of Madras, March 1952-Dec. 1956. *Club:* Rotary Club, Banaras. *Publications: Annie Besant, as Woman and as a Leader* (in English) and *Grihasta Gita, Sphut Vichar* and *Nagarik Shastra* (in Hindi). *Address:* Sevashrama, Banaras; Raj Bhavan, Bombay 6.



PRASAD, Dr. Balbhadra, B.Sc. (Lond.), D.Sc. (Lond.), F.I.C., Vice-Chancellor, Patna Univ., since March 1957. *b.* Jan. 31, 1905; *Educ.:* Patna Coll., Patna, 1922-27; graduated with 1st class Hons. in Chemistry, 1926; secured Univ. scholarship for foreign studies, Univ. Coll., London, 1927-29; got 1st class Hons in Chemistry, 1929; D.Sc. from London, 1943. Asstt. Prof. of Chemistry, Ravenshaw Coll., Cuttack, 1929-36; Professor in the same Coll., Feb. 1936-52; appointed Director of Public Instruction, Orissa, 1952; Pres., Board of Secondary Education, Orissa, 1954 March 1957; member, Academic Council, Senate and Syndicate, Utkal Univ. upto March 1957. Dean, Faculty of Science, Utkal Univ., 1948-57; member, Council of the Indian Chemical Society for some time; Pres., Orissa Branch, Indian Chemical Society upto 1957. Working Pres., Orissa Athletic Assoc., 1955-57. Vice-Pres., Orissa Olympic Assoc., 1955-57. *Publications:* Over three dozen papers in Indian and foreign journals independently and with co-workers on (*a*) Viscosity of Liquids and Solutions and (*b*) Electro-Chemistry. *Address:* Vice-Chancellor's Residence, Fraser Road, Gandhi Maidan Corner, Patna 1.

PRASAD, Dr. Mata, M.Sc., D.Sc., F.R.I.C., F.N.I., Vice-Chancellor, Vikram Univ., Ujjain, since October 1956. *b.* Feb. 1898; *Educ.:* Agra, Banaras and London; was the recipient of merit scholarship at the B.Sc. examination; was the U.P. Govt. Scholar for research at Banaras, worked at the Royal Institution, London, 1926 and 1934; Fellow of several societies in India. President, Indian Science Congress, Chem. Sec., 1941; Principal, Institute of Science, Bombay, 1946-53 and Professor of Physical and Inorganic Chemistry, 1925-53; Director, Central Salt Research Institute, Bhavnagar, 1954-55; was invited by the U.S. Govt. to visit U.S.A. on Leaders Programme, 1951; Pres.: Indian Chemical Society, 1953-54; Institution of Chemists (India), 1954-55. *Publications:* About 140 original papers published in journals in India and abroad on Colloidal Chemistry, Magneto Chemistry, Photo Chemistry, X-rays and Crystal structure, Chemical Kinetics and many industrial topics. *Clubs:* Rotary Club, Bombay and Bhavnagar. *Address:* Vikram University, Ujjain.

PRASAD, Dr. Rajendra, M.A., M.L., LL.D., President, Indian Republic, since Jan. 26, 1950. *b.* Dec. 3, 1884; *Educ.:* Presidency Coll., Calcutta. Prof. of English, G.B.B. Coll., Muzaffarpore, 1908; practised as lawyer, Calcutta High Court, 1911-16; Patna High Court, 1916-20; joined Mahatma Gandhi in Champaran agrarian movement; suspended practice as lawyer and joined non-co-operation movement, 1920; General Secretary, Indian National Congress; member, Congress Working Committee; President, Indian National Congress, 1934, 1939, 1947-48; imprisoned several times for taking part in Civil Disobedience Movement; for last time, Aug. 1942; released, 1945; Minister for Food and Agriculture, Govt. of India, 1946-48; Pres., Indian Constituent Assembly, 1946-50; other activities include propagation of Hindi, journalism, and social, humanitarian and relief work in general; one of the founders of the Patna English daily newspaper, *Searchlight* and the Hindi Weekly, *Desh*. *Publications: India Divided; Atma Katha* (autobiography), *Mahatma Gandhi in Champaran* and *At the Feet of Mahatma Gandhi*. *Address** Rashtrapati Bhavan, New Delhi.



PRASADA, Krishna, I.C.S. (retd.), Secretary, Bharat Sewak Samaj. *b.* Aug. 4, 1894; *Educ.:* Bareilly College, Bareilly, and New College, Oxford. Started service in 1921 in U.P. where he was Collector & District Magistrate till 1934, when he was appointed P.M.G. Led the Indian Delegations to the International Tele-communications Conferences, Cairo, in 1938, Buenos Aires, 1952, and to the International Postal Congress, Paris, in 1947; Oxford Tennis Blue (1921); played for India in the Davis Cup in 1927 and 1932; Pres., Indian Lawn Tennis Assoc., 1951; Director-General, Posts and Telegraphs, 1946-55. *Address:* 2, Lodi Estate, New Delhi 3.

PRASADA, Shanker, M.Sc., I.C.S., Director-General, Posts and Telegraphs,* since Jan. 15, 1958. *b* March 11, 1905; *Educ.:* Allahabad Univ., Allahabad, Magdalene College, Cambridge. Joint Magistrate, 1930-36. Magistrate & Collector, Shahjehanpur, 1937-38; Dy Secy., Govt. of U.P., Education & Industries Dept., 1938-41; Settlement Officer, 1941-42; Excise Commissioner, Uttar Pradesh, 1942-46; Magistrate & Collector, Meerut, 1946-47; Chief Commissioner, Ajmer, 1947-48; Chief Commissioner, Delhi, 1948-54; Chairman Joint Water and Sewage Board, Delhi, 1948-54; Delhi Road Transport Authority, 1951-54, Chairman, Indian Airlines Corporation, March 1954-Jan 1958; member, Air India International Corporation, till Jan. 1958. *Club:* Roshanara Club, Delhi. *Address:* Delhi.

PREMI, Harikrishna, Hindi Writer; Hindi Producer, All India Radio, Jullundur. *b.* Oct. 27, 1907 Joint Editor: 'Tyag Bhoomi', Ajmer, 1927-29, 'Karmveer', Khandwa, 1931; Editor, 'Bharat', Lahore, 1932; Story Writer, Roopum Art Productions, Bombay, 1932; worked in: Pancholi Productions, Lahore, 1944; Murari Pictures, Bombay, 1946; Rajkirti Chitra, 1947; was Proprietor and Producer, Kalakar Chitra, Bombay, established Bharti Printing Press and Samayik Sahitya Sadan, Lahore, 1935 and 1944, imprisoned in national movement, 1930 and 1942. *Publications:* Poetic works: *Ankhon Men, Jadugarni; Swarna Bihar; Anant Ke Path Par, Agragan, Pratima; Roop Darshan; Bandana Ke Bol*; Plays: *Raksha Bandhan; Patal Vijay; Shiva Sadhana; Prati Shodh; Ahuti; Bandhan; Prakas Stambha; Chhaya, Swapna Bhang; Vishpan; Shatranj Ke Khiladi; Uddhar; Shapath, Badalon Ke Par; Kirti Stabh; Bhagna Prachir; Sanrakshak; Mamta; Vida*. *Address:* All India Radio, Jullundur.

PREMJI, Mahomed Hussein Hasham, B.A., J.P., Business man and Industrialist; Ex-Chairman, Bombay State Electricity Board; Member, Central Board of Directors, State Bank of India; Dir. and member, Exec. Cttee., Life Insurance Corporation of India; Dir. of several other Cos.; Sole Proprietor of Hasham Premji with offices in several parts of India. *b.* May 30, 1915; *Educ.:* Nowroji Wadia Coll., Poona; Elphinstone Coll., Bombay. Ex-Pres., Indian Merchants' Chamber, Bombay; member, Managing Cttee., Indian Merchants' Chamber, Bombay; served on various Cttees. appointed by the Govt. of India and the Govt. of Bombay on food and industries; member, Koyna Control Board. *Recreations:* Horse Riding, Tennis. *Clubs:* Lady's Club, Poona; Willingdon Sports Club; C.C.I.; Orient Club. *Address: Residence:* 54, Byramjee Hill Road, Bandra, Bombay 20; *Office:* 5, Ghoga Street, Fort, Bombay 1.

PROSAD, Mr. Justice Sarjoo, B.A. (Hons.), M.A., B.L., Chief Justice of Assam, since Feb. 1953. *b.* Oct. 11, 1901; *Educ.:* Patna. Advocate, Patna High Court, 1924; Part-time Lecturer, Govt. Law Coll., Patna, 1929-39; Fellow, Patna Univ., 1937-39; member, Bar Council, Patna, 1945-52; Judge, Patna High Court, 1950; Pres., Governing Body, Govt. Law Coll., Patna, and Examiner in Law for Honours and Master of Law Degrees and Member, Faculty of Law and Board of Studies in Law, Patna Univ., 1950-53; Pres., Rotary Club, Gauhati, 1955-56. *Address:* Assam High Court, Gauhati.

* It is reported that he is to be Special Secretary, Kashmir Affairs, Ministry of Home Affairs.

PURANIK, G. V., *alias* **Nanasaheb,** Registered Medical Practitioner, Panvel, Bombay. *b.* March 1, 1907; *Educ.*: V. K. High School, Panvel; Fergusson Coll., Poona; Grant Medical Coll., Bombay. Ex-Pres., Maharashtra Chamber of Commerce, Bombay; Chief Editor, *Arogya-Mandir* (Monthly Magazine, devoted to Health, Physical Culture and Indigenous Systems of Medicine), Panvel; Director, Sathe Biscuit and Chocolate Works Ltd., Poona, Indian Pharmacists' Assoc., Bombay; Pres., Ayurvidya Prasarak Mandal, Bombay; Ex-Vice-Pres., All-India Manufacturers' Organization; presided over the Maharashtra Provincial Ayurvedists Conference, Kolhapur, 1949. Managing Director, Dhootapeshwar Industries Ltd., Bombay, Dhootapeshwar Sales Corporation Private Ltd., Bombay; Director, Dhootapeshwar Prakashan Private Ltd., Bombay, Swastik Textiles, Ltd., Bombay, Panvel Taluka Electric Development Co. Ltd., Panvel, Property Owners' Assoc., Bombay; member, All-India Manufacturers' Organization Delegation which visited U.K., Europe and U.S.A., 1946-47; member, Indian Delegation to the World Economic Conference, held in Moscow, 1952; Sales Tax Cttee., Bombay State, Cttee. for Standard Ayurvedic Herbs & Drugs, Bombay; presided over the All Maharashtra Physical Culture Conference, Poona, 1944, Vice-Pres., Mumbai Marathi sahitya Sangha; Chairman: Board of Research in Ayurveda, Bombay State, The Executive Cttee. Bombay Physical Culture Assoc., Bombay; member, Executive Cttee., A.I.M. Assoc., Assoc. of Indian Industries Bombay, Indian Merchants' Chamber, Bombay, Indo-Japanese Assoc., Bombay. *Recreations*: Tennis, Photography. *Clubs*: W.I.A.C., C.C.I., Club of Maharashtra, P. J. Hindu Gymkhana Bombay, National Sports Club of India. *Address*: Dhootapeshwar Prakashan, Girgaon, Bombay.



PURI, Sardar Bahadur Balwant Singh, Padma Shri (Jan. 1958), C.I.E. (1946), O.B.E. (1942), K.St.J. (1948), Sardar Bahadur (1926), Secretary-General, Indian Red Cross Society and St. John Ambulance Assn. and Brigade, *b.* 1892. *Educ.*: Sukkh, Lyallpur and Amritsar. Hon. Secy., Indian Leprosy Assoc.; member, Central Cttees. of Tuberculosis Assoc. of India; Central Leprosy Training and Research Institute, Central Emergency Relief Organisation Advisory Cttee.; Indian Soldiers', Sailors' and Airmen's Board; Ex-Services Assoc. of India; represented India at: Advisory Conference of National Red Cross Societies (Geneva), 1945, meetings of Board of Governors of League of Red Cross Societies (Paris), 1945 and (Oxford), 1946, National Red Cross Societies Conference at Geneva, 1946, and XVIIth International Red Cross Conference (Stockholm), 1948; member, Federal Public Service Commission, 1948-49; Leader, Indian Red Cross delegation to the XVIIIth International Red Cross Conference, Toronto, July-Aug. 1952; visited on invitation America and Europe. American Red Cross National Headquarters and the International Red Cross Committee's headquarters in Geneva, Sept. 1952; member, Indian Advance Party to Korea in connection with the repatriation of P.O.Ws., Aug. 1953; Secy.-Genl., XIXth International Red Cross Conference, New Delhi, Oct.-Nov. 1957; Pres., VIth All-India Leprosy Workers' Conference, Gorakhpur, Dec. 1957; Pres., Sikh Co-operative Thrift & Credit Society, 1924-49 and its Patron since; awarded Silver Jubilee Medal (1935), and Coronation Medal (1937); French and Greek Red Cross Silver medals, 1945 and 1946 and Japanese Red Cross Order of Merit, 1954; awarded medals of merit by the National Red Cross Societies of Sweden, Norway, Denmark, Finland, France, Belgium, Poland, Iran, Austria & Portugal (1957-58). *Clubs*: Delhi Gymkhana and Golf Clubs. *Address*: Red Cross Flats, Wellesley Road, New Delhi.

PURI, Dev Datt, B.A. (Punjab), M.L.A. (Punjab), Business man. *b.* August 4, 1914; *Educ.*: Central Model School, Lahore; Forman Christian College, Lahore. Started career as an apprentice in 1933 with the Jallakshmi Sugar Mills Co. Ltd., Doiwala; appointed Manager of the Saraswati Sugar Mills, Yamunanagar (Distt. Ambala), 1935; promoted General Manager, 1937; Managing Director, 1941; appointed Managing Director of The Saraswati Sugar Syndicate Ltd., Yamunanagar, owning the Saraswati Sugar Mills, Yamunanagar (Distt. Ambala), 1946; appointed Mg. Dir., The Indian Sugar & General Engineering Corporation Ltd., Yamunanagar (Distt. Ambala), 1946, Pres., Municipal Cttee., Yamunanagar; elected member, Punjab Vidhan Sabha, 1952; re-elected, 1957; Delegate to the United Nations Sugar Conference, New York and Geneva, 1956. *Address*: "Saraswati House", P.O. Yamunanagar, Distt. Ambala, Rly. Stn. Jagadhri, Northern Rly.

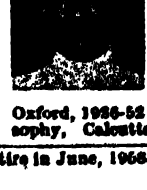


PUROHIT, K. J., *alias* **Shantaram,** M.A., Marathi Short Story Writer, Lecturer in English, Vidarbha Mahavidyalaya, Amravati, since 1946. *b.* June 15, 1923. *Educ.*: Coll. of Science and Morris Coll., Nagpur. Often, broadcasts from Nagpur. *Publications*: *Sandyacha Rang, Mamaor, Sharva*, all collections of short stories, *Saudachi Bang Tuza*, a collection of personal essays in Marathi, several articles, stories and the like mostly in Marathi and a few in English. *Recreations*: Tennis, Bridge, Hiking. *Clubs*: Reforms Club, Amravati; Colony Club, Amravati. *Address*: P.W.D. Bungalow No. 9, V.M.V., Amravati (Bombay).

PURUSHOTTAM, Jatavallabha, M.A. (Madras) in Sanskrit and Telugu, Head of the Department of Sanskrit, S.R.R. and C.V.R. College, Vijayawada, since June 1948. *b.* Aug. 2, 1906. *Educ.*: Taylor High School, Narsapur, Maharajah's College, Vizianagaram, Principal, S.V.J.V. Sanskrit College, Kovvur, West Godavari Dist., 1932-48; Congress Delegate, 1943. *Publications*: *Vedic Women*, *Women in the Smritis*; *Hinduism Introduction to Bhagavat Gita*, *Chitra Satakam*, a century of slokas in sanskrit, *Bharatiya Vaibhava*, etc. *Address*: Vijayawada (Bezwada).

RACHIAH, N., B.A., B.L., Minister for Social Welfare, Excise & Prohibition, Mysore, since May 1958. *b.* May 8, 1920 in Nagarle Village, Mysore Dist.; *Educ.*: B.A. from Maharaja's Coll., Mysore; B.L. from Law Coll., Bangalore. Was member of Parliament, 1951-57; was elected member, Cttee. of the Congress Party in the Parliament; member, Estimates Cttee. of Lok Sabha; associated with many social, educational and other cultural activities; elected M.L.A., Mysore, 1957. *Address*: Bangalore.

RADHAKRISHNAN, Sir S., Kt. (1931), F.R.S.L., M.A., D.Litt. (Hon.), LL.D., D.C.L., Litt.D., F.B.A., **Bharat Ratna (1954), German pour la merite (1955),** Vice-President, Indian Republic. *b.* 5th Sept. 1888; *Educ.*: Madras Christian College. For some time Prof. of Philosophy, Presy. Coll., Madras and in Mysore Univ.; Upton Lecturer in Comparative Religion, Manchester Coll., Oxford; Hibbert Lecturer, 1929-30; Vice-Chancellor, Benares Hindu Univ., 1939-48; Spalding Professor of Eastern Religions and Ethics, Oxford, 1936-52; George V Professor of Philosophy, Calcutta, 1921-39; member, International Cttee. on Intellectual Co-operation, 1931-39; member and leader, Indian Delegation, U.N.E.S.C.O., 1946, 1947, 1948, 1949, 1950; Pres., 1952; elected Chairman of the Executive Board, U.N.E.S.C.O., 1948; Chairman, Univ. Comman., Govt. of India, 1948; Indian Ambassador Extraordinary and Minister Plenipotentiary to Soviet Russia, 1949-52; Chancellor, Delhi Univ., 1953; Chairman, Indian P.E.N.; Vice-Pres., International P.E.N. Elected Vice-President, Indian Republic, 1952 and again 1957; went on a two-month goodwill tour of European countries namely Belgium, Poland, Czechoslovakia the Soviet Union, Hungary and Bulgaria, and African countries namely East and Central Africa, June July 1956; received the Honorary Professorship of Moscow Univ., June 18, 1956; visited Singapore, Indonesia, Japan and China on a goodwill tour, Sept.-Oct. 1956, went on a three-week tour of the Indochina States, China, Mongolia and Hong-Kong, Sept. '57. *Publications*: *Philosophy of Rabindranath Tagore*, *Reign of Religion in Contemporary Philosophy*, *Indian Philosophy*, 2 Vs., *The Hindu View of Life*, *An Idealist View of Life*, *East and West in Religion*, *Kalki or the Future of Civilisation*, *The Religion We Need*, *Gautama the Buddha*, *Eastern Religions and Western Thought*, *India and China*, *Religion and Society*, *Education, Politics and War*, *Bhagavadgita*, *Dhammapada*, *The Principal Upanishads*, *Recovery of Faith*, *East and West*. Articles on Indian Philosophy and others in Encyclopædia Britannica. *Address*: 30, Edward Elliot Road, Mylapore, Madras; 2, King Edward Road, New Delhi.



RAGHAVACHARI, Nemam Echambadi Srinivasa, B.A. (Hons.), I.C.S., Chief Secretary to Govt. of Kerala since Oct. 1956. *b.* June 10, 1912. *Educ.*: Venkatagiri Raja's Coll., Nellore and Presidency Coll., Madras; B.A. (Hons.) in Mathematics, 1932; passed I.C.S. in open competition from London in 1936. Asst. Collector, Kurnool, 1936-38; Sub-Collector, Tindivanam and Nagapattinam, 1938-41; Under Secy. to Madras Govt., Public and P.W. Depts., 1942-44; Joint Provincial Textile Commissioner, Madras, 1945-47; Agent of Govt. of India in Ceylon, Kandy, 1947-48; First Secy. to High Commissioner for India, Ceylon, 1948-51; Representative, U.N. Technical Assistance Administration for Asia and Far East, Bangkok, 1951; Collector of Malabar, 1953-54; Dir. of Community Devpt., Madras, 1954-56. *Recreations*: Golf. *Address*: Chief Secretary to the Govt. of Kerala, Trivandrum.

RAGHAVAN, H. E. Shri Nedyam, B.A. (Madras), Barrister-at-Law (Inner Temple), Indian Ambassador in Argentina. *b.* June 23, 1900. *Educ.*: Christian Coll., Madras; Council of Legal Education, London. Practised Law in Malaya, 1928-47; Consul-General for India in Indonesia, 1947-48. Indian Ambassador to Czechoslovakia, 1948-50; Ambassador to Belgium and Minister to Luxemburg, 1950-51; Ambassador in Switzerland and Minister to the Holy See and Austria, 1951-52; Ambassador in China, 1952-. *Address*: C/o Ministry of External Affairs, New Delhi.

RAGHAVAN, Dr. V., M.A., Ph.D., 'Kavikokila' for poetry (1954), 'Kane Gold Medal' for research (1953), Professor of Sanskrit, Madras University. *b.* Aug. 22, 1908; *Educ.*: Govt. High School, Tiruvarur; Presidency Coll., Madras; took Ph.D., 1935. Superintendent, Saraswati Mahal Mss. Library, Tanjore (1929-35), Senior Asstt., Catalogus Catalogorum, Madras Univ. (1935), Asst. Editor (1938); Junior Lecturer in Sanskrit (1939); Senior Lecturer in Sanskrit (1948); Reader and Head of the Department of Sanskrit, Madras Univ. (1949-55); Professor and Head of the Dept. of Sanskrit (1955); has toured extensively in Europe (1953-54). *Publications*: *New Catalogus Catalogorum*, Vol. I; *Sringara Prakasa*, *Ptn.* I, *The Number of Rasas*; *Some Concepts of Alankara Sastra*; *Sringara Manjari of*

* According to present arrangement is due to retire in June, 1958.

Shah; *Varalakshmi vratam* (Tamil short stories); *Prayers, Praises and Psalms*, *Yantras or Mechanical Contrivances in Ancient India*; *The Social Play in Sanskrit*; *Nrttaratnavali of Jayasenapati*; *The Indian Heritage*; *Love in the Poems and Plays of Kalidasa*; *Sanskrit and Allied Indological Studies in Europe*; *Poems and Playlets* in Sanskrit. *Address*: Department of Sanskrit, University of Madras, Madras 5; *Residence*: No. 7, Srikrishnapuram Street, Royapetta, Madras 14.

RAGHU RAMAIAH, Kotha, M A, LL B, Barat-Law, Deputy Minister for Defence, Govt. of India, since May 1957. *b.* Aug 6, 1912; *Educ.*, Andhra Christian Coll, Guntur; Lucknow Univ.; Middle Temple, London Practised in Madras High Court, 1937-41; joined Provincial Judicial Service, 1941, held various posts in the Madras Govt. and Govt of India; resigned from Govt. service, 1951; enrolled as Advocate, Supreme Court; member Estimates Cttee, Lok Sabha, 1954; Ex.-Cttee, Congress Party in Parliament, 1954, Ex Cttee, Indian Institute of Public Administration, 1954, Railway Corruption Enquiry Cttee, 1954, Indian Central Tobacco Cttee, since 1953, General Purposes Cttee of Lok Sabha, since 1955, Rules Cttee of the Lok Sabha, since 1955; Legal Advisory Cttee, A I C C, since 1956, Secy, Congress Party in Parliament, 1955 Vice-Pres, Indian Central Tobacco Cttee, 1955-56, Alternate delegate to the Trusteeship Cttee of the U N, 1956; Alternate delegate to the General Assembly of the U N, 1956; Delegate to the Inter-Parliamentary Union Meeting at Nice (France), 1957, Chairman, Petitions Cttee of the Lok Sabha since 1955. *Address*, 14, Asoka Road, New Delhi.

RAGHUBIR SINH, Maharaj Kumar Dr., M A., D Litt., LL.B., M.P. (Rajya Sabha), Heir-Apparent of Sitamau (Malwa). *b* Feb. 23, 1908; *Educ.*: At home and the Holkar Coll, Indore; took B A (1928), LL B. (1930) and M A. (1933) from the Agra Univ.; awarded D Litt on the thesis *Malwa in Transition*, 1936. Closely associated with the Sitamau State Administration, 1934-38; High Court Judge, Sitamau State, 1932-40; Pres., Sitamau State Shasan Samiti (Executive), 1939-41, 1945-48; Pres., Sitamau State Rajya Parishad (Legislature), 1939-41 and 1945-46; actively participated in the Chamber of Princes affairs; took a leading part in bringing about the formation of the Madhya Bharat Union, 1948; member of Parliament (Rajya Sabha) since Apr. 1952; attended the XIth Session of the United Nations General Assembly as the Parliamentary Adviser to the Indian Delegation to U N.; served in the Indian Army as an Emergency Commissioned Officer, 1941-45; Capt (1941), Major (1942); an eminent writer of Hindi prose and a historian of great repute; awarded the Mangala Prasad Prize for the year 1945 for his Hindi book *Malwa Men Yugantar* by the Hindi Sahitya Sammelan, Allahabad; awarded a prize by the U P. Govt. for his Hindi book *Purva-Adhunik Rajasthan*, Feb. 1954; Corresponding member, Ind. Hist. Rec. Comm., 1937-42 and since 1952; presided over Local Hist. Section (Dec. 1952) and Mughal Hist. Section (Dec. 1953) of Ind. Hist. Cong at Gwalior and Waltair Sessions respectively; owns a library, Shri Raghubir Library, at Sitamau, having a large collection of important historical manuscripts and rare printed books on the Muslim and Maratha periods of Indian History. *Publications*: (Hindi) *Purva-Madhyakalin Bharat*, *Bikhare Phool*, *Sapta Deep*, *Malwa Men Yugantar*, *Shesha Smritiyan*, *Jeevan Dhuli*, *Jeevan Kan*, *Rallam ka Pratham Rajya*, *Purva-Adhunik Rajasthan*; (English) *Malwa in Transition*, *Indian States and the New Regime*, *A Hand-List of Important Historical Manuscripts in Shri Raghubir Library*. Edited, (Hindi) *Kahani*; *Nai-Puran*; *Ram-Charitra* by Raghunath 'Rasal', (English) Poona Residency Correspondence Series, (Vol IX) *Daulat Rao Sindhia and Northern Indian Affairs* (1800-1803); (Vol X) *Treaty of Bassein and the Anglo-Maratha War in the Deccan* (1803-04), (Vol Extra) *Selections from Sir C. W. Malet's Letter-Book*: 1780-1784. Translated into Hindi Dr. Jadunath Sarkar's *A Short History of Aurangzib* under the title *Auranzeb*. *Address*: "Raghubir Niwas", Sitamau (Malwa).

RAHA, Kshetra Mohan, B.A (Cantab.), D I C A F R Ae S, M Ae S I Director General of Civil Aviation, Govt of India *b* Nov 7 1905 *Educ*: Hastings House School, Calcutta Perse School, Cambridge; Trinity Coll, Cambridge; Imperial Coll of Science & Technology, London. Appointed Aerodrome Officer, Civil Aviation Directorate, Govt of India, 1931; Representative of India on the Council of the International Civil Aviation Organization, Montreal 1946-47 Dy Director General of Civil Aviation, 1947-58 *Recreations*: Indoor hobbies (Electronics) *Clubs*, Delhi Gymkhana Club National Sports Club. *Address*: 12, Asoka Road New Delhi.

RAI, Aftab, Barrister-at-Law, Hony Adviser (Industries), Ministry of Rehabilitation Govt of India *b* Oct 24 1895 *Educ* Private Glasgow and Dublin Served 1st World War, with Indian Volunteers Ambulance Corps founded by Mahatma Gandhi 1914 to after return from U K in 1919, Private Secy to late Sir Gokul Rama Lahore Merchant business in Lahore to 1941; appointed as Deputy Director General (supplies) Ministry of Industries and Supplies Materials Economy Officer 1944-45 Director General of Disposals 1947 Chairman, Rehabilitation and Development Board and Ex-officio Additional Secy to the Govt of India Ministry of Rehabilitation, 1948 Consul General for India in Buenos Aires (Argentina) 1949 Charge d'Affaires and Minister, Brazil 1949-50 Managing Director Hindustan Machine Tools Ltd., Bangalore, 1952-55 *Clubs*: Calcutta Club, Calcutta Delhi Gymkhana Club Chelmsford Club New Delhi Rosherville Club, Delhi, Bangalore Club, Bangalore *Address*: 6, Aurangzeb Road, New Delhi

RAJA, Dr. Kizhakke Covilagam Kutty Ettan, L.M. & S. (Madras), L.R.C.P. & S. (Edin.), L.R.F.P.S. (Glasgow), D.P.H. (Cambridge), D.T.M. & H. (Cambridge). Padma Bhushan (Jan 26, 1957). Co-ordinating Officer, Demographic Teaching & Research Centre, Bombay, since Sept 1956 *b* Aug 19, 1903 *Educ* Madras Medical Coll, Edinburgh Cambridge & London at the London School of Tropical Medicine and Hygiene Medical Officer of Health, Madras Public Health Service for 11 years Asstt Professor and Professor of Epidemiology and Vital Statistics, All-India Institute of Hygiene & Public Health, Calcutta 3½ years, Medical Statistician, Central Health Dept., 1½ years, Asstt. Public Health Commissioner, over 2 years, Dy. Public Health Commissioner c. 2½ years, Secy., Health Survey and Development Cttee. (Bhore Cttee.), 2 years; Officer, Health Planning & Development, Central Health Dept., 1½ years; Dy. Director-General of Health Services, Govt. of India, about 9 months; Director-General, 1948-52; Officer on Special Duty, Ministry of Health, Govt. of India, for the development of the All-India Institute of Medical Sciences, New Delhi, 1952-56. *Publications*: *A life table for London*; *The Use of bacteriophage against Cholera in North Arcot District, Madras Presidency in 1933*; *Probable Trend of Population Growth in India*; *A Plea for a Forward Public Health Policy in India*; *Health Problems of India*, a number of papers on population problems and on medical education in India, etc. *Address*: Chembur, Bombay 38.

RAJA, Tribhovandas Jagjivandas, M.A., LL.B., J.P., retired Dewan of former Kutch State, *b.* Nov 6 1893; *Educ.*, Bahadurkhanji High School, Junagadh; Bahauddin Coll, Junagadh, Wilson Coll, Bombay & Govt. Law School, Bombay. Lecturer in History, Wilson Coll., 1914-16; Naib Dewan and Sarnyayadhish, Wankaner State, 1917-20; Deputy Revenue Commissioner, Junagadh State, 1920-21; Huzur Personal Asstt. and Revenue Minister, Limbdi State, 1921-30, appointed Dewan Limawada State



1930 Foreign Political and Finance Minister, Bikaner Jan 1937 reverted to Limawada, July 1943; appointed Dewan Porbandar State, 1934; created a Tazmi Sirdar (Head of the Porbandar State July 1936, retired with grant of a special var-hasab (annuity for life) Nov. 1938; appointed Dewan, Partabgarh State, Nov. 1939; appointed Chief Minister, Ratlam, Nov. 1942; received the decoration of Dohri (double) Tazim and Gold from His Highness of Ratlam Jan 1944, appointed Dewan, Kutch State, Jan 1947; was granted by the Ruler of Ratlam a Life Pension of Rs 3,000 on his leaving Ratlam service and a moiety the roof to his heirs and successors from generation to generation in lieu of Jagir; worked hard for the participation of Kutch State in the work of the Constituent Assembly in drafting the Constitution of India resulting in the accession of Kutch state to India, 1947; also actively worked under the personal guidance of Gandhiji for the resettlement of displaced Hindus from Sind near the Port of Kandla by building a new town to be called Gandhidham obtaining a grant of 15,000 acres of land near Kandla Port free of all costs from His Highness the Maharao of Kutch together with many other valuable concessions; retired from Kutch service, March 1948, on the demise of the late Ruler H. Promoter Bharat Salt & Chemical Industries, Ltd, Mundra, Kutch *Address*: 'Dev-kunj', 81, Shivaji Park, Cadell Road, Bombay 28.

RAJABHOJ, Pandurang Nathuji, M.P., Journalist and Agriculturist *b* March 15 1905 *Educ* Nutan Maratha Vidyalaya and Maharashtra Education Society's High School, Poona 1st; Govt. service to work for the amelioration of the backward classes 1925, Editor, *Dalit Bandhu* since 1928, edited *Indian States* for two years; ex-member, I.N. Congress' Secy., All-India Depressed Classes League, 1935-37; represented the depressed classes on the Franchise Cttee of the Simon Commission; imprisoned several times in connection with satyagraha movement of Scheduled Castes; one of the signatories to the Poona Pact; was General Secy., A I S C F since its inception in 1942 to 1954; attended the 2nd World Buddhist Conference at Tokyo, 1952; Vice-Pres., Depressed Class Mission Society of India; Pres. Indian Buddhist Society, Bharat Dalit Sevak Sangh; travelled in Holland, Switzerland, England, France, West Germany, U S A, Turkey Japan Australia, Ceylon, Hongkong, Singapore, etc., has now resigned from the A I S C F, and rejoined the Congress *Hobby*: Reading *Publications*: *Lashkari Pasha* (Marathi); pamphlets in Marathi on Buddhism; translation of Dr Ambedkar's books. *Address*: 207, Ghorpade Peth, Poona 2

RAJAGOPALACHARIAR, C., B.A., B.L., Bharat Ratna (1954), Ex-Governor-General of India, *b.* 1879 in a village near Hosur, Salem Dist.; *Educ.*: Central Coll., Bangalore; Presidency Coll and Law Coll., Madras. Joined Bar in 1900; joined Satyagraha campaign, 1919 and the Non-co-operation Movement in 1920; edited Mahatma Gandhi's paper *Young India* during the latter's imprisonment; General Secretary of the Indian National Congress, 1921-22; member, working Committee of Congress, 1922-42 and again 1946-47; served

sentences of imprisonment on five occasions in Congress campaigns. Member of the Council of the All-India Spinners' Association from the beginning up to 1935; Secretary, Prohibition League of India, 1930; Vice-Pres., Dakshin Bharat Hindi Prachar Sabha; Prime Minister, Government of Madras in charge of Home and Finance Portfolio, July 1937-39; resigned Prime Ministership of Madras, October 1939 with other Congress Ministers; resigned in April 1942, from Congress on account of difference of opinion; assisted Mahatma Gandhi in the Gandhi-Jinnah talks in Sept. 1944; member of Governor-General's Council, September 1946-August 15, 1947, holding the Portfolios of Industries and Supplies, of Education and of Finance for different periods; Governor of West Bengal, Aug. 1947; acted as Governor-General of India, Nov. 1947; Governor-General of India, June 1948-Jan. 26, 1950; Minister, Govt. of India, without portfolio, May-Dec 1950 and Home Affairs, Jan.-Nov., 1951; Chief Minister, Madras, 1952-54; among first recipients of Indian decoration Bharat Ratna, 1955. *Publications:* Tamil books on Socrates, Marcus Aurelius, Bhagavad-Gita, Mahabharata, Ramayana and Upanishads; *Fatal Cart & other Stories*; (in English) Mahabharata, Ramayana, Bhagavad-Gita, Upanishads and Hinduism, Doctrine and Way of Life. *Address:* Padullah Road, Thyagarajanagar, Madras 17.

RAJAGOPAUL, G. R., B.A. (Hons.), B.L., Advocate, M.B.E. (1945), Additional Secretary and Chief Draftsman to the Govt. of India, Ministry of Law. *b.* Aug. 15, 1905. *Educ.:* Univ. Coll., Rangoon; Research Scholar, Rangoon Univ. 1928-37; Reporter and Editor, Rangoon Law Reports 1931-42, Junior to the Advocate-General Burma, 1928-42; Deputy Legal Adviser to the Govt. of Burma, Simla, 1942-45; Chief Judge, City Civil Court Rangoon, 1945-48; Chief Legal Draftsman to the Govt. of India since 1948. *Publications:* Worked in collaboration with the Advocate-General, Burma, on *The Laws of India and Burma* 4 Vols (published); author of *Burma Code*. *Recreations:* Badminton, Tennis. *Address:* 17, Lodi Estate, New Delhi.

RAJAMANNAR, Chief Justice Dr. P. V., B.A., B.L., D.Litt., Chief Justice, High Court Madras from 15th January 1948. *b.* May 10, 1893. *Educ.:* Christian Coll. and Law Coll. Madras. Appointed and later served as junior under his father, Dewan Bahadur P. Venkataramana Rao, Advocate-General, Madras, 1944-45; Puisne Judge, July 25, 1945; conferred the Hon. Degree of Doctor of Letters by the Andhra Univ., Jan 1953 and by the Annamalai Univ., Oct 1957; Chairman, National Academy of Music, Dance and Drama; acted as Governor of Madras, Oct 1957-Jan. 1958. *Publications:* Some time edited a Telugu Journal of Art and Letters called *Kala*; author of many plays in Telugu. *Address:* 9, Victoria Crescent, Egmore, Madras.

RAJAM, Viswanatha Naga, B.A. (Hons.) (Madras), I.C.S., Director General, Supplies & Disposals, Govt. of India, since 1954. *b.* Oct. 22, 1907. *Educ.:* Presidency Coll., Madras; passed B.A. (Hons.), 1928; London School of Economics; London School of Oriental Studies; passed I.C.S., 1930. Served as Asstt. Collector, Joint Magistrate and Dist. Magistrate in various districts in Bengal, 1931-43; Deputy and later Director of Civil Supplies, 1943-46; Secy. Education Deptt., 1947; Collector and Deputy Commissioner, Civil Supplies, Madras, 1947-52; Chief Secy., Travancore-Cochin Govt., 1952-54. *Clubs:* Calcutta Club, Calcutta; Delhi Gymkhana Club, New Delhi. *Address:* Director-General, Supplies & Disposals, New Delhi.

RAJENDRASINHJI, General, Maharaj, D.S.O. (1941), American Legion of Merit, Degree of an Officer (1946), mentioned in dispatches, 1941, Ex-Commander-in-Chief and Chief of Army Staff, Indian Army. *b.* June 15, 1899; *Educ.:* Rajkumar College, Rajkot; Malvern College, U.K.; Royal Mil. College, Sandhurst. Joined 60th Rifles in 1921 and 2nd Royal Lancers; Gardner's Horse in 1922; saw service in Egypt and Western desert, 1941, being awarded the D.S.O., and mentioned in despatches in the same year; on special deputation to U.S.A., 1942-43 and as Military Attache, U.S.A., 1945-46; promoted Brig., 1946; Maj.-Gen., 1947 and Lt.-Gen., Jan. 1948 and posted as G.O.C.-in-C., East Comd., G.O.C.-in-C., South. Comd., May 1948-Jan. 1953; promoted General, 1953; C.-in-C. and Chief of Army Staff, Indian Army, Jan. 15, 1953-May 1, 1955; C.O.A.S., May 1-May 14, 1955; retired from active list, May 15, 1955. *Recreations:* Rackets, Cricket, Polo, Golf and Shooting. *Address:* Sukh Niwas, Jamnagar.

RAJKUMAR, Dip. Ing., Proprietor of Khemchand Rajkumar & Director of several other companies. *b.* Nov. 12, 1916; *Educ.:* Dresden Univ., Germany; Leeds Univ., England; took Dip. Ing., 1938. Has established large industrial and commercial concerns all over India, has travelled widely and has represented India in many trade delegations and industrial and commercial conferences all over the world; has very good connections all over the world. *Recreations:* Reading, Photography, Outdoor sports. *Clubs:* Rotary Club; Calcutta Club and various other clubs throughout India. *Address:* Khemchand Rajkumar, 34, Netaji Subhas Road, Calcutta 1



RAJKUMAR, Dr. Nagoji Vasudev, B.A. (Hons.) (Eng. Litt.), M.A. (Pol. Sc.), LL.B., Dr. Phil., F.R.Econ.S. (Lond.), Commissioner for India in British West Indies and British Guiana and Consul-General, Surinam. *b.* 1915; *Educ.:* Madras, Santiniketan, Benares, Lucknow, etc. Secy., Foreign Relations Dept., A.I.C.C. (1946-53); Adviser, Indian delegation to the U.N. (1952-53); Commissioner for India in Fiji (1953-54); Dy. Secy.-General, International Supervisory Commission in Viet Nam (1954-55), Consul-General and Charge d'Affaires, Legation of India in Laos (1955-57); Editor, *Indian Affairs*. *Publications:* *Indian Political Parties* (1948); *One Year of Freedom* (1949); *Development of the Congress Constitution* (1950); *The Problem of French India* (1951); *Indians Outside India* (1951), *Pilgrimage and After* (1952); *Background of India's Foreign Policy* (1952). *Recreations:* Reading, Photography. *Address:* Port of Spain, Trinidad.

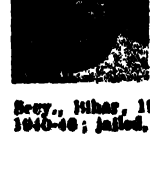
RAJU, Alluri Satyanarayana, M.P., Hindi Sahitya Visharada. *General Secy.*, A.I.C.C., New Delhi. *b.* Jan 25, 1913; *Educ.:* Primary education at Valamarru village and middle School education at Rayakuduru; the rest in jails for 10 years. Joined National movement as a volunteer, Jan. 19, 1930; courted jail, after release became Pres., Andhra Provincial Youth League; was Pres. for four terms: Pres., Dist. Congress, 1937-40; again jailed for 6 years; was M.L.A., Madras upto 1952; became General Secy., A.P.C.C.; elected Pres., A.P.C.C., defeating Prof. Ranga, 1954; elected Pres., Andhra Pradesh Congress Ctte., 1957; appointed Gen. Secy., A.I.C.C. and member, Congress Working Ctte. during the Gauhati Congress session; has a good knowledge of English, Hindi and Bengali besides his mother tongue Telugu. *Publications:* Translation into Telugu of Pandit Rahul Sankrutyana's work "Volga to Ganga"; contributed articles on various subjects in Telugu magazines and dailies. *Recreations:* Horticulture. *Address:* General Secretary, A.I.C.C., 7, Jantar Mantar Road, New Delhi.

RAJU, Dr. P. T., B.A. (Allahabad), M.A. (Calcutta), Ph.D. (Calcutta), Sastri (Govt Sanskrit Coll., Benares), Padma Bhushan (1958), Univ. Professor of Philosophy and Psychology, Univ. of Rajasthan, Jaipur. *b.* Aug. 17, 1903. Some time Reader in Philosophy, Andhra Univ., Waltair; some time Secy., Indian Philosophical Congress; Sectional Pres., Indian Philosophical Congress, 1938; All-India Oriental Conference, 1947; Tata Visiting Prof. of Philosophy, The Asia Institute, New York, 1949; Delegate, East-West Philosophers' Conference, Hawaii, 1949; Woodward Lect. Yale Univ., 1950; Visiting Prof. of Philos. Univ. of California, 1950; Visiting Prof. Comparative Philosophy, Univ. of Ill. Urbana, 1952-53; Sir Hari Singh Gaur Lecturer, Sagar Univ., 1955; Visiting Professor for Comparative Philosophy, Univ., Baroda, 1956; some time Joint Ed. *The Philosophical Quarterly*, Amalner; Member Editorial Board, *Philosophy East and West*, Univ. of Hawaii; Philosophical Quarterly, Vedanta and Critical Humanism; Editor, Comparative Philosophy; awarded Certificate of merit 'Padma Bhushan' by the President of India, 1958. *Publications:* Numerous articles in British, Indian and American philosophical journals; *Thought and Reality* (Allen & Unwin Ltd., London); *Comparative Studies in Philosophy* (Allen and Unwin, London); *Telugu Literature* (Introduction, Book House, Bombay); *India's Culture and Her Problems* (Univ. of Rajputana, Jodhpur); *Idealistic Thought of India* (Allen & Unwin and Harvard Univ. Press), and Chapters in *Essays in East-West Philosophy* (Univ. of Hawaii Press); *Cultural Heritage of India* (The Ramakrishna Mission), *Philosophy East and Western* (Govt. of India), *Radhakrishnan* (Library of Living Philosophers). *Recreations:* Light reading, walking. *Address:* Jaswant College, Jodhpur.



RAKSHIT, Hrishikesh, D.Sc. (Lond.) (1937), F.N.I. (1948), Head of the Dept. of Electronics & Electrical Communication, Indian Institute of Technology, Kharagpur since Oct 1955. *b.* Feb. 8, 1907. *Educ.:* Dupleix Coll., Chandernagore; Hooghly Mohsin College (upto B.Sc.), Univ. College of Science and Technology, Calcutta (M.Sc., A.). Sound Engineer for producing talkies (July 1933-June 1935); Asstt. Lecturer in Physics, Calcutta Univ. (July 1935-Dec. 1936); visited England (Nov. 1936-Dec. 1937) for advanced technical studies in Radio & allied subjects, Lecturer in Applied Physics, Calcutta Univ. (July 1944-Nov. 1948); Director, National Physical Laboratory of India in charge of Electronics Division (Dec. 1948-Oct. 1949); Head of Deptt. of Physics & Electrical Communication, Bengal Engg. Coll., Howrah. *Publications:* Author of a number of original papers in noted scientific journals. *Recreations:* Literature, Music, Gardening. *Address:* Indian Institute of Technology, Kharagpur.

RAM, Jagjivan, B.Sc., Railways Minister, Govt. of India, since April 1956. *b.* 5th April 1908 at Arrah in Bihar; *Educ.:* Hindu Univ., Benares, B.Sc. Univ.; Took active interest in uplift of Depressed Classes early in life; Pres., All-India Depressed Classes Assoc., 1935-36; was associated with Hindustan Seva Dal; was Pres., Bihar Provincial Depressed Classes Assoc.; was Pres., Bihar Provincial Depressed Classes Commissioner, Bihar, 1936-46; nominated member, Bihar, 1936, elected member, Bihar, 1937; Parliamentary Secy., Bihar, 1937-39; Secy., Provincial Congress Committee, Bihar, 1939-40; jailed, 1940; released



medical grounds; appeared before the Cabinet Mission as the accredited leader of the Scheduled Castes; leader of Indian Delegation to the I.L.O. Conference, Geneva, June 1947; elected Chairman, Preparatory Asia Regional Conference of the I.L.O. held in New Delhi, Oct.-Nov. 1947; member, Working Cttee., A.I.C.C., since 1948; Leader, Indian Delegation to 33rd Session of I.L.O. Conference, June 1950 and unanimously elected Chairman of the Conference; member: Central Parliamentary Board, A.I.C.C., since 1950; Central Election Cttee., 1951; Congress Economic Planning Cttee., since 1950; Gandhi National Memorial Trust and Sardar Vallabhbhai Patel Memorial Trust; sponsored many bills to better the condition of industrial workers; ordered an inquiry into condition of Agricultural Labour to consider what protective and ameliorative measures should be undertaken to improve their condition; was Pres. of several trade unions; started agricultural labour movement in Bihar; Labour Minister, Govt. of India, Sept. 1946-May 1952; Communications Minister, Govt. of India, May 1952 Dec 1956, was responsible for the nationalisation of air transport in India; Minister for Transport and Railways, 1956-57. *Address:* 3, Queen Victoria Road, New Delhi.

RAM, Lala Bharat, Director, Mg. Agents, Delhi Cloth and General Mills Co. Ltd. *b.* Oct. 15, 1915; *Educ.:* Modern High School, Delhi; graduated with Honours from St. Stephen's Coll., Delhi represented the Coll. in Cricket, Tennis and Hockey, Captain, Coll. Cricket XI, 1934-35. Joined the Delhi Cloth & General Mills Co., Ltd. as an apprentice to his father, July 1935; Asstt Managing Dir., 1944-48; Joint Managing Dir., 1948-51, Indian Delegate with the Anglo-American Mission to study the Textile Industry of Post-war Japan, 1945-46, Member: Working Party set up by the Govt of India to improvise ways and means to improve the Textile industry in India; Indian Central Cotton Cttee., Cotton Textiles Fund Cttee.; Delhi State Labour Advisory Board; Research Advisory Cttee., A.T.I.R.A., Ahmedabad; Scientific Advisory Cttee., National Physical Laboratory; National Savings Advisory Cttee., Govt. Purchase Advisory Council; State Bank of India New Delhi Local Board; and Central Wage Board for Cotton Textile Industry; Leader, Indian Trade Delegation to West Germany, 1957. *Special interests:* Indoor and outdoor games, music and painting. *Clubs:* Delhi Golf Club, New Delhi (one of the founders); Delhi Gymkhana Club. *Address:* 22, Curzon Road, New Delhi.



RAM, Sir Shri, Managing Agent and Chairman: Delhi Cloth and General Mills Co. Ltd., Jay Engineering Works Ltd., Bengal Potteries Ltd. *b.* 1884. Chairman: Rehabilitation Housing Corpn.; Kirloskar Oil Engines Ltd.; Regional Cttee. for northern India of the All-India Council for Technical Education; Lady Shri Ram Coll. for Women; Sir Shri Ram Inst. of Industrial Research; Sindri Fertilizers and Chemicals Private Ltd; Director, Central and Local Boards of the Reserve Bank of India, Delhi; Sindri Fertilisers and Chemicals Ltd.; past President and member, Executive Cttee. of Federation of Indian Chambers of Commerce and Industry and All-India Federation of Industrial Employers; Director: National Research Development Corpn. of India; member, Board of Scientific and Industrial Research and Chairman of its Cttee. Chairman, Governing Bodies and Trusts of the Indraprastha, Ramjas and Hindu Colleges; Vice-Chairman, Delhi Polytechnic; member: Synthetic Petrol Cttee.; Central Advisory Council for Industries. *Address:* 22, Curzon Road, New Delhi.

RAMADHYANI, Rangaswamy Kalkunte, I.C.S., Secretary, Ministry of Information and Broadcasting, since May 1957. *b.* Feb 20, 1908; *Educ.:* Mysore Univ., Univ. Coll., London; London School of Oriental Studies; Served in Madhya Pradesh as Asstt and Deputy Commissioner, 1930-39; Supdt., Census Operations, M.P., 1939-41; Officer on Special Duty, Eastern States Agency, 1941-42; Jail Deptt, Madhya Pradesh 1943-44, Controller of Rationing & Dir. of Civil Supplies, Delhi, 1944-46; Joint Secy., Constituent Assembly, 1947; Joint Secy., Defence Ministry 1947-51; Coal Commissioner, 1952-55, Secy Ministry of Natural Resources and Scientific Research, 1955-May 1957. *Recreations:* Books; music. *Address:* Secretary, Ministry of Information and Broadcasting, New Delhi.

RAMAMURTI, P., B.Sc., Member, Centr Exec., Communist Party. *b.* Sept. 20, 1909; *Educ.:* Banaras Univ. and Presidency Coll., Madras. Courted Jail in 1930-32 Congress Movement; political worker, ever since; was in the executive of the Tamilnad Congress Socialist Party, 1935-39; member, A.I.C.C. for about 4 years; Working Cttee member A.I.T.U.C.; a top ranking Trade Union leader in Madras State; is an orator; went to I.L.O. Conference on behalf of A.I.T.U.C., 1946. *Publications: Kandal Deepavali* (on cloth famine, in Tamil-nad); *Open Letter to Kumaraswami Raja. Address:* 3, Anthony Street, Royapettah, Madras.

RAMAN, Bangalore Venkata, Editor *Raman Publications*, Bangalore. *b.* August 8, 1912; *Educ.:* Govt Collegiate High School and Central Coll., Bangalore; underwent training in Astronomy and Astrology under Prof B. Suryanarain Rao. Started *Raman Publications* for publishing books on Indian Culture and Astrology, 1936; restarted *The Astrological Magazine*, 1936; was conferred dignity of Doctor of Science (Honoris Causa) by the Academie et Universite' Internationale, 1947; Fellow of the Royal Astronomical Society, London, 1948; has toured widely all over India, has written a number of books in English on Astrology, Astronomy, etc., some of which have been translated into German and French; has made several successful predictions in the pages of *The Astrological Magazine* about national and international events; has been conducting research in astrology, especially in reference to weather and political forecasts; Pres: Jyotishya Sammelana of the Aramatraya Conference, Bangalore, 1950; First Andhra Astrological Conference, Nellore, 1955. *Publications:* Books in English on Astrology, Astronomy, etc., some of which have been translated into German and French. *Recreations:* Lawn Tennis; Gardening. *Address:* "Sri Rajeswari", 115 I, New Extension, Seshadripuram, Bangalore 3.



RAMAN, Sir Chandrasekhara Venkata, Kt., M.A., Hon. Ph.D. (Freiburg), Hon. LL.D. (Glasgow), Hon. D.Sc. (Paris), and Bordeaux, F.R.S., Bharat Ratna (1954), Nobel Prize for Physics (1930), Franklin Medallist of the Franklin Institute, Philadelphia; International Lenin Prize for 1957; Corresponding member, Soviet Academy of Sciences (1947); Foreign Associate, Paris Academy of Sciences (1949); National Research Professor of Physics, Ministry of Natural Resources and Scientific Research, Govt. of India. *b.* Nov. 7, 1888; *Educ.:* A.V.N. College, Vishakapatnam and Presidency College, Madras; Officer, Indian Finance Dept., 1907-17; British Association Lecturer (Toronto), 1924; Research Associate, California Institute of Technology, 1924; Matteucci Medallist, Rome, 1929; Hughes Medallist of the Royal Society (1930); Hon. Fellow, Zurich Phys. Soc., Royal Hungarian Acad., Royal Irish Acad., Chinese Phys. Soc., Royal Phil. Soc., Glasgow, Optical Society of America, Franklin Institute, Societe Philomathique (Paris); President, Indian Academy of Sciences, 1934; National Research Professor of Physics, 1949. *Publications: Molecular Diffraction of Light; Music Instruments*; and numerous scientific papers in Indian, British and American Journals. *Address:* C/o Raman Research Institute, Hebbal, Bangalore.

RAMANUJAM, G., President, Indian National Trade Union Congress. *b.* Feb 2, 1916; *Educ.:* Srirangam, Trichinopoly Dist. Joined Hindusthan Mazdoor Sevak Sangh as a worker in Ahmedabad, 1946; Founder Secy. of the Tamil Nad I.N.T.U.C., 1947-58; elected Pres., I.N.T.U.C., 1958; attended the 2nd I.L.O. Textile Cttee. Conference in Lyons (France) as a workers' delegate 1950, visited China 1954, elected Pres., Indian National Textile Workers Federation, 1956, attended the Ceylon Workers Congress as fraternal delegate, May 1957 is a member of several Cttees. connected with labour including the Tea Board; was a member, Textile Tripartite Enquiry Cttee appointed by the Govt of Madras; is member, Central Wage Board for the Cotton Textile Industry in India. *Address:* 3/66, Trichy Road, Coimbatore, S. India.

RAMASUBBAN, C., B.A. (Hons.) (Madras), Chairman, Tariff Commission, Govt. of India, Bombay, since April 23, 1958. *b.* Aug. 27, 1900. *Educ.:* Madras Christian Coll. Joined former Imperial Bank of India as an Assistant, 1921, worked as Agent at several of its branches in Madras Circle; was Dy. Accountant and Supdt. of Securities and Advances at Madras Head office; retired as First Grade Officer, 1952, was Chairman, Indian Council of World Affairs, Madras Branch for two years; was a representative of the Govt. of India at the 10th session of the GATT Conference at Geneva, Oct. 1955; Member, Tariff Commission from 1953. *Publications:* A large number of contributions to Tamil journals and English periodicals on music, social customs socio-economic problems and humour. *Recreation:* Tennis. *Club:* Madras Cosmopolitan Club. *Address:* Second Floor, Eros Building, Churchgate, Bombay 1.

RAMASWAMI, Periar, E. V., has been Pres., Dravida-Kazhagam. *b.* 1878. Ex-Chairman, Municipal Council, Erode; ex-President, Taluk Board, Erode; was President, Tamil Nad Congress Cttee.; successfully led Vaikkam Satyagraha as a result of which untouchability and un-approachability came to be abolished in Travancore State; jailed about 13 times for political and social reasons; left the Congress, 1925; fights for eradication of all social evils in general through his Self-Respect Movement and his Tamil papers *Kudi Arasu* and *Viduthalai* and *Revolt* (English); toured Malaya in 1929; toured the Continent, England and Russia in 1931 particularly to study Communism; started Rational Books Publishing Co. and has published more than 100 books of criticism on God, Religion and Superstition including 10 volumes under the title 'Vulgarities in Ramayana'; founded Dravidian Federation and its ally Black Shirt Volunteer Corps. *Address:* Erode, Madras.

RAMASWAMI, Vangal Krishnamachari, B.A. (Oxon.), Deputy Economic Adviser, Ministry of Commerce and Industry, Govt. of India, since 1955. *b.* Feb 28, 1928; *Educ.:* Presidency Coll., Madras; Balliol Coll., Oxford. Research Officer, Reserve Bank of India, 1951-53; Under Secy., Taxation Enquiry Commission, 1953-55. *Recreations:* Tennis, Squash. *Clubs:* Willingdon (Bombay); DG Club (New Delhi). *Address:* 5, Janpath, New Delhi.

RAMASWAMI AIYAR, Dr. Sir C. P., K.C.S.I. (1941), K.C.I.E. (1925), C.I.E. (1923), ex-Dewan of Travancore, Fellow of Madras University. *b.* Nov. 12, 1879; *Educ.:* Wesleyan High School, Presidency College, and Law College, Madras. Joined the Madras Bar, 1903, and led the original side soon afterwards; enrolled specially as an Advocate, 1923; Fellow of University, 1912; member of Madras Corporation, 1911, served on many committees; member, Indian National Congress and was its All-India Secretary, 1917-18; Madras Delegate to Delhi War Conference; Trustee, Pachayappa's College Trusts, 1914-19; gave evidence before the Southborough Commission on Indian Reforms and the Meston Committee on Finance, also before Mr. Montague and Lord Chelmsford; gave evidence in London before the Joint Parliamentary Committee on Indian Reforms, 1919; University Member of Legislative Council, Madras, 1919; member of Committee to frame Rules under Reforms Act, 1919; member of Legislative Council under Reformed Constitution for Madras, 1920; Advocate-General for the Presidency, 1920; one of the Indian representatives at the Assembly of the League of Nations at Geneva 1926 and 1927; Rapporteur to the League of Nations Committee on Public Health, 1927; Law Member of Madras Government, 1923-28; Vice-President, Executive Council, 1924; resigned membership of Madras Government, March 1928 and rejoined the Bar, April 1928; delivered the Sri Krishna Rajendra University Lecture at Mysore, 1928; represented the State of Cochin before the Butler Inquiry Committee, 1928; member of the Sub-Committee to draft constitution for uniting British India and the Indian States in a Federation, 1930; Delegate to the Indian Round Table Conference and member of the Federal Structure Committee of the R.T.C., 1931; Acting Law Member, Government of India, 1931; Legal and Constitutional Adviser to the Government of Travancore; member, Consultative Committee of the R.T.C.; delivered the Convocation Address of the Delhi University, 1932; Tagore Law Lecturer, Calcutta University, 1932; Acting Commerce Member of the Government of India, 1932; Chairman of the Committee appointed by the Chamber of Princes to consider the White Paper, 1934, member, Joint Select Committee of Parliament on Indian Reforms, 1933; Delegate to World Economic Conference, 1933; drafted a new constitution for Kashmir, 1934; member, Government of India Committee on Secretariat Procedure, 1935, Dewan of Travancore, 1936-47; conferred the title of "Sachivothama" by His Highness the Maharaja of Travancore; was instrumental in implementing the Temple Entry Proclamation of His Highness, 1936; Chief Commissioner, Travancore Boy Scouts Association, 1937; Vice-Chancellor, Travancore University, 1937; was elected a Fellow of the Royal Society of Arts, London, 1937; was conferred the Degree of Doctor of Laws by the Travancore University, 1939; delivered the convocation address of the Osmania University, Hyderabad, 1942; appointed Member for Information in the Governor-General's Executive Council, Aug. 3, 1942, resigned on Aug. 20, 1942; re-appointed as Dewan of Travancore, Aug. 24, 1942; Chairman, Indian Rubber Production Board, Nov. 1942; Chairman, Travancore Steam Navigation Co., 1944; Member of the Govt. of India Post-war Reconstruction Ctees. and of the Central Board of Education, 1944; President, 1st South India Brahmana Conference, 1946; represented the Indian States before the British Parliamentary Delegation and the Cabinet Mission, 1946; member, Negotiating Committee on behalf of the States under the Cabinet Scheme; was invested with the rank and title of Lieutenant-General of the Travancore State Forces by His Highness; relinquished Dewanship of Travancore, August 1947; visited the U.S.A. on a lecturing tour and later travelled in South America, Australia and New Zealand in 1948. Delegate, East & West Philosophy Conference, Honolulu, 1949 (May & June); India America Conference, Delhi, 1949; Pres., Nilgiri Rotary Club, 1948; President, Nilgiri Rotary Club, 1949; delegate to the International P.E.N. Congress at Edinburgh, 1950; visited Industrial and Univ. Centres in Great Britain under the auspices of the British Council, Aug.-Oct. 1950 and thereafter toured Europe; Indian delegate to the P. E. N. Congress at Lausanne, June 1951; Professor, American Academy of Asian Studies in California; lectured in Yale, Stanford and other Universities in U.S.A.; elected Rotary Governor, 1952; member, Press Commission, 1952; Vice-Chancellor, Annamalai Univ., 1953; attended the Commonwealth Universities Conference at Durham and Cambridge; delivered Convocation Addresses of the universities of Poona, Annamalai and Agra; Vice-Chancellor, Banaras Hindu Univ., 1954-56; delivered the Convocation Address of the Gujarat Univ. and the Women's Univ., Bombay, 1954; member, Press Commission, 1953-54; was conferred Hon. Degree of D.Litt. by Annamalai Univ., 1955, Leader of the Indian Universities Delegation to China, 1955, member, Public Services Recruitment Ctee., 1955; member, Univ. Grants Commission, 1955, delivered Convocation Address, Lucknow Univ., 1956; Maharaja Sayajirao Lecturer, Baroda Univ., 1956 Resigned Vice-Chancellorship of Banaras Hindu Univ., 1956; Delegate to the British Commonwealth Univ. Conference and to the P.E.N. International Conference, 1956, delivered Convocation Address of B.H.U. and was conferred the Hon. Degree of LL.D., of that Univ., 1956, conferred the Hon. Degree of D.Litt. by the Madras Univ. at the special convocation in connection with its centenary celebrations, 1957. *Publications:* Articles to various periodicals on political, philosophical, financial and literary topics, a selection of his speeches and writings in two volumes, a volume of essays, broadcasts and other addresses entitled *Pen-Portraits* published in 1948. A second volume of essays on Religious & Cultural topics published in 1949; third volume under the title "*Mysticism*" and other essays published in 1950; published *Cultural Freedom and other Essays*, 1950. *Recreations:* lawn tennis, riding and walking. *Clubs:* National Liberal, Royal Automobile, Madras Cosmopolitan, Ootacamund Club. *Address:* The Grove, Teynampet, Madras; 18, Dalhie, Ootacamund.



RAMASWAMY (CHETTIAR), S. V., M.A., Bar-at-Law, F.R.Econ.S. (Lond.), Deputy Minister for Railways, Govt. of India, since April 1954 *b* Jan. 16, 1906 at Salem. *Educ.:* Madras Christian Coll., London School of Economics, Middle Temple Senior Advocate, Supreme Court, Secy., Salem Dist. T.B. Sanatorium Society, Hon. Secy., Tuberculosis Assocn. of India, Salem Branch; member, Managing Ctee., Local Ramakrishna Mutt, Advisory Ctee. for Government Hospitals, since 1951, Rotary Club, since 1950; Lok Sabha, 1952-57; Public Accounts Ctee., 1954-56; Indian Parliamentary Delegation to Turkey, 1954; Chairman, Sub-Ctee. of the P.A.C. on Delhi Road Transport Authority, 1956; Select Ctee. on the Navy Bill, 1956-57; donated an independent water supply system to the G.H.Q. Hospital, Salem; also donated jointly with his wife, the Vivekananda Hall to the Mutt; erected in 1949 a replica of Sarnath Stupa in memory of those who lost their lives in the freedom struggle; Parliamentary Adviser to the Indian delegation to the eleventh General Assembly Session of U.N., Nov. 1956-Jan. 1957; elected to the Lok Sabha from Salem Constituency on Congress ticket, 1957; keenly interested in social welfare and education; visited Turkey, Japan and U.S.A. *Recreations:* Reading, Tennis, Table Tennis, Billiards. *Publications: The Constituent Assembly of India. Address:* Salem; Ministry of Railways, New Delhi.

RAMKINKER, Diploma in Fine Art, Kala-Bhavana, Santiniketan, Exponent of modern sculpture and painting. Head of the Deptt. of Sculpture, Kala-Bhavana, Visva-Bharati Univ. *b.* May 25, 1910; *Educ.:* Bankura and Santiniketan, West Bengal. Student of Dr. Nandalal Bose; created many outdoor colossal sculptures around Santiniketan from 1928, *e.g.* Santhal family, abstract forms, Sujata Buddha, Mill-Call etc.; did many portrait studies of great men like Rabindranath Abanindranath and Ustad-Allauddin Khan etc.; commissioned by the King of Nepal for war memorial after war; now doing commissioned work for the Reserve Bank of India, New Delhi. *Publications:* Reproductions of his works published in various periodicals. *Recreations:* Music; Drama. *Clubs:* Lalit Kala Akadami, New Delhi and many other organizations. *Address:* Santiniketan, West Bengal.

RAMPURIA, Ratanlal, Landlord. *b.* June 2, 1926. Is a partner of Messrs. Hazarimal Heeralal, Calcutta, managing agents of the Rampuria Cotton Mills Ltd.; Director of many industrial concerns; Chairman, Board of Directors, The Bank of Bikaner Ltd., Director Hoare Miller & Co., Ltd., Singell Tea Co., Ltd.; Scott & Pickstock Private Ltd., The Great India Trading Co. (Private) Ltd., Rampuria Bros. (Private) Ltd.; Rampuria Cotton Mills Ltd., Pradip Industries (Private) Ltd.; National Insurance Co., Ltd.; East Coast Export-Import Ltd.; Bengal National Cotton Mills Ltd.; member, Managing Ctee., Bengal Textile Institute, takes keen interest in socio-economic and educational affairs, founded the 'Vidya Niketan' and the 'Vocational and Educational Guidance Bureau' in Bikaner, Rajasthan; started Rampuria Publications with a view to encouraging and promoting the field of literary advancement, created charity trust and appointed trustee of various charity trusts; Chairman, Refugee Relief Ctee., Bikaner, 1949, patron of member and member of various industrial, commercial and educational associations, chambers and societies of India. *Hobbies:* Literary debates, Coin collection & Photography. *Address:* Rampuria Market, Bikaner.



RANAWAT, Mr. Justice Jawan Singh, M.A. (Economics), LL.B. (Allahabad Univ.), Judge, Rajasthan High Court, since 1949. *b* Dec. 4, 1902; *Educ.:* Univ. of Allahabad; City Magistrate, Udaipur State, 1926-27; City Munsif, 1927; District and Sessions Judge, Bharatpur and Bhilwara, 1932; Judge, Mahad Raj Sabha, Udaipur, 1936-38; Puisne Judge, Chief Court, Udaipur, 1938-40; Puisne Judge, High Court, Udaipur, 1940-47; Chief Justice, Udaipur High Court, 1947-48; Puisne Judge, High Court, United State of Rajasthan, 1948. *Address:* Judge, Rajasthan High Court Bench, Jaipur.

RANDHAWA, Mohinder Singh, B.Sc. (Hons.), M.Sc., D.Sc., F.N.I., I.C.S., Vice-President, Indian Council of Agricultural Research, New Delhi, since 1955. *b.* Feb. 2, 1909; *Educ.:* Govt. Coll., and Punjab Univ., Lahore; District Officer, 1934-45 and 1946-49; Secy., Indian Council of Agricultural Research, 1945-46; Addl. Director General, then Director General, Rehabilitation, Punjab, 1949; Commissioner, Punjab, 1951-53; Development Commissioner, Punjab, 1953-55. *Publications:* English: *Out of the Ashes*, *Flying India*; *Flowering Trees in India*; *Kangra Valley paintings*; Punjabi: *Folk songs*; Other Publications: Hindi: *Folk songs*; Other Publications: 40 research papers on agric. Address: Indian Council of Agricultural Research, Queen Victoria Road, New Delhi.

RANGA, Prof. N. G., M.P., Principal, Indian Peasants Institute, Nidubrolu; Secy., Congress Parliamentary Party. *b.* Nov. 7, 1900, *Educ.*: Oxford. Chief Professor of Economics and Political Science, Pachaiyappa's College, Madras, 1927-30; Member, Congress Working Cttee., 1947-51; Pres., All India Kisan Sammelan, Rural People's Federation; Ex-Pres., Andhra Provincial Congress Cttee.; one of the founders of International Federation of Agricultural Producers and member of its Executive (H.Q., Washington) and Paris, and Colonial People's Freedom Front (H.Q., London) and African, Asiatic and European People's Congress (Paris); Founder, Indian Peasant Movement; member, Congress Economic Policy Cttee., Agrarian Reforms Cttee., National Labour Cttee. and Hindu-tan Mazdoor Sevak Sangh; led the Indian Delegations to the London (1946), the Hague (1947), and Guelph (Canada, 1949) Conferences of International Federation of Agricultural Producers; participated in I.L.O. Conferences (San Francisco), Commonwealth Parliamentary Conference (Ottawa), F.A.O. Conference (Copenhagen), etc.; toured extensively in Europe and America spreading Gandhian philosophy and ideals; specially invited to address the Fourth Congress of International Peasant Union, New York, 1951; World Govt. Conference, Tokyo, 1954 and Paris, 1956; resigned from Congress, April 1951; formed new Party, the Bharat Krishikar Lok Party 1951; rejoined Congress, 1955; member, National Executive, BSS; Vice-Pres., A.I. Co-op. Union, member, Indian Parliamentary Delegation to U.S.S.R. and Yugoslavia, 1955; visited U.K., France, Greece, Italy, Switzerland, Egypt, etc., 1955. *Publications*: 15 books including *Economic Organisation of Indian Villages, Colonial and Coloured Peoples, World Role of National Revolution, Outlines of National Revolution, Peasants and Communists, Revolutionary Peasant and Towards World Peace, Credo of World Peasantry. Address*: Nidubrolu (Post).

RANGANATHAN, Saurirajan, M.A. (Madras), I.C.S., Secretary, Ministry of Commerce and Industry, Govt. of India. *b.* Nov. 12, 1908, *Educ.*: P.S. High School, Madras; and Presidency Coll., Madras; passed M.A., 1929. Indian Civil Service; U.P. Cadre; has now been permanently deputed to the Govt. of India. *Recreations*: Tennis. *Clubs*: Delhi Gymkhana Club, New Delhi; Cosmopolitan Club, Madras. *Address*: 7, Dupleix Road, New Delhi.

RANGANATHAN, Padma Sri Shiyali Ramamritha, M.A., D.Litt., L.T., F.L.A., ex-Professor of Library Science, Delhi University (1947-1955) *b.* July 9, 1892, *Pres.*, Indian Library Assoc.; Secy., Madras Library Assoc.; Member, International Library Cttee., United Nations. *Publications*: *Five Laws of Library Science*, 1957; *Theory of Library Catalogue*, 1938; *Reference Service and Bibliography*, 1940; *Bibliographies of Reference Books and Bibliographies*, 1941; *School and College Library*, 1943; *Library Classification: Fundamentals and Procedure*, 1944; *Dictionary Catalogue Code*, 1952; *Classified Catalogue Code*, 1952; *Elements of Library Classification*, 1957; *Organisation of Libraries*, 1956; *Preface to Library Science*, 1948; *Education for Leisure*, 1955; *Rural Adult Education*, 1949; *Library Development Plan for India*, 1950; *Library Catalogue Fundamentals*, 1950; *Library Tour, Europe and America*, 1950; *Colon Classification*, 1957; *Classification and Communication*, 1951; *Library Book Section*, 1952. Made an endowment of one lakh of Rupees for the Sarada Ranganath Chair in Library Science at the University of Madras. *Address*: 15, Sami Pillai Street, Madras 5.

RANGASWAMI, Prof. Dr. S., M.A. (Madras), Ph.D. (Andhra), Dr. Phil. (Basle), F.R.I.C., University Professor and Head of the Dept. of Pharmacy, Andhra 'Varsity. *b.* June 15, 1912; *Educ.*: Presidency Coll., Madras; Andhra Univ., Waltair; Basle Univ. (Switzerland). Fellow of the Indian Academy of Sciences; member, Academic Council and Senate and Chairman, Board of Studies in Pharmacy of the Andhra Univ. Member: Pharmacy Council of India; Indian Pharmacopoeia Cttee.; Pharmaceutical Chemistry Sub-Cttee. of the All-India Council of Technical Education; Chairman Pharmaceutical Chemistry Sub-Cttee. of the Indian Pharmacopoeia Cttee. *Publications*: Author of *Chemistry of Vitamins & Hormones* and about 100 scientific papers in Indian and foreign journals. *Address*: Professor, Andhra University, Waltair.

RANGNATH, M.A. (Sociology), General Secretary, Socialist Party, since Aug. 1957 *b.* July 2, 1930, at Banaras. *Educ.*: Matriculation, Central Hindi School, Banaras; graduation, Banaras Hindu Univ., M.A., Lucknow Univ. Born in a family which underwent immense hardships during freedom struggle; one of India's Socialists who attended foundation Conference of Asian Socialist Conference at Rangoon, Jan. 1953; convened Indian Socialist Youth Conference and elected General Secy., All-India Samajwadi Yuwak Sabha at Banaras, June 1953, elected to National Cttee., Socialist Party at Hyderabad Conference, Jan 1956; Director of Socialist Youth Deptt., Socialist Party, 1956; Joint Secy., Socialist Party, Jan 1957; imprisoned several times during Congress rule since 1948; member, Editorial Board of weekly organ of the Socialist Party, *CHAUKHAMBHA*. *Address*: Socialist Party, Central Office, 3-6-19, Himayatnagar, Hyderabad-Dn.

RANJAN, Dr. Shri, M.Sc. (Cantab.), D.Sc. (State-France), F.N.I., Vice Chancellor, Allahabad Univ. *b.* Jan 2, 1900. *Educ.*: Intermediate education at the Presidency Coll., Calcutta, B.Sc. and M.Sc. from the Banaras Hindu Univ., Banaras; obtained his D.Sc. (State-France) in 1931 and M.Sc. from Trinity Coll. Cambridge, 1925. Reader in Botany, Allahabad Univ., 1925-41; appointed Professor, Nov. 2, 1941; appointed Dean, Faculty of Science twice, 1944-50 and 1952-56, Pres. Univ. Athletic Assoc., 1953 -April 1957; served the U.T.C. from 1926 and retired as Captain, 1936; Pres., Botany Section, All India Science Congress, 1939; Its Local General Secy., 1948, Pres., National Academy of Sciences and Vice-Pres., National Institute of Sciences; Chairman, U.P. State Board of Agriculture, 1948-51. *Publications*: *A Text Book of Plant Physiology* (Indian Press Ltd., Allahabad). *Recreations*: Music, Hunting. *Club*: Rotary Club. *Address*: 10-A, Beli Road, Allahabad.

RAO, Anagani Bhagavantha, M.A., LL.B., Minister for Endowments and Small Scale Industries, Andhra Pradesh, Hyderabad, since Dec. 25, 1957. *b.* July 1, 1923; *Educ.*: Graduated from Andhra Christian Coll., Guntur, 1946; M.A., LL.B., from Nagpur Univ., 1947-49. Joined Bar, 1951; elected to Andhra State Legislative Assembly, 1955; Pres., Backward Classes Assoc., Andhra State, 1955-56. *Address*: Minister for Endowments, Andhra Pradesh, Hyderabad; *Permanent Address*: Rejalle, Guntur Dist., Andhra Pradesh.

RAO, Ayyadevara Kaleswara, B.A., B.L., Speaker, Andhra Pradesh Legislative Assembly, Hyderabad, since Dec. 4, 1956. *b.* Jan. 22, 1881; *Educ.*: B.A. from Noble Coll., Masulipatam, 1901; took Law Degree from Madras Law Coll., 1905. Lecturer, Noble Coll., Masulipatam, 1902-03; joined the Indian National Congress, 1905; General Secy., Andhra P.C.C., 1923-34; its Vice-Pres. for 2 years; member, A.I.C.C., from 1917; worked in Vandemataram, Home Rule, and Gandhian movements; joined legal profession, 1906; gave it up permanently at the call of Mahatmaji, 1921; became a staunch disciple of Mahatmaji from 1919; was in jail several times in the freedom movements; Municipal Chairman, Vijayawada as a Congress Party man, 1925-30; M.L.C., Madras, 1926-29; M.L.A., Madras, 1937-39; was Chief Parliamentary Secy., under Rajaji and Chief Whip of Congress Party; M.L.A., Madras on Congress ticket, 1946-51; introduced and piloted successfully the Hindu Anti-Bigamy and Divorce Bill in Madras Legislature which became law in 1949; elected M.L.A., Andhra, 1955; took active part in Harijan Uplift, Women's Welfare and Rural Library Movements; was member, Senate and Syndicate of the Andhra Univ. for many years, was Vice-Pres., Andhra Hindi Pracharaka Mandali; was one of the founders of the Viznanachandrika Mandali. *Publications*: Telugu. *French Revolution; United States of America; Turkish Republic; Nationalist Movement of China; Youth Movement in China; Egypt; Lessons from the Upanishads. Address*: 'Nagarjuna Vihar', Himayatnagar, Hyderabad.

RAO, B. Ramakrishna, B.A., LL.B., Governor, Kerala State since Nov. 22, 1956. *b.* March 13, 1899, at Padakal village, Mahbubnagar Dist.; *Educ.*: Graduated from Fergusson Coll., Poona, 1921; took his LL.B., 1923. Set up practice at the Hyderabad Bar, 1924; was one of the Secretaries of the Hyderabad Social Conference; prepared a scheme for the expansion of the State Legislative Council as member, Hyderabad Reforms Assoc.; one of the founder members: Andhra Central Cttee., Hyderabad Political Conference, Akola, also Executive member, State Congress, 1938; Secy.: People's Convention, 1937; Hyderabad Subjects League; was Pres., Andhra Congress for 3 years; imprisoned in connection with the 'Quit India' movement; member, Working Cttee., State Congress; Minister for Revenue and Education, Hyderabad, June 1950-March 1952; elected to the State Assembly from Shadnagar Constituency during the general elections; Chief Minister, Hyderabad State, March 1952-Oct. 1956. *Address*: Raj Bhavan, Trivandrum.



RAO, B. Shiva, M.A. (Allahabad) in English Literature, M.P. from Mysore. *b.* February 26, 1891. *Educ.*: Madras and Allahabad. Was on the Indian Workers' delegation, I.L.O. Conference, Geneva, 1929-30; a deleg. te to the Round Table Conference in London, 1930-31; A member of the Indian delegation to the U.N. General Assembly in 1947, '48, '49, '50, '52. *Publications*: *Select Constitutions of the World*, *The Industrial Worker in India* (Allen & Unwin, London, 1939). *Address*: 16, Tughlak Road, New Delhi.

RAO, Chandra Rajeswar, Public Worker; Secretary, Andhra Communist Party. *b.* June 6, 1914 at Mangalapuram, Kistna Dt., Andhra-Pradesh; *Educ.*: Hindu High School, Masulipatam; Banaras Hindu Univ.; passed I.Sc. and studied up to B.Sc.; joined Visagapatam Medical Coll., 1936; discontinued, 1937, joined the Communist Party, 1931 at Banaras worked in Andhra in youth and peasant movements from 1936, member of Central Cttee., C.P.I. from 1948, General Secy. C.P.I. 1950-51. *Address*: Andhra Pradesh Committee, Communist Party of India, Himayatnagar, Hyderabad.

RAO, Devulapalli Ramanuja, B.A., LL.B., Author. *b.* Aug. 24, 1917; *Educ.*: B.A. from Nizam Coll., Madras Univ., 1939; LL.B. from Law Coll., Nagpur Univ., 1944. Literature, Education, Journalism and Politics; Pres., Andhra Saraswatha Parishath, Hyderabad (1952-53); member, Osmania Univ. Senate (1954-56); Central Advisory Board for Education, Hyderabad Govt. (1952-55); Central Text Book Cttee. (1952-56); Selection Cttee. for Teachers of Hyderabad Govt. (1952-56); one of the judges for the short-story competitions conducted by A.I.R., Hyderabad, 1956; Secy., Andhra-Pradesh Sahitya Akadem, Hyderabad. *Publications*: Literary criticism: *Narya Kavitha Neerajanamu* (1946); *Saraswatha Navaneethamu*

(1955); *Vyasa Manjoosha* (1956), Children's Literature: *Mana Desamu* (1954); *Adima Nivasulu* (1956); contemporary politics: *Visalandhra Vachindi* (1956); Literary Essays: *Naraneethamu* (1951); Poetry: *Pacha Thoranamu* (1951), etc. *Recreations:* Bridge; Gardening. *Address:* Andhra Saraswatha Parishath, Tilak Road, Hyderabad 1.

RAO, J. V. Narsing, M.A. (Political Science), LL.B., Minister for Irrigation & Power, Andhra Pradesh. *b.* Oct. 1914; *Educ.:* High School, Karimnagar, Osmania Univ., Aligarh Univ. & Benares Univ. Started career as an Advocate, Hyderabad High Court; became one of the leading lawyers; got enrolled in Supreme Court; connected with political organisations for twenty years in different capacities since Andhra Mahasabha days; member: A.I.C.C.; Executive of the Pradesh Congress Cttee. for several years; for two years Pres., Pradesh Congress Cttee.; Secy., Andhra Vidyalaya High School for 12 years; member: Governing Body of New Science Coll. and Badruka Coll., Hyderabad; Osmania Univ. Senate and also of the Council for three years; Subject Cttees. of the Osmania Univ. Council. Pres., Gagan Mahal Co-operative Assoc. *Address:* Begumpet, Hyderabad.

RAO, Kotamaraju Rama, B.A. (Madras), Ex-Editor, *National Herald*, Lucknow and ex-Adviser, Five-Year Plan Publicity, Govt. of India. *b.* Nov. 9, 1896; *Educ.:* B. H. School, Bapatla; P. R. Coll., Kakinada and Pachiappa's Coll., Madras; graduated, 1918. Journalist, since 1919; edited a number of English daily newspapers, some of them being *P. P. Journal*, Bombay, 1932-33, *Swarajya*, 1934, *Dawn*, Bombay, 1937, *National Herald*, Lucknow, 1938-46, *Searchlight*, Patna, 1950, *Indian News Chronicle*, Delhi, 1951; *Congress Sandesh* (official organ of the A.I.C.C.), 1952-53; member, Rajya Sabha, 1952-54; Vice-Pres., Indian Federation of Working Journalists, 1950-55; Special Correspondent with the Prime Minister on latter's tour of the United States, 1949; represented the Indian Federation of Working Journalists at the World Press Congress at Sao Paulo, Brazil, 1954; Adviser, Five Year Plan Publicity, 1955-56. *Publications:* Special articles in newspapers. *Recreations:* Reciting Telugu poems. *Address:* Dixit Building, Nazar Bagh, Lucknow.

RAO, Dr. Manjeshwar Sadashiva, B.A. (Hons.), M.A., Ph.D., Dy. Director, Jamnalal Bajaj Central Research Institute for Village Industries, Wardha. *b.* Jan. 30, 1907; *Educ.:* Presidency Coll., Madras; Banaras Hindu Univ.; Research Worker, Haffkine Institute, Bombay; Lady Tata Memorial Scholar, 1937-40; several responsible technical posts in pharmaceutical industry; Industrial Consultant; Hon. Lecturer on Industrial Microbiology, Bombay Univ. *Publications:* Research publications in bacteriological chemistry, biochemistry and on physiology. *Recreations:* Photography, Music. *Address:* Wardha; 12, Uma Sadan, Vincent Road, Bombay 19.

RAO, Mysore Sabha, B.A. (Mysore), I.C.S., Chief Secretary to the Govt. of Bihar, since Sept. 1956. *b.* Oct. 25, 1907; *Educ.:* Bangalore. Joined the I.C.S., 1931; Magistrate and Collector, Puri, 1937-39; Cuttack, 1939-41; Shahabad, 1942; Deputy Secy., Political and Appointment Department, Bihar, 1944; Joint Secy., Political and Appointment Deptt. and Provincial Press Adviser, 1945; Registrar of Co-operative Societies, Bihar, 1946-47; Cane Commissioner, Bihar, 1947; Special Officer, Development and Employment Deptt., July 1947; Secy., Development and Employment Deptt., Aug. 1947; Secy., Finance Deptt., Aug. to Sept. 1947; Commissioner, Tirhut Division, Sept. 1947—April 1948; Commissioner, Chota Nagpur Division, 1948-52; Addl. Member, Board of Revenue and Land Reforms Commissioner, 1952-55, again from Dec. 1955-Aug. 1956; Chief Secy., Aug. to Dec. 1956. *Recreations:* Tennis, Riding, Swimming and Photography. *Address:* 8, Circular Road, Patna.

RAO, Pandurangi Kodanda, M.A. (Madras), has been Member, Servants of India Society. *b.* Dec. 25, 1889; *Educ.:* Presidency Coll., Madras, Lecturer in Botany, Central Coll., Bangalore, 1915-21; Private Sec. to Rt. Hon. V. S. Srinivasa Sastri in India, England and South Africa, 1922-32; Editor, *Servant of India*, Poona, 1930-33; Carnegie Scholar, Yale Univ., U.S., 1934-35; World Study Tour, 1934-37; Seminar, Conference on Education in the Pacific, Honolulu, 1936; Senate, Academic Council and Executive Council, Nagpur Univ., 1939-42 and 1948; Govt. of India Deputation to Malaya, 1946; Adviser to India's Delegate to the Permanent Migration Cttee. of the I.L.O., Montreal, Canada, 1946; Secy.: Society for the Elimination of Beggary, Nagpur, M.P., 1940-48; Vice-President, Indian Council of World Affairs, New Delhi; Indian Conference of Social Work, Bangalore; member, Govt. of India's Deck Passenger Cttee., 1950; member, Prohibition Enquiry Cttee., Govt. of Madhya Pradesh, 1951; Member, Mysore Educational Reforms Cttee., 1952-53; Member, Conference on Race Relations in World Perspective, Honolulu, 1954; member, Prohibition Enquiry Cttee., Govt. of India, 1955. *Publications: Malabar Tenancy Problem; East* Versus *West: Denial of Contrast; Culture Conflicts: Cause and Cure; Technical Education and Industrial Development in America: Some Aspects. Address:* C/o Servants of India Society, Basavangudi, Bangalore 4.

RAO, Puvvada Seshagiri, Telugu writer. *b.* in Movva, birth place of Kshetrayya Kavi and Puvvada Sriranga Kavi. Is also a broadcaster. *Publications:* Kavyas, novels, plays and essays. Poems: *Satapatram; Govatsam; Taj Mahal; Dara; Palavelli*; Prose: *Kruvaka; Aura; Eraru; Andhra Tejamu*; Plays: *Durgadas; Delhi Darbar. Address:* Vijayawada, Andhra.

RAO, R. Krishna, Diploma in Fine Arts and Painting. Instructor in Commercial Arts, Govt. School of Arts and Crafts, Madras, since 1948. *b.* Nov. 4, 1915; *Educ.:* Union Christian High School, Mathurai. Worked as Layout Expert in the Deptt. of War Publicity, 1945; Textile Designer, 1946-48; his painting 'Street Scene' is in the National Art Gallery, Madras; also represented at Tanjore Art Gallery; two of his works have been acquired by Mysore State; is commissioned to do a panel for the murals of Lok Sabha; has been influenced in his paintings of subjects of South Indian interest by the murals found in south Indian temples; has participated in the All-India Art Exhibition; Secy., Progressive Painters' Assoc., Madras. *Address:* 23, Trustpuram Major, Madras 24.

RAO, Raja, Writer. *b.* Nov. 21, 1909; *Educ.:* Madra-sal-Aliya, Hyderabad (Dn.); Nizam College, Hyderabad (Dn.); Univ. of Montpellier, and the Sorbonne, Paris. *Publications: Kanthapura; Cow of the Barricades* (Oxford Univ. Press.). *Address:* C/o Oxford University Press, Apollo Bunder, Bombay 1.

RAO, S. V. Krishnamoorthy, B.Sc., LL.B., Deputy Chairman, Rajya Sabha. *b.* Nov. 15, 1902; *Educ.:* Collegiate High Schools in Shimoga and Tumkur; Central Coll., Bangalore; Fergusson Coll. and Law Coll., Poona. Suffered imprisonment for 18 months in connection with the Quit India Movement, 1947; member: Mysore Representative Assembly, 1946-48; Constituent Assembly of India, 1947-50; Commonwealth Parliamentary Delegation, 1948; Deputy Chairman; Council of States, May 1952 to Aug. 1954; Rajya Sabha, Aug. 1954 to April 1956; re-elected, April 1956; Leader, Parliamentary Delegation to U.S.S.R. and Yugoslavia, May-June 1955; Deputy Leader, Parliamentary Delegation to China and Hongkong, Oct. 1956. *Publications:* (In Kannada): *Satyagraha in South Africa, To the Women* by Gandhiji; *Discovery of India*, by Pandit Nehru; *Letters from Delhi; Life of Louis Pasteur*; (In English): *The Leftist Experiment. Recreations:* Gardening; Spinning. *Clubs:* Constitution Club, New Delhi. *Address:* No. 10, Akbar Road, New Delhi.

RAO, Vijayendra Kasturi Ranga Varadaraja, M.A. (Bombay), B.A., Ph.D. (Cambridge), Vice-Chancellor, Delhi University. *b.* July 7, 1908; *Educ.:* Wilson Coll., Bombay; Gonville and Caius Coll., Cambridge. Principal and Professor of Economics, L. D. Arts Coll., Ahmedabad (1937-42); Director of Statistics and subsequently Planning Adviser, Food Dept., Govt. of India (1944-46); Food Adviser to Indian Embassy, Washington (1946-47); Chairman, United Nations Sub-Commission on Economic Development (1947, 1948, 1949, 1950); Corresponding Member, Institute de Science Economique Appliquee, Paris, since 1948; member, Governing Council, International Assoc. for Research in Income and Wealth (1947-51); Correspondent, Royal Economic Society in India (1950-55); Pres., Indian Economic Association (1949); member, Taxation Enquiry Commission, 1953-55; Univ Professor and Founder Director, Delhi School of Economics, Univ. of Delhi 1942-57. *Publications: Taxation of Income in India; An Essay on India's National Income*, 1925-29; *The National Income of British India*, 1931-32; *War and Indian Economy; Post-war Rupee. Recreation:* Walking. *Club:* University Club, Delhi. *Address:* 10, Cavalry Lines, Delhi 8.

RAREWALA, Sardar Gyan Singh, Minister for Irrigation and Electricity, Govt of Punjab since Apr. 1957. *b.* Dec. 1901; *Educ.* Mahendra College, Patiala. Started his career as a First Class Magistrate in Patiala, 1928 was attached to the Foreign Office, worked with Mr. K. M. Panikkar; had secretarial training; appointed Excise Commissioner, became Sessions Judge and then District Magistrate; has been associated with a number of social and educational activities in Patiala and Punjab; was Pres., Shri Guru Singh Sabha, Patiala for nine years; founder, Rotary Club, Patiala; acted on a number of Committees appointed from time to time by the State administration; was promoted as Revenue Commissioner, 1942; later appointed as Judge, High Court of Judicature, Patiala; Revenue Minister, 1947; nominated by His Highness as member of the Constituent Assembly; Premier, PEPSU, 1949-52; elected member, PEPSU Legislative Assembly and Leader of National Front; Chief Minister, PEPSU, April 1952-March 1953; Leader of the Opposition, 1954-56. *Address:* Chandigarh.

RATH, Radhanath, Minister for Development, Orissa. *b.* 1897; *Educ.:* Cuttack. Entered journalism, 1918; member: A.I.N.C.; Servants of the People Society; was a detenue in the 1942 movement; took active part in the Indian States People's Movement; Convener, Provincial Press Advisory Board; has been Editor, *Samaj*, Oriya nationalist daily; was Minister for Finance and Education, Orissa. *Publications:* Book on the life of Mahatma Gandhi and other important personages. *Recreation:* Study. *Address:* Minister for Development Department, Nimchauri, Cuttack 2.

RAU, Sir Benegal Rama, Kt. (1939), C.I.E. (1930), M.A. (Cantab.), Ex-Governor, Reserve Bank of India. *b.* Jan. 10, 1889; *Educ.* Presidency Coll., Madras, and King's Coll., Cambridge. Entered I.C.S., Nov. 1913; Under-Secy. and Dy. Secy., Govt. of Madras, 1919-24; Secy., Indian Taxation Cttee., 1925-26; Dy. Secy., Finance Dept., Govt. of India, 1926-28; Financial Adviser, Simon Commission, 1928-30; Jt. Secy., Industries Dept., Govt. of India, 1930-31; Secy., Round Table Conferences and Jt. Select Ctee. of Parliament on India Bill, 1931-34; Deputy High Commissioner for India in London, 1934-38; Agent-General

and High Commissioner for India in the Union of South Africa, 1938-41; Chairman, Bombay Port Trust, 1941-46; Indian Ambassador in Tokyo, 1947-48; Leader of Indian Delegation, Commonwealth Conference at Canberra, 1947; Indian Ambassador in United States, 1948-49; Governor, Reserve Bank, 1949-57. *Address:* Mafatlal Park, Bombay 26.

RAU, Pendyala Satyanarayana, B.A. (Mad.), M.A. (Oxon.), I.C.S., Ex-Chairman, Damodar Valley Corporation. *b.* July 31, 1895; *Educ.:* Madras Univ. and New Coll., Oxford. Entered I.C.S., 1918 and served as Asstt. Commr., Madhya Pradesh and became successively Dy. Commr., Settlement Officer, Settlement Commissioner, Commr. of Excise and Inspector-General of Registration, Financial Secy.; Director-General of Food, Govt. of India; Commissioner, Nagpur Division, 1943-45; Chairman, Provincial Industries Cttee., 1945-46; Financial Commr., 1946; Chief Secy. and Adviser to H.E. the Governor of M.P., 1946-48; Regional Commr. and Adviser to the Rajpramukh of Rajasthan and Dewan of Jodhpur, 1948-49; Regional Commissioner and Adviser to the Rajpramukh and to the Government of Madhya Bharat, 1949-52; Chairman, Damodar Valley Corporation Enquiry Cttee., 1952-53; Adviser to the Planning Commission on Programme Administration; Adviser, PEPSU, 1953-54; Chairman, Damodar Valley Corporation, April 1954-March 1956; Adviser, T.C. State, March to Dec. 1956; awarded 'Padma Bhushan,' April 1954. *Clubs:* Gondwana Club, Nagpur; Jiwaji Club, Gwalior; Yeshwant Club, Indore; United Service Club, Calcutta. *Address:* C/o "Anderson House", Alipore, Calcutta 27.

RAU, Dr. U. Krishna, M B B S, Speaker, Legislative Assembly, Madras, since May 1957. *b.* Oct. 10, 1900; *Educ.:* St. Paul's High School, Madras; Madras Christian Coll. High School, Presidency Coll., Madras; M B B S from Madras Medical Coll., 1924. Member, Madras Corporation Council 1930-51, Mayor of Madras, 1947; member, Madras Leg. Assembly, since 1952, Minister for Industries and Labour, Madras, 1952-54; Editor, *The Antiseptic*, and *The Health*, Madras. *Recreations:* Tennis, Cricket and Table Tennis. *Clubs:* National Sports Club of India, Cricket Club of India, Cosmopolitan Club; The Madras United Club. *Address:* "Hawarden", 69, Laudera Gate Road, Vepery, Madras-7.

RAUF, Mohamed Abdul, B A (Hons. in Jurisprudence), 1924, B C L. (Oxon.), 1925, called to the Bar, Middle Temple, Jan. 1924, LL.D. (Dublin), Indian Ambassador in Belgium. *b* November 15, 1901; *Educ.:* St. Paul's High School, Rangoon, and Worcester College, Oxford. Practised at the Bar in the Rangoon High Court until end of 1941; practised at the Bar at Allahabad High Court, 1942 to 1945; appointed Judicial member of Income-tax Appellate Tribunal; Representative of the Govt. of India in Burma, Nov. 1946-Aug. 15, 1947; Indian High Commissioner in Burma, Aug. 1947-Jan 1948; Ambassador in Burma, 1948-52; Ambassador in Japan, 1952-54; High Commissioner in Canada, 1954-58. *Address:* C/o External Affairs Ministry, New Delhi.

RAUT ROY, Satchidananda, Poet and Writer. *b.* 1915, in Orissa; *Educ.:* Graduated, 1939. First to introduce modern prose-verse in Oriya literature and ushered in a new era in the literature of Orissa; Specialist in Industrial Relations; attended Social Services Seminars held in Australia and New Zealand as a nominee of the Govt. of India, 1952; has written many treatises on subjects of Industrial Relations, Social Welfare and Labour legislation in India; participated in the Harvard Univ. International Seminar of Arts and Science at the invitation of Harvard Univ., 1955; visited on study and lecture tour the South-East Asian Countries, 1952, and Britain, France, Italy, Switzerland, 1955; appointed a Regional Adviser in Calcutta to the Central Board of Film Censors, 1956. *Publications:* English: *The Boatman Boy and Forty Poems;* Poems and books on Industrial relations, etc.; Reference: *Sochi Raut Roy—A Poet of the People* written by 22 eminent persons of India; other works: *Baji Raut; Avignyan; Avijan; Bhanumati Desa; Paltisri; Pandulipi;* short stories, novels, etc. *Address:* Executive Officer, Kesoram Cotton Mills Ltd., 42, Garden Reach Road, Calcutta 24.

RAY, Dr. Anath Bandhu, M.B., F.S.M.F. (West Bengal), (1947), Minister of State in-Charge, Deptt. of Health, Govt. of West Bengal, since April 26, 1957. *b.* Nov. 30, 1897; *Educ.:* Cuttack Mission School, Orissa; Hooghly Govt. Coll., Bengal; M. B. from Carmichael Medical Coll., Calcutta, 1923; Post Graduate training in England and Scotland; Gold medallist in Surgery; Senior House Surgeon, Carmichael Medical Coll Hospitals, Calcutta; Teacher of Anatomy & Surgery, Bankura Sammilani Medical School and Hospital; Surgeon there since 1924; Supdt, Bankura Sammilani Medical School & Hospital, 1943-48; Life Member, Red Cross Society; Member, Assoc. of Surgeons of India; Fellow of the State Medical Faculty (West Bengal), since 1947; member, I.M.A; Chairman, Dist Resistance Group, Bankura; Commandant, Special Constabulary, Bankura; member: West Bengal P.C.C. Board of Governors, Christian Coll., Bankura. *Clubs:* Calcutta Medical Club; Bankura Medical Club. *Address:* 67-A, Gray Street, Calcutta; Feeder Road, Bankura.

RAY, Nihar Ranjan, M.A. (Cal.), D. Lett. & Phil. (Leiden), F.L.A. (Great Britain), F.R.S.A., F.R.A.S., etc. Bagiswari Professor of Indian Art and Culture, Calcutta University; Member, Rajya Sabha. *b.* Jan. 14, 1904; *Educ.:* A. M. College, Mymensingh; M. C. College, Sylhet; University College, Calcutta; University College, London; Leiden University. Calcutta University prizeman and gold medallist; Mrinalini Research Gold Medallist; Premchand Roychand Scholar; Griffith Prizeman; Mouat Gold Medallist; Sarojini Basu Medallist, Calcutta University. Government of Bengal Research Fellow in Indian Art and Archæology, 1927-30; University Post-Graduate Lecturer in Indian History, Art and Archæology, 1931-44; Ghosh Travelling Fellow, Calcutta University, 1935-36; represented Calcutta University at the XIX International Congress of Orientalists, Rome, 1935, the Anglo-American Historical Conference, London, 1936 and the International Numismatists Congress, London, 1936; President, Federation of the Indian Students Abroad, Prague Session, 1936; Member, Indian National Delegation, Pacific Relations Conference, 1951; Chief Librarian, Calcutta University, 1937-44; Pres., Bengal Library Association, 1939-43; General Secretary, Asiatic Society, Calcutta, 1949-52; Vice-Pres., Indian Society of Oriental Art, Calcutta; Visiting Prof., Washington Univ., and Guest Lecturer at U.S. Univs., 1952-53; Tagore National Prizeman, 1950; Cultural Adviser to Govt. of Burma, 1954-56; Pres., All-India Bengali Literary Conference, 1954; Sectional Pres., Indian History Congress, 1954. *Publications:* *Brahmanical Gods in Burma, Sanskrit Buddhism in Burma, Theravada Buddhism in Burma, Indo-Burmese Art, Maurya and Sunga Art, Dutch Activities in the East, Rabindra-Sahityer Bhumika* in 2 volumes (in Bengali), *A People's History of Bengal* (in Bengali), etc., etc. *Address:* The University, Calcutta.



RAY, Priyada Ranjan, M.A., F.N.I. (1935), Hon. Professor and Offg. Director, Indian Assoc. for the Cultivation of Science, Calcutta. *b.* January 16, 1888; *Educ.:* Presidency College, Calcutta Professor of Chemistry, City College, Calcutta (1913-18); Assistant Palit Professor and Lecturer in Chemistry, Calcutta Univ. (1919-37), Khaira Professor of Chemistry (1937-45); Palit Professor of Chemistry (1946-52). President, Indian Chemical Society (1947-48); President, Indian Science Congress, Chemistry Section, 1932, Co-operating Editor, *Chemische Analyse*, Leipzig, and of *Microchimica Acta*, Vienna (now defunct); member Cttee. of New Reactions of the International Union of Chemistry, Editor *Science and Culture*; member, Council of S S R S, (U S A) *Publications:* Articles in Indian, German and English journals on problems of Inorganic, Analytical and Magneto-Chemistry, *The Theory of Valency and the Structure of Chemical Compounds; Outlines of Inorganic Chemistry;* Translation of Riesenfeld's 'Anorganish-Chemisches Praktikum.' *Address:* 50 1, Hindusthan Park, Ballygunge, Calcutta.

RAYCHAUDHURI, Tapankumar, M A, D.Phil (Calcutta), D.Phil (Oxon), Deputy Director, National Archives of India, New Delhi. *b.* May 8, 1926, *Educ.:* Barisal Zilla School, 1936-41; Presidency Coll., Calcutta; First Class Honours in History (1945) and in M A. (1947) from Calcutta Univ.; Balliol College, Oxford Started research under Sir Jadunath Sarkar in 1948 on Social History of Mughal India and obtained D Phil. degree (Calcutta), 1951; joined Calcutta Univ. as Lecturer in History, 1948; went to Oxford as State Scholar, 1953 *Publications: Bengal under Akbar and Jahangir; An Introductory Study in Social History* (1953). *Recreations:* Travelling, Chess, Music. *Address:* Constitution House, New Delhi.

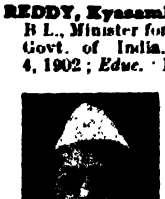
REDDI, Dianapati Sadasiva, M A. (Hons.) (Madras), M A. (Hons.) (Oxford), Diploma in Anthropology (Oxon.), Vice-Chancellor, Osmania Univ., Hyderabad *b* April 28, 1897, *Educ.:* Madras Christian Coll., Madras; M A (Hons.), 1918; St. John's Coll., Oxford, M A (Hons.), 1921, Diploma in Anthropology, 1922 Joined the education service of Madras State, 1923; served in various capacities in the teaching and administrative branches; Director of Public Instruction, Madras, 1948-52, in Liberia as Head of the UNESCO Technical Assistance Mission, June 1952-May 1954; again Director of Public Instruction, Andhra, 1954-57. *Clubs:* Presidency A Gymkhana Clubs, Madras; Golf Club, Bangalore; Secunderabad Club, Secunderabad. *Address:* Vice-Chancellor's Lodge, Hyderabad 7.

REDDY, Dr. B. Gopala, Minister for Revenue and Civil Expenditure, Government of India since May 12, 1958. *b.* August 5, 1907; *Educ.:* Graduated from Visva Bharathi, Santiniketan, 1927. Actively connected with Congress, since 1931; imprisoned several times; member of the first Congress Ministry, 1937-39 in charge of Local Administration; was the youngest member of the Rajaji Cabinet, re-elected to the Madras Assembly, 1946; Finance Minister and Leader of the House, 1947-52; Pres., A P.C.C., Dec. 1953-June 1955; re-elected from two constituencies in the General Elections to the Andhra Assembly; elected Leader, United Congress Legislature Party, March 20, 1955; held the portfolios of Home, Services, Finance, Education, etc.; Pro-Chancellor, Andhra and Sri Venkateswara Univs.; Pres., Dakshina Bharat Hindi Prachar Sangh, Andhra Branch; at Shantiniketan took keen interest in the study of Indian languages; Pres., Telugu Bhasha Samithi, since 1947; was Pres., South Indian Assoc. of Painters, Madras, for three years; takes keen interest in the development of fine arts; is fond of music and dancing; awarded the Hony. degree of Doctor of Letters by the Andhra Univ., Dec. 3, 1955; has translated some books of Rabindranath Tagore into Telugu from original Bengali. Chief Minister, former Andhra, March 1953 to Oct. 1956; Minister, Andhra Pradesh, Nov. 30,

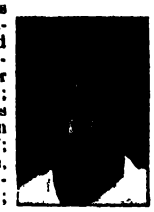
1956 to March 1957; Minister for Finance, Govt. of Andhra, April 1957-April 1958; Deputy Minister, Finance, Govt. of India, April 1958-May 12, 1958. *Address:* Buchireddipalam, Nellore District; New Delhi.

REDDY, Konda Venkat Ranga, Minister for Home (Police, Prohibition), Govt. of Andhra Pradesh, since Apr. 1957; Advocate. *b.* Dec. 10, 1891. *Educ.:* Private Schools; Normal School, Hyderabad; passed the Law Exam. conducted by the High Court. Practised law, 1909–46; one of the founders of Andhra Movement started in the State, 1923; Pres., Andhra Mahasabha, 1937–42; was on the Working Cttee., Andhra Mahasabha as Treasurer, Member, etc.; has taken active interest in the organisation and management of libraries, hostels, educational and cultural institutions; M.L.C., Hyderabad, 1937–39; initiated a number of important measures including the abolition of Jagirs, legalisation of inter-caste marriages among Hindus and the right of the children to inheritance, removal of untouchability, Hindu women's rights to property, etc.; joined freedom movement as a whole-time worker, 1946; was associated with the Andhra Mahasabha till its merger with the Hyderabad State Congress; courted jail in connection with the freedom struggle launched by the Hyderabad State Congress, 1948; Pres., Telangana P.C.C., 1950-52; member, A.I.C.C.; is on the Executive Cttee. of the Pradesh Congress; M.P., Aug. 1950-Feb. 1952; elected M.L.A., Hyderabad from the Shahabad Constituency; was on the Managing Cttees., Andhra Vidyalaya, Andhra Girls' High School, Reddy Hostel, Vemana Andhra Bhasha Nilayam; is associated with a number of other Andhra institutions; was Founder, Vemana Andhra Bhasha Nilayam; was its Pres. for a number of years; was Pres., Hyderabad State Riyaya-e-Jagir Assoc.; Pres., Hyderabad P.C.C., Jan.-June 1954; Minister for Revenue, Excise and Forests, Hyderabad, March 1952-Oct. 1956; Minister for Revenue, Andhra Pradesh, Nov. 1956—March 1957. *Publications: Principles of Jurisprudence* and *Criminal Digest of Hyderabad. Recreation:* Gardening. *Address:* Begumpet, Hyderabad. *Permanent Address:* "Sree Sadan", Feelkhana, Hyderabad.

REDDY, Kyasambally Chengalaraya, B.A., B.L., Minister for Works, Housing and Supply, Govt. of India, since Apr. 1957. *b.* May 4, 1902; *Educ.:* Pachaiyappa's Coll., and Law College, Madras Pres., Mysore Peoples' Federation, 1935-37, Pres., Kolar Dist. Board, 1953-37; was for some time Editor of *Janarani*; effected a coalition of the Peoples' Federation with Mysore Congress, Oct 1937; Pres., Mysore Congress, 1937-38 and 1946-47; was incarcerated four times; went to England and the Continent as representative of the All-India States Peoples' Conference and Miners' Conference to attend the International Miners' Confere ce, 1946; elected Pres., Mysore Congress and successfully launched Satyagraha for the establishment of Responsible Govt. in Mysore; elected Leader of the Assembly thrice since 1947 and was Chief Minister, 1947-52; was member, Indian Constituent Assembly, 1947-50; elected again to the State Legislative Assembly in 1952; member: Rajya Sabha; visited U.S.S.R. & Europe, on Soviet Govt's. invitation, Oct.-Nov. 1956; elected member, Lok Sabha, March 1957; member, Ex.-Cttee., All-India States People's Conference, 1944-45; Working Cttee., Mysore Congress, since 1937; Pres., Rashtrabhasha Prachar Samiti of Wardha, Delhi Centre, since 1952; Founder Member, Delhi School of Economics; Minister for Production, Govt. of India till April 1957. *Address:* Kyasambally Village P.O., *Via* K.G.F., Mysore State, S. India; 9, Janpath, New Delhi.



REDDY, Neelam Sanjiva, Chief Minister, Andhra Pradesh, since Nov. 1, 1956. *b.* May 19, 1913; *Educ.:* Adyar; Arts Coll., Anantapur. Secretary, Andhra P.C.C., 1936–46; courted jail several times for participation in Satyagraha movement; elected M.L.A., Madras, on Congress ticket from Anantapur General Constituency, 1946; was Secy., Madras Congress Legislature; member, Indian Constituent Assembly, 1947; Minister for Prohibition, Housing and Forests, Madras, April 1949-April 1951; resigned and elected Pres., Andhra P.C.C.; was Exec. Cttee. member and Parliamentary Board member of A.I.C.C. till the Avadi Congress Session; elected member, Rajya Sabha in bye-election, 1952-53; elected member, Leg. Assembly from Kalahasthi Constituency, 1953; unanimously elected Leader, Andhra Congress Legislature Party; became the first Dy. Chief Minister of Andhra State, Oct. 1, 1953; again elected member, Andhra Leg. Assembly from Kalahasthi, Feb. 1955; Dy. Chief Minister, Andhra, March 28, 1955-Oct. 31, 1956; elected Leader of the Andhra Pradesh Congress Legislature Party, Oct. 21, 1956. *Address:* Hyderabad.



REDDY, N. Satyanarayana, Political and Trade Union worker. *b.* March 5, 1928; *Educ.:* Hyderabad and Aligarh. Joined Congress, 1942, became one of its prominent leaders; left Congress, supported the Telengana struggle led by the Communist Party and became Founder-Gen. Secy., Democratic People's Party, 1950; subsequently the Founder Secy., Peoples' Democratic Front Central Council and Central Secretariat; Generab Secy.: All-India Cement Workers' Federation; Confederation of Central Govt. Employees, Andhra-Pradesh; Secy., Andhra-Pradesh Trade Union Congress (State Cttee., A.I.T.U.C.); Pres.: All-India P. & T. Administrative Employees' Union; All-India Telegraph Engineering Employees' Union—Class III and IV; All-India Postal Employees' Union—Postmen and Class IV, Hyderabad State; All-India Postal Employees' Union—Class III; All-India Railway Mail Service Employees' Union—Class III & IV, Hyderabad State; Mancharial Cement Workers' Union; member, A.I.T.U.C. Central Council; National Federation of Posts and Telegraphs Employees' Federal Council; Advisory Cttee member, Regional Resettlement and Employment Exchange; Labour Advisory Cttee.; Central Technical Tripartite Cttee. of the Govt of India and delegate to the I.L.O. Workers' Education Seminar, Denmark representing A.I.T.U.C.; resigned from the Democratic People's Party, 1955 and joined the Communist Party of India; became Secretariat-member, Hyderabad Communist Cttee. of the C.P.I.; Chairman, Editorial Board, *United Worker*, English & Urdu monthly journal. *Address:* Secretary, P.D.F. Central Council, 101, Chikkedpally, Hyderabad Dn.

REDDY, Mr. Justice P. Chandra, B.A., B.L., Chief Justice, High Court, Andhra Pradesh, since Jan. 31, 1958. *b.* July 1, 1904; *Educ.:* V. R. High School, Nellore; Pachaiyappa's Coll., Madras; Law Coll., Madras; took law degree, 1927. Enrolled as an Advocate, Madras High Court, Aug. 1928; worked in the Chambers of Shri P. Venkataramanarao (Govt. pleader) who subsequently became a Judge of the High Court of Madras and later Chief Justice of Mysore High Court; acted as Crown Prosecutor, 1946; President of the Republican Art Theatres till 1954; Judge, High Court, Madras, 1949-54; Chairman, Society for the Protection of Children, 1953-54; Judge, Andhra High Court, July 1954-Oct. 31, 1956; Judge, Andhra-Pradesh High Court, Nov. 1, 1956-Jan. 30, 1958. *Publications:* Commentary on the Madras Hindu Religious Endowment Act and the Madras Estates Land Act in the early years of the professional career. *Recreation:* Gardening. *Clubs:* Madras Cosmopolitan Club, Gandhinagar Club. *Address:* Chief Justice, Andhra Pradesh High Court, Hyderabad.

REU, Bisheshwar Nath, Sahityacharya (1909), Mahamahopadhyaya (1942), Sanskrit Writer and Historian. *b.* July 2, 1890; *Educ.:* Jodhpur & Jaipur. Professor of Sanskrit, Jaswant Coll., Jodhpur; Supdt., Archaeological & Sumer Public Library, Jodhpur; Examiner for M.A., Banaras Hindu Univ. 1942; Co-opted, as an expert for Ph.D. to the Research Degree Cttee. by Agra Univ., 1945; Corresponding Member to Historical Records Commission, 1938, as Associate member later; member, Cttee. to advise the Govt. of India about the management of the Archives of Indian States, 1947. *Publications: Bharat-ke-Prachin Rajvansh* (Three vols); *Raja Bhoj; Marwar-ka-Itihas* (Two vols), *Rashtrakutom-ka-Itihas; History of Rashtrakutas; Glories of Marwar* and *Glorious Rathors, Coins of Marwar; Rathod-Dharmadas Aryadhanam* (Hindu Law); *Vishveshvar Smriti*; translated *Shatir Sudhakar Address*. Chandpol, Jodhpur.

REZZONICO, His Excellency Dr. Clemente A., Doctor in political science and constitutional law, Ambassador Extraordinary and Plenipotentiary of the Swiss Confederation to India, and Envoy Extraordinary and Minister Plenipotentiary to Ceylon and Nepal *b.* April 21, 1897. *Educ.:* St. Under, Basle, Berne. Attaché, 2nd Secy and First Secy of Legation in London, Rome, First Secy. and Counsellor in London; Head of the Press Service of the Swiss Foreign Office in Berne; First Counsellor of Legation in Paris; Chargé d'Affaires in Pakistan; Minister in Peking. *Address:* 7, Prithvi Raj Road, New Delhi.

ROONWAL, Dr. M. L., M.Sc. (Hons.), Ph.D. (Cantab.), F.N.I. (1945), Director, Zoological Survey of India, Calcutta, since 1956. *Educ.:* Jodhpur, Lucknow and Cambridge (England). Officer-in-Charge, Locust Field Research Station, Pasni, Baluchistan (1935-39); Zoological Survey of India (1939-49); Chief Research Officer, Forest Research Institute, Dehra Dun (1949-56). *Publications:* Over 130 research papers in pure and applied zoology. *Address:* Director, Zoological Survey of India, 34, Chittaranjan Avenue, Calcutta 12.

ROWJEE, Mahomedbhoy Ibrahimbhoy, B.A., M.Sc., C.E. (U.S.A.). *b.* Sept 28, 1900. Diwan to His Highness the Aga Khan; President, H.H. the Aga Khan's Federal Council for India; Bombay Municipal Corporator 1932 to 1948; worked on the Standing Committee of Bombay Municipal Corporation for 11 years and also served in various special Committees of the Corporation; at 21, began serving His Late Highness the Aga Khan and the Ismaili Khoja Community in various capacities; Vice-President, Shia Imami Ismaili Khoja Bombay Council; President, H.H. the Aga Khan's Supreme Council for Bombay State, and for India; built a Sanatorium and Prayer Hall at Matheran for the use of the Shia Ismaili followers of H.H. the Aga Khan; Sheriff of Bombay, 1937-38; Mayor of Bombay, 1946-47. *Address:* Mookerjee Manzil, 50-52, Hughes Road, Bombay.

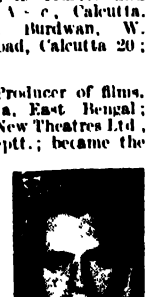


ROY, Dr. Bidhan Chandra, M.D. (Cal.), M.R.C.P. (London), F.R.C.S. (Eng.), D.Sc. (Cal. & Allahabad). Chief Minister, West Bengal, since Jan. 23, 1948. *b.* July 1, 1882; *Educ.:* Patna, Calcutta, England, Calcutta Medical Coll., Calcutta, and St. Barts Hospital, London; Pres., R. G. Kar Medical Coll., Belgachia; Professor of Medicine, R. G. Kar Coll; Founder of medical and educational Institutions; Vice-Chancellor, Calcutta Univ., 1942-44; Pres., All-India Medical Council, 1939-45; Mayor, Corporation of Calcutta, 1931-33, member, Congress Working Cttee.; Pres., National Council of Education and Jadavpur Technical Coll.; Calcutta Medical Club and also Indian Medical Assoc.; Chairman, Higher Institute of Technology, Govt. of India; member: Council of Scientific and Industrial Research; National Development Council, India; Chairman, All-India Board of Biophysics; Pres., Jadavpur Univ., Calcutta. *Address:* 36, Wellington Street, Calcutta.



ROY, Sir Bijoy Prosad Singh, Kt. (1933), K.C.I.E. (1943), M.A., B.L., President, Federation of Indian Chambers of Commerce and Industry 1958-59; ex-President, Bengal Legislative Council; Ex-Minister, Local Self-Govt., and Revenue Department, Bengal, 1930-41; Sheriff of Calcutta, 1952. *b.* 12th January 1894; *Educ.:* Chakdighi S. P. Institution; Hindu School, Calcutta; Presy. Coll., Calcutta; Univ. Law Coll., Calcutta, awarded King's Commission of Hon. 2nd Lieut., 1918; member, Bengal Leg. Council, 1921-36 and 1940; Bengal Leg. Assembly, 1936-40; Chairman, Bengal Leg. Council, 1943-47; Councillor, Calcutta Corporation, 1924-30; elected President, National Liberal Federation of India, 1942, was Director: Managing Agency of India Steamship Co., Ltd.; former Imperial Bank of India; Pres.: Indian Chamber of Commerce, 1952 & 1957; Indian National Steamship Owners' Assoc.; Kshatriya Mahasabha; All India Music Conference; was Fellow, Calcutta Univ. and Sheriff of Calcutta; Delegate of the Indian National Steamship Owners' Assoc. to the International Chambers of Commerce, Tokyo, 1955; is Trustee; Indian Assoc., Calcutta; Bharatiya Vidya Bhavan; is Trustee and Vice-Pres., British India Assoc., Calcutta. *Address:* Chakdighi, Dist. Burdwan, W. Bengal; 15, Lansdowne Road, Calcutta 20; "Manjusree", Darjeeling

ROY, Bimal, Director and Producer of films. *b.* July 12, 1909, in Dacca, East Bengal; *Educ.:* Dacca Univ. Joined New Theatres Ltd., Calcutta in the Camera Deptt.; became the Cameraman in a few years' time; his first independent work was the well known picture, 'Devdas', acted by Saigal and Jamuna, and directed by P. C. Barua; established as a leading Cameraman; became a Director, 1943; directed the Classic, 'Udayer Pathe' acclaimed as one of the best ever made; re-made it in Hindi under the title 'Hamrahi'; his most successful pictures are 'Anjangarh'' 'Pahela Admi', 'Maa', 'Do Bigha Zamin', the epic tale of India's long-suffering peasantry, 'Naukri', the tale of India's unemployed millions and 'Parineeta', 'Biraj Bahu' and 'Devdas', all immortal classics of Sarat Chandra; has made a documentary for the Govt. of India entitled 'Gotama the Budha' which received the President's Gold Medal; his "Madhumati", a tender love story and 'Sujata' a passionate plea on behalf of India's untouchables are scheduled for release in 1958. *Address:* 5, Godiwalla Bungalow, Mount Mary's Road, Bandra, Bombay 20.



ROY, Chittaranjan, M.Sc., LL.B., Dy. Minister for Co-operation, Govt. of West Bengal. *b.* May 1896; *Educ.:* Calcutta Univ. Hon. Director: Free Land Talkies Ltd., Kharagpur, W. Bengal; Jhargram Electric Supply Co. Ltd., Jhargram, West Bengal; Chairman, Howrah Insurance Co., Ltd., Calcutta; member, Executive Cttee., Bangiya Sahitya Parishad, Calcutta; Secy., Vidyasagar Memorial Cttee. *Publications:* Bengali book *Mona Vana*, an adaptation from Maeterlinck's *Monna Vanna*; articles on Ethnological character of Midnapur District. *Address:* P-8, Belliaghata Main Road, Calcutta 10.

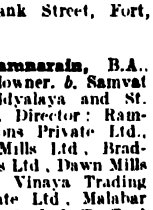
RUIA, Madanmohan Ramnarain, B.A., Merchant, Banker and Millowner. *b.* Aug. 24, 1914; *Educ.:* Marwari Vidyalaya and St. Xavier's College, Bombay. Director: Ramnarain Sons Private Ltd., Phœnix Mills Ltd., Vinaya Trading Co. Private Ltd., United Commercial Bank Ltd., United Agencies Private Ltd., Bombay Potteries and Tiles Ltd., Chopda Electric Supply Co. Ltd., Ramnarain Sons (Pakistan) Ltd., The Great Eastern Shipping Co. Ltd.; Bradbury Mills Ltd.; Dawn Mills Co. Ltd., Jagat Trading Co. Private Ltd., Century Spg. and Mfg. Co. Ltd., The Indian Electro Chemicals Ltd., Mukund Iron & Steel Works Ltd., Ruia Industries Private Ltd., Poysha Industrial Co. Private Ltd., Shamun Private Ltd. and M. Ramnarain Private Ltd.; President, East India Cotton Assoc. Ltd., Vice-Pres., Indian Central Cotton Cttee; Pres., Cotton Buyers' Assoc.; Trustee, Bombay Port Trust; member: Cotton Imports Advisory Cttee., Bombay Customs Advisory Cttee., Cotton Advisory Board Cttee., Federation of Indian Chambers of Commerce & Industry, Export Advisory Council, Managing Cttee of the Indian Merchants' Chamber. *Clubs:* C.C.I.; Willingdon Sports Club; Orient; National Sports Club of India; Bombay Presidency Radio Club; R.W.I.T.C. Ltd.; Poona Club. *Address:* State Bank Building, Bank Street, Fort, Bombay.



RUIA, Radhakrishna Ramnarain, B.A., Merchant, Banker and Millowner. *b.* Samvat 1973. *Educ.:* Marwari Vidyalaya and St. Xavier's College, Bombay. Director: Ramnarain Sons Private Ltd., Phœnix Mills Ltd., Bradbury Mills Ltd., Dawn Mills Co. Ltd., Vinaya Trading Co. Private Ltd., Malabar Steamship Co. Ltd., Trafford Cotton Co. Ltd., England, Ruia Industries Private Ltd., Radhakrishna Ramnarain Private Ltd., United Agencies Private Ltd., Kolhapur Sugar Mills Ltd. (Kolhapur), Ramnarain Sons (Pakistan) Ltd., Karachi, Noble Steel Products Private Ltd.; Member, Millowners' Association Cttee. *Clubs:* C.C.I.; Willingdon; Orient. *Address:* State Bank Building, Bank Street, Fort, Bombay.



RUIA, Ramniwas Ramnarain, Merchant, Banker and Millowner; Senior Director, Ramnarain Sons Private Ltd., Bombay. *Educ.:* Marwari Vidyalaya, Bombay and privately. Entered business at an early age; Director: Ramnarain Sons Private Ltd., Phœnix Mills Ltd., Finlay Mills Ltd., Gold Mohur Mills Ltd., Bank of India Ltd., Andhra Valley Power Supply Co. Ltd., United Power Co. Private Ltd., Bachhraj & Co., Private Ltd., Bachhraj Factories Private Ltd., Oudh Sugar Mills Ltd., Hindustan Sugar Mills Ltd., Hind Cycles Ltd., New India Assurance Co. Ltd., Oxy-Chloride Flooring Products Ltd., Mining Management Syndicate Private Ltd., Oriental Industrial Investment Corporation Ltd., Trafford Cotton Co. Ltd., England, United Agencies Private Ltd., Dawn Mills Co. Ltd., Kolhapur Sugar Mills Ltd., The Machinery Paints & Chemicals (India) Ltd., Indokem Private Ltd., New Consolidated Construction Co. Ltd.; J. K. Chemicals Ltd., Polychem Ltd., Bradbury Mills Ltd., Hollerith (India) Private Ltd., Fashion Prints Private Ltd., Carona Sahu Co. Private Ltd., Carona Shoe Co. Private Ltd., Chemicolour Private Ltd., East India Hotels Ltd., Colour-Chem Ltd., Ruia Industries Private Ltd.; Committee Member of Royal Western India Turf Club Ltd and Assoc. of Indian Trade and Industry. *Clubs:* C.C.I.; Willingdon, Orient; Hindu Gymkhana. *Address:* State Bank Building, Bank Street, Fort, Bombay.



RUKMINI Devi, Padma Bhushan, 1956. President, Kalakshetra International Arts Centre, Adyar, Madras. *b.* 1904, Madura. Started dancing under the personal guidance of Anna Pavlova; travel and research in dance, music, drama in many countries; extensive tours in N. and S. India with dance recitals and lectures; works through Art and Education for India's cultural renaissance specialising in Bharata Natya, music, drama, painting and crafts. Dramatic productions include *The Light of Asia; Incidents from the Life of Bhishma; Kuraikal Ammayar* (Tamil); *Rukmini Swayamvaram* (Kathakali); *Kutrala Kuravanji* (Temple drama); *Kumara Sambharam; Ramayana* (Dance drama); Lectures and writes on Theosophy, Religion, Art, Culture, Education, etc.; Pres., World Federation, Young Theosophists; Director: The Besant Theosophical School, Adyar; the Dr. V. Swaminatha Iyer Tamil Library; Pres., The Bharata Samaj; Pres., Theosophical Educational Trust; Head of the International Theosophical Centre, Netherlands, Director, The Arundale Training Centre for Teachers, Adyar; Member, Indian National Commission for Co-operation with UNESCO; Pres., Theatre Centre, Madras; Chairman, Madras State Sangeet Natak Akadami; Vice-Pres., International Vegetarian Union; nominated member, Rajya Sabha, representing Art. *Address:* Adyar, Madras 20.

SACHAR, Bhim Sen, B.A., LL.B., Governor of Andhra Pradesh, since Aug. 1, 1957. *b* 1st Dec. 1893; *Educ.:* Punjab University. Joined the Bar in 1918; joined Non-Co-operation Movement, 1921; Secretary, Punjab Provincial Congress Committee, 1921; Registrar, National University, Lahore; Secretary, Municipal Committee, Guiranwala, 1922-24; Municipal Commissioner, Gujranwala, 1924-33; founded the Sunlight of India Insurance Co. Ltd. in 1932; Director, Gujranwala Electric Supply Co. Ltd. and Local Director, Punjab National Bank, Ltd.; elected member, Punjab Legislative Assembly on Congress ticket, 1936-45; elected leader, Congress Party, Punjab Legislative Assembly, 1940; re-elected member, Punjab Leg. Assembly, 1945; elected member, Constituent Assembly of Pakistan from West Punjab in 1947 and Deputy Leader of the Congress Party in the Pakistan Constituent Assembly; Finance Minister, Punjab Government, 11th March 1946 to 3rd March 1947; elected leader, Congress Legislature Party, Punjab, India, April 1949; Chief Minister, Punjab, India, 1949 and 1952-56; Governor of Orissa, Sept. 1956-July 1957. *Address:* Raj Bhavan, Hyderabad (Andhra).



SACHDEV, Mulk Raj, B.A. (Hons.) (Punjab), M.A. (Cantab.), I.C.S., Secy., Ministry of Works, Housing and Supply, Govt. of India, since April 1954. *b.* Oct. 12, 1903; *Educ.:* Quetta, Lahore and Cambridge. Asstt.

Commissioner, D. C., Controller of Supplies, Bombay; Deputy Director-General, Supply Deptt.; Director-General, Civil Supplies, Punjab; Excise and Taxation Commissioner; Secy. to Govt., Punjab; Partition Commissioner; Chief Secretary, Govt. of East Punjab upto June 1953; Director-General, Supplies and Disposals, June 1953-April 1954; *Clubs:* Willingdon Club, Bombay; East Punjab Club, Simla. *Address:* Ministry of Works, Housing and Supply, New Delhi 2.

SAFEER, Pritam Singh, B.A., LL.B. (Punjab), Punjabi Poet. Advocate, Supreme Court. *b.* April 12, 1916; *Educ.:* Khalsa Coll., Amritsar; Law Coll., Lahore. Member: The Indian P.E.N.; Senate, Punjab Univ., 1952-56. *Publications:* (Poems) *Katak Koonjan; Pap De Sohile; Rakat Boondan; Rag Rishman; Aadjugad. Address:* 32, Park View, Karol Bagh, New Delhi 5.

SAGGI, Dr. Parshotam Das, Author and Journalist; Editor, *The Indian Outlook*, Bombay; Pres., Indians Overseas Cultural Congress, Bombay; Chairman: World Convention on Race Relations; Middle Classes Socio-Economic Convention. *b.* 1913, in Bajwara; *Educ.:* Graduated with Honours from Forman Christian Coll., Lahore; Ph.D., Delhi. Travelled widely to study and acquaint himself with the people of India, Burma, Ceylon, Singapore and Malaya; edited the *Literary Star* and the *Punjab Times*; was responsible for formally establishing the Indian Nationals Overseas Congress, a movement which had the support of Mahatma Gandhi and Pandit Nehru; as Pres., Indian Nationals Overseas Congress, London, attended the United Nations Peace Conference of 1946 in Paris; launched and edited the *Indian Outlook*, a monthly journal from London, 1947; since then, travelled extensively in Europe, United States, and the Caribbean area; acted as an observer at the United Nations at Lake Success, 1950; after his return to India, started *Indian Outlook* in Bombay; Convener and General Secy.: All India Convention on Race Relations, Bombay, Oct. 1952; Northern-India Convention on Race Relations, Feb. 1953; General Secy., World Convention on Race Relations, London; Editor-in-Chief, *Five Year Plan—A Critical Survey, Indians Overseas Year Book and Who's Who, Struggle for Human Rights, Life and Work of Sardar Patel*, and *Life and Work of Netaji Subash Chandra Bose. Address:* Navsari Building, 240, Dadabhoy Naoroji Road, Bombay 1.



SAHAI, Mr. Justice Srinarain, B.A., LL.B., Judge, High Court of Allahabad, since Nov. 11, 1954. *b.* Jan. 13, 1901. *Educ.:* K. P. School, Muir Central Coll. and Law Coll., Allahabad Univ. Joined Legal profession, June 1925; practised as Advocate, High Court, Allahabad till raised to the Bench, Allahabad High Court, 1954. *Recreations:* Golf, Tennis. *Clubs:* Golf Club, Allahabad; Nainital Boat Club, Nainital. *Address:* 4, Hamilton Road, Allahabad.

SAHAY, R. E. Anand Mohan, Indian Ambassador to Thailand, since Sept. 1956. *b.* 1898, at Bhagalpur (Bihar). Gave up study of medicine and joined Independence movement started by Gandhiji, 1920; Private Secy. to Dr. Rajendra Prasad; 1921-23; was Professor in Y.M.C.A. Foreign Language Coll. in Japan for 16 years; organised Japan Branch of the Indian National Congress, 1928 and Indian Assoc. of China in Shanghai, 1938; organised and edited a monthly journal "Voice of India" in English and Japanese, 1930; started "India Lodge," a home for Indian students in Kobe, 1931; wrote number of books on Indian Freedom Movement in Japanese and English; one of the Chief Organisers of the Indian Independence Movement in the Far East during World War II; was Minister and Secretary-General in Subhas Chandra Bose Govt.; Pres., East Indian Railway Employees' Assoc., 1947; nominated member, Central Advisory Council of the Govt. of India on labour, 1948; organised a degree college for women in Bhagalpur, 1949; Commr. for India in the British West Indies, 1950-53; Mauritius, 1953-54; Consul-General in Hanoi, 1955-56. *Address:* Bangkok.

SAHAY, R. E. Bhagwan, B.Sc. (Allahabad), I.C.S., Indian Ambassador to Nepal since Dec. 1954. *b.* Feb. 15, 1905; *Educ.:* Univ. of Allahabad; School of Oriental Studies, London. Jt. Magistrate, U.P., 1929; Dy. Secy. to Govt., U.P., 1936-39; Supdt., Census operations, 1939-41; Secy., Indian Council of Agricultural Research, 1941-43; Joint Secy., Govt. of India, 1944-45; Commissioner, Food & Civil Supplies, 1946-49; Chief Secy., U.P. Govt., 1949-51; Chief Commissioner, Himachal Pradesh, 1951-52; Chief Commissioner, Bhopal, 1952-54. *Address:* Kathmandu.

SAHAY, Krishna Ballabhh, Ex-Minister for Revenue, Excise, Govt. of Bihar. *b.* Dec. 31, 1898; *Educ.:* St. Columbus Coll., Hazaribagh; passed B.A. with Honours in English, coming 1st in the Univ. and obtaining Gait Gold Medal. Prof. of English in Bihar Vidyapith, 1921-23; Member, Bihar Leg. Council, 1924-29; jailed four times between 1930 and 1934 in connection with Congress C. D. Movement; Secy., Bihar Earthquake Relief, 1935-36; elected M.L.A., Bihar, in Jan. 1937 and was appointed Parliamentary Secy. to Minister in-Charge of Political Appointment, Land Revenue and Forest; courted imprisonment, 1940-41 and 1942-44 in connection with individual Civil Disobedience Movement and 1942 movement; elected uncontested to Bihar Leg. Assembly from Hazaribagh Central Constituency in 1946. Editor: *Motherland*, 1921-22; Hindi Weekly named *Chota Nagpur Darpan*, 1940-42. *Address:* C/o The Secretariat, Patna.

SAHAY, Vishnu, B.Sc. (Allahabad), I.C.S., Secretary, Cabinet, Govt. of India, and of Planning Commission. *b.* November 22, 1901; *Educ.:* Allahabad and Oxford. Deputy Commr.; Registrar, Co-operative Societies; Director of Agriculture, Uttar Pradesh; Director-General, Food; Secy., Ministry of Food, 1947-49; Secy. for Kashmir Affairs; Secretary, Govt. of India, Ministry of Food and Agriculture, 1951-53. *Recreation:* Golf. *Address:* New Delhi.

SAHNI, Krishna Kumar, B.Sc. (Delhi), B.A. (Cantab.), Officer on Special Duty, Ministry of Steel, Mines and Fuel, Govt. of India. *b.* March 23, 1916. *Educ.:* St. Stephen's Coll., Delhi; passed B.Sc., 1935; Emmanuel Coll., Cambridge; took B.A. degree, 1938. Joined Burmah-Shell Company, 1939; served in Branch and General Manager's Office; resigned to join the Govt. of India, May 1956; Advisor on Oil Affairs, Planning Commission, Govt. of India 1956-57. *Recreations:* Riding, Tennis, Squash Racquets and Reading. *Clubs:* Overseas Club, London; Willingdon Sports Club, Bombay; Royal Western India Turf, Bombay; Bombay Gymkhana; Delhi Gymkhana and Delhi Golf Club. *Address:* Ministry of Steel, Mines and Fuels, New Delhi.

SAHU, Dinabandhu, M.A., B.L., Minister for Industries, Mining & Geology, Orissa. *b.* 1910; *Educ.:* Graduated at Ravenshaw Coll., Cuttack; M.A., B.L. from Patna. Joined Cuttack Bar, 1936; conducted important political cases on behalf of the Congress till achievement of Independence; elected to the Orissa Leg. Assembly, 1936; again elected M.L.A., Orissa and became Minister for Home, Law, Development, Education and Health, 1952; responsible for establishing the Agriculture Coll., Bhubaneswar in 1946. *Address:* Bangalisahi, Cuttack; Bhubaneshwar.

SAHUKAR, Nariman Dinshe, B.A., Manager, Godrej & Boyce Mfg. Co., Ltd. *b.* Feb. 2, 1902, *Educ.:* St. Xavier's College, Bombay. President, Engineering Association of India, Bombay Br., 1947; President, Assoc. of Indian Industries, 1948; Vice-President, All-India Manufacturers' Organization, 1949; Vice-Pres., Indo-Pan-American, Assoc. *Club:* W.I.A.A. Club Ltd. *Address:* 39-F Hill Road, Bandra, Bombay 20.



SAIN, Kanwar, C.E. (Roorkee), M.ASC'E., M.I.E., I.S.E., Padma Bhushan (1956), Chairman, Central Water & Power Commission, Govt. of India, since June 7, 1953. *b.* Jan. 2, 1899. *Educ.:* Thomason Engineering Coll., Roorkee. Joined Punjab Irrigation, Oct. 1922; joined the I.E.S.; served under the Punjab Govt. in several capacities mainly connected with Irrigation; retired as Supdtg. Engineer, Projects, May 1947; Chief Engineer, Bikaner State, 1947-49; joined the Central Waterways, Irrigation & Navigation Commission, New Delhi, April 1949; was deputed to the U.S.A. in connection with the design of the Hirakud Dam Project, June—Nov. 1949; member (Designs), Central Water and Power Commission, New Delhi, Nov. 1949—June 1951; additional charge as Chief Engineer, Hirakud Dam Project, 1951-53; has been associated with several Engineering Works like Havch Project, Hirakud Dam Projects, etc.; member, American Society of Civil Engineers, from 1939; Life member: Institution of Engineers, India; Indian Roads Congress; Chairman, Hydraulics Cttee. of the Council of Scientific and Industrial Research; Pres., Institution of Engineers (I), Calcutta, 1956-57; was leader of the Indian Delegation of Technical Experts to U.S.S.R.; was Leader of Indian Delegation to Karachi to discuss joint flood problems; member, International Assocn for Hydraulic Research; Consultant to ECAFE, Aug. 1951—Oct. 1951; has been associated with several other engineering institutions; conferred Rao Sahib, 1939; Rai Bahadur, 1942; C.B.E. 1946; awarded special gold medal by H.H. the Maharaja of Bikaner for distinguished services to the Bikaner State, 1948. *Publications:* Has contributed a large number of technical papers on Design, Construction, Research and Economic Irrigation Projects to Punjab Engineering Congress as well as to the Central Board of Irrigation and Power and other Engineering bodies. *Address:* Central Water & Power Commission, Bikaner House, New Delhi.

SAIYEDNA, Dr. Taher Saifuddin Saheb, His Holiness (Mullaji Saheb), Head of Dawoodi Bohra Shia Muslim Community, a business community having interests and connections practically all over the world; till the Inauguration of the Indian Republic on 26th Jan. 1950, was a First Class Sardar of the Deccan and enjoyed all the privileges of that status. *b.* Aug. 5, 1885, at Surat; succeeded to his office, 1915; is the 51st incumbent of the office of Dail-Mutlaq; derives his succession from Prophet Mohammed (peace be upon him) through his descendants the Fatemid Caliphs of Egypt; is an eminent Arabic Scholar and one of the greatest exponents of Islamic culture and literature; his annual Arabic brochures on religious and philosophical subjects published during the month of Ramzan, are acknowledged as masterpieces of Arabic literature; received the Honorary Degree of Doctor of Theology from the Muslim Univ. of Aligarh in a special convocation in 1946; widely travelled in India and the Middle Eastern countries.



keenly interested in Indian and world problems; a liberal patron of education, arts and industries; has made suitable arrangements to conduct about 350 Madresas or schools including High Schools with attached hostels; maintains at Surat an Arabic College the El-Jamea-tus-Saifiyah, where more than 300 students are given free education and are also provided with free boarding and lodging; instances of his munificence are, preparation of Kiswat, *i.e.* an artistic carpet of silver brocade for the covering of the inner walls of the Holy Kaaba at Mecca, the presentation of gold and silver Zarih to the Mausoleas (sepulchres) of the saints of Najaf and Kerbala in Iraq and the erection of a Minaret outside the shrine of Maulana Hussain, the Martyr of Islam, and substantial donations to several institutions in India including Aligarh Muslim Univ. and the Shia Technological Institute at Lucknow; is a patron of the Assoc. of Muslim Education, Mombasa (Kenya); was unanimously elected Chancellor of the Muslim Univ., Aligarh, by the Univ. Court, April 1953; unanimously re-elected Chancellor, Muslim Univ., Aligarh, by the Court, April 1956; received the Degree of Doctor of Laws, Karachi Univ., 1955; received the Freedom of the City of Karachi, 1955; Heir-apparent: Abil Qaued Johar Mohammed Burhanuddin Saheb, appointed to succeed as 52nd Dail-Mutlaq in the line. *Address:* Saify Mahal, Pawai Road, Malabar Hill, Bombay 6.

SAIYIDAIN, Khwaja Ghulam, B.A., M.Ed., Secretary and Education Adviser to the Govt. of India, Ministry of Education, since March 1956. *b.* Feb 14, 1904; *Educ.:* Univ of Aligarh and Leeds (England). Professor of Education, Aligarh Muslim Univ, 1926-39; Director of Education, Jammu and Kashmir State, 1939-46; Educational Adviser to Rampur Govt., 1946-47; Educational Adviser to Bombay Govt., 1947-50; Joint Educational Adviser to Govt. of India, 1951-54; Addl Secy., Ministry of Education, 1954-55; Pres., International New Education Fellowship, London, since 1956. *Publications:* (English and Urdu) *The School of the Future; Principles of Education; Iqbal's Educational Philosophy; Problems of Educational Reconstruction; Education for International Understanding; Education, Culture and the Social Order; Aligarh Movement in Education; The Education of the National Character; Activity School; The Spirit of culture. Recreations:* Reading, Writing. *Address:* Ministry of Education, New Delhi.

SAKSENA, Ramji Ram, B.Sc., M.A., LL.B., Chairman and Managing Director, Eastern Shipping Corporation. *b.* June 15, 1897, Sultanpur, U.P.; *Educ.:* Allahabad Univ. Professor of Economics, Allahabad Univ., 1920-21; joined Income-tax Department, 1922. Imperial Customs Service, 1923; First Secretary, Central Board of Revenue and Under-Secretary to the Government of India, Finance Department, 1934; Officer on Special Duty, Finance Department, Government of India, for the revision of the official publication "Handbook of Commercial Information for India," Third Edition, 1936; Indian Government Trade Commissioner in Japan, April 1937 to September 1940; Indian Government Trade Commissioner in Australia and New Zealand, February 1941-47; Joint Secretary, Ministry of External Affairs and Commonwealth Relations, July 1947 to April 1948; Indian Consul-General in New York, May 1948-May 1951; was High Commissioner in Canada, 1951-55; Ambassador in Burma 1955-56. *Recreations:* Tennis, Bridge. *Address:* Bombay.

SAMBASIVAYYAR, Karaikudi, A leading vainika (instrumentalist-Veena), eighth in a line of vainikas for eight generations; Principal, Kalakshetra, Adyar, Madras; First Presidential Award (March 19, 1952). *b.* Sept. 11, 1869; *Educ.:* Had training in Veena under his father, his only master. Gave his first Veena performance at the age of 10 with his elder brother Subbaramaiyyar who had already been giving solo performances for two years; since then, has given joint performances as 'Karaikudi Bros.' for 30 years; after brother's death, trained up three disciples the first two as his accompanists in performances; honoured by invitations by the Maharajas of Mysore and Travancore; Pres.: Music Academy, Madras, 1952. *Address:* Principal, Kalakshetra, Adyar, Madras.

SAMPURNANAND, Dr., B.Sc. (Alld.), L.T. (Alld.), Chief Minister, U.P., since Jan. 1955. *b.* Jan. 1, 1891; *Educ.:* Queen's College, Benares, Training College, Allahabad. After graduating, worked as a teacher in the Prem Mahavidyalaya, Brindaban and the Harishchandra High School, Benares; worked at the Daly (Rajkumar) Coll., Indore, 1915-18; Headmaster, Dungar College, Bikaner, 1918-21; was Editor, *Today* (Eng. Daily now defunct) and *Maryada* (Hindi monthly); Professor, Kashi Vidyapith, 1922; Member, A.I.C.C., since 1922; thrice Secy., U.P. Provincial Congress Committee, President, second All-India Socialist Conference, Bombay; President, 29th Hindi Sahitya Sammelan, Poona Session 1940; Minister of Education, U.P. Govt., 1938-39; Minister for Education, Finance and Labour, U.P., 1948-51, Home and Labour Minister, U.P., 1951-54. *Publications:* Seventeen books in Hindi and Sanskrit on political, historical and philosophical subjects, and in English on Politics and Philosophy; received Mangala Prasad prize of Rs 1,200 for his book 'Samajvada' (Socialism). *Hobby:* Gardening and Astronomy. *Address:* Jaliya Devi, Benares, Sachivalaya, Lucknow.



SANGMA, Williamson Ampang, Minister for Tribal Areas, Transport and Publicity, Assam, since Jan 1958. *b.* Oct. 18, 1918, at Baghmara village in Garo Hills District, Assam; *Educ.:* Goalpara High School, Jagannath Coll., Dacca; Christian Coll., Serampore. Gave up studies when he was in B.A. class, to join war service, 1942; during World War II, served as a Captain in a Pioneer Battalion in Assam-Burma front till the disbandment of the battalion, 1946; entered politics and became Pres., Garo National Council, 1948; Chief Executive Member of Autonomous District Council, 1952, won Phulbari (Garo Hills) seat of Assam Assembly during general elections, 1957, on Garo National Council ticket defeating Congress candidate; Vice-Pres. Eastern India Tribal Union and leader of the Union in the Opposition, Assam Assembly; became an associate member of Assam Congress Assembly Party and was sworn in as Minister, Jan. 1958. *Recreations:* Tennis, Badminton, Table-Tennis, Painting. *Address:* Shillong.

SANJIVAYYA, D., B.A., B.L., Minister for Local Administration and Labour, Govt. of Andhra Pradesh. *b.* Feb. 14, 1921; *Educ.:* B.A. from Govt. Arts Coll., Anantapur; B.L. from Madras Law Coll. Enrolled as an Advocate, 1950; joined the Congress and was elected to Parliament from the Madras Legislature as a Congress nominee; elected M.L.A. (Madras) from Kurnool Reserved Constituency as a Congress candidate in the general elections, 1952; Minister for Co-operation and Housing, Govt. of Madras, 1952-54. *Address:* Secretariat, Hyderabad.

SANKALIA, Dr. Hasmukh Dhirajlal, M.A. LL.B., Ph.D. (London), Professor and Head of the Dept. of History and Director, Deccan Coll. Post Graduate and Research Institute, Poona. *b.* Dec. 11, 1908; *Educ.:* Elphinstone High School; St. Xavier's Coll. and Law Coll., Bombay; Univ. Coll., London; Bhagwanlal Indraji Prizeman (1933), Silver Jubilee Medal, Bombay Branch, Royal Asiatic Society (1944). Some time Hon. Lecturer, St. Xavier's Coll., Bombay; conducted excavations and explorations in prehistory and early history relating to Gujarat, 1941-42, 1944, 1945, 1947-49, Maharashtra, 1945-46, 1950-51, 1953-54, 1954-56, Karnatak, 1949, 1956 and Madhya Bharat, 1952-53. *Publications: The University of Nalanda; Archæology of Gujarat; Investigations into the Pre-historic Archæology of Gujarat; Historical Geography & Cultural Ethnography of Gujarat; The Godavari Palæolithic Industry; Excavations at Brahmapuri* (Kolhapur); *Excavations at Nasik and Jorwe* and over 100 papers on Indian History, Epigraphy, Iconography and Pre-history. *Recreations:* Hiking, Tennis, Boating, Cricket. *Address:* Deccan College Post Graduate & Research Institute, Poona 6.

SANKRITYAYANA, Rahula, Mahapandita (Banaras), Triputakacharya (Ceylon). Hindi Writer. *b.* April, 9, 1893. *Educ.:* Banaras, Lahore, Madras, Ceylon. Started on a career of travel in 1909; travelled four times in Tibet and thrice in Russia; was Professor of Sanskrit in Ceylon and Leningrad University. *Publications:* More than 125 books in Hindi, Sanskrit, Tibetan. *Recreations:* Travelling. *Address:* Happy Valley, Mussoorie.

SANTHANAM, K., Ex-Chairman, Finance Commission, Govt. of India; *b.* 1895. *Educ.:* Graduated with Honours in Mathematics in 1917. Enrolled in High Court, Madras, 1920; non-co-operated in the same year and gave up practice; did Khadi work, 1920-30; was in jail in the non-co-operation campaigns of 1921-1922, 1930-1932 and 1941; was Editor, *Indian Express*, 1933-40; Member, Indian Legislative Assembly, 1937-42; Joint Editor, *Hindustan Times*, 1943-48; Member, Constituent Assembly from 1946; Minister of State for Railways and Transport, Govt. of India, Oct. 1948-Feb. 1952; Lieut. Governor, Vindhya Pradesh, March 1952-Jan 1956; Chairman, Finance Comm., Govt of India, June 1956-Sept. 1957. *Publications:* Eng.: *Cry of Distress, Ambedkar's Attack, The Constitution of India,* and *Problems before the Indian Republic;* Tamil: *Pogyum, Meyyum, Polunala Samudayam Rajyam* and *Kannyin Kanaru. Address:* "Sri Vara," Rajaji Nagar, Pallavaram, Madras.

SARABHAI, Vikram Ambalal, M.A., Ph.D. (Cantab.), Physicist; Professor of Cosmic Ray Physics, Physical Research Laboratory, Ahmedabad. *b.* Aug. 12, 1919; *Educ.:* Gujarat Coll., Ahmedabad; St. John's Coll. Cambridge; took Ph.D. (Cantab.), 1946. Did research for five years on cosmic radiation under Sir C. V. Raman, N.L., at the Indian Institute of Science, Bangalore; subsequently did research on nuclear physics at the Cavendish Laboratory (1946); ever since his return to India after taking his doctorate from Cambridge, is engaged in further research on cosmic radiation at the Physical Research Laboratory, Ahmedabad; member; Scientists' Panel of the Planning Commission; Exec. Cttee. for the National Physical Laboratory; Cosmic Ray Research Cttee. of the Atomic Energy Commission; Central Advisory Council of Industries; Cotton Textile Fund Cttee.; Court of the Indian Institute of Science; Development Council for Pharmaceuticals & Drugs &c.; Chairman: Swastik Oil Mills Ltd., Bombay; Industrial Corporation Ltd.; Suhird Geigy Private Ltd.; has been actively connected with the management of Sarabhai Chemicals, Baroda; Director of the National Research Development Corporation of India. *Publications:* Several Publications in Physical Review, Nature, Physical Society of London, and Proceedings of the Indian Academy of Sciences. *Clubs:* Cricket Club of India Ltd., Bombay; Willingdon Sports Club, Bombay. *Address:* "Chidambaram", Ahmedabad 13.

SARAF, P. Shamlal, Minister for Health and Education, Jammu and Kashmir State. *b.* July 4, 1904; *Educ.:* Sri Pratap College, Srinagar. Joined business after studies; organised many concerns; was Hon. Secy., Chamber of Commerce for several years; took active part in Kashmir's political activities; joined National Conference and courted arrest many times. *Clubs:* Amar Singh Club, Srinagar. *Address:* Rainawari, Srinagar.

SARAIYA, Jayant Varjivandas, B.A. (Hons.), Cotton Merchant. *b.* November 15, 1915; *Educ.:* Elphinstone College, Bombay. After graduation joined Narandas Rajaram & Co. 1938; travelled in Kenya, Uganda, Tanganyika, Ceylon and extensively in India on business; started his own firm of India Cotton Supplies Private Ltd. in partnership with Messrs. Beharilal Ramcharan, Millowners & Bankers of Kanpur; became its Managing Director; visited Egypt and Europe for pushing the firm's business in cotton. *Recreations:* Sports and Motoring *Clubs:* C.C.I. Ltd., W.I.F.A. Ltd.; Orient Club; Lions Club (Hon. Secy. and Charter Member). *Address:* Swastik Court, 132, Queen's Road, Bandstand, Bombay 1.

SARAIYA, Ramanlal Gokaldas, B.A., B.Sc., Cotton Merchant and Vice-Chairman, Narandas Rajaram & Co., Pvt. Ltd., Bombay. *b.* Jan. 16, 1898; *Educ.:* Gujarat College, Ahmedabad; Wilson College, Bombay and Imperial College of Science and Technology, London; Matric (1914). B.A. (Hons.), 1919; Dakshina Fellow, Wilson College, 1919-20; B.Sc. (1920); took post-graduate course in Chemical Engineering in England and diploma of City and Guilds of London Institute in oils and fats and also in soap manufacturing; elected Fellow of the Chemical Society, London. After return to India joined Narandas Rajaram & Co., in 1922; became its partner in 1926 and Vice-Chairman since its conversion into a limited company in 1944; Chairman of the All-India Co-operative Planning Committee, 1944-45; member, Agricultural Finance Sub-Committee of the Govt. of India, and Co-operative Training Committee appointed by the Govt. of Bombay; member, Expert Cttee. on Futures Markets (Regulation) Bill, 1950; Vice-Pres., Indian Central Cotton Cttee., 1947-52: Pres.: All India Co-operative Union, 1952-55; Indian Merchants' Chamber, 1950; Federation of Indian Chambers of Commerce and Industry, 1953-54; Leader of the Indian Delegation to the International Cotton Advisory Cttee., 1948, 1949 and 1950, at Cairo, Brussels and Washington, respectively; Chairman, Bombay State Road Transport Corporation, Bombay State Co-operative Bank Ltd., Bombay Co-operative Banks' Association, Cotton Textile Fund Cttee.; Director: Hind Cycles Ltd., The United Salt Works and Industries Ltd., Shivrajpur Syndicate Ltd., Sutlej Cotton Mills Ltd., Bagalkot Cement Co. Ltd., Adoni Spg. and Wvg. Co., Ltd., Tata Chemicals Ltd., Narandas Rajaram & Co. (Africa) Ltd.; member: Cotton Advisory Board, Council of the Indian Institute of Bankers, Cttee. of the Indian Merchants' Chamber; Cttee. of the Federation of Indian Chambers of Commerce and Industry, Indian Central Cotton Cttee., Central Cttee. for Co-operative Training, National Co-operative Development and Warehousing Board, and Bombay Univ. Senate. *Clubs:* Orient, Willingdon, Cricket Club, Radio Club and Rotary Club, Bombay. *Address:* Vasant Vihar, 85, Nepean Sea Road, Bombay 6.

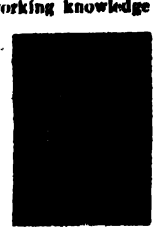


SARAN, Sankar, M.A. (Oxon), Barrister-at-Law, Chairman, Railway Tribunal. *b.* March 31, 1893; *Educ.:* Central Hindu College, Banaras, 1904-13; Univ. of Oxford, 1914-19; called to the Bar by the Hon'ble Society of Inner Temple, 1918, Govt. Pleader, High Court, Allahabad, 1921; Dy. Govt. Advocate, 1937; Govt. Advocate, 1944; Judge, Allahabad High Court, 1946-53; Acting Chief Justice twice, 1952; Chief Warden, A.R.P., during World War II; ex-Pres.: Annie Besant School, Allahabad; Madan Mohan Malaviya Coll., Allahabad; Pres., Iswar Saran (formerly Harijan) Ashram, Allahabad; Ex-Chief Commsr., U.P. Bharat Scouts and Guides; ex-member, Allahabad and Banaras Univ. Courts; Chairman, Court of Enquiry for investigation of Air India's Dakota crash, 1953; Adviser, Works Camp, Bharat Sevak Samaj and Adviser, Bharat Yuwak Samaj; member, Central Advisory Board for Harijan Welfare; Custodian General, Evacuee Property, 1953-57. *Publications:* Contributes to the press on current problems. *Recreations:* Scouting, Education, Social Service. *Address:* New Delhi.

SARANGAPANY, Srinivasa, B.E., Ex-General Manager, Eastern Railway. *b.* Aug. 4, 1903; *Educ.:* B.E. from Coll. of Engineering, Madras, 1925. Probationer in the Indian Railway Service of Engineers, June 1929; Manager, Block Signal Workshops, Howrah, 1935-41; Executive Engineer, Aug. 1941-May 1949; Divisional Supdt., 1949-Aug. 1953, after which posted to the Survey as Project Officer, Calcutta Electrification Survey, 1953-54; Engineer-in-Chief, Calcutta Electrification Project, 1954-55; visited Europe to study the post-war developments in railway electrification, 1954; sent on deputation to Japan to assess the capacity of the electrical rolling stock industry in that country, March 1955. *Address:* Fairlie Place, Eastern Railway, Calcutta 1.

SARAOGI, Pannalal, B.A., B.L., Business man. *b.* July 9, 1921, at Calcutta; *Educ.:* Graduated from Presidency Coll., Calcutta, 1939; took law degree from Law Coll., Calcutta, 1942. Took to business and associated himself with various public activities; elected Pres., Bharat Chamber of Commerce, 1952; unanimously re-elected, 1953; nominated member, West Bengal Leg. Council, 1952; renominated, 1954-60; member, Executive Cttee. of the Federation of Indian Chambers of Commerce and Industry; a Commissioner for the Port of Calcutta, representing Bharat Chamber of Commerce; Chairman, Bank of Bikaner Ltd.; Director of several important companies; Chairman, Finance Sub-Cttee., West Bengal Pradesh Congress, for the last 4 years; Secy., Congress Leg. Party, West Bengal for the last 3 years; is a member, Middle Temple, London; has been associated for a long time with a number of public bodies like Railway Advisory Cttee., Telephone Advisory Cttee., Indian Red Cross Society (West Bengal State Branch), etc.; has also served on different Boards and Cttees appointed by the Govt. of West Bengal and the Central Govt; has travelled extensively in America and Europe. *Clubs:* Calcutta Club, Hindusthan Club, Bengal Rowing Club and other clubs. *Address:* 56, Sir Hariram Goenka Street, Calcutta 7.

SARAWGI, Dharam Chand, Proprietor, Jokhiram Baijnath; Director, Steel Syndicate Ltd. and Hindusthan Lace Manufacturing Corporation Ltd. *b.* in 1905 at Ranchi in a philanthropic Jain family; *Educ.:* privately by guardian tutors; efficiency in English, Hindi & Bengali, besides working knowledge of Mahajani, Gujarati and Rajasthani. Made an extensive tour of Europe including Russia, 1929; First Indian Passenger to fly from London to Karachi by Air, had an air-trip round-the-world with his wife, in 1947; again went to the Sanitary Health Congress, Hastings (U.K.) as delegate of Calcutta Corporation and also visited several Nature Cure Centres in the Continent, 1953; got 'A' Class Pilot Licence, 1930; 2nd Marwari to get Pilot Licence; Secy., Marwari Relief Society (1936 & 1937—Rasayan Sala); again elected as Gen. Secretary, Marwari Relief Society (1945 to 1947); Secy., Marwari Traders' Association (1938); Vice-Pres.; Marwari Relief Society, 1947-50; Merchants' Cttee., 1949-50; Jain Sabha and Burrabazar Yubak Sabha; Pres.: Digambar Jain Navajuvak Samiti and Mahabir Pustakalaya, 1931-44; Calcutta Marwari Sammelan and Juganter Club, 1949-50; Kumar Sabha Pustakalaya (1949-51) and Merchants' Chamber of Commerce; Councillor, Calcutta Corpn. (uncontested) (1952-57); Pres., College Square Swimming Club; Gen. Secy., 15th World Vegetarian Congress, Calcutta session. *Publications:* *Seven months in Europe* (Europe Men Sat Mas), *Gharelu Prakritik Chikitsa, Nerog Rahne Ke Prakritik Upay*, besides numerous articles of literary value on varied and interesting subjects contributed to and published in Hindi periodicals of repute. *Recreations:* Motoring, Travelling, Flying, Swimming, Photography, Naturopathy. *Clubs:* Bengal Flying Club; College Square Swimming Club. *Address:* Jokhiram Baijnath, 81, Esplanade East, Calcutta; *Residence:* Jain House, 81, Esplanade East, Calcutta. *Tel. Address:* Naturecure.



SARKAR, Mr. Justice Amal Kumar, Barrister-at-Law, Judge, Supreme Court of India, since 4th March, 1957. *b.* June 29, 1901; *Educ.:* Scottish Churches and Pangatasi Colleges; Univ. Law College. Practised as an advocate in the High Court, at Calcutta. *Club:* Calcutta Club. *Address:* 55, Panbazar Street, Calcutta 3; New Delhi.

SASTRI, Ballapinni Nanjunda, M.Sc., A.R.I.C., A.I.I.Sc., F.I.A.Sc., Chief Editor, "Wealth of India", "Journal of Scientific and Industrial Research", "Research and Industry", "CSIR News", "Vignan Pragathi" and other publications of the Council of Scientific & Industrial Research, India *b.* Dec 5, 1905; *Educ.:* Central College, Bangalore; B.Sc. (Mysore Univ.). Merit Scholar (Chemistry); Post-graduate research in Biochemistry at the Indian Institute of Science, Bangalore. M.Sc. (Bombay Univ.); Research Biochemist, Tea Research Institute, Ceylon (1930-32); Lecturer in Biochemistry, Indian Institute of Science, Bangalore (1932-42); Lecturer, History of Science & Scientific Method, Delhi Univ. (1946-49); Member, Documentation Cttee., I.S.I., since 1948; Publisher, Current Science (1932-42). *Publications:* Over 40 research papers in enzyme chemistry, Plant Physiology and Plant Products. *Recreation:* Study of Sanskrit classics *Address:* Publications Directorate, Council of Scientific and Industrial Research, Old Mill Road, New Delhi 2.

SASTRI, K. A. Nilakanta, M.A. (Madras), Padma Bhushan (1957). *b.* Aug. 12, 1892; *Educ.:* Madras Christian Coll., Madras Univ. History Lecturer, Hindu Coll., Tinnevelly, 1913-18; Prof. of History, Benares Hindu Univ., Benares, 1918-20; Principal and Prof. of History and Economics, Sri Minakshi Coll., Chidambaram, 1920-28; Prof. of Indian History and Archaeology, Univ. of Madras, 1929-47; Pres.: Indian History Congress, Patna, 1946; All India Oriental Conference, Lucknow, 1951; Professor of Indology, Mysore Univ., 1952-56; member: Indian Historical Records Commission; Editorial Board, History of Freedom Movement in India; Director, Institute of Traditional Cultures (UNESCO) Madras 1957. *Publications:* *The Pandyan Kingdom; Studies in Chola History and Admn.; The Cholas* (Vol. I, 1935, Vol. II, 1937, Revised second edition in one volume 1955); *History of Sri Vijaya; Historical Method in Relation to Problems of South Indian History; The Tamil Kingdoms of South India; Further Sources of Vijayanagar History; Foreign Notices of South India; South Indian Influences in the Far East; Concept of a Secular State; History of India; Age of the Nandas and Mauryas, etc.; History*

of South India; also contributed about 150 articles to various learned periodicals. *Address:* 'Nilesvar', Edward Elliot's Road, Mylapore, Madras 4.

SASTRI, M. Patanjali, B.A., B.L. (Madras Univ.), Ex-Chief Justice of India; member, Board of Directors, P. T. I. *b.* Jan. 4, 1889; *Educ.:* Pachaiyappa's College and Law College, Madras; practised as Advocate in the High Court at Madras; elevated to the Bench, 15th March 1939; Judge, Federal Court, Dec. 6, 1947; Judge, Supreme Court, Jan. 26, 1950-51; Chief Justice of India, 1951-53; Pro-Chancellor of Univ. of Delhi, 1953-56. *Address:* "Krishna Vihar," Luz, Madras 4.

SASTRI, Mahopadhyaya Malladi Suryanarayana, Telugu Writer; Retd. Lecturer, Andhra Univ., Waltair. *b.* Feb. 20, 1880. *Educ.:* Cherla Brahmayya Sastri's Sanskrit Kalasala, Dowlaishwaram. Senior Pandit, High School, Amalapuram, 1900-14; Editor, *Andhra Sahitya Parishat*, Madras, 1914-15; Senior Pandit, Govt. Trg Coll., Rajahmundry, 1915-16; Senior Pandit, Govt. Coll., Anantapur, 1916-19; Lecturer, Govt. Arts Coll., Rajahmundry, 1919-31; Lecturer, Andhra Univ., Waltair, 1931-41. *Publications:* History of Sanskrit Literature in Vedic and Loukik Periods in Telugu (Andhra Univ.); Historical Telugu Grammar named ANDHRA BHASHANU SASANUM, Lives of Sanskrit Poets (Osmania Univ); Works of Bhasa and Bhavabhooti translated into simple Telugu prose; *Tales from Bhava Bhooti; Malati Madhram; Bhaveshyat Parcam;* Sixty literary essays. *Address:* Dowlaishwaram, East Godavari, Andhra Pradesh.

SASTRI, Swami Siva Sankara, Sahityacharya, (1935), Kavindra (1938), Pallavajjhala Mahopadhyaya (Aug 17, 1950), Telugu Poet, Writer. *b* Sept 12, 1892; *Educ.*, A C Coll, Guntur (Andhra). Teacher, social worker, political worker, orator, author, editor, anthologist linguist and philosopher. *Publications:* Three Vols. of Original Poetry in Telugu; Translation from Sanskrit of Kathasarit Sagara (6 Vols), *Jataka Tales from Pali* (7 Vols). *Recreations.* Painting, Gardening, Book-Binding *Address.* Sahit Samiti, Tirthasramam, Ongole (Andhra Pradesh).

SASTRI, Yajnasvami Mahalinga, B.A. (History), M.A. (Sanskrit), B.L., Kavi Sarvabhauma (1957), Kavi Sekhara (1957), Sanskrit Writer. *b* July 31, 1897; *Educ.*, Findlay Coll., Mannargudi; Presidency Coll. and Law Coll., Madras; M.A. privately Lawyer, 1920-34; College Lecturer in Sanskrit, Madura Coll and Annamalai Univ., 1934-41, Principal, Oriental Coll., Dharmapuram, 1946-53; Pres., Amara Bharati Sabha (A local Sanskrit literary assoc.), Kavi Sarvabhauma and Kavi Sakhara were conferred upon him by His Holiness Sri Kanchi Kamakote Peethadhipati and the Mylapore Sanskrita Academy on 31-8-57 and 16-9-57 respectively. *Publications:* Sanskrit (Prose, Poetry and Drama). *Bhasakatha Sara; Kinkini Mala; Kaundinya Prahasanam; Dravidarya Subhasitamptali, Vyajokti Ratnavali* (with English translation), *Desikendra Stavanjali; Bhramara Sandesa, Vana Lata; Kali Pradurbhava Natalu, Srngara Naradiyam* (Prahasanam); *Pratiraja Sugam,* Natakam, a set of Sanskrit Readers, etc.; Tamil Novel: *Namonru Ninaikka; Mappillai Thozhan;* short stories; *Mappillai Album,* (in press). *Recreations.* Literary pursuits; Music; Astrology. *Address:* 161-E, Pattamangala Street, Mayuram, Sahitya Candra Sala, Tiruvalangadu, *Via* Narasingampet, Tanjore Dist., Madras State.

SATHIANATHAIER, R., M.A., L.T., D.F., Professor of History and Politics, Annamalai University. *b.* Feb. 9, 1896. *Educ.*, St. Joseph's Coll., Trichinopoly; Teacher's Coll., Saidapet, Madras. Member; Indian Historical Records Comm. and Regional Records Survey Cttee., Madras State; Faculty, Senate and Academic Council, Annamalai Univ.; Chairman, Board of Studies in History and Politics, Annamalai Univ.; Member, Board of Studies, Mysore Univ.; Dean, Faculty of Arts, Annamalai Univ., 1947-53; Sir William Meyer Lecturer, Univ. of Madras, 1954-55. *Publications: History of the Nayaks of Madura; Studies in the Ancient History of Tondamandalam; A Political and Cultural History of India,* 3 Vols.; *South Indian History, A.D.* 300-1300 (contributed to Vols. III, IV and V of B.V.B.'s History and Culture of the Indian People); *Tamilaham in the 17th Century* (Meyer Lectures). *Address:* 10, Professors' Quarters, Annamalai University, Annamalainagar P.O. (S. Arcot Dist., Madras State).

SATWALEKAR, Madhav, G.D. Arts, Artist. *b.* Aug. 13, 1916. *Educ.:* Completed Painting course in Sir J. J. School of Arts, Bombay; took G. D. Arts, 1935; later studied in Italy at Florence and at the Slade School, London. Since his return to India has had several exhibitions in Bombay and Delhi; spent a year in East Africa painting that country, 1949; has painted portraits of the Pres. and Vice-Pres of India and others. *Recreations:* Music, Books. *Address:* "Hasman", 89, Warden Road, Bombay 26.

SAXENA, Gopal Narain, Socialist Party leader. *b.* Dec. 1897, at Lucknow; *Educ.:* Allahabad Univ, gave up M.A. & LL.B. (Final) courses to participate in non-co-operation movement, 1921. Entered politics, giving up studies during 1921 non-co-operation movement; participated in all struggles for freedom; has been to jail 10 times during independence movement and under Congress rule, member, A I C C for 19 years and elected to U.P. Congress Council several times; General Secy., U P C C. for some time; elected to U P Assembly, 1946; member, constituent Assembly; member, fundamental rights sub-committee of Indian Constituent Assembly; one of the prominent founders of K M P P.; later joined P S P. when the S P and K M P P. were merged, broke away from the P S P. to form S P., 1955-56, Chairman, Parliamentary Board, Socialist Party 1956; Chairman, Socialist Party, 1957. *Address:* B. N. Verma Road, Lucknow.

SAXENA, Prem Narayan, B.Sc. (Allahabad), C.E. (Hons.) (Roorkee), Development Commissioner, Kandla Port, since Sept. 24, 1955; *b.* Jan. 29, 1901, *Educ.*, Allahabad Univ. and Thomason Coll. of Engineering, Roorkee. Appointed to the Indian Railway Service of Engineers on East Indian Rly., Oct. 1925; worked for a few years on projects and construction works; stood first in the Dehra Dun Staff Coll. Refresher Course, 1931; Supdt., Way and Works, 1938-41; Divisional Personnel Officer, Oct. 1941-April 1945; promoted as Dy. Chief Engineer, Nov. 1945; later Dy. General Manager (Grainshops) 1946 to Mar. 1947; Dy. General Manager (Personnel), March 1947-Jan 1948; Divisional Supdt., Howrah and Moradabad, Jan. 1948-July 1949; appointed Director, Establishment, Railway Board, 1949-54; was member, Joint Advisory Cttee. for two years and on the Gadgil Cttee. for dearness allowance merger, 1952; General Manager, Western Rly., Oct. 6, 1954-Sept. 1955; Administrative Officer, Visakhapatnam Port. *Address:* Gandhidham, Kutch.

SAYEED, Mr. Justice Basheer Ahmed, M.A., B.L., Puisne Judge, High Court of Judicature, Madras, since July 1949. *b.* Feb. 20, 1900 at Madras; *Educ.:* Madras Christian Coll. and the Madras Law Coll. A practising lawyer from 1925; Publicist from 1921; was Secy., Tamil Nad Provincial Congress Cttee. and the Madras Dist. Congress Cttee.; member, Madras Legislature, 1926-46; Madras Corporation for 5 terms, representing the National Congress Party; member: Madras Law Coll. Council since 1939; Syndicate and other authorities of the Madras Univ., 1933-52; also of Annamalai Univ. for over 20 years; was member, Madras Bar Council for 2 terms; has been on the Court of the Aligarh Univ. for 3 terms; was Chairman, Southern India Education Trust, Madras, founded the New College for Boys, 1951 and the S.I.E.T. Women's College, 1955; forceful speaker and debater in English, Tamil and Urdu. *Address:* "Sadhr Gardens", Alwarpet, Madras 18.

SEN, Asoke Kumar, Minister for Law, Government of India, since April 1957. *b.* Oct 10, 1913. Joined the revolutionary movement in Bengal at the early age of fourteen; is an active member even now of Satirtha Sangha, was under police surveillance, 1931-35; passed M.A. with 1st class in Economics, 1935; passed M.Sc. in Economics from London School of Economics, 1939; was called to the Bar from Grays Inn, 1941; while in England, joined the India League; participated in the campaign for Indian independence; called to the Bar from Gray's Inn, Jan. 1941. Enrolled as Advocate, Calcutta High Court, 1941; in nine years, became one of the leaders of the bar, simultaneously in commercial, constitutional and criminal matters and tax cases; appointed Junior Standing Counsel to the Govt. of West Bengal, 1950, resigned, 1956; one of India's delegates to the 10th Assembly of the U.N., 1955, has been Editor, *Calcutta Law Journal;* elected M.P. from Calcutta North West constituency as a Congress candidate, 1957; is the only Congress M.P. from Calcutta, has started Samaj Seva Samities all over Calcutta and West Bengal; is keenly interested in helping the solution of the unemployment problem and refugee problem of West Bengal. *Address:* New Delhi.



SEN, Binay Ranjan, Director-General, F.A.O. of U.N., since Nov. 1956. *b* Jan. 1, 1898; *Educ* Calcutta and Oxford Univs. Dist. Magistrate, Midnapore, 1937-40; Revenue Secy. to Govt. of Bengal, 1940-43; Director of Civil Evacuation, Bengal, 1942-43; Relief Commr., 1942-43; Director-General, Food, Govt. of India, 1943-46; Secy. to the Govt. of India, Dept. of Food, 1946; Minister to the Embassy of India in the U.S.A., 1947-50; Indian Ambassador to Italy and Yugoslavia, 1950-51 and 1953-54; Indian Ambassador to the U.S.A., 1951-52; Member, Indian Delegation to the General Assembly of U.N., 1947; Agriculture Secy. to the Govt. of India, 1948; Head of Jt. Mission of F.A.O. and E.C.A.F.E. in the Far East to study agricultural development plans; Head of the Indian Delegation to: E.C.O.S.O.C. (Economic and Social Council of the U.N.), 1949 and 1953; Annual Conference of the F.A.O., 1949 and F.A.O. Council, 1950, '51, '53; Indian Ambassador to Japan 1955-56. *Clubs:* Delhi Gymkhana; Calcutta. *Address:* Rome.

SEN, Bireswar, B.A. (Hons.), M.A. (Calcutta), Director, Central Design Centre, Lucknow. *b.* Nov. 15, 1897. *Educ.:* Hare School and Presidency Coll., Calcutta; Art Education under Dr. Abanindranath Tagore. Professor, B. N. Coll., Patna, 1923-26; Headmaster, Govt. Coll. of Arts & Crafts, Lucknow, 1926-45; Superintending Craftsman, Govt. Coll. of Arts and Crafts, Lucknow, 1945-52; Officer in Charge, Design Research Section, 1954-57; *Publications: Abc of Pattern Designs; Himalayas,* etc.; Paintings in permanent collections in U.K., Russia, U.S.A., Java, Japan and other countries. *Recreations:* Reading, Photography. *Clubs:* U.P. Artists' Assoc.; U.P. Amateur Photographers' Assoc. *Address:* 3036, Nazarbagh, Lucknow.

SEN, Kshitish Chandra, B.A. (Calcutta), 1909, B.A. (Cambridge), 1912. President, Bombay Sales-Tax Tribunal, since 1953. *b.* 1888; *Educ.:* Presidency Coll., Calcutta, and Trinity Hall, Cambridge. Joined I.C.S., 1913;

Assistant Collector, Nasik and Dharwar districts 1913-20, Assistant Judge, Dharwar, Sholapur, Khandesh and Thana districts, 1920-23, Assistant Remembrancer of Legal Affairs and Secretary to Legislative Council 1923-24, Deputy Secretary, Legal Department 1924-25, District and Sessions Judge, Thana and Kanara districts, 1923 and 1925-28, Registrar of High Court, Appellate Side, 1928-31 District and Sessions Judge, Hyderabad (Sind) 1931-34, Remembrancer of Legal Affairs 1935-37, officiated as Judge, High Court of Bombay in 1934, 1936 and June 1937 to February 1939, Additional Judge, High Court of Bombay, March 1939 to 1941 when confirmed as a permanent Judge, retired from High Court, October 1948, Presi Industrial Court, Bombay 1948-51, Bombay Co-operative Tribunal, 1951-54, Bombay Revenue Tribunal 1955-56 *Address* Mafatlal Park, Bhulabhai Desai Road, Bombay

SEN, Dr. Kshitish Chandra, D.Sc., Fellow of the National Institute of Sciences of India, President Indian Dairy Science Association, Ex Director of Dairy Research, Govt. of India *b.* January 31, 1899; *Educ.:* Bangabasi College, Calcutta; Muir Central College, Allahabad; Biochemical Laboratory, Cambridge; Rowett Research Institute, Aberdeen. Demonstrator, Chemistry Department, Allahabad Univ., 1924-29; Biochemist, Indian Veterinary Research Institute, Mukteswar-Kumaon, 1929-36; Officer-in-charge, Animal Nutrition Section, Indian Veterinary Research Institute, Izatnagar, 1936-44; Director, Indian Dairy Research Institute, Bangalore since 1944. *Publications:* Over 100 original papers in colloid chemistry, general biochemistry, animal nutrition and dairy science; Author of a monograph on *Animal Nutrition Research in India;* Chief Editor, Indian Journal of Dairy Science *Club* Bangalore Club *Address* C/o National Dairy Research Institute, Karnal, Punjab

SEN, Major-General Lionel Protip, Distinguished Service Order (1944) Mentioned in despatches Kashmir (1948) Master General of the Ordnance (Army Headquarters) since March 19, 1957 *b* Oct 20 1910 *Educ* Rangoon, Royal Military Coll, Sandhurst England Commissioned Jan 1931, served one year with the 1st Bn Cheshire Regt, posted to 5th Bn The Baluch Regt and saw active service in the Mohmand Operations 1933 and 1935 and the N W F P Operations 1938, qualified at Staff Coll Quetta, 1942 during World War II saw service in the Middle East 1942-43, promoted Lt Col and commanded 16th Bn The Baluch Regt in the Arakan Operations 1944-45 and in Malaya 1945-46, appointed Secy, National Cadet Corps Ctte, under Pandit Kunzru 1946; promoted Col and posted to Army Hq, 1947, promoted Brigadier, Oct 1947; commanded 161 Infantry Brigade which flew into Srinagar and inflicted a crushing defeat on the Pakistan raiders, commanded Bihar Sub Area, 1948 and 181 Indep Infantry Brigade, 1949, attended the Imperial Defence Coll London, 1950 Military Attache to the Indian Embassy in Japan and Liaison Officer with the U N Forces in Korea, 1951; commanded 4th Infantry Division, 1954, Director of Military Training at Army Hq, 1955-57. *Recreations* Hockey, Golf, Football, Racing *Clubs* Delhi Gymkhana Club, National Sports Club of India, Delhi Golf Club *Address* C/o Grindlay's Bank Ltd, New Delhi

SEN, Dr. Sachin, M.A., B.L., Ph.D., Editor, *The Indian Nation* (daily), Patna and President, All-India Newspaper Editors Conference, 1956 *b* Nov 1902; *Educ:* Dacca and Calcutta Some time Asstt. Secy, British Indian Assoc, Calcutta, and Lecturer, Vidyasagar Coll, Commerce Deptt; acted as Secy to Sir P. C. Mitter during the 2nd Round Table Conference in London, 1931. *Publications The Political Thought of Tagore; An Introduction to Science of Economics; Studies in the Land Economics of Bengal; The Birth of Pakistan, The Press and Democracy,* etc. *Address: The Indian Nation* Office, Patna.

SEN, Salil Chandra, B.Sc. (Engg.) (Hons.) (Glasgow), Principal, Delhi Polytechnic, since 1949 *b* April 12, 1909; *Educ* , Presidency Coll, Calcutta, B.Sc (Engg) (Hons) from Glasgow Univ, 1932 Asstt Engr, Calico Mills, Ahmedabad, 1935-39; Chief Engineer, Dhakeshwari Cotton Mills, Narayanganj, Dist Dacca, 1939-41; Vice-Principal, Delhi Polytechnic, Delhi, 1939-49 *Address* Principal, Delhi Polytechnic, Delhi.

SEN, Dr. Samar Ranjan, M.A. (1st Class 1st), (Dacca), Ph.D. (Dacca), Ph.D. (London), Economic and Statistical Adviser, Ministry of Food and Agriculture, Govt. of India, New Delhi *b* July 2, 1916; *Educ* Calcutta Univ, 1935-37, Dacca Univ, 1937-39, London Univ, 1945-47 Took part in C D Movement, 1932 & 1942, won 1st prize for Asia in World Essay Competition, 1937, Lecturer, Dacca Univ, Dacca, 1940-45, Dir, Indo-Europe Trading Co Ltd, London, 1946-48, Secy, Indian Delegation to International Rice Commission, Bangkok, March 1949, Adviser, Indian Delegation to Indo Pakistan Trade Negotiations (Karachi), June 1949, Member Research Programmes Ctte and Panel of Economists Planning Commission, Standing Advisory Ctte of the Reserve Bank of India on Agricultural Credit, Agricultural Prices Enquiry Ctte, 1954 Dy Chairman, Minimum Wages Advisory Board Ministry of Labour, Indian Delegate to the International Conference on Agriculture and Co-operative Credit held at Berkeley, U S A, Aug.-Sept 1952 attended the World Population Conference in Rome Sept 1954 as a special invitee of the U N O Leader, Indian Agricultural Delegation to the U S S R and Poland, Sept Oct 1954 Member Secy, Indian Delegation to China on Agricultural Planning, 1956, Chairman, Ctte on Commodity Problems and Technical Ctte on Economics F A O, 1956, Member Secy, Foodgrains Inquiry Ctte, 1957, Chairman Jute Inquiry Ctte, 1957 *Publications Economics of Restrictionism Economics of Sir James Steuart, Employment and Money International Commodity Agreements The Problem of Population and Agricultural Productivity in India,* etc *Club* National Sports Club of India, New Delhi *Address* 20, Lodi Road, New Delhi 3

SEN, Sukumar, B.A. (Calcutta), "Padma Bhushan" (1954), has been Chief Election Commissioner, Govt of India *b* Jan 2 1898; *Educ* Presidency College, Calcutta and Univ College, London Passed I C S, 1921, joined Service, 1922; S D O, Chuadanga (Nadia) and Serajgunj (Pabna), 1924-27, District & Sessions Judge, 1928-47, Chief Secy, West Bengal, Aug 1947-March 1950, organised and conducted the first general elections in India on universal adult suffrage in 1951-52; Chairman of the International Electoral Commission for the Sudan, March-December, 1953. Rejoined as Chief Election Commissioner of India, Dec 1953 Also organised and conducted the second General Elections in India in 1957 *Recreations.* Tennis and photography *Clubs.* Calcutta Club, and Delhi Gymkhana Club. *Address.* C/o 6, York Place, New Delhi.

SEN, Triguna, A.M.M.E (B.Tech.), Dr Ing. (Munich), M I E (Ind.), Rector, Jadavpur University, since 1956 & Mayor, Calcutta. *b* Dec. 24, 1906; *Educ.:* Calcutta and Germany. Teacher, 1927-28; Deutsche-Akademie Scholar, 1929-32; in jail, then externed from Bengal, 1932-39; Engineer & Manager in different firms, 1940-43; Principal, Jadavpur Engg Coll., 1944-55; member: Senate, Calcutta Univ. & Roorkee Univ.; Durgapur Industries Board, Calcutta Improvement Trust; Director, State Bank of India etc. *Address:* P. O. Jadavpur University, Calcutta 32.

SEN, Sir Usha Nath, Kt. (1944), C.B.E. (1931); Adviser, Press Trust of India, New Delhi. *b.* 9th October, 1888; *Educ.:* Ripon College, Calcutta. *Address:* The Western Court, New Delhi.

SENGUPTA, Monoranjan, B.Sc. (Cal.), B.Sc. (Eng.) (Hons.) Glas., C.P.E. (Glas.), M.I.E.E. (Lond.), M.I. Mech. E. (Lond.), M.I.E. (Ind.), F.I.P.S. (Ind.), M. Brit. I.R.E. (Lond.), F.R.S.A. (Lond), F.N.I. (Ind.), Professor and Head of the Dept. of Electrical Engineering and Principal of the Engineering College and Provost, Benares Hindu Univ. *b.* June 28, 1903, at Rangpur, Bengal; *Educ.:* Rangpur Zilla School, Bengal, Ananda Mohan College, Mymensingh; Rajshahi College, Bengal; Glasgow University Prof. & Head of the Dept. of Electrical Engineering, Bengal Engineering College, for over ten years; Principal, Industrial Training Centre, Ministry of Labour, Govt. of India since September 1944; Member, Development Board, Post-war Reconstruction Scheme Govt. of Bihar; Development Board, Roorkee Univ.; Council of Scientific and Industrial Research, Standards Institution, member of various bodies in different India Univs, member, Education Panel of the Planning Commission, New Delhi Member on the Educational Sub Committee of the Indian National Council for U N E S C O Secretary, North Zone, A P T I *Publications:* Several scientific papers read and published, *Statistics for Engineering Production in India,* indicating uses of raw materials available in the country, *Utilisation of Photo Electric Tubes in Industry, Modern Irrigation System, Training of Post-graduate Engineers, Design and Performance of High gain Amplifier, Comparison of British Grid System with other existing Transmission Systems in the World,* Presidential Address delivered at the Annual Conference of the Indian Science Congress at Allahabad as Pres of its Engineering and Metallurgy Section, 1949 *Address* Banaras

SEN GUPTA, Dr. Sudhir Ranjan, B Sc Ph D M I E (Ind), Director, Indian Institute of Technology, Kharagpur, West Bengal Feb 27, 1907, *Educ* India and Engl Lecturer and later Professor Bir Engineering Coll Howrah Dy Educatl Adviser (Technical) to Govt of India Min of Education, New Delhi, Principal B Engineering Coll, Howrah *Publicatns* Research papers in Acrodynamics & Aj Elasticity in Reports and Memoirs of A nautical Research council in journals of Ir and professional Societies Report on t Research & Development of Gas Turbine C College Tech Bull No 9, W B Govt Pr *Recreations* Reading, tennis, photography *Clubs* Railway Officers' Club, Kharagpur Technology Club, Kharagpur *Address* Indian Institute of Technology, Kharagpur, We Bengal.

SETALVAD, Motilal Chimanlal, B A LL B, Padma Vibhushan (26 January 1954) Attorney-General of India, since 1950 and Chairman, Law Commission *b* Nov 12 1884 *Educ* Elphinstone Coll, Bombay Enrolled as Advocate, Bombay High Court 1917 Advocate-General, Bombay 1937-42, member, Indian Delegation to the U N General Assembly, 1947 and 1948, Kashmir Delegation to Security Council, 1948, Leader of the Del gation to U.N. General Assembly, 1949 Acting Advocate-General, 1949, Vice-Pres Indian Branch of the International Law Assoc.; represented India at the Commonwealth Jubilee Legal Convention at Sydney 1951; Principal Representative of India in the Kashmir question at the Security Counc 1952; Leader of the Delegation to the Int national Legal Conference in New Delhi, 19 Chairman, Law Commission, 1955. Leader the Delegation to the first session of the As Legal Consultative Ctte, 1957; present India's case before the World Court at Th Hague re. dispute with Portugal on the rig of passage through Indian territory claim by that country. *Publication: Civil Liberty in India. Club:* Willingdon Sports Club *Address:* 1, Race Course Road, New Delhi.

SETHI, R. K. L., B.A. (Hons.), C.E., M.I.E., I.R.S.E., General Manager and Chief Engineer, Ganga Bridge Project, Indian Railways, since Oct. 1954. *b.* Oct. 21, 1900; *Educ.*: Govt. Coll., Lahore; Thomason Coll. of Civil Engineering, Roorkee. Asstt. Executive Engineer, N.W. Rly., 1925-39; Executive Engineer, 1939-46; Dy. Chief Engineer, 1946-48; Divisional Supdt., 1948-50; Director, Civil Engineering, Railway Board, Aug. 1950—Oct. 1954. *Address*: General Manager, Ganga Bridge Project, P.O. Hathidah (Bihar).

SETHI, Seth Lalchand Balchand, Rai Bahadur' Vanijya Bhushan, Jain Ratna, Tajir-ul-Mulk, Banker and Millowner. *b.* 1893. Head of the firm of Seth Binodiram Balchand, Bankers; Director-In-charge and President, Board of Directors, the Binod Mills Co. Ltd., Ujjain (including Deepchand Mills, Binod Silk and Art Silk Mills); Narendra Chemical Works; Bhupendra Iron and Metal Works & other concerns; President, Managing Board, Model High School, Ujjain; Chairman: The Municipal Board, Ujjain, 1935-1947; Vikram Education Public Trust, Yuvraj General Library; Vice-President, The Hindi Literary Society of Central India, Indore; The Digamber Jain Sabha, Malwa; General Secretary, The Rajputana Hindi Sahitya Sabha, Jhalrapatan City; Director, The Hukumchand Mills Ltd.; The Central India Insurance Co. Ltd., Indore; The Vulcan Insurance Co. Ltd., Bombay; New Manekchowk Spinning & Weaving Mills Ltd., Ahmedabad; The Madhya Pradesh Financial Corpn.; The C. I. Machinery Manufacturing Corporation, Birlanagar, Gwalior; Krishnaram Baldeo Pank (Private) Ltd., Gwalior, Hony. Treasurer, Vikram Univ., Ujjain, is a regular contributor to charitable institutions. *Recreation*, Reading. *Clubs*: The Cricket Club of India, The Willingdon Sports Club, The Radio Club, Bombay; Jiwaji Club Gwalior; Shri Yeshwant Club, Indore, Shri Madhav Club, Ujjain. *Address*: Binod Bhawan Ujjain (M.P.) Telegraphic Address: *Sethi*



SETHNA, Kekoo Dhunjhiboy, Parsi Poet, Critic, Thinker, Writer in English; Editor, *Mother India*, Monthly Review of Culture. *b.* Nov 25, 1904; *Educ.* St Xavier's School and Coll., Bombay; passed B.A. (Philosophy Hons.), 1926. Free lance Journalist; Author; member, Sri Aurobindo Ashram (Pondicherry); Lecturer in English Poetry, Sri Aurobindo International Univ. Centre (Pondicherry). *Publications*: *The Secret Splendour* (Poems); *The Poetic Genius of Sri Aurobindo*; *Evolving India*; *The Adventure of the Apocalypse* (Poems); *Mysticism and Einstein's Relativity Physics*; *The Indian Spirit* and *the World's Future*. *Recreations*: Reading; Cycling. *Address*: 13, Rue Ananda Rangapoulle, Pondicherry.

SETHNA, Dr. Minocher Jehangirji, Ph.D. (Bom.), Philosopher, Jurist, Writer, Professor and Counsel; Founder and Pres., Indian School of Synthetic Jurisprudence. *b.* Nov. 1, 1911; *Educ.*: Master's Tutorial High School, Wilson Coll., The Bombay Univ. and at Middle Temple, London. Is a Professor at Govt. Law Coll., Bombay, a keen writer and a scholar who has dedicated his life to writing and to philosophical and legal research; founded the Indian School of Synthetic Jurisprudence, the first of its kind in India, July 21, 1955. *Publications*: *Society and the Criminal*; *A Standard Text Book on Jurisprudence*; *A Standard Text Book on Indian Company Law*; *A Standard Text Book on Indian Mercantile Law*; *Civil Wrongs and Their Legal Remedies*; and some philosophical writings. *Address*: Sethna House, 311, Tardeo Road, Bombay.



SETT, Adi K., Life Fellow of the Royal Geographical Society, Life Fellow of the Royal Society of Arts, Member of the Royal Society of Literature, Poet and short story writer. *b.* Oct. 4, 1904; *Educ.*: Cathedral High School and the Imperial High School, Bombay; was later with Mr. G. H. Gladstone in London. Began writing at the age of sixteen. *Publications*: *A Trip to Odaeamund*; *Chameleons, Short Stories*; *Shah Jahan*: *A Monograph*; *The Light Above the Clouds* (Poems); *Rain in my Heart* (Poems). *Clubs*: The All India P.E.N. Centre; Asiatic Society of Bombay; The Bombay Art Society; The English Association (U.P. Branch); The Cricket Club of India; The Amateur Cine Society; The Bombay Presidency Kennel Club; The Royal Western India Turf Club. *Address*: Dilkoosha, 5, Altamount Road, Cumballa Hill, Bombay 26.

SHAH, Ambalal Narottamdas, B.A. (Bom.), B.A., LL.B. (Cantab.), Bar-at-Law, Chief Administrative Officer, New India Assurance Co. Ltd., since Jan. 2, 1957. *b.* September 29, 1896; *Educ.*: Baroda College; Elphinstone College, Bombay; Queen's College, Cambridge; passed I.C.S. Examination in 1920 and returned to India in 1921. Assistant Commissioner, Madhya Pradesh, Under-Secy. to Govt., Madhya Pradesh; Deputy Commissioner; Town Settlement Officer; Registrar of Co-operative Societies and Director of Industries; District and Sessions Judge, Nagpur; Legal Remembrancer and Secy. to Govt., Madhya Pradesh; Legal Adviser to the Military Governor, Hyderabad (Deccan); Pres., Income-tax Appellate Tribunal, Bombay, retired from I.C.S. in Dec 1956. *Recreations*: Club games. *Clubs*: Gondwana Club, Nagpur; Willingdon Sports Club, Bombay. *Address*: B-9, Mafatlal Park, Warden Road, Bombay 26.

SHAH, Amritlal Popatlal, B.A. (Hons.), Advocate, Bombay High Court; Dewan, former Lunawada State (Gujarat). *b.* June 11, 1906; *Educ.*: Dhandhuka High School, Dhandhuka; Bahauddin College, Junagadh. Brilliant career both at the High School and College. A good speaker and debater. Won several elocution prizes at the College. Joined Lunawada State Service in 1929 under British administration. Worked on several responsible executive and judicial posts such as Revenue Officer, Huzur Secretary, Addl. High Court Judge and member of the Executive Council. His services were taken on loan by the Palasinor State in 1935 where he won the love and esteem of people there and reverted to Lunawada State service again; satisfied all concerned including the Ruler and the ruled and appointed Dewan in 1944; liberalised the administration during his regime and several representative institutions including the Legislative Assembly were brought into being; conducted the administration efficiently during the Ruler's absence on the Italian Front; retired on the dissolution of the Executive Council by the Lunawada Govt. on the eve of constitutional and political changes; awarded the grant of "Double Tasim" in recognition of his long service to the Ruler and subjects of Lunawada; had studied and expanded the industries in the State; works as the Secretary, Saurashtra Millowners' Association; has been responsible for solving some of the difficult problems of the textile mills in Saurashtra; has reorganised the office on modern lines and his work has been greatly appreciated by all concerned. *Address*: Shiv Kunj, Jorawarnagar, (Saurashtra).



SHAH, Mr. Justice Jayantilal Chhotalal, LL.B., Judge, High Court, Bombay. *b.* Jan. 22, 1906; *Educ.*: R. C. High School, Ahmedabad; Gujarat Coll., and Elphinstone Coll., Bombay, Practised at Ahmedabad District Court and at Bombay High Court. Advocate (O.S.). *Clubs*: Willingdon Sports Club. *Address*: Flat No. 2, Shangri-La, Carmichael Road, Bombay No. 26.

SHAH, Kantilal P., M.L.A., Bombay, leading business man and a social and educational worker in Halar. *b.* 1907; *Educ.*: Bhavnagar upto Inter Arts. Began business career at Bombay as Shipping Agent, 1927; expanded shipping activities at Jamnagar since 1938; Pres., Chamber of Commerce, Jamnagar; member: A.I.C.C., Central Export Advisory Council New Delhi; the Zonal Advisory Board of Life Insurance Corporation of India Western Zone; Bombay Regional P. & T. Advisory Cttee., Halar Dist. Development and Education Board; Regional Transport Authority; Director, Saurashtra Small Industries Co-operative Bank Ltd.; Chairman, Aliabada Vidya Mandal, which runs an Arts Coll. and five other educational institutions; Secy.: Jamnagar Vidyottejak Mandal which runs the D.C.C. Multi-purpose High School and Bal Mandir; Trust Board of Women's Rescue Home; Pres., Jamnagar P. & T. Workers' Union, Balkanji-Bari; was Pres., Jamnagar Borough Municipality for 1955-57; was Director, State Bank of Saurashtra and member, Saurashtra Govt Central Stores Purchase Organisation; elected M.L.A., Bombay unopposed from the Jodiya-Dhrol Constituency in the General Elections, 1957. *Address*, Station Road, Jamnagar.



SHAH, Kastoor Mal, Business Magnate, Jaipur. Vice-President, Rajasthan Chamber of Commerce and Industry, Jaipur; Director: Jaipur Mineral Development Syndicate Private Ltd., Jaipur; Udaipur Mineral Development Syndicate Private Ltd., Jaipur; The Associated Soapstone Distributing Co. Private Ltd., Jaipur; Shah Engineerings Private Ltd., Jaipur. Partner, Shah & Co., Jaipur, is an active sportsman and a good speaker; extensively travelled in Europe and East Asia. *Address*: Shah Building, Chaura Rasta, Jaipur, Rajasthan.



SHAH, Manubhai Mansukhlal, B.Sc. (Hons.), B.Sc. (Tech.), Minister for Industry, Government of India, since May, 1957. *b.* Nov. 1, 1915; *Educ.*: Baroda Coll., Baroda; Institute of Science, Bombay. Served in high technical and administrative posts in the Delhi Cloth & General Mills Co. for over 12 years. Minister for Finance, Govt. of Saurashtra; Minister for Industrial Development, Govt. of India, 30th April 1956-14th June 1956; Minister for Heavy Industries, June 1956-May 1957. *Address*: 12, Tughlak Road, New Delhi.

SHAH, Mohanlal L., Prominent business man and industrialist of Calcutta. *b.* August 1894. Partner in the firm of Managing Agents, for The Mohini Mills, Ltd. Nos. 1 and 2 and Chimanlal Vadilal & Co.; Ex-President, Indian Chamber of Commerce and Bengal Millowners' Assen., Calcutta; Director of several banking, jute, tea and insurance institutions in Calcutta; Ex-Pres., All-India Organisation of Industrial Employers; Member: Cttee. of the Federation of Indian Chambers of Commerce and Industry; Indian Companies Law Amendment Cttee.; Cotton Advisory Board; Commissioner for the Port of Calcutta; Assessor to the



Industry and Trade Panels of the Railway Rates Tribunal, etc.; Pres., All India Textile Assoc. (Calcutta Branch); Committee Member: Indian Chamber of Commerce, Indian National Cttee., International Chamber of Commerce, New Delhi, Regional Cttee., West Bengal (Employees' Provident Fund), Calcutta; member, Cotton Textile Loan Advisory Cttee. of the N. I. D. C. Private Ltd., Bombay; member, Cotton Textiles Export Promotion Council, Bombay; represented the Employers as a Delegate to the I.L.O. Conference at Geneva, 1948; takes great interest in social and cultural activities. *Clubs:* Rotary Club of Calcutta; Calcutta Club, Calcutta. *Address:* 22, Canning Street, Calcutta.

SHAH, Shantilal Harjivan, B.A., LL.B., Minister for Labour and Law, Govt. of Bombay, since April 1957; Solicitor. *b.* July 30, 1898; *Educ.:* Gujarat Coll., Ahmedabad; Elphinstone Coll., Bombay. Congress worker in the Bombay Suburban District; was convicted and jailed for 18 months, 1932 and for 9 months, 1941; arrested and detained for 33 months, 1942; member, Bombay Legislative Assembly; Partner, Messrs. Bhaishanker Kanga and Girdharlal, Solicitors, Bombay; Managing Trustee, Saurashtra Trust; Minister for Labour and Public Health, Govt. of Bombay, till Oct. 31, 1956; Minister for Education and Law, Govt. of Bombay, Nov. 1956-April 1957. *Address:* Sachivalaya, Bombay.

SHAH, Soomatichandra S., Managing Director, Kouverji Devshi & Co., Ltd. *b.* June 30, 1905.



After completing his education, joined his father's business and developed it to its present position; has travelled widely in India; member: Assoc. of Merchants and Manufacturers of Textile Stores and Machinery; Indian Standards Institution; All-India Manufacturers' Assoc. *Clubs:* Hindu Gymkhana; W.I.A.A. Club House Ltd. *Address:* 164, Lohar Street, Bombay 2.

SHAMBHU MAHARAJ, Padma Shri Guru, a leading traditional Guru of Bharat Nritya-Natwari dance of North India; Padma Shri (1958), Sangeet Natak Akadami Award (1955), Natwari Nritya Samrat (1936). Head of Dance Deptt., Bharatiya Kala Kendra, New Delhi. *b.* Kartik Purnima, 1907. *Educ.:* Privately at home; first received training in *thumri* singing from Ustad Rahimuddin Khan Banaraswale at Lucknow and Faizabad (1919-20); trained in Bharat Nritya-Natwari by eldest brother Pandit Jagannath Prasad *alias* Archan Maharaj, then court-dancer of Rampur (1920-1925). Started propagation of Bharat Nritya-Natwari from Lucknow and Calcutta; first appeared in public performance at Lucknow, 1925; appeared later in various conferences throughout India. *Recreations:* Playing with children. *Address:* Bhatkonji Road, Puljhuslal, Lucknow; *Residence:* 7A/38-WEA, Karol Bagh, New Delhi.

SHANKAR, Vidya, M.A., I.C.S., Revenue Secretary, Bombay Govt.,* since Jan. 1955. *b. November 10, 1909* at Partabgarh (Oudh). *Educ.:* Govt. High School, Partabgarh (Oudh); D.A.V. College, Kanpur; Univ. School of Arts Allahabad and St. John's College, Oxford. Appointed to I.C.S. (1933); Asstt. Collector, Dharwar (1933-37); West Khandesh (1937-38); Poona (1938-39); Under-Secy. to the Govt. of Bombay, Rev. Dept. (1939-40); Dy. Secy., Finance Dept. (1940-41); Under-Secy. to the Govt. of India, Home Dept. (1941-43); Deputy Secy. (1943-46); Private Secy. to the Home Member (1946-47); Private Secy. to Hon. the Dy. Prime Minister, Aug. 1947-50; Jt. Secy., Ministry of States, March 1948-Aug. 1952; Jt. Secy., Ministry of Defence, Aug. 1952-Jan. 1954; Collector of Ramanathna, Jan. 1954-Jan. 1956. *Recreations:* Tennis, Books, Badminton, and other games. *Clubs:* Delhi Gymkhana Club, Cricket Club of India, R.W.I.T.C., National Sports Club of India. *Address:* Sachivalaya, Bombay.

SHANTILAL, Mangaldas, B.A. (Bom.), Managing Director, The Jehangir Vakil Mills Co., Ltd., Ahmedabad. *b.* 1901. Managing Director, New Jehangir Vakil Mills Co., Ltd., Bhavnagar, Navjivan Mills Ltd., Kalol (N.G.); Director of several other concerns; Pres., Federation of Indian Chambers of Commerce and Industry, New Delhi, 1955-56; Pres., Ahmedabad Millowners' Assoc. for 1946; Member, Senate of the Univ. of Bombay, 1928-43; attended the Textile Cttee. meetings of the International Labour Organisation at Brussels, 1946 and at Geneva, 1948 as Employers' delegate; takes interest in social work and education. *Address:* Near Police Lines, Shah-i-bag, Ahmedabad.

SHARMA, Brij Lal, B.A. (Hons.), Principal Information Officer, Press Information Bureau, Govt. of India, now Officer on Special Duty, Ministry of External Affairs. *b.* April 6, 1906; *Educ.:* Graduated with Honours from F.C. Coll., Lahore, 1927. Was in England including a few years spent in Fleet Street, 1927-33; on the staff of *Hindustan Times* and Correspondent of various newspapers in India, 1934-38; joined Press Information Bureau as Asstt. Information Officer, Sept. 1938; Publicity Co-ordination Officer, Ministry of Information and Broadcasting, 1948, member, Indian Delegation to the Security Council on the Kashmir issue, 1948; appointed Deputy Secretary, Information and Broadcasting Ministry, October 1948; Adviser to the Indian Delegation to the U.N. General Assembly, 1950; Adviser to the Indian Delegation on Kashmir to Geneva, 1952, Colombo Plan Information Officer, Colombo, 1954-56; delegate or observer to Colombo Plan Consultative Cttee. meetings, New Delhi 1953, Ottawa 1954, Singapore 1955. *Address:* Ministry of External Affairs, New Delhi.

SHARMA, Narendra, M.A. (Allahabad), Hindi Poet; Programmes Producer, All India Radio, since 1953. *b.* Feb. 28, 1913; *Educ.:* Khurja and Allahabad, M.A. in 1936. Entered journalism as subeditor in "Abhyudaya", Hindi Weekly, Allahabad, 1934 and "Bharat", Hindi Daily, Allahabad, 1937; In-charge, Hindi Section, A.I.C.C. Secretariat, Swaraj Bhawan, 1938-40, Editor, "Rooplekha", Hindi Monthly (Alld.); Lecturer, Kashividyapith; detained without trial, 1941-42; Lyric-Writer, Bombay Talkies, 1943-47; Freelancer. *Publications: Shool-Phool; Kam-Phool, Prabhat-Pheri; Pravasi Ke Geet; Milli Aur Phool; Kamini; Hansmala; Rakt Chandan; Agni-Shasya; Kadale-Van* and *Palash-Van*, (collections of verses); *Karam-Muthi Bantan* and other short stories (collection of stories). *Address:* 19th Road, Khar, Bombay 21.

SHARMA, Dr. Shanker Dayal, M.A., LL.M., Bar-at-Law, D.P.A. (Lond.), F.R.A.S. (Lond.), Ph.D. (Cantab.), Minister for Education and Law, Madhya Pradesh. *b.* Aug. 1918; *Educ.:* Allahabad, Lucknow and Cambridge Univs.; Brandeis Fellow of Harvard Law School, U.S.A.; Fellow of the Academy of International Law at Hague, Holland. Lecturer, Law Faculty, Cambridge Univ.; Lecturer and Reader in Law, Lucknow Univ.; Editor-in-Chief, Lucknow Univ. Union Journal; Editor, Lucknow Law Journal; Chief Minister, Bhopal. *Publications:* Published literary and legal articles in Indian and foreign periodicals. *Recreation:* Swimming. *Clubs:* Cambridge Univ. Majlis; Lucknow Univ. Union. *Address:* Bhopal.

SHARMA, Pandit Vishitra Narain, Minister for Local Self-Govt., U.P., since April 1957; Minister for Transport, U.P., May 1952-Dec. 1954. *b.* May 10, 1896; *Educ.:* D. A. V. High School, Dehra Dun; Banaras Hindu Univ., Banaras. Participated in non-co-operation movement, 1920; founded with Acharya Kripalani, Gandhi Ashram, 1920; jailed several times in the freedom movement, 1921, 1932 and 1942; General Secy., Gandhi Ashram, since its foundation; Secy., Kashmir Charkha Sangh, 1938-48; nominated member, old Leg. Council, 1947; elected M.L.A., U.P. at the first general elections, 1952; Minister for Public Works, U.P., Dec. 1954-March 1957. *Recreations:* Horticulture; Agriculture. *Address:* 8, Mall Avenue, Lucknow.

SHASTRI, Pandit Hiralal, Sahitya Shastri, B.A., Member of Lok Sabha from Sawai Madhopur (Rajasthan). *b.* Nov. 24, 1899; *Educ.:* Maharaja's Coll., Jaipur; Secy., Foreign and Home Dept., Council of State, Jaipur; founded 'Jiwankutir,' Banasthali Jaipur, for village uplift work; following the sudden death of his only daughter, Shantabai, founded Banasthali Vidyapith, national institution for girls' education; General Secy and Pres., Jaipur Rajya Prajamandal; General Secy., Rajputana Regional Council of All India States People's Conference; General Secy., All-India States People's Conference; member, Constituent Assembly of India; Member, Provisional Parliament of India; Chief Minister, Jaipur State; Chief Minister, Rajasthan; Editor, "Jiwan Sandesh", Hindi Weekly; Founded Navajiwan Kutir, Jaipur for general education of the people; Founder-Chairman of "Lokvani", Hindi Daily. *Publications: Jiwankutir-Ke-Geet* in 12 booklets; *Geet-Pachchis, Navjiwan Karyakram. Address:* Navajiwan Kutir, Bani Park, Jaipur.

SHASTRI, Lal Bahadur, Minister of Commerce and Industry, Govt. of India, since March 1958. *b.* 1904, in a village in Banaras Dist. (U.P.); *Educ.:* Kashi Vidyapeeth. Participated in the Non-Co-operation Movement and courted jail, 1921; Life-Member, Servants of the People Society, since 1926; imprisoned for two and a half years during Salt Satyagraha movement, 1930; General Secy., U.P. C.C., 1935-38; returned to the U.P. Leg. Assembly, 1937; re-elected and appointed Parliamentary Secy. to the Chief Minister, U.P., 1946; elected Secy.: U.P. Congress Parliamentary Board, 1945; appointed Minister for Police and Transport, U.P., 1947; resigned and became Gen. Secy., Indian National Congress, 1951, elected member, Rajya Sabha from U.P. Minister for Railways and Transport, Govt of India till Nov. 1956, when he resigned took over as Election Chief of Congress Party, after election in 1957 joined the Cabinet, Minister of Transport and Communications, April 1957-March 1958. *Address:* New Delhi.



SHELAT, Mr. Justice J. M., M.A. (Lond.), Bar-at-Law, Judge, High Court, Bombay. *b* July 16, 1908; *Educ.:* Jubilee Institution, Umreth (Dist Kaira); took B.A. (Hons.) in literature, from Elphinstone Coll., Bombay 1928; also obtained B.A. degree from the Univ. of London and M.A. degree by writing a thesis on the "Creation of the Senate" in the Constitution of the United States; called to the Bar (Inner Temple, London), Jan. 1932. *Publications:* Wrote several articles in journals and magazines; was one of the contributors to *Munshi, His Art and Work. Recreations:* Golf, Tennis. *Club:* Willingdon Sports Club. *Address:* "Sheela", 303, Vithalbhai Patel Road, Khar, Bombay 21.

SHENOY, Joseph Patrick Lasrado, B.Sc. (Hons.) (Lond.), Bar-at-Law, I.C.S., Chairman, Damodar Valley Corporation, since April 12, 1958. *b.* Oct. 29, 1907; *Educ.:* B.Sc. (Hons.) from Imperial Coll. of Science, London, 1925-28; The Inner Temple, London, 1929-29; passed I.C.S. in open competition, 1930, Finance Secy., Govt. of Madras, 1940-44; Commissioner, Corporation of Madras, 1944-47; Joint Secy., Govt. of India, 1947-48.

* Is likely to be appointed Dir. Gen., Supp. & Tpts.

General Manager, B.E.S.T., Bombay, 1949–54. *Publications:* *Madura, the Temple City.* *Recreations:* Tennis, Bridge. *Clubs:* Wellingdon (Bombay); Delhi Gymkhana Club; Madras Gymkhana Club. *Address:* Anderson House, Alipore, Calcutta 27.

SHEOREY, Smt. Indumati, M.A., G.D. Art (Bombay), Marathi Writer; Assistant Producer, All India Radio, Nagpur. *b.* Oct. 13, 1917; *Educ.:* Nagpur, Nagpur Univ. Worked as Asstt. Editor, "Independent", a prominent Nationalist English Weekly, 1945-47; a columnist in *Nagpur Times*, English daily, 1948-52; Section Editor in Marathi Daily, *Tarun Bharat*, 1952-56; first woman journalist in English journalism in old M.P. *Publications:* *Shapit Ani Usshapit*; *Hindu Code Kun Pahije*; *Apamanit Ani Iter Katha* and *Nakushi Ani Iter Katha* (both under print). *Recreation:* Painting. *Address:* 34, Shanker Nagar, Nagpur.

SHETTAR, Shivappa Sangappa, B.A., LL.B., District Government Pleader and Public Prosecutor and Advocate, Dharwar. *b.* Feb. 8, 1908 at Navalgund; *Educ.:* Navalgund; G. A. High School, Belgaum; Rajaram, Karnatak and Sykes Law Colleges, Kolhapur and Dharwar. Started practice at Dharwar, 1938; Assistant, Public Prosecutor, 1952-April 7, 1957; was Hony. Member, Controlling Body of District Sales and Purchases Union, Dharwar *Recreations:* Football. *Clubs:* Cosmos Club, Dharwar. *Address:* Gibb Town, Malamaddi, Dharwar (Mysore State).



SHIRKE, Shridharrao Shankerrao, B.A., B.Sc., Private Secretary to H. H. Maharani Chinnabaisaheb Gaekwar of Baroda, since 1950. *b.* May 21, 1894, *Educ.:* Elphinstone and St. Xavier's Colleges, Bombay. Agricultural Adviser to the Raja of Sawantwadi, 1925-27; Professor, Rajaram Coll. and Registrar of Co-operative Societies, Kolhapur, 1928-42; Personal Asstt. to Prime Minister, Kolhapur, 1936-42; Commissioner and Chief Excise Officer, Kolhapur, 1942-49; nominated M.L.A., Kolhapur; took keen interest in agricultural and rural development in the State; was Pres., Farmers' Fair and Cattle Show held at Kolhapur in 1939 when Viceroy Linlithgow visited Kolhapur; was awarded Kaiser-I-Hind silver medal for public services, in fostering the Co-operative Movement in Kolhapur State, 1939. *Address:* Gopal Bhuvan, Pedder Road, Bombay 26; 883, Poona 4.



SHRIKANT, L. M., Commissioner for Scheduled Castes and Scheduled Tribes, Govt. of India, since 1950. *b* June 1897 in Bombay; *Educ.:* Matriculation, 1914; St. Xavier's Coll., Bombay; graduated from Elphinstone Coll., Bombay, 1918; studied Law and M.A. course in Sociology upto 1919. Treasurer, Girgaum Congress Cttee., Bombay, 1920-21; joined the Bhil Seva Mandal started by Thakkar Bapa in Panch Mahals, 1923; Pres., Dist. Congress Cttee., 1929; organised Satyagrah in 1930 Swaraj Movement; was member, A.I.C.C. and Exec. Cttee., Gujarat P.C.C. for about 10 years; elected M.L.A., Bombay, 1937 and 1941; organised many conferences for Scheduled Tribes; was one of the Directors of the Provincial Co-operative Bank, Bombay State; was member, Backward Classes Board, Bombay State; was Secy., Western India Aboriginal Conference; appointed Secy., Bharatiya Adimjati Sevak Sangh, 1949; toured various parts of the country studying problems of Scheduled Tribes from time to time; courted jail in freedom movement. *Present Address:* 18, Akbar Road, New Delhi. *Permanent Address:* Shree Bhavan, 289, Sandhurst Road, Bombay 4.

SHRIMALI, Dr. Kalu Lal, M.A. (Philosophy and Psychology), Ph.D., Minister of State in the Ministry of Education, Govt. of India, since April 1957 *b.* Dec 30, 1909; *Educ* · Banaras Hindu Univ.; Calcutta Univ; Columbia Univ., New York. Headmaster, Vidya Bhawan, 1941-42; Principal, Vidya Bhawan Teachers' Coll., from 1942; member, Secondary Education Commission, Govt of India, 1953; Convener, Rural Higher Education Cttee., 1954; Parliamentary Secy. to the Minister for Education, Govt. of India; Deputy Minister for Education, Govt. of India, May 1955-April 1957. *Publications:* *The Wardha Scheme*; *Adventures in Education*; *Buchon Ki Kuch Samanyayen* (Hindi); *Shiksha Aur Bhartiya Loktantra* (Hindi). *Address:* 20, Ashoka Road, New Delhi.

SHRINAGESH, Jayavant Mallannah, C.I.E. (1946), I.C.S., Ex-Managing Director, Hindustan Aircraft (Private) Ltd., Bangalore. *b.* 1905, *Educ.:* W. Buckland School, Devon; Trinity Coll., Cambridge. Entered I.C.S., 1928; Jt. Secy., Ministry of Industry and Supply, Govt. of India, 1945; Commissioner of Jullundur, 1947; Adviser to Nepal Govt, 1950; Fellow, Institute of General Managers, London, Pres.; Institute of Management, Bangalore, Southern Council of Management Assocs.; Vice-Pres., All-India Management Assoc.; Member, American Management Assoc. *Address:* C/o Hindustan Aircraft (Private) Ltd., Hindustan Aircraft P.O., Bangalore District.

SHRINAGESH, General Satyavant Mallannah, Principal, Administrative Staff College, Hyderabad; was Chief of the Army Staff, Indian Army, *b* May 11, 1903; *Educ* : Public School in England; Cambridge Univ. and Sandhurst. Was commissioned in 1923; commanded the 6th Kumaon Regt. and fought in Waziristan, Assam and Burma with the Lushai Brigade, Dec. 1942; officiated as Brigade Commander, 64 Indian Infantry Brigade of the 19th Indian (Dagger) Division in Burma, Aug. 1945; elected to go to Germany as Dy. Chief of the Indian Military Mission, Nov. 1945; worked as Economic Adviser and Counsel, Commandant, Kumaon Regimental Centre, 1946; commanded 268 Indian Infantry Brigade, Japan, Jan. 1947; was promoted Major-General and appointed G.O.C., Madras Area, Sept. 1947; became Adjutant-General, A.H.Q., India, 1948; took over the over-all command of Indian Forces in Jammu and Kashmir, Sept. 1948; G.O.C.-in-C., Western Command, 1949-53; G.O.C.-in-C., Southern Command, 1953-55; awarded the Legion of Merit (Degree of Commander) at Washington, Sept. 2, 1955; Chief of the Army Staff, Indian Army, 1955-57. *Address:* Hyderabad.

SHROFF, Ardeshir Darabshaw, B.A. (Hons.) (Bom.), B.Sc. (Econ.), London. Director, Tata Sons Ltd. *b.* June 4, 1899; Prof. of Advance Banking at Sydenham Coll., Bombay; Vice-Pres., Bombay Shareholders' Assoc., 1930-37; Member, Cttee. of Indian Merchants' Chamber, 1930-36; Vice-Pres., Indian Merchants' Chamber, 1936; Trustee of the Port of Bombay, 1933-37; Chairman, Tata Textile Group and New India Assurance Company; member, Profit Sharing Cttee.; an expert witness before the Select Cttee. of Central Legislative Assembly on the Reserve Bank Bill, 1934; Director-in-Charge, Investment Corporation of India Ltd.; The National Ekco Radio & Engineering Co., Ltd.; Non-official Indian Delegate to the World Monetary Conference at Bretton Woods, U.S.A., 1944; Chairman, Railway Stores Enquiry Cttee. (1950-51); Expert Cttee. on Forward Contracts (Regulation) Bill, 1950. *Publication:* One of the authors of the Bombay 15-Year Plan. *Address:* "Eddie House," Pedder Road, Bombay.

SHROFF, Kaikhushru Ruttonji P., Hon. Presidency Magistrate and J.P.; President, Stock Exchange, Bombay, and Director of several Joint Stock Companies, *b.* July 27, 1878; *Educ.:* Bharda New High School and Byramjee Jeejeebhoy College of Commerce Has written books on Mathematics; recipient of Silver Jubilee and Coronation Medals. *Publications:* *Elementary Arithmetic and Algebra for P. E. Students.* *Address:* Sunshine, Churchgate Reclamation, Bombay.

SHUKLA, Gaya Prasad, 'Sanchi' and Tirishul Normal (First Division) in Urdu and Hindi, Hindi Pandit *b.* Aug 1883 *Educ.:* Harha, Purwa and Lucknow Has always been a keen lover of Hindustani literature, presided over several kavi sammelans, elected four times Pres., All India kavi sammelan held at different places; edited two journals dealing with poetry, *Kavi* and *Sukavi* for about 30 years. *Publications:* *Trishul*, *Tarang*; *Kusumanjal*; *Karuna*, *Kadambini*. *Recreations:* Writing of poems. *Address.* "Sabhajat", Harha, Unnao, U.P.

SHUKLA, Shambhunath, B.A., LL.B., Minister for Forests and Natural Resources, Madhya Pradesh, since Nov. 1, 1956. *b.* 1903; *Educ.:* Allahabad Univ. Entered politics during the Dandi March, 1932; was detained at Madhogarh Fort for two years; imprisoned for participating in the 'Quit India' movement; released, 1944; Food and Civil Supplies Minister and later Finance Minister, Rewa State, 1947; nominated as a member of Parliament by the Governor-General, 1949; elected M.L.A., Vindhya Pradesh, 1952; Founder Editor, *Bhaskar*, Hindi Weekly of Rewa, 1945; was Gen. Secy., V.P.C.C.; its Pres.; organised and managed khadi work; opened a Khadi Bhandar at Rewa; elected to the State Assembly in the general elections; unanimously elected leader of the Congress Party in the State Assembly and became Chief Minister; continued as Chief Minister till Oct 31, 1956; elected to the Legislative Assembly, Madhya Pradesh, 1957. *Address:* Bhopal, Madhya Pradesh.

SIDDIQI, Muhammad Zubayr, H.A. (Punjab), M.A., B.L. (Patna), Ph.D. (Cambridge), Sir Asutosh Professor of Islamic Culture, Calcutta University, since 1929. *b.* 1896. *Educ.:* Madrasa Aliya of Rampur (U.P.), Oriental Coll., Lahore; Bihar National Coll., Patna, worked under Prof. E. G. Brown (Cambridge). Head of the Dept. of Arabic, Lucknow Univ. (1926-28); Member, Senate and Syndicate, Calcutta Univ. for more than 15 years; elected Vice-Pres., Asiatic Society of Bengal for more than six years; Hon. member, Islamic Research Society of Bombay and Fellow of Asiatic Society of Bengal; Member, A.C. Council Visva Bharati, Santiniketan. *Publications:* Edited the *Ferdausul-Hikmat*, the oldest Arabic Medical Compendium (Published from Berlin in 1928), *The Tarikhi-Harat of Saifi* (Imperial Library of Calcutta, 1944) and *Al-Sayrul-Hathith fi Tadwinil-Hadith* (Published from Hyderabad-Deccan); several papers published in various journals. *Address:* P. 6, Suhrawardy Avenue, Circus P. O., Calcutta 17.

SIDHANTA, Nirmal Kumar, M.A. (Cantab.), Double First Class, English Tripos, Vice-Chancellor, Calcutta University, since Aug., 1955. Was Dean, Faculty of Arts, Lucknow University and Member-Secretary, Universities Commission. *b.* Oct. 31, 1894; *Educ.:* Calcutta and Cambridge Universities; Griffith Prizeman, Calcutta University. Lecturer, School of Oriental Studies, London Univ., 1922-23; Reader in English, Lucknow Univ., 1923-26; Professor of English, Lucknow Univ., 1926-51; Dean, 1933-51; Wilson Philological Lecturer, Bombay University, 1928; Secy., Inter-Univ. Board, India, 1937-42; Chairman, 1946-48; member Central Advisory Board of Education, since 1946; member & Secy., Indian Universities Commission, 1948-49;

Member, Union Public Service Commission, 1951-55; member, Univ. Grants Commission; member, Pay Commission. *Publications:* *The Heroic Age of India*; *A Comparative Study*; numerous articles on literature, art and education. *Recreations:* Tennis and Bridge. *Address:* Calcutta.

SILAM, Sayaji Laxman, B.A., LL.B., Speaker, Bombay Legislative Assembly, since June 1957. *b.* May, 18, 1898; *Educ.:* Wilson High School, Wilson Coll. and Govt. Law Coll., Bombay. General Secy., Bombay Pradesh Congress Cttee. (1946-49); Vice-Pres., B.P.C.C. (1941); was Secy., Bombay Hindi Sabha and Pres., Bombay Automobile Employees' Union and Bombay Insurance Employees' Union; was Chairman, Prohibition Inauguration Celebration Cttee. and member, greater Bombay Prohibition Cttee; was member, Bombay City & Suburbs post-war Development Cttee. and Chairman of its housing panel; is connected with several educational institutions; courted jail in individual satyagraha and Quit India Movement; member, Bombay Municipal Corporation, 1922-46; was Chairman; Standing Cttee. and Works and Markets and Gardens Cttee. of Corporation; was member, Bombay Improvement Trust Cttee. and Schools Cttee.; Fellow of Bombay Univ.; was member, Backward Class Board of Bombay State, first elected to Bombay Leg., 1946; Prohibition Commissioner (1937-38); Secy., Tilak Memorial Cttee; Pres., Society of Hon. Presidency Magistrates of Bombay (1956-57); was Chief Whip, Bombay Leg. Congress Party till election as Speaker, Bombay Assembly, Nov. 1956; elected again as member, 1957; is also Convenor, Bombay Pradesh Bharat Sevak Samaj. *Publications:* *Gitalap* (Marathi). *Address:* 5, Winter Road, Malabar Hill, Bombay 6.

SINCLAIR, John William, General Manager, Standard-Vacuum Oil Co., since 1957, *b.* Oct. 29, 1905; *Educ.:* London and Canada. Joined Standard Oil Co., New York, 1930; served Standard-Vacuum Oil Co.: in Japan, 1935-36; in India, 1937-45; in China, 1946-49; in Hongkong, 1950; in Philippines, 1951; in New York, 1952-54; in India, since 1954; Asstt. General Manager, 1955-57. *Recreations:* Golf, Reading. *Clubs:* Willingdon, Delhi Golf Club; Sheko and Fan Wine, Hongkong. *Address:* 'Sorrento', Mount Pleasant Road, Bombay 6.

SINGH, Air Vice-Marshal Arjan, Air Officer Commanding-in-Chief, Operational Command, I.A.F., since May 1958. *b.* April 15, 1919. Commissioned in the I.A.F., 1939; began his service career with No. 1, I.A.F. Squadron; saw action on the North West Frontier; commanded and led the same squadron in the Arakan and Burma operations; was awarded the Distinguished Flying Cross for his meritorious service as Squadron Commander; at the end of World War II, led the I.A.F. display flight which toured India; was given command of the Air Force Stations at Kohat and Risalpur; after partition, became the first I.A.F. officer to command the Advanced Flying School at Ambala, later shifted to Begumpet as a full-fledged Air Force Academy; Director of Training at Air HQ 1948-49; selected to attend a course at the Joint Services Staff Coll. at Latimore, England, 1949; soon after his return from the U.K., promoted Air Commodore and appointed Air Officer Commanding, Operational Command; was one of the Principal Staff Officers at Air HQ as Air Officer-in-Charge Personnel & Organisation; as A.O.C., Operational Command, led a squadron of Toofani jet fighters to Burma on a goodwill mission, 1956. *Address:* Air Headquarters, New Delhi.

SINGH, Padma Shri Balbir, B.A., Leading Hockey Player; Deputy Superintendent of Police, Punjab. *b.* Oct. 10, 1924; *Educ.:* Matriculated from Dev Samaj High School, Moga (Punjab); Graduated from Khalsa Coll., Amritsar, Punjab Univ. Represented Punjab Univ. Hockey Eleven, 1943; represented State Eleven in the National, 1944, and has been continuously playing for the State ever since; captained Punjab Univ. Eleven, 1945; toured South India and Ceylon with I.H.F. team, 1947; represented India in the World Olympics at London, 1948, won gold medal; toured Afghanistan with Indian Hockey Team, 1949; captained Indian Hockey Team to Afghanistan, 1950; played two Test Matches against Japanese Hockey team touring India, 1951; represented India in Olympic Games at Helsinki, 1952; won Gold Medal; captained Indian Hockey team to Singapore and Malaya, 1954; visited New Zealand, Australia and Ceylon with Indian Wanderers Hockey Team, 1955; captained Indian Olympic team to Melbourne Olympic Games, 1956; won Gold Medal; appointed Captain, Indian Hockey Team which participated in the Youth Festival in Russia, 1957; awarded Padma Shri by the President of India, Jan. 1957; captained the Indian Hockey Team for the Asian Games at Tokyo, May, 1958. *Address:* Dy. Superintendent of Police, Patiala.

SINGH, Sardar Baldev, member, Lok Sabha; Ex-Minister for Defence, Govt of India; Member for Defence Interim Government, September 2, 1946; Minister for Development, Government of Punjab, June 1942-Sept. 1946; Defence Minister, 1947-52. *Address:* New Delhi.

SINGH, Chandreswar Prasad Narain, M.A., Governor of Punjab (India). *b.* April 18, 1901 *Educ.:* G.B.B. Coll., Muzaffarpur; Calcutta Univ.; Member, Provincial Simon Cttee., 1928; Hon. Secy., Tirhoot Cane Marketing Board, 1934; member, B and O. Leg. Council until 1936; returned to Provincial Legislature as the representative of the landholders, 1937; Chairman, Muzaffarpur Dist. Board for 12 years; Pres., Provincial Franchise Cttee., 1939; Leader, National War Front, Bihar, 1942; Pres., Bihar Flying Club, 1947; Leader of the Opposition, Bihar Leg. Assembly; Fellow, Patna Univ., 1930, Vice-Chancellor, Patna Univ.; Indian Ambassador in Nepal till Oct 1952. *Recreations:* Tennis, Shooting, Painting, Riding. *Address:* Raj Bhawan, Chandigarh; Muzaffarpur; Patna.



SINGH, Charan, M.A., B.Sc., LL.B., Minister for Finance and Revenue, Uttar Pradesh. *b.* Dec. 23, 1902; *Educ.:* Meerut and Agra. Started legal practice in Ghaziabad (Dist. Meerut) in 1928; began taking active interest in political and other public activities in 1929; imprisoned in 1930 for six months, in 1940 for one year and in 1942 for fifteen months; elected M.L.A. (U.P.) in 1937, 1946, 1952 and again in 1937; Parliamentary Secy. to the Hon'ble Chief Minister, U.P. till June 1951; appointed Minister from 4th June 1951; originator of the Bhumidhari Scheme; Chairman, the Zamindari Abolition Publicity Board, Revenue Courts Reorganisation Cttee. (1946), Tenancy Act Amending Cttee. (1946), Dudhi Enquiry Cttee. (1947), Ayurvedic and Unani Systems Reorganisation Cttee. and Local Bodies Pay Cttee. *Publications:* *Abolition of Zamindari*, 1947, *Shistachar*, 1955 and *Whither Co-operative Farming*. *Address:* Secretariat, Lucknow.

SINGH, Major-General Daulet, Quarter-Master General, Indian Army, since Feb. 1957. *b.* Jan. 4, 1911; *Educ.:* Govt. Coll., Lahore; Royal Military Coll., Sandhurst. Commissioned into the Indian Army, Jan. 29, 1931; joined the III Cavalry; was a Regimental Officer up to 1942; selected for the Staff Coll., 1942; has held important Staff and Command appointments; attended a course at the Imperial Defence Coll., U.K., 1953; Dir. of Military Operations, Army Hq., India, April 1955-Nov. 1955; G.O.C., Bombay Area, Aug. 1954-Dec. 1955; G.O.C., Armoured Division, Dec. 1955-Feb. 1957. *Recreations:* Polo, Hockey, Tennis and Squash. *Club:* Delhi Gymkhana Club, New Delhi. *Address:* Army Headquarters, New Delhi.

SINGH, Gur Bakhsh, B.Sc., C.E. (1922), Punjabi Writer. *b.* April 26, 1895; *Educ.:* F.C. Coll., Lahore; Thomason Coll., Roorkee, Michigan Univ., Ann Arbor (U.S.A.). During the Great War, attached with Royal Engineers; Railway Engineer, 1925-32; Power Farming, 1932-37; founded *Preet Lari*, 1934 founded Preet Nagar, a colony on co-operative lines, 1937; travelled extensively in Europe, Russia, China, U.S.A., Canada, Iraq and Persia; Vice-Pres., All-India Peace Council. *Publications:* *Shabnam*; *Adjusted & Balanced Life*; *Unmarried Mother*; *The Stranger Alone*. *Recreations:* Cricket, Badminton, Gardening. *Club:* Cosmopolitan Club. *Address:* Editor, *Preet Lari*, Preet Nagar, Dist. Amritsar.

SINGH, Gurmukh Nihal, M.Sc. (Econ.) (Lond.), Barrister-at-Law, Governor of Rajasthan, since Nov. 1, 1956. *b.* March 14, 1895; *Educ.:* Rawalpindi and London. Graduated from the Univ. of London with honours in Public Administration, B.Sc. (Economics) (Hons.) (London), 1917; took M.Sc. (Economics) (London) by research, Dec. 1918; called to the bar, June 1919. Appointed Prof. of Economics and Political Science, Banaras Hindu Univ.; later became the Rama Varma Prof. of Political Science; was Dean, Faculty of Arts for some years; Principal H. L. College of Commerce, Ahmedabad 1939-43; Principal, Ramjas Coll., Delhi 1943-50; was with the S.R. Coll. of Commerce, Delhi, 1950 May 7, 1952, when he was elected Speaker, Delhi State Leg. Assembly unanimously elected Leader, Congress Vidhan Sabha Party, Delhi State, Feb 1955. Chief Minister, Delhi State, Feb. 13, 1955 to Oct. 31, 1956; was member, almost all Univ. Bodies at the B.H.U. and also of some of the Univ. Bodies at Allahabad, Lucknow and Bombay; has been very intimately associated with the Univ. of Delhi since Oct 1947. Member, Univ. Court, Exec. Council, Academic Council, Finance Cttees. and several Boards of Studies of the Univ. of Delhi, organised the First Indian Political Science Conference at Banaras, 1938; was the first Secy. and Treasurer of the Assoc. (1939-42); its Pres. 1942; *Publications:* *Indian States and Britain*; *India: Their Future Relations*, 1928; *Landmarks in Indian Constitutional and National Development*; has written other books, pamphlets and numerous articles in journals and newspapers. *Address:* Raj Bhawan, Jaipur.



SINGH, Group Captain Harjinder, M.A., M.B.E. (1942), Commander, Maintenance Command, I.A.F., since 1955. *b.* Feb. 4, 1911. *Educ.:* Maclagan Engineering Coll., Lahore. Joined the I.A.F., Jan. 23, 1932; later Short Commissioned Technical Officer in the I.A.F. 1942; Chief Technical Officer, Air Force Station, Kohat, 1944, Peshawar, 1945, Ambala, 1946; D.S.T.S.O. Air Hqrs., 1947-48; Officer Commanding, Base Repair Depot, Kanpur, 1948-54; holds Commercial 'B' Licence (Civil Aviation) and A.B.C.D & X Ground Engineers Licences; awarded Air Force 'Wings' at the age of 41; has flown 1000 hours on 14 different aeroplanes including Jet Fighters. *Publications:* *Men behind the Wings*, early History of I.A.F. (under preparation). *Recreations:* Sports. *Clubs:* Delhi Club, Northern India Flying Club, Jullundur, Hind Provincial Flying Club, Kanpur (Pres. since 1956). *Address:* Air Command House, Kanpur.

SINGH, Sardar Hukam, LL.B., Dy. Speaker, Lok Sabha since 23rd March, 1956. *b.* Aug. 30, 1895, at Montgomery; *Educ.*: Khalsa Coll., Amritsar; Law Coll., Lahore; was a prominent member of the Shiromani Akali Dal; entered politics and actively participated in the Gurudwara Prabandhak Reform movement; arrested and imprisoned, 1924-26; worked for the prosperity of the Panthic organisation as member of Shiromani Gurudwara Prabandhak Cttee., 1926-41; Pres., Dist. Bar Assoc., 1943 and 1944; President, Shiromani Akali Dal, 1950; Judge, Kapurthala High Court, 1947; takes keen interest in work in Parliament, made valuable contribution on various subjects; Ex-member; Estimates Cttee. of the Parliament; Rehabilitation Advisory Cttee.; was elected to the Indian Constituent Assembly, 1948; made the best use of this opportunity in the cause of his community; a member of the Congress; Founder, *Spokesman*, an English Weekly. *Publications*: *Sikh Case*; *The Problem of the Sikhs*. *Recreation*: Walking. *Address*: Kapurthala, Punjab; 21, Asoka Road, New Delhi.

SINGH, Jaipal, M.P. & Pres., All-India Adibasi Mahasabha. *b.* Jan. 3, 1903, *Educ.*: St. Paul's School, Ranchi; Grammar School, Darlington St. Augustine's College, Canterbury, and St. John's College, Oxford. Full Blue at Oxford for Hockey; captained the Indian Olympic Team at the Olympiad in 1928, first Covenanted Indian Mercantile Assistant in the Royal Dutch-Shell Group, 1928-32; Commercial Master, Achimota College, Gold Coast, 1933-36; Headmaster and Officiating Vice-Principal, Rajkumar College, Raipur, 1936-37; Colonisation Minister and Revenue Commissioner, Bikaner State, 1937-39; Civilian Adviser, Services Selection Board, 1943-46; Pres., Delhi Flying Club; and Delhi Fishing Club; Editor, *Adibasi Sakam*, 1941-42; President, Jharkhand Party; member, Press Commission, 1952-53; Vice-Pres., Delhi and Dist. Cricket Assoc., 1953; member, Estimates Cttee. of Parliament, 1952-54; Pres., Delhi Football Assoc.; member, Public Accounts Cttee. *Publications*: Articles on Games and Social Anthropology. *Address*: Ranchi, Chhota Nagpur.

SINGH, Maj. Gen. K. Bahadur, Adjutant General, Army Hqrs., Indian Army, since Sept. 1956. *b.* Aug. 5, 1910, at Palaitha, Kotah; *Educ.*: Prince of Wales Royal Indian Military Coll.; graduated from Staff Coll., Camberley; selective course at the Imperial Defence Coll., Wellington, 1954. Commissioned from the Royal Military Coll., Sandhurst, Jan. 29, 1931; Served in the 4 Kumaon and the Training Bn. for nine years before the war, holding all the normal regimental appointments; proceeded to the Far East with the Bn. 1939; taken prisoner of war during the Singapore disaster; holding a Staff appointment in a Division, held a number of appointments, including Deputy Secy (Military) to the Cabinet and was Brigadier, General Staff of a Command; commanded a brigade and two divisions. *Recreations*: Shikar. *Address*: 1, Hastings Road, New Delhi.

SINGH, Lieut.-General Kalwant, I. A., G. O. C.-in-C., Western Command, since May 1955. *b.* April 23, 1905. *Educ.*: Forman Christian Coll., Lahore and Royal Military Coll., Sandhurst, Commissioned, Jan. 29, 1925; attached 1st Bn. The Gordon Highlanders; posted 2nd Bn., 1st Punjab Regt.; passed into the Staff Coll., 1935 (First Indian to pass by competition); Bde. Maj., Thal Brig., 1940-41; Instructor, Staff Coll., Quetta, 1941-43 (First Indian Instructor); Asstt. Quartermaster-General (Operations), North-Western Army, Rawalpindi, 1943; Asstt. Quartermaster-General (Plans), Indian Expeditionary Forces, 1943; Comdt., 7th Bn., 1st Punjab Regt., Nov. 1943-45; Second-in-Command (Colonel) 114 and 89 Infantry Brigades, Burma and Siam, July-Oct. 1945; Cmdr., 20 and 114 Infantry Bdes., Feb. 1946-May 1947; Cmdr. of Troops against Black Mountain tribes, N.-W.F.P., Jan. 1947; Brig.-General, Staff, Northern Command, Rawalpindi, May 1947-15 Aug. 1947 (First Indian BGS), Dir. of Military Training, Army Hqrs., August 1947-Nov. 1947; Cmdr. JAK Division and JAK Force, 5 Nov. 1947-1 May 1948; Chief of the General Staff, May 1948-April 1950; Commander of a Corps, April 1950-May 1955. On Special Duty with the Ministry of Defence, 1950-51 and again 1952; A. D. C. to the President of India; Col. the Dogra Regt., 31 Oct. 1949; Col. Commandant, The Ordnance Corps, 18 July 1949; member, Himalayan Club. *Address*: Command House, Simla.

SINGH, Brigadier Kanwar Bag, Graduate (Indian Military Academy), M.B.E. (June 1946), Coal Mines Welfare Commissioner, Govt. of India. *b.* Jan 27, 1912; *Educ.*: Noble's High School, Bikaner; Dungar Coll., Bikaner. Enlisted in Bikaner State Forces (May 1929); passed School of Artillery with distinction (1932); graduated from Indian Military Academy (1935); topped the list in Sandhurst Wing. Appointed Chief of Staff, Bikaner State Army with rank of Lt. Col. (1940); visited Iraq, Iran theatres of war (1942); appointed Chief of Staff, Rajasthan State Forces with rank of Brigadier (1949); Hon. A.D.C. to the President of India, 1950; served in Jammu and Kashmir, 1951-55, commanding operational garrison and later a brigade; retired from Indian Army, Jan 27, 1957 and transferred to regular reserve. *Recreations*: Tennis; Football, awarded blues in Indian Military Academy; Open singles and doubles tennis champion, Bikaner Jodhpur and Quetta Clubs. *Clubs*: Bikaner Sadul Club, Jodhpur Sardar Club, Jaipur Asoke Club, Dhanbad Club. *Address*: Coal Mines Welfare Commissioner, Dhanbad

SINGH, Sardar Kapoor, B.A., LL.B., Chairman, Punjab (I) Legislative Council, since April 30, 1952. *b.* 1898; *Educ.*: Khalsa College, Amritsar. Practised Law, 1923-34 and 1938-40; suspended practice on account of disciplinary action by High Court for conviction during C. D. Movement; Sessions Judge, Chief Revenue Secretary and Dewan, Ajai Garh State, 1935-37; deputed by the State to the Princes & Prime Ministers' Conference in Bombay, Jhansi and Nowgong, to consider the Federal Part of the Govt. of India Act of 1935; resigned State service as he joined the Congress party in the Punjab Assembly; member, Dist. Board, Ludhiana, 1925-40; Vice-Pres. of the Board for 5 years; member, Municipal Cttee., Ludhiana, 1927-37 and Vice-Pres. for a term; M.L.A., Punjab, 1937-52; Secy., Congress Assembly Party, 1942-45; Chief Whip, Congress Assembly Party, 1946-47; Dy. Speaker, Punjab Leg. Assembly, 1946-47; Speaker, Punjab (I) Leg. Assembly, 1947-51. *Address*: Chandigarh Capital.

SINGH, Karnail, M.I.E. (India), M. Am. S.C.E., Member, Engineering, Railway Board, since Jan. 1957. *b.* July 25, 1904; *Educ.*: Khalsa Coll., Amritsar; Thomason Coll. of Civil Engineering, Roorkee. Entered Indian Railways Service of Engineers on the old North Western Railway, 1927 and was mainly employed on railway constructions, surveys, special works for water supply, earthquake re-construction, projects and designs; Deputy General Manager on post-war re-construction after partition; Engineer-in-Chief on Assam Rail Link Project; General Manager, Northern Railway, 1952; General Manager, Chittaranjan Locomotive Works, 1954-Jan. 1957. *Publications*: '*A Complete Story of Assam Rail Link Project*'; *Waterways for Bridges*, etc. *Recreations*: Golf low handicap; Hockey. *Clubs*: Delhi Gymkhana, Calcutta Club, Royal Calcutta Golf Club, etc. etc. *Address*: Railway Board, New Delhi.

SINGH, Kewal, B.A. (Hons.), LL.B., I.C.S., Padma Shri (1955), Indian Ambassador-designate to Sweden*. *b.* June 1, 1915; *Educ.*: Forman Christian Coll, Lahore; Law Coll, Lahore; joined I.C.S., 1938; Balliol Coll., Oxford, 1938-39. Asstt. Commissioner, Ferozepore (1940); S.D.O., Dalhousie (1940-42); Colonisation Officer, Nili Bar (1945-46); Dy. Commissioner, Shahpur (1946-47); Simla (1947-48); First Secy.: Indian Embassy, Turkey (1948-49); Indian Military Mission, Berlin (1949-51); Charge d'Affaires, Legation of India, Lisbon (1951-53); Consul-General of India, Pondicherry 1953-54; Chief Commissioner, the State of Pondicherry, Karaikal, Mahe and Yanam, 1954-57; Ambassador to Cambodia 1957-58. *Recreations*: Tennis, Riding. *Address*: C/o External Affairs Ministry, New Delhi

SINGH, Mohan, M.A., M.D.O. (1933) Punjabi poet; Managing Director, Hind Publishers Ltd., Jullundur; Editor: *The Panj Darya*, Punjabi Monthly. *b.* Oct. 20, 1905; *Educ.*: Oriental Coll., Lahore. Passed M.A. (Persian), 1933. Joined Khalsa Coll., Amritsar, as Prof. of Persian; left Khalsa Coll. and started the *Panj Darya* at Lahore, 1939; in 1940 also joined Sikh National Coll., Lahore, as Head of Persian and Punjabi Department, 1940-44; floated Hind Publishers Ltd., 1946; moved to Amritsar, 1947 and then to Jullundur, 1954; member, Advisory Board for Punjabi, Sahitya Akadami, Delhi. *Publications*: *Sawe Pattar*, 1936; *Kasaubra*, 1939; *Adhwate*, 1939; *Asia Da Chanan*, 1944, *Kach Sach*, 1950; *Awazan*, 1954; *Nike Nike Washerman* (short story), 1942. *Recreations*: Chess; long walks *Address*: Editor, '*The Panj Darya*', Circular Road, Jullundur.

SINGH, Maisnam Amubi, President's Academy Award for Manipuri Dance (April 11, 1956), a leading Manipuri dancer; Guru, Manipuri Dance Coll., Imphal. *b* Dec. 1881; *Educ.*: Under leading gurus of Manipuri dance in Manipur. Participated in palace dances of Manipur from his seventh year, taught Srimati Huthoesing (afterwards Tagore) at Ahmedabad for seven months; went on an all-India tour with impressario Haren Ghosh; was teacher of Uday Shankar and stayed with him at Almora for teaching Manipuri Dance for about six years: All-India tour with Uday Shankar's Troupe just before World War II, claims to be the first person to point out the authority and tradition of "Jagoi" or dance. *Publications*: *Meitei Jagoi* (*Chali*), in Manipuri. *Address*: Uripok, Sinam Leikai, Imphal, Manipur.

SINGH, Dr. Nagendra, M.A., LL.M., (Cantab), M.A., B. Litt., LL.B. (Dublin), D. Litt. (Bihar), Par-at-law, Ld c. Joint Secy to the Govt. of India since April 1957 and Director General of Shipping, Ministry of Transport & Communications, Deptt. of Transport, New Delhi, since Feb. 1956. Joined Indian Civil Service, 1938; held charge of five districts in Madhya Pradesh, 1942-46; Deputy Secy., Ministry of Defence, 1946-47; Chief Minister of Bundi State, 1947; became member, Constituent Assembly, was a member, Minorities Cttee. of the Constituent Assembly; Regional Commissioner of Sambalpur for Eastern States Agency (Ministry of States), 1947-48; Deputy Secy., Ministry of Information & Broadcasting, 1948-50; officiated as Director-General, All India Radio and also as Joint Secy., Ministry of Information and Broadcasting, 1949; attended a course of training at the Imperial Defence Coll., 1950-51; Deputy Secy., Ministry of Defence, 1951-53; Joint Secy., Ministry of Defence, 1953-56; appointed Special Director, Eastern Shipping Corporation Ltd., Feb. 1956; Director, Hindustan Shipyard Ltd., April 1956; Director, State Trading Corpn. of India Ltd., May 1956, Chairman and Managing Director, Western Shipping Corporation Ltd., June 1956. *Publications*: *Termination of Membership of International Organisation*; *Nuclear Weapons and International Law*.

* Accepting to present arrangement is due to take charge in Aug.-Sept. 1958.

Clubs: Delhi Gymkhana Club Ltd.; Athenaeum Club, London; National Sports Club of India (Life Member). *Address: Office:* Joint Secretary to the Govt. of India and Director General of Shipping, Ministry of Transport & Communications, Dept of Transport, New Delhi. *Residence:* 30, Tughlak Crescent, New Delhi.

SINGH, Sardar Nawab, B.A., I.C.S., Adviser, Programme Adm., Planning Commission. *b.* April 7, 1907; *Educ.:* Morris Coll., Nagpur; graduated, 1927; passed I.C.S., at London, 1928. Posted to the Punjab in 1929, where he served as Asstt. Commissioner, Dy. Commissioner, Dist. & Sessions Judge (Delhi, 1939-43) and Legal Remembrancer & Legislative Secy.; Home Secy., East Punjab, Aug. 1947 to July 1948; Commissioner, Ambala Division, Punjab, July 1948-May 1951; Addl. Chief Secy., Punjab, 1951-52, Chief Secretary, Punjab, 1952-56. *Recreations:* Tennis, Bridge and Literature. *Clubs:* Delhi Gymkhana. *Address:* New Delhi.

SINGH, St. Nihal, Author, Journalist, photographer and broadcaster. *b.* June 2, 1884; *Educ.:* Punjab Univ.; First contribution to an English newspaper in 1898; since 1902 has regularly written for reviews, quarterlies magazines, weeklies & daily newspapers all over the world; has thrice girdled the globe and while living in four continents has been commissioned by the governments of various countries, notably Canada, Belgium, Ceylon and India, to write books and booklets, some of which have run through numerous enormous editions; writes in several languages; among best-known works are: *India's Fighters, India's Fighting Troops; The King's Indian Allies; The Rajas and Their India; Progressive British India; Japan's Modernization; The Nizam and the British Empire; Bhagest SinAjee, The Maker of Modern Gondal; Messages of Uplift for India; Urge Divine; Making Bad Children Good; Dry America; Hyderabad Today; The Anagarika Dharmapala*, etc. *Address:* "Suryasthanam," 16, Nemi Road, Dehra Dun, U.P.

SINGH, Air Commodore R. H. D., Air Officer i/c Personnel & Organisation, Air H Q, New Delhi. *b.* Nov. 28, 1914; *Educ.:* Aitchison Coll., Lahore and Royal Indian Military Coll., Dehra Dun; obtained Pilot's Certificate at Delhi Flying Club. Commissioned in I.A.F., after completing course at R A F. College, Cranwell, 1935; during World War II engaged in Indian coastal defence duties; worked on resettlement of R.I.A.F. released personnel; sat on Pay Commission for Armed Forces as R.I.A F. representative; Director of Organisation & Establishment, Air H Q, 1947; O C, Advanced Flying School, R I A F., 1948; A.O.C., Training Command, 1949-52; Air Officer i c Tech. & Equip Services, 1952-55; Chairman, Aeronautical Engineering Research Cttee, 1952-55; Member of Defence Production Board, 1955. *Clubs:* Delhi Gymkhana; Defence Services, New Delhi. *Address:* Air Headquarters, New Delhi.

SINGH, Raja Maharaj, M.A. (Oxon.), Hon. LL.D. (Allahabad), Bar-at-Law, Ex-Governor of Bombay. *b.* May 17, 1878; *Educ.:* Harrow and Ball. Coll., Oxford; Bar-at-Law, 1902. Asst. Sec. to Govt. of India, Dept. of Education, 1911; Collr. of Hamirpur, U.P., 1917; Hardoi, 1918; Secy. to U.P. Govt., 1919; Dy. Secretary, Govt. of India, Education Dept., 1920-23; Dy. Commissioner, Bahraich, 1923; Commissioner, Allahabad, 1927 and 1929, Benares, 1928; Chief Minister, Jodhpur, 1931; Agent-General in South Africa, 1932; Member, Executive Council, U.P., 1935; Member, U.P. Legislative Assembly, 1937-45; Commander (Brother), St. John Ambulance Association; Vice-Chancellor, Lucknow Univ., 1941; Prime Minister, Kashmir, April-July, 1943; Pres., Indian Christian Association and National Liberal Federation, 1944; Member, U.P. Legislative Council, 1946-47; Delegate to Commonwealth Relations Conference, England, 1945; led delegation to East Africa, 1946; Delegate to the United Nations, New York in 1946 and 1947; Governor of Bombay, Jan. 6, 1948-May 30, 1952. *Publications:* Reports on Indians in Mauritius, British Guiana and in South and East Africa; Speeches as Governor of Bombay, 1948-52 and various contributions to the Press. *Address:* 10, Mall Avenue, Lucknow.

SINGH, Colonel Raja Surendra, Agricultural Production Adviser, Ministry of Agriculture, Govt. of India since Feb. 25, 1958, and former Ruler of Nalagarh State in the Punjab. *b.* 1920; *Educ.:* Aitchison Coll., Lahore; had administrative training with the Punjab Government and held appointments in the Police, Revenue, Judicial, Public Health and Forest Deptts. Joined the Indian Army and served with the Dogra Regt.; appointed his father's Dewan, 1946; succeeded to the *Gaddi* on his father's death, 1946; retired from public life on the formation of PEPSU; was elected in a bye-election to the PEPSU Legislature, which was subsequently dissolved; again elected M.L.A. in the General Elections on Congress ticket with an overwhelming majority; is the first Prince in India to be appointed as a popular Minister; has been mainly responsible for bringing PEPSU'S Five-Year Plan uptodate in line with the progress of the other States; represented India in the Eighth Conference of the F.A.O. of the United Nations in Rome, 1955; elected on Congress ticket in the second General Elections from Patiala Constituency with overwhelming majority. *Address:* New Delhi.

SINGH, Ram Subhag, Shastri (Banaras), M.A. (Missouri), Ph.D. in Journalism (Missouri), M.P., Secretary, Congress Parliamentary Party. *b.* July 7, 1917; *Educ.:* Dhamar Board Upper Primary School, Bhuvaneshwar Middle English School, Arrah; Arrah Town High English School; Sri Kashividyapith, Banaras; Missouri Univ., Columbia, Missouri, U.S.A. Joined the Indian National Congress, 1935 and since then a Congress worker; arrested and imprisoned for 6 months for taking part in Civil Disobedience Movement, 1941; again sentenced to three years' R.I. and a fine of Rs. 500 in Aug. 1942 movement; elected Member of Parliament after returning from U.S.A. in Jan. 1950; elected to the Lok Sabha from Shahabad South Constituency, Bihar in the general elections, 1952; re-elected to Lok Sabha from Sasaram Constituency, 1957. *Publications:* Articles in some American and Indian papers. *Recreations:* Gardening, Horseriding. *Address:* Khajuria, P.O Dhamar, Dt. Arrah (Bihar); Parliament House, New Delhi.

SINGH, Rao Birendar, B A. (Delhi), Public Works Minister, Punjab, since April 9, 1957. *b.* Jan. 11, 1921; *Educ.:* at home and then in St. Stephen's Cambridge Mission Coll., Delhi; passed B A., 1942, Joined the Indian Army as a Commissioned Officer, 1942; served in Arakan and Burma in Japanese Campaign during the 1939-45 War; released from Army, to look after the family estate, 1947; took to farming and politics; elected to Punjab Leg., 1954; appointed Deputy Minister, 1956; travelled widely in U.K., France, Belgium, Germany, Italy, Switzerland, Egypt, etc. *Recreations:* Shooting, riding, travelling. *Address:* Secretariat, Chandigarh; Rampura, Rewari, Dt. Gurgaon.

SINGH, Lt.-General Sant, Ex-G.O.C.-in-C., Eastern Command. *b.* Nov. 28, 1903; *Educ.:* Primary School, Dakha; Arya High School, Ludhiana; Khalsa Coll., Amritsar; Royal Military Coll., Sandhurst, England. Commissioned as 2/Lt. in the Indian Land Army, Jan. 1925; carried out one year's attachment with the 2nd Bn., The Queen's Royal Regt. before joining the Indian Army Bn. 1/14 Punjab Regt.; took part in various NWF Operations; commanded 2nd Bihar Regt.; served overseas in Iran, Iraq and Malaya and mentioned in Despatches for distinguished services during the 2nd World War; promoted Col., Jan. '47, Brig., in Sept. '47 and Maj.-General, Dec. '47; Commandant, Officer's Pre-Selection Training School; Commanded Lorried Infantry Brigade and Madras Area and then commanded the famous 4th Indian Infantry Division before being appointed Master-General of Ordnance at Army HQ. G.O.C.-in-C, Eastern Command, 1953-57; appointed Hon. A.D.C. to the President of India; led Special Army Delegation to present General's Sword to H.M. the King of Nepal; officiated as Chief of the Army Staff twice, 1955 and 1956 *Recreations:* Hockey, Athletics and Shooting. *Address:* Dalha, Ludhiana, Punjab.

SINGH, Sardar Swaran, B.Sc. (Hons.), M.Sc (Physics) (Lahore), LL.B., Minister for Steel Mines and Fuel, Govt. of India, since April 1957. *b.* Aug. 19, 1907; *Educ.:* Govt. Coll., Lahore. Returned to the Punjab Leg. Assembly, 1946; Minister for Development, Food and Civil Supplies, Punjab, appointed a member, Security Council set up by the then Governor of the Punjab (Mr. Jenkins) to advise Govt. on the day-to-day problems relating to law and order, March 1947; was member, Partition Cttee. to divide the assets of the Punjab; Home, General Administration, Revenue, Irrigation and Electricity Minister, Punjab, 1947, Minister of Capital Project and Electricity, Punjab, April-May, 1952; resigned Ministership in the Punjab; Minister for Works, Housing and Supply, Govt. of India, May 1952-March 1957; led the Indian delegation to the sessions of the Economic and Social Council of the U N, at Geneva, 1954 and 1955; elected to the Lok Sabha in the General Elections, Feb.-March 1957; re-included in the Central Cabinet, April 1957. *Recreations:* Long Walks and driving. *Club:* Chelmsford Club, New Delhi. *Address:* 7, Hastings Road, New Delhi.



SINGH, Master Tara, Akali Sikh Leader, Pres., Shiromani Gurdwara. *b* June 24, 1885, at Harial, Rawalpindi Dist., *Educ* Rawalpindi, graduated from Khalsa Coll Amritsar, 1907. Embraced Sikhism at the age of 17; founded a Sikh School at Lyallpur and became its Headmaster, 1908, fought in the Gurdwara Reform Movement for freeing the Sikh holy places from the control of the traditional priesthood; became Secy, Shiromani Gurdwara Prabandhak Cttee.; jailed thrice as a result of clash with the authorities; opposed the Nehru Report of 1928 on Indian reforms, because it did not concede 30 per cent representation for Sikhs in the Punjab Legislature; went into voluntary retirement at the foot of the Himalayas for some time; returned to politics; became Pres., Akali Dal and Gurdwara Cttee.; took active part in the C. D. Movement, 1930; arrested at Lahore while leading a jatha of 100 Sikhs to the Frontier during the Civil Disobedience campaigns of 1930 onwards; elected for the first time Pres., Shiromani Gurdwara Prabhandak Cttee. while in jail; rejected Cripps proposals on the ground that they provided a loop-hole for the partition of India; encouraged the Sikhs to join the British army during World War II to prevent Muslims gaining monopoly in the army; resigned from various positions in the Congress; organised the Panthic Akali Party in the elections to the provincial legislatures; re-elected Pres., Akali Dal, July 27, 1954; again elected Pres., Shiromani Gurdwara Prabandhak Committee, Feb. 7, 1955; arrested on the 1st day of the Akali Dal's agitation against the ban on shouting slogans in support of a Punjabi-speaking State; his aim is the re-adjustment of boundaries of the Punjab with the idea of creating a Punjabi-speaking State within the Indian Republic. *Address:* c/o Shiromani Gurdwara Prabandhak Committee, Amritsar.

SINGH, Triloki, Member, National Executive, P.-S.P. *b.* Aug. 10, 1908; *Educ.:* Church Mission High School and Jubilee Coll., Lucknow. Joined Youth League and Indian National Congress, 1928; elected Chairman, District Board, Lucknow, 1939; member, U.P. Leg. Assembly, 1946 and 1957; formed Jan Congress, 1950; joined K.M.P.P., 1951; Leader of the Opposition, U.P., 1950-52 and since 1957; Gen. Secy., P.-S.P. *Address:* Ghaziari Mandi, Lucknow, U.P.

SINGHAL, Rajya Priya, Pramod Prakash, M.Sc., Business man; Chairman and Managing Agent, Mewar Oil & General Mills Ltd., Udaipur; Proprietor, Singhal Motors, Udaipur. *b.* Feb. 13, 1920, in U.P.; *Educ.:* Had a brilliant academic career, having topped in M.Sc., Allahabad Univ. Univ. Aquatics Captain, 1939-42; was conferred title of Rajya Priya by Udaipur Darbar, 1948; a prominent business man of Rajasthan; widely travelled; owns large agricultural farms and mines; is a Manufacturers' Representative and owns large transport business; Pres., Maharana Bhupal Memorial Fund Cttee., Udaipur; Vice-Pres.: Rajasthan Chamber of Commerce, Jaipur; Udaipur Chamber of Commerce, Udaipur; Hon. Secy, Field Club, since October 1950; Hon. Secy, Rajasthan Oil Mills Assoc; member, Rajasthan Industrial Advisory Council, Jaipur; Executive, Vidya Bhawan Society, Udaipur; Founder Member: Rajasthan Photographic Society, Jaipur; Bhartiya Lok Kala Mandal; Rajasthan Badminton Assoc., Jaipur; member: Rajasthan Industrial Advisory Cttee.; Rajasthan State Tourist Advisory Cttee. *Clubs.* National Sports Club of India; Field Club, Udaipur *Address:* Lake House, Udaipur (Rajasthan).



SINGHANIA, Kailashpat, Banker and Millowner. *b.* 1908; *Educ.:* P. P. N. High School, Kanpur; Apprentice, J. K. Cotton Spg & Wvg. Mills Co. Ltd.; rounded off training by travel abroad in Europe and America, 1938-39; again visited Europe and the U.K., 1947 Resident Director, J. K. Organisation, Western India Zone, Bombay 1; joined J. K. Cotton Spg. & Wvg. Mills Co. Ltd. as Director; became later its Director-in-Charge; Director: J. K. Cotton Spinning & Weaving Mills Co. Private Ltd., Kanpur; J. K. Jute Mills Co. Ltd., Kanpur; J. K. Iron & Steel Co. Ltd., Kanpur; Chairman, The Raymond Woollen Mills Ltd., Bombay; J. K. Chemicals Ltd., Bombay; J. K. Investors (Bombay) Private Ltd., Bombay; Director-in-Charge and Chairman, The New Kaiser-I-Hind Spinning & Weaving Co. Ltd., Bombay; Director: J. K. Properties Ltd., Calcutta; J. K. Private Ltd., Calcutta; J. K. Industries Private Ltd., Calcutta; J. K. (Agents) Private Ltd., Bhopal; Bombay Gas Co. Ltd.; Elphinstone Spg. & Wvg. Mills Co. Ltd.; Member: St. John Ambulance Corps, Ganga Nath Jha Research Institute, Indian Council of World Affairs, Bhatkhande School of Indian Music, Photographic Society of India, Indian Overseas Central Assoc., All-India Federation of Educational Assocs., Faculty of Commerce, Lucknow Univ., Millowners' Assoc., Bombay, Employers' Assoc. of Northern India, Kanpur, Federation of Indian Chambers of Commerce & Industry, All-India Organisation of Industrial Employers, Merchants' Chamber, U.P., Indian Merchants' Chamber, Bombay, Jaipur Chamber of Commerce, All-India Marwari Sammelan and member of more than 10 Masonic Lodges both S.C. & E.C. *Publications:* Writes occasionally on economic and industrial topics. *Hobbies:* Gardening and collection of rare art-treasures, books and curios. *Recreations:* Tennis, Swimming and Bridge. *Clubs:* Kanpur Rotary Club (Founder Pres.); Cricket Club of India Ltd., Bombay; 8-80 Club, Bombay; Ganges Club Ltd., Kanpur; Kanpur Club, Kanpur; Roshanara Club and Chelmsford Club, New Delhi; U.P. Flying Club, Kanpur; Royal Western India Turf Club, Bombay; Royal Turf Club, Calcutta; National Sports Club of India. *Address: Residence:* J. K. House, 59, Warden Road, Bombay.

SINGHANIA, Lakshmipat, Industrialist and Business man; ex-President, Federation of Indian Chambers of Commerce and Industry and Pres., the Indian National Cttee. of the International Chamber of Commerce; Vice-President of the All India Organisation of Industrial Employers. *b.* 1909. Embarked on business career at the early age of 20 and took over the administration of a group of industrial and financial undertakings of standing and repute, assumed responsibility as the Director-in-charge of the Aluminium Corporation of India Ltd.; past Pres., Merchants' Chamber of U.P., Kanpur, 1946 and 1947 and the Bharat Chamber of Commerce, Calcutta, 1948-49; member: Coal Control Board; Bharat Chamber of Commerce; Indian Central Jute Cttee.; Joint Consultative Board of Industry and Labour; All India Institute of Social Welfare and Business Management; All India Board of Technical Studies in Commerce and Business Administration and several others; also one of the few Indian underwriting members of the Lloyd's Society of London; travelled extensively round the world, 1939, 1946, 1952, 1954 and 1955; takes an active interest in public affairs, social welfare, and charitable institutions *Clubs.* Calcutta Club, Calcutta South Club, Royal Calcutta Turf Club, Bengal Rowing Club, Rajasthan Club, etc. *Address: Office:* 7, Council House Street, Calcutta; *Residence:* J. K. House, 12, Alipore Road, Calcutta.

SINGHJI, Yuvaraj Karan

(see Who's Who under Jammu & Kashmir).

SINHA, Mr. Justice Bhuvaneshwar Prasad, B.A. (Hons.), M.A., B.L., Judge, Supreme Court, since Dec. 1954. *b.* February 1, 1899, *Educ* Arrah Zila School, Patna College and Patna Law College; topped the list of successful candidates at the B.A. (Hons.) and M.A. Exams. of the Patna Univ. in 1919 and 1921 respectively. Shrimati Radhika Sinha Gold Medallist for standing first in History. Vakil, Patna High Court, 1922-27; Advocate, 1927-35; Lecturer, Govt. Law Coll., Patna, 1926-35; was member, Senate of the Faculty of Law and of the Board of Examiners in Law, Patna Univ.; member, Court of the Benares Hindu Univ.; Govt. Pleader, 1935-39, Assistant Govt. Advocate, 1940-42; Judge, Patna High Court, 1943-51; Chief Justice, Nagpur High Court, 1951-54. *Recreation:* Hiking. *Address.* Supreme Court, Delhi.

SINHA, Bimal Chandra, B.A. (Hons.) (Cal. Univ.), M.A. (Econ.) (Cal. Univ.), Minister, Revenue, West Bengal, since April 26, 1957. *b.* Dec. 1, 1918; *Educ.:* Calcutta; had a brilliant academic career (1st. in Hons., 1st in M.A.), University Gold Medallist, Cobden Medallist, etc. After finishing his studies joined Congress movement; has written extensively about economic problems, education reform, art, literatur; Minister for Works, Buildings and Revenue, West Bengal, 1948-57. *Publications:* (In Bengali) *Problems of Education: Society and Literature; Trends of World History and India; Society and Civilisation,* etc. *Recreations:* Photography. *Address:* 227/2, Lower Circular Road, Calcutta 20.

SINHA, Mr. Justice Chandreshwar Prasad, B.A. Hons. (Eng.), M.A. (Eng.), B.L., Judge, Patna High Court, since June 1950. *b.* Feb. 1, 1901; *Educ.:* Bihar H.E. School, Biharsharif; Patna Coll. and Law Coll., Patna. Enrolled: Patna High Court Bar, 1925; officiated as Asstt. Govt. Advocate, 1939-40; member, Faculty of Law, Patna Univ.; Secy.-General, Patna High Court Advocates' Assoc., 1947-50; member, Governing Body of several Educational Institutions. *Address:* Kadam Kuan, Patna 3.

SINHA, Mr. Justice Deep Narayan, B.A., Barrister-at-Law (Lincoln's Inn), Judge, Calcutta High Court *b.* Jan. 14, 1908; *Educ.:* Hastings House; Santiniketan; Presidency Coll.; T. N. J. Coll., Bhagalpur; Lincoln's Inn, London. Practised as Barrister on the Original Side, Calcutta High Court. *Recreations:* Painting, Photography, Shooting. *Club:* Calcutta Club, Calcutta. *Address:* 6, Queen's Park, Ballygunj, Calcutta and High Court, Calcutta.

SINHA, Ganga Sharan, M.P., Chairman, Praja-Socialist Party. *b.* 1905. Joined non-co-operation movement, 1921; since then has been working in political field; was in the Indian National Congress till the beginning of 1948, had been member A.I.C.C. and working Cttee., Bihar P.C.C.; Vice-Pres., Shairik Shikshan Mandal, left Congress 1948; member, Bihar Socialist Party, Congress Socialist Party, Socialist Party and Praja Socialist Party; had been member, working Cttee. and Standing Cttee., All-India and Bihar Sahitya Sammelans; Vice-Pres., and Managing Trustee, Balika Vidyapeeth; Secy., Bihar Congress Socialist Party and Bihar Socialist Party; Chairman, Central Parliamentary Board of Praja Socialist Party; Leader, Praja Socialist Party in Rajya Sabha. *Address.* Kharagpur P.O., Rly. Station Bihta, Dt Patna.

SINHA, Rajkumar Raghunath, of Sitamau, M.A. (Cantab.), Bar-at-Law, I.F.S., Consul General of India for the western States of the United States, San Francisco. *b.* Dec. 6, 1912; *Educ.:* St. John's Coll., Agra; Magdalene Coll., Cambridge; Lincoln's Inn, London. Research Scholar, Cambridge Univ.; Dewan and Pres., Council of Administration, Sitamau State; Minister, Alwar State; joined the Indian Foreign Service, 1948; was posted as First Secy., Indian High Commission, London and then in the Indian Embassy, Addis Ababa, Ethiopia; Indian Govt. Trade Commissioner in Karachi, 1952; Consul-General of India in Egypt. *Recreations.* Tennis and Big Game shooting *Clubs:* Delhi Gymkhana, Delhi; Commonwealth Club.; *Address:* Consulate General of India, 417, Montgomery Street, San Francisco, California; Saras Niwas, Sitamau (Madhya Pradesh).

SINHA, Dr. Rameswar Prasad, Assoc. H-C.C. (Min Eng. with distinction), B.Sc. (Min. & Metal) (Edin) with distinction, Ph.D. (Edin.), Vans Dunlop Research Scholar (1934), Fellow of Heriot-Watt College (1953), Principal, Indian School of Mines and Applied Geology, Dhanbad, Dean, Faculty of Mining and Applied Geology (Bihar Univ.). *b.* March 12, 1904, *Educ.:* Edinburgh, Scotland. Was Inspector of Mines and Mining Engineer, Bengal Coal Co.; was Manager of Mines, Bengal Coal Co.; Professor of Mining and Mining Machinery, Indian School of Mines & Applied Geology, Dhanbad; Mining Adviser to the Govt of C.P. & Berar (Madhya Pradesh). *Publications: Transactions of the Institute of Mining Engineers and Proceedings of the Royal Society of Edinburgh; Evolution of Mine Gas from the Coal Seams,* etc. *Recreations:* Football, Tennis, Badminton. *Address:* Principal, Indian School of Mines & Applied Geology, P.O. Dhanbad, Bihar.

SINHA, Satya Narain, Minister for Parliamentary Affairs, Govt. of India, since May 13, 1952. *b.* 1900, at Darbhanga (Bihar); *Educ.:* Patna. Participated in the Non-Co-operation movement and was imprisoned, 1920; member: Bihar Legislature, 1926-30; Indian Constituent Assembly; was Chief Whip, Congress Party in the Central Assembly and Constituent Assembly; Minister of State for Parliamentary Affairs, Govt. of India, 1949-52; returned to the Lok Sabha from Samastipur East Constituency, Bihar in the general elections. *Address:* Minister for Parliamentary Affairs, 19, Akbar Road, New Delhi.

SINHA, Shyama Prasad, B.A., Chairman, Bihar Legislative Council. *b.* April 1895; *Educ.:* T. N. J. College, Bhagalpur; St. Paul C. M. S. College, Calcutta; Univ. Law College, Calcutta. Joined Non-co-operation Movement, Sept. 1920; has taken politics as career; courted imprisonment several times, 1921, 1932, 1940 and 1942, etc.; was member and also executive head, Dist. Board and Local Boards; Asstt. G.O.C., Gaya Congress, 1922; G.O.C., Ramgarh Congress, 1940; In-charge of the Volunteer Organisation of the Province till election as Dy. Pres., Bihar Legislative Council; elected member, Bihar Leg. Council, April 1940 and Dy. Pres., June 1946; Director, *Navashakti* from 1935; Chairman, Board of Directors, Navashakti Publishing Company from 1946; Editor, *The Calcutta Samachar*, 1919-20. *Recreations:* Sports, riding and hunting. *Address:* Patna.

SINHA, Sri Krishna, M.A., B.L. (Calcutta), Chief Minister, Bihar. *b.* Oct. 21, 1887, in an ancient Zamindar family of Bihar; *Educ.:* Monghyr Zila School; Patna Coll., Patna; Calcutta Univ. Joined the Bar, 1916; gave up practice in response to Gandhiji's call, 1920; since then a leading member and an active worker of the Indian National Congress; served jail sentence of over eight years in all as a result of his political activities; Leader of the Swaraj Party in the Bihar Legislative Council, 1927; Chairman, Monghyr District Board, 1930; Pres., B.P.C.C., 1935 and 1953; M.L.A., Centre, 1935-36; first Prime Minister of Bihar, 1937-39; was a member of India's Constituent Assembly; re-elected M.L.A. in 1946, 1952 and 1957 from the South Sadar General Rural, Kharagpur and Sheikhpura Constituencies respectively of the Bihar Legislative Assembly; re-elected Leader, Congress Party in all these three terms. *Recreation:* Books. *Address:* Patna, Bihar.



SINHA, Smt. Tarakeshwari, M.A., Deputy Minister for Economic Affairs, Government of India, since April 1958. *b.* Dec. 2, 1926; *Educ.:* Arya Kanya Mahavidyalay, Baroda; Calcutta Univ.; Bankipur Girls' Coll., Patna Women's Coll. and Patna Univ. Vice-President, Bihar Provincial Students' Congress, 1945-47; member: Patna Dist. Gandhi National Memorial Fund Collection Cttee; Bihar P.C.C. Women's Section; Patna Dist. Sharirik Shikshan Sammelan (Health Education Conference); Patna Dist. Board; Saran Dist. Congress Cttee.; Cultural Section, Bihar Women's Federation, 1950; Working Cttee., Provisional Health Education Conference, Pres., Patna Dist. Board Employees' Assoc.; Secretary, Bihar Women's Food Conference, 1951-52; elected to the Lok Sabha, Jan. 1952 and again in March 1957; served as member, Public Accounts Cttee. and various other Parliamentary Cttees.; member, Indian delegation to U.N., 1957. *Recreations:* Cinema, Music and Reading. *Address:* R. Block, Patna 1; New Delhi.

SIPAHIMALANI, Kumari Jethi, T., M.L.C., J.P., Deputy Chairman, Bombay Legislative Council. *b.* Feb. 10, 1906, at Hyderabad, Sind; *Educ.:* D. J. Sind Coll., Karachi. Started active social and political life at the early age of 20; has been actively associated with Congress for over 30 years; took active part in Khadi movement; courted imprisonment thrice and remained in jail for over 3 years; member, Karachi Municipal Corporation upto 1935; M.L.A., Sind, 1937-48; was Deputy Speaker of Sind Leg. Assembly all these years; migrated to India on account of partition, 1948; Chairman, Kasturba Memorial Fund (Sind Branch); member, National Planning Cttee. (Women's Role in Reconstruction Section); was Pres., All India Womanp's Conference (Sind); was connected with various social and charitable institutions in Karachi; was elected unanimously as Deputy Chairman, Bombay Leg. Council, 1955; Govt. of Bombay's Representative on Central Advisory Board to the Ministry of Rehabilitation; member: Executive Cttee. for the welfare of Displaced Women; Women's Rehabilitation Depot; member: A.I.C.C.; Advisory Cttee. of Women's Section, A.I.C.C.; Vice-Pres.: Congress Mahila Samiti, Bombay; Cosmic Education Society; Khudabadi Amil Panchyat. *Address:* 4th floor, Al-abad, Churchgate, Bombay 1.

SIROHI, His Highness, Maharajadhiraj Maharao Shri Abhaisinghji Sahib Bahadur, Ruler of the former State of. Head of the Deora clan of Chouhan Rajputs. *b.* Sept. 27, 1915. Succeeded His Highness Maharajadhiraj Maharao Shri Sir Sarup Ram Singhji Sahib Bahadur, G.C.I.E., K.C.S.I. Recognised by the President of the Republic of India on the 7th October 1950. Heir Apparent, Maharaj Kumar Shri Raghubirsinghji Sahib Bahadur, *b.* Jan. 27, 1943. Entitled to a permanent salute of 15 guns; Patron, Sarup Club, Sirohi; Pres., Rajputana Club, Abu. *Address:* The Palace, Sirohi.



SITARAM, Sir, M.A., LL.B., D.Litt., Rai Saheb (1919), Rai Bahadur (1923), Knight Bachelor (1931). *b.* Jan. 12, 1885; Member, Mun. Board, Meerut (1910-20); Chairman, Education Cttee., Hon. Secy., Meerut Coll. for 16 years and its Vice-President since 1954; Hon. Secy., Devanagri High School (1913-37); Hon. Secy., Lyall Library, Meerut (1911-48), elected member, U.P. Legislative Council (1921-37); Pres., U.P. Legislative Council (1925-37); member, Executive Council, Allahabad Univ. and Hindu Univ. for several years; founder of Depressed Class Schools and Sevak Mandal at Meerut; Member, Indian National Congress (1905-19); ex-Pres., Sri Badrinath Temple Cttee.; Pres., Raghunath Girls' Coll., Meerut; President-Patron of the U.P. Sports Control Board, Lucknow; Pres., Upper House, U.P. Legislature, 1937-49; High Commissioner for India in Pakistan, March 1949-Nov. 1950; Chairman, Universities' Grants Cttee., U.P., 1952-57, Pres., U.P. Ethnographic Society. *Address:* Champa, Meerut.

SITARAMAYYA, Dr. B. Pattabhi, B.A., M.B.C.M., Ex-Governor of Madhya Pradesh. *b.* November 24, 1880. Started medical practice at Masulipatnam, 1906; gave it up, 1916; was a member of the A.I.C.C., 1916-1952; started the *Janmabhumi*, an English Weekly, 1919; jailed several times in connection with Congress movement; member, Working Cttee. of the A.I.C.C., 1929-30, 1931 and again between 1934 and 1936, 1938 and 1939 and 1940-46 and in 1948; takes an interest in the Co-operative Movement; elected member, Constituent Assembly, 1946; Pres., All-India States Peoples' Conference in 1936 at Karachi—Navasari Convention, 1938-39; working Pres., A.I.S.P.C. in 1946-47-48; elected Pres., Indian National Congress, Jaipur Session, 1948-50; Governor of Madhya Pradesh, July 1952-June 1957. *Publications: National Education*, 1912; *Indian Nationalism*, 1913; *Redistribution of Indian Provinces on a Language Basis*, 1916; *The Indian National Congress* (Jubilee Commemoration Volume, 1935); *Economic Conquest of India*; *Constitutions of the World*; *Gandhi and Gandhism*, Vols. I and II; *Gandhism and Socialism*; *Hindu Home Re-discovered in 1936-37*; *Why Vote Congress*; *Sixty Years of Congress*; *Fundamentals of India's Political Problems*; *Feathers and Stones*; *History of Congress*, Vol. II; *Current History in Question and Answer*. *Address:* 24, Gandhinagar, Hadapsar, Hyderabad.

SITARAMIAH, Palahalli, B.A., B.L., Ex-Chairman, Mysore Legislative Council. *b.* 1894; *Educ.:* Maharaja's Coll., Mysore; graduated in History and Economics of the Univ. of Madras; Bachelor of Laws, Madras Univ. Joined Mysore Bar, 1920; very soon entered co-operative movement; elected member, Mysore Municipal Council for over thirty years; first non-official elected Pres., Mysore Municipal Council and Chairman, City Improvement Trust Board; active member of Congress; was an elected member, Representative Assembly for over twenty years; was Deputy Leader and then Leader, Mysore Congress Legislature Party for some years; Pres. and Dir. of a number of co-operative institutions; member: Indian Red Cross, Gunamba Maternity and Child Welfare Trust; Chairman, Board of Visitors of the Krishnarajendra Hospital and various Social Service organizations. *Publications:* Writes to journals and newspapers occasionally. *Recreations:* Tennis, Walking. *Address:* 'Narayana Vilas', K. R. Mohalla, Mysore.

SIVARAM, Madhavan, Director of News Services, All India Radio. *b.* Nov. 14, 1907; *Educ.:* H.H. the Maharaja's Coll., Trivandrum. Took up journalism at the age of twenty, worked in a number of newspapers in India, Malaya and Far Eastern countries; Editor, *Bangkok Chronicle*, 1936-42; associated with I.N.A. movement during war-time; served in Rangoon, Singapore, Bangkok, Saigon, Tokyo and other centres; joined Reuters after the war; served as Manager and Chief Correspondent in Burma, Thailand, Indo-China, etc.; joined P.T.I. as Foreign Editor, 1949; posted as Special Correspondent in Korea, Japan, Egypt and the Middle Eastern countries; Editor, *Free Press Journal*, Bombay, 1953-55. *Publications: The New Siam in the Making* and other books on Far Eastern countries. *Recreations:* Reading, Study of languages. *Address:* No 15, Shan Nagar, New Delhi.

SIVASUBRAMANIAN, L. R., M.L. (Madras), Professor and Dean, Faculty of Law, University of Delhi, since July 1947. *b.* July 31, 1899. *Educ.:* S.P.G. College, Trichinopoly; Law College, Madras; L.C. Miller Gold Medallist. Practised till 1927; Reader in Law, 1927-38, Dean, Faculty of Law, Banaras Hindu Univ., 1939-47; member, U.P. and Rajasthan Univs. Legal Education Cttees.; Sectional Pres., All-India Law Conference, Hyderabad; member of Court, Council, Senate and Syndicate, Banaras Univ. for several years; member, Law Faculties of Allahabad, Banaras and other Univs.; Advocate, Supreme Court; travelled extensively in U.S.A., visiting and lecturing at several leading law Schools and studying organization of legal education, research and the judiciary; travelled widely in England and Europe visiting several Univs. *Publications:* Several articles—*e.g.*, *Theories of Punishments*, *Reorganization of Legal Education*, *Hindu Law Reform*, etc., etc. *Address:* 8, Cavalry Lines, Delhi-8.

SOHAN LAL, Lala. *b.* Sept. 15, 1907. President, The Indian Bureau of Parliamentary Studies, New Delhi; President, the Indo-Egyptian Friendship Society, New Delhi; Member, Legislative Assembly (Punjab), 1936-46; member, City of Lahore Corporation, 1933-37. Chairman, Eastern Woollen Mills Ltd., Bombay, New Indian Industries Ltd., Bombay, Peshawar Electric Supply Co. Ltd., Delhi. *Address:* 16, Golf Link Road, New Delhi 3.



SOKHEY, Maj.-Gen. Sir Sahib Singh, Kt. (1946), I.M.S., M.A., B.Sc., M.D. (Edin.), D.T.M. & H. (Lond.), Fellow, Indian Academy of Sciences; Fellow, National Institute of

Sciences of India. *b.* Dec. 15, 1897; *Educ.:* Govt. College, Lahore, Edinburgh Univ., London Hospital Medical College, Trinity College, Cambridge, Johns Hopkins Univ., Harvard Univ. and Toronto Univ. Joined I.M.S., 1918; served in World War I, 1915-21; Rockefeller Foundation Fellow, 1923-25; joined Haffkine Institute, 1925 as Asstt. Director; Director, 1932-49; Director (Production), Haffkine Institute, Dec. 1949—March 1950; Asstt. Director-General, World Health Organization, 1950-52; President, Assoc. of Scientific Workers of India, 1952; nominated member of Parliament (Rajya Sabha), 1952-56; Won Stalin Peace Prize, 1953. *Publications:* Scientific papers in various science journals. *Address:* C/o Haffkine Institute, Bombay 12.

SOMAN, Rear-Admiral Bhaskar Sadashiv, Flag Officer, Bombay. *b.* March 30, 1913; *Educ.:* Tilak Vidyalaya run by the Indian National Congress; Chintamanrao High School, Shahapur, Sangli State; Sardar High School; I.M.M.T.S. "Dufferin". After completing Dufferin Training, was selected for the R.I.M. Training in U.K. for two and a half years and returned to India as Sub-Lieutenant, Sept. 4, 1934; promoted Lieut., 1937 and Lieut. Commander, 1945; Acting Commander, 1946; acting Captain, 1947. *Address:* Northbrook House, Bombay 1.

SOMANI, Gajadhar, M.P., Industrialist and Millowner. *b.* April 1908; *Educ.:* Shree Vishudhanand Vidyalaya, Calcutta. Re-elected Member of Parliament as a Congress candidate in the General Elections, 1957; Ex-Chairman, Bombay Millowners' Assoc.; Pres., all-India Organisation of Industrial Employers, New Delhi; ex-Pres., Rajasthan Chamber of Commerce & Industry, Jaipur; is on the Executive Cttee., Federation of Indian Chambers of Commerce & Industry, New Delhi; Director on the Board of various companies; is connected with several religious, social and educational institutions; is a member of three Consultative Cttees. of Parliament, viz. of the Ministries of Finance, Commerce and Industry, and Planning; has been appointed: Chairman, Investigation Cttee. set up by the Ministry of Commerce & Industry to investigate into the affairs of four textile mills, member of a small Cttee. set up to review the working of the National Development Corporation and member, Central Advisory Board for Salt; is Chairman, Textile Industry Enquiry Cttee. set up by the Govt. of Rajasthan. *Address:* Shreeniwas House, Waudby Road, Fort, Bombay 1.

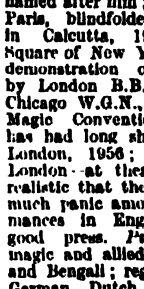


SOMASUNDARAM (Somu), M. P., Vidwan (Madras Univ.), Tamil poet and short story writer; Producer, Spoken word, A.I.R., Madras. *b.* June 17, 1921; *Educ.:* M. D. T. Hindu Coll., Tirunelveli; became Vidwan of the Madras Univ. with Tamil language and literature as special subjects. Is popularly known by his pen name 'Somu'; served in the A.I.R., Trichi in different capacities in programme, production and administration [illegible] 1941-56; Editor, *Kalki*, one of the [illegible] weeklies in Tamil, 1954-56; [illegible] the Thamizh Gold Medal, 1953, the [illegible] in the All-India Tamil short story, [illegible] 1956, the Madras Govt.'s Poetry [illegible] is also adeepte of Rajaji; [illegible] philosophy of Siddhas; also [illegible] Hindi and English. Publications: [illegible] of short stories, two [illegible] books of essays and [illegible]; 191 Lloyd Road, [illegible]

SORCAR, Pratul Chandra, Magician. *b.* Feb. 23, 1913, at Tangail, Eastern Pakistan; *Educ.:* Calcutta Univ. upto B.A. with Maths. (Hons.). Represents in his person the seventh generation of a family of magicians; took to magic before he was conscious of it; celebrated his Silver Jubilee as exponent of natural magic and prestidigitation, 1951; has by his stage performances and writings brought to the public the cultural and international appeal of the art of Indian magic; holder of the "Sphinx" Gold Award (the 'Nobel Prize' of Magic) from New York for the world's best stage magic and is the only magician in the world today to have received this coveted award twice; hailed as "World's Greatest Magician" in Germany and awarded Royal Medallion and the Golden Laurel; Hon. Member of the very exclusive Magicians' Club, Tokyo (Japan), being the first non-Japanese, Asian or European, to receive this honour; Leicester Magic Circle (England); Cercle de Prestidigitation (Belgium); *Magischer Zirkel von Deutschland* (Germany); Hon. Member of degree 'Maitre Magicien,' in AFAP (Association Francaise du Artistes de Prestidigitation, Paris); Pres., All-India Magicians' Club, Calcutta; the Calcutta Branch of the International Brotherhood of Magicians, U.S.A. the "P.C. Sorcar Ring" is named after him; cycled on Place de l'Opera, Paris, blindfolded and hooded, 1950 and in Calcutta, 1936; also in the Times Square of New York City in June 1957; his demonstration of such powers televised by London B.B.C., New York N.B.C. and Chicago W.G.N., 1950; performed at World Magic Convention (Chicago), May 1950; has had long shows in Paris, 1955 and in London, 1956; some of his shows in London at theatre and on TV—were so realistic that they are said to have created much panic among the viewers; his performances in England have always had a good press. *Publications:* 16 works on magic and allied subjects in English, Hindi and Bengali; regular contributor to French, German, Dutch, Belgian, Spanish, English and American magic journals; only magician in India to be invited regularly during the past 18 years to speak on magic over A.I.R. Radio Network and Radio Pakistan. *Recreation:* Magic. *Address:* "Indrajal," 12-3A, Jamir Lane, Ballygunj, Calcutta 19, West Bengal.



SREENIVASAN, M. A., Retired Prime Minister, Gwalior State, and Retired Minister, Mysore State. *b.* Sept. 20, 1897; *Educ.:* Hindu High School, Madras and Central Coll., Bangalore. Entered the Mysore Civil Service, 1917. Served in practically all departments of Government including Revenue, Judicial, Finance and Audit, Army, Industries, Local Administration and the Secretariat; Financial Adviser, Hydro-Electricity Department, 1925-28; deputed to Europe and America in connection with the Mysore State business in London and New York, 1928-30; was later deputed to report on the economic and social conditions of labour in the Kolar Gold Field, 1931; special duties in the Industries Dept. to rehabilitate and manage the Sri Krishnarajendra (Textile) Mills, Mysore, 1931-34; Deputy Commissioner and President, City Municipal Council, and Chairman, City Improvement Trust Board, 1935-39; Govt. Director, Industrial Concerns 1939-40; services lent to the Govt. of India during the war as Controller of Supplies, South India, May 1940; Minister for Food, Industries, Civil Supplies, Forests, and Mining, Mysore, 1942-45; Chairman, Mysore



Iron and Steel Works, Board of Industrial Research, 1945-46; Minister for Agriculture, Local Self-Government, Army, etc., 1947-48; Vice-President, Executive Council, Gwalior State and Member, Constituent Assembly, Council of Ministers, States Negotiating Committee, Union Constitution Committee; Director, Buckingham & Carnatic Co., Consolidated Coffee Estates (1943) Ltd., Coffee Lands & Industries (Mysore) Ltd., The Indian Cable Co., Ltd., The Indian Oxygen Ltd., Rallis India Ltd., etc. *Address:* High Ground, Bangalore.

SREENIVASULU, K., Diploma in Fine Arts (First Class), Painter; Director of Arts, Besant Theosophical School, Adyar, Madras. *b.* Jan. 6, 1923. *Educ.:* Graduated from school of Arts, Madras, 1943. Artist; nominated representative of Madras State on the General Council of Lalit Kala Akademi, 1956-57. *Recreations:* Games and Sports. *Clubs:* All India Arts and Crafts Society. *Address:* B.T.S., Adyar, Madras 20.

SRI KRISHNA, Dr., C.I.E. (1942), Ph.D., D.Sc. (Lond.), F.N.I., has been Scientific Adviser and Scientific Liaison Officer to the Indian High Commission, London. *b.* July 1906 at Lahore; *Educ.:* Punjab Univ.; D.S.I.R. (England) Research Scholar, 1919-21; Queen's College, London; King's College, London. Elected Fellow of the Royal Institute of Chemistry, 1925; Research Assistant, Chemistry Dept., King's College, London, 1924; appointed Reader in Organic Chemistry, Punjab Univ., 1925; appointed Biochemist, Forest Research Institute, Dehra Dun, 1928; elected Foundation Member of the National Institute of Sciences, India, 1937; elected Pres., Chemistry Section, Indian Science Congress, 1940; appointed Vice-President, Forest Research Institute & Colleges, Dehra Dun, 1947; represented India at the Fifth Empire Forestry Conference, London, 1947; Leader of the Scientific Delegation to Australia, 1948; Director of Forest Research, Forest Research Institute & College, Dehra Dun, 1948-50. *Publications:* Over a hundred publications, mainly on plant products. *Recreation:* Tennis. *Address:* C/o The High Commission of India, India House, Aldwych, London, W.C. 2; 88, Rajpur Road, Dehra Dun, U.P.

SRI RAM, Nilakanta, B.A. (Madras), President, Theosophical Society. *b.* Dec. 15, 1889; *Educ.:* Madras. Worked with Dr. Annie Besant on her newspaper, *New India*; 1919-20 and 1923-32; was on the *Leader* staff for a short time, 1922-23; has been Secy., Treasurer and Vice-Pres., Theosophical Society; elected international Pres., Feb. 1953; has been travelling abroad, lecturing and writing. *Publications: An Approach to Reality, A Theosophist Looks at the World, The Human Interest, Man, his origins and evolution*, etc. *Address:* Theosophical Society, Adyar, Madras 20.

SRINIVASAN, C. R., Honorary Editor and ex-Managing Director, *Swadesamitran*, Madras. *b.* Nov. 28, 1889; *Educ.:* Presidency Coll., Madras; travelled widely in India for business contacts, 1910-15; Manager and Assistant Editor, *Swadesamitran*, 1915-28; Editor, from 1928; also Managing Dir. from 1934; retired as Managing Director of the Swadesamitran Ltd., Dec. 1, 1955; devoted special attention to the study of problems relating to Banking, Industry and Commerce and presided over several Conferences on these subjects in Madras State; Pres., Local Board, Reserve Bank of India from its inception; Dir., Central Board, from 1937; Pres. of the Indian & Eastern Newspaper Society for the year 1953-54; Chairman of the A.B.C. for 1957; Chairman of the Bharat Line Ltd., Bombay; East India Distilleries Ltd.; Kirloskar Electric Co., Ltd.; Parry's Confectionery Ltd.; General Papers Ltd.; Board of Deccan Sugars Ltd.; Cauvery Spinning & Weaving Mills Ltd.; Tirupati Cotton Mills Ltd.; Indian Steel Rolling Mills Ltd.; Vasant Soap Works Ltd.; Dir. of the

Board of Cauvery Sugars & Chemicals Ltd.; Kumbakonam Electric Supply Corporation Ltd.; Nagapatam Electric Supply Co., Ltd.; etc.; Pres. of the All-India Newspaper Editors' Conference for the years 1949-50 and 1951-52; presided over several journalistic conferences; member, Executive Cttee., I.E.N.S.; visited Burma, Ceylon and Malaya for cultural contacts; Europe, 1948 and 1949; visited U.K., 1956; Canada and U.S.A., 1960. *Publications: Standards and Values; A.B.C. Talks*, in English and *The Balance* in Tamil. *Address:* "Swadesamitran," Madras.

SRINIVASAN, Kasturi, B.A., Padma Bhushan, 1956, Editor, *The Hindu*, Madras. *b.* Aug. 1887; *Educ.:* Graduated from the Madras Presidency Coll. Joined *The Hindu* as Manager and assumed Editorship in February 1934; President, All-India Newspaper Editors' Conference (1940-44); Chairman, Indian Section of the Empire Press Union, 1943-45; President, Indian and Eastern Newspaper Society, 1947; Chairman, Press Trust of India Ltd., 1947-52; Member, Executive Board of the International Press Institute. *Address:* Sabarmati, Mowbrays Road, Madras 18.

SRIVASTAVA, J. K., B.Sc. (Tech.), A.M.C.T. A.T.I. Chief Business Executive, Sir J. P. Srivastava Group of Mills. *b.* Nov. 13, 1913; *Educ.:* Philander Smith College, Naini Tal; Grimes Tutorial School, Manchester; College of Technology, Univ. of Manchester. Training in Mills and Works in Europe; Liverpool Cotton Exchange. Pres., U.I.C.C., 1957; Deputy Pres., Associated Chambers of Commerce of India; ex-Pres., U.P. Chamber of Commerce; ex-Chairman, Employers' Assoc. of Northern India; member: Zonal Advisory Board of Life Insurance Corporation of India; State Planning Board, State Part Finding Cttee., Indian Central Cotton Cttee., representing the U.P. Mills; M.L.A. representing the U.I. Chamber of Commerce, 1946-52; All India Council for Technical Education and Northern Regional Cttee., Govt. of India. All India Board of Technical Studies in Management; Central Employment Advisory Cttee.; All India Cttee. for Higher Technical Education Abroad; Zonal Rly. Users' Consultative Cttee. (Northern Rly.), New Delhi; State Advisory Cttee. for Promotion of Organised Industries; States Savings Advisory Cttee.; Board of Industries, U.P.; Chairman, Local Advisory Board of the Central Bank of India; member; Posts & Telegraphs Advisory Cttee., Lucknow; Ad Hoc Cttee. on the Manufacture of Textile Machinery, Govt. of India, Bombay; Member: Advisory Cttee., Delhi School of Economics; The Advisory Cttee., Hewett Engineering School, Lucknow; was Leader of the Indian Delegation to the International Organization for Standardization, U.S.A., 1952; Delegate, International Chambers of Commerce, Paris, 1950; holds Patent Right for invention of a process for the production of book binding cloth and sulphur burning. *Director:* Jagatjit Cotton Textile Mills Ltd., Phagwara; Concord of India Ins. Co. Ltd., Calcutta; The Pioneer Ltd., Lucknow; Hazrib & Bengal Collieries Ltd., Calcutta; Orient Engineering & Commercial Co. Ltd., Calcutta, Recreations: Tennis, Golf, Shooting, Riding, Clubs: Rana Tennis Club Ltd., Naini Tal; Connaught Club Ltd., Kanpur; Delhi Gymkhana Club, New Delhi. *Address:* Kalagarh, Ramganga Kanpur.

STAINES, Eric Henry, Managing Director, T. Stanes & Co., Ltd., Coimbatore, since 1939. *b.* April 4, 1897, at Coonoor, S. India; *Educ.:* Mounton Combe School, England. Served as a Lieut. in the 1914/18 War, in the Manchester Regiment, R.F.C. and R.A.F.; awarded Military Cross, 1918; after one year in Mincing Lane, joined T. Stanes & Co., Ltd., 1920; member, Indian Coffee Board, since 1941; Pres., United Planters Assoc. of Southern India 1951-52; Chairman, Associated Companies, which now include: The United Nilgiri Tea Estates Co. Ltd; Stanes Amalgamated Estates Ltd.; The United Coffee Supply Co. Ltd.; Stanes Motors (South India) Ltd.; The Indian Cashewnuts & Plantations Ltd. *Clubs:* Coimbatore, Ootacamund, Bangalore and East India and Sports Club. *Address:* P.O. Box 12, Coimbatore.

SUBBARAO, Mr. Justice K., B.A., B.L., Judge, Supreme Court, since Jan. 31, 1958. *b.* July 15, 1902; *Educ.:* Govt. Arts Coll., Rajahmundry; Law Coll., Madras. Practised in Madras High Court from 1926; Judge, Madras High Court, March 1948-July 1954; Chief Justice, Andhra High Court, Guntur, July 5, 1954-Oct. 31, 1956; Chief Justice, Andhra-Pradesh High Court, Nov. 1, 1956-Jan. 1958. Chancellor, Sri Venkateswara Univ., 1954-55 *Club:* Cosmopolitan Club, Madras. *Address:* Supreme Court, New Delhi.

SUBBARAO, Rayaprolu, Sahitya Sthapaka (1947), Telugu Poet; Head of Telugu Dept., Sri Venkateswara University, Tirupati. *b.* March 1896; *Educ.:* Nizam Coll., Hyderabad; Shanti Niketan. Joined Osmania Univ., as Head of the Telugu Deptt., 1920; Principal, Univ. Coll., Warangal, 1947-50; presided over the All Andhra Poets and Pandits Conference, Rajahmundry, 1940; Jt. Pres., Navya Sahitya Parishad; Founder Pres., Hyderabad Telugu Academy, 1950. *Publications: Lalita*, Poetic work (1909), *Thrinetrakeshan*, pure lyric (1913); *Kashitakamul; Swapna Kumar; Telugu Tota; Jada Kuchulu; Andhravali; Vemanmala; Ramya Lokam; Madhuri* and *Kanne Palaka* (verses and songs); *Roopa Nemanthan*, drama (1953). *Recreations:* Morning Walks, Reading and Writing. *Address:* Lalita Kutir, 44, Nehru Nagar, Secunderabad, Andhra Pradesh.

SUBBARAYAN, Dr. Paramasiva, M.A., B.C.L. (Oxon.), LL.D. (Dublin), M.P., Zamindar of Kumaramangalam; ex-Chief Minister, Madras. *b.* Sept. 11, 1889; *Educ.:* Newington School, Madras, the Presidency and Madras Christian Colleges and Wadham College, Oxford. Was Council Secretary for a few months in the first reformed Legislative Council; has been a member of Madras Legislative Council representing South Central Landholders from 1920; Chief Minister, Government of Madras, 1936-39; elected to the Madras Legislative Assembly unopposed for Tiruchengode rural; member, A.I.C.C., 1930 and 1937-39; Minister for Law, Madras, 1937-39, and 1947-48 p, Indian Ambassador to Indonesia, 1948-51; member, Rajya Sabha, 1954-57; member Lok Sabha. *Address:* Tiruchengode, Salem District.

SUBRAHMANYAM, G., B.A., B.L., Minister for Finance, Education and Law, Madras State. *b.* Jan. 20, 1898, at Madras. Commenced legal practice in Madras in 1921; joined the Congress movement in 1921; was imprisoned for participating in Civil Disobedience movement in 1930; was elected to the Madras Legislative Assembly in 1937; was Secretary, Congress Legislature Party, 1937-39; was imprisoned for participating in Quit India movement in 1942; was elected to the Constituent Assembly, 1946-52; elected M.L.A., Madras, from the Coimbatore City constituency, Jan. 1952; again elected to the Madras Assembly, 1957. *Address:* Minister for Finance and Education, Govt. of Madras, Fort St. George, Madras 9.

SUBRAMANYA, T., B.A., LL.B.; Minister for Law, Labour and Local Govt., Mysore, since May 1958. *b.* July 2, 1896; *Educ.:* Central Coll., Bangalore; St., Aloysius Coll., Mangalore; Law Coll., Bombay. Entered the Bar and joined Congress, 1921; courted jail during freedom movement; Pres.: Mysore State Congress, 1942-45; Mysore Constituent Assembly, 1948-49; Mysore State Charkha Sangh, since 1946; Karnatak Hindi Prachar Sabha, since 1950; M.L.A., Mysore, 1950-52; was Chairman, Mysore Leg. Council, after the formation of the new Mysore State; again elected M.L.A., Mysore, 1957. *Address:* Bangalore.

SUBRAMANYAM, Palghat Ramakrishna, M.A., Stock, Share and Finance Broker. *b.* 5th June 1909 in Palghat; *Educ.* in Mysore; obtained first rank in B.A. Degree Examination held by the Mysore University with Mathematics, Economics and Statistics as optional subjects, in 1929; was the recipient of four gold medals; was a merit scholarship holder in the B.A. as well as M.A. classes; passed M.A. Degree with distinction with advanced Mathematics, Statistics and Mathematical Economics as his special subjects. Joined Messrs. Batlivala and Karani, as Statistician, Investment Consultant and Sub-broker, 1933; after serving them for a period of eight years and three months, was elected a member of the Bombay Stock Exchange on October 7, 1941 and started independent business as a Stock, Share and Finance Broker on November 28, 1941; as an Underwriter, has been responsible for placing several issues on the market (Total Issued Capital of about Rs. 5 crores); Director of several Joint Stock Companies. *Address:* 70-A, Stock Exchange Building, Apollo Street, Fort, Bombay.



SUKHADIA, Mohanlal, L.E.B. (Bombay), Chief Minister, Rajasthan, since Nov. 13, 1954; became Chief Minister in charge of Industries, General Administration, Education, and Planning and Co-ordination, of Greater Rajasthan from Nov. 1, 1956 after the integration of the former State of Ajmer and certain other areas into Rajasthan. *b.* July 31, 1916; *Educ.:* Nathdwara (Udaipur) and Bombay. Actively associated with the activities of the Praja Mandal of the former Mewar State, from 1939. Imprisoned during 'Quit India Movement'; Minister for Civil Supplies, P.W.D., Relief & Rehabilitation, Mewar State, became Development Minister when the State of Rajasthan was first formed; elected to the [illegible] Assembly from Udaipur, [illegible] Minister for Civil [illegible] Relations, April 28, 1951; [illegible] for Agriculture, [illegible] Co-operation, [illegible] March 1, [illegible] Cabinet, [illegible] Publication and social [illegible] and social [illegible]; 8, Civil [illegible]



[illegible], B.Sc., [illegible], F.N.I., [illegible] and [illegible] United

Nations, Rome, since Aug. 1951 *b.* July 27, 1911; *Educ* Fergusson College, Poona, University College, London, Galton Laboratory, London; Rothamsted Agricultural Experimental Station, Harpenden Statistical Adviser, Indian Council of Agricultural Research, 1940-51; *Publications*, Co-author with Dr V. G Panse of the book on 'Statistical Methods for Agricultural Workers' published by the Indian Council of Agricultural Research, 1955 *Sampling Theory of Surveys*, also author of several original research memoirs *Address* Rome Italy

SUKTHANKAR, Yeshwant Narayan, CIE (June 1941), BA, LLB, Bar-at-Law (Lincoln's Inn), ICS (Retd), Governor of Orissa, since Aug 1, 1957 *b* Aug 28 1897, *Educ* Bombay and Cambridge Universities Joined the Indian Civil Service 30th October, 1922, served in Madhya Pradesh as Asstt Commissioner, Offg Deputy Commissioner, April 1927 Under Secy, to Govt, Madhya Pradesh Oct 1932 Offg Revenue Secy to Govt Madhya Pradesh June 1933 Deputy Indian Trade Commissioner July 1934, acting Indian Trade Commissioner Oct 1934, and again, Sept 1935 Deputy Secy Commerce Dept, Govt of India July 1937 Deputy Commissioner (confirmed) August 1937, Tea Controller for India Oct 1939 Secy, Commerce Dept, Govt of India Aug 1946-Aug 1947 Secy Ministry of Transport Aug 1947-Dec 1951 Secy Commerce and Industry Ministry Dec 1951 Dec 1952 Special Secy, Cabinet and Secy Planning Commission, Dec 1952 May 1953 Cabinet Secretary and Secy, Planning Commission Govt of India, 1953 57 *Recreations* Long walks, Reading *Club* Delhi Gymkhana *Address* Governor's Camp Orissa



SUMATI Morarjee, Smt., Chairman Indian National Steamship Owners Association *b* March 13, 1909, *Educ* Privately Director Managing Cttee., The Scindia Steam Navigation Co, Ltd, Kamal Shipping Co, Ltd, The Eastern Bunkerers Ltd, Narottam & Pereira (Private) Ltd, Member of Cttee: Indian Merchants' Chamber; Swadeshi League, Sea Cadet Council, All India Handicraft Board Regional Handicrafts Design Centre, (Governing Body) Training Ship "DUFFERIN", National Cadet Corps. *Hobbies* Collecting ancient curios, Art and Paintings; Gardening, Cows *Address* Palm Beach, Gandhi Gram, Juhu, Bombay 23



SUNDARAM, Muthur Vaidyanath Kalyan, M.A. (Hons) (Madras Univ), ICS, Chief Election Commissioner, Govt of India Jan. 1, 1954; *Educ* Coimbatore Coll; Presidency College, Madras and Christ's College, Cambridge Appointed to the I.C.S., October 1927, served in Madhya Pradesh as Assistant Commissioner, District Judge and later as Registrar of the Nagpur High Court, 1937-38; Reforms Officer of the Govt of India, 1938-39; Legislative Department of the Govt of India, 1939-43; acted as Election Commissioner, 1953; Secy, Ministry of Law, 1943-53 *Club*, Delhi [illegible] *Address*: Ministry of Law, New

[illegible] Raghu, M.A. (Madras), Ph D [illegible] Madras Academy of Inter- [illegible] (1951), Editor, *Commerce* [illegible] Delhi; Ex-M.P. has been [illegible] States Conferences & [illegible]; Noble Coll., Masuli- [illegible] Chairman of the [illegible] (1954); member, Indian [illegible] Assembly of the [illegible] Human Rights Com- [illegible] of Politics and Economics Andhra Univ investigated the conditions of life and work of Indian resident communities in Ceylon Malaya Siam Indo China and Burma Pres All India Linguistic States Conference 1952 53 and 1953 54 member Foreign Affairs Group of the Prime Minister (1952 1953 two terms) *Publications India in World Politics* (1944) *India's Armies and Their Costs* (1946) *Nationalism and Self Sufficiency* (1944) *A Secular State for India* (1944), *Indians Overseas* (1943) *Mughal Land Revenue System* (1930) *Cow Protection in India* (1927), etc, etc *Recreation* Chess *Address* Pavani Kutir, Mahasanipeta P O, Visakhapatnam

SUNDARAM, Tribhuvandas Purushottamdas Luhar, Bhasha Visharad" (1929) Gujarati Poet Short Story Writer and Critic *b* March 22 1908 *Educ* Gujarat Vidyapith Ahmedabad *Publications* —Poetry *Kadva Vans Kavya Mangala Rang Rang Vadalian, Vaudha Yatra* Short Stories *Hirakana & Other Stories Pyaas, Unnayan* Travel *Dakshinayan* Criticism *Avachin Kavita* Biography *Maha Yogi Sri Arvind* Translations *Mruch chhakatik Address* Sri Aurobindo Ashram, Pondicherry

SURJIT, Harkishan Singh, Political Worker Secretary Punjab State Cttee Communist Party of India since 1951 *b* April 4 1916 *Educ* Khalsa High School Bundala Doaba Khalsa High School Jullundur Joined Nav Jiwan Bharat Sabha 1931 courted jail for four years in the 1932 national struggle joined Congress 1934 C S P 1935 at I Communist Party 1936 held offices in the Congress and C S P at District level worked underground 1939 40 and 1948 52 was detenu 1941 44 founded Kisan Sabha along with others in Punjab 1937 *Publications Future of Kashmir* in English and many pamphlets on current subjects in Punjabi and Urdu *Address* Punjab State Cttee Communist Party of India Nehru Gardens Road Jullundur City

SWAMI Ranganathananda, Secretary, Ramakrishna Mission New Delhi since Oct 1949 *b* Dec 15, 1908 a Sanyasin of the Ramakrishna Order of Monks joined the Ramakrishna Mission, Mysore in 1926 took orders in 1933 served as Secy & Librarian of the Ramakrishna Mission Society Rangoon July 1939 to Feb 1942, President, Ramakrishna Math and Mission Branch at Karachi Aug 1942 to Aug 1948 *Address* New Delhi 1

SWAMI, Rishi Deo, BA LLB Vakil *b* March 19, 1912, at Meerut City *Educ* D N Inter College Meerut Meerut Coll, Meerut Secy, Shram Dan as organised by the College under the U P Govt scheme 1953 General Secy 1953, Vice Pres, 1954, Legal Adviser 1956, Group Leader and Ward Commander U P P R D, Opposition Leader, Meerut Coll Union Assembly, Senior Prefect, Proctorial Staff, Sergeant, P E C, Hony Secy and Treasurer, Independent Heroes Club, Meerut, for 7 years; was Asstt Camp Director, Combined Camp Ambulance and Nursing Brigade No VII (U P District), has held responsible posts like Chief Camp Officer, Camp Commandant, Camp Administrative Officer in social service camps of the Bharat Sevak Samaj, Convenor, Bharat Yuvak Samaj, Hon News Correspondent, *Sunday Times* English Weekly and *Prabhat*, Hindi Daily, 2nd class Hockey Umpire, U P Sports Control Board; member Bar Assoc. and Service Civil International, Founder and Gen Secy, Students' Social Service Assoc of India, since 1955, participated in the World Assembly of Youth Camp at Bandargrama (Ceylon), 1957. *Address*: Western Kutchery Road, Meerut.



SWAMI Sambuddhananda, President, Sri Ramakrishna Ashram, Bombay, since 1938 *b* 1891, Monk of the Order of the Ramakrishna Math and Mission, *Educ* Calcutta Member Board of Trustees Belurmath Calcutta, Governing Body, Ramakrishna Mission, Belurmath, Calcutta, since 1947, Sheriff's Ramdas Relief Fund and Exec Com Sir Byramji Jeejeebhoy (Western India Society for the Protection of Children) Institute for the Orphans Pres Ramakrishna Vivekananda Centre Dadar Bombay *Publications Vedic Prayers The Message of the Himalayas, Kathopanishad Vedanta through Stories Kurukshetra Bhagavadgita Hamarasti Uma Address* Khar, Bombay 21

SWAMI Sivananda Saraswati, Founder President The Divine Life Society Rishikesh *b* 1886 Practised medicine in Malaya performed Tapas in Swarg Ashram (near Rishikesh in the Himalayas) for over 12 years established the Divine Life Society and 300 Branches in all countries founded the Yoga Vedanta Univ for training students in Yoga and Indian Philosophy carries on dynamic work through correspondence press and platform for attaining health and longevity, spiritual progress universal brotherhood and world peace the Sivananda General Hospital renders useful service to the people in the local village and thousands of pilgrims to Hardwar, Rishikesh and Badri Kedar *Publications* over 200 books on Yoga Health and Indian Philosophy in English and other languages *Address* P O Sivanandanagar, Rishikesh (Himalayas)

SWAMINATHAN, G., Joint Secretary, Ministry of Finance Govt of India, since Sept 1955 *b* December 25, 1907, *Educ* Presidency College, Madras Indian Audit Dept (1930), joined the Finance and Commerce Cadre as Under Secretary, Government of India Commerce Dept (1940), Deputy Secretary, Commerce Dept (1945), Deputy Secretary Finance Dept (1946), Secretary Central Board of Revenue (1947 48), Secretary, Indian States Finances Enquiry Committee (1948 49) Joint Financial Adviser, Food (1949) Officer on Special Duty and ex Officio Joint Secretary to Government Ministry of States (1950), Jt Secy, Ministry of States 1951 54 Jt Secy, Ministry of Home Affairs 1954 55 *Address* 1, Akbar Road, New Delhi

SWARUP, Virendra, BA, LLB, Journalist and Advocate *b* July 25, 1921 *Educ* D A V College Kanpur awarded the Rameshwar Prasad Bagla Gold Medal for being first in order of merit at the LLB (Final) Examination, Agra Univ, 1947 also awarded the Nikkishore Mehra-Durrant-Haythornthwaite Silver Medal for proficiency in Criminal Law Special Representative at Kanpur of the *Pioneer*, a leading English Daily of U P July 1946 Oct 1954, joined the bar, 1949 Correspondent of the *Statesman*, since Nov 1949 elected member, Kanpur Municipal Board (now superseded) to represent Upper India Chamber of Commerce Sept 1951, elected Chairman, Finance Buildings and Compulsory Education Cttees of the Board several times Secy, D A V Coll Trust and Management Society, U P, Kanpur member, Agra Univ 1955, member, Commerce and Curriculum Cttees of the Board of High School and Intermediate Education U P since 1952 and elected to the Board from Agra Univ, Dec 1956, elected Pres, Kanpur Cricket Assoc, May 1954, Indian Academy of World Culture, July 1954, elected Senior Vice-Pres of the Kanpur District Sports Assoc, Dec 1954, elected a member of the U P Legislative Council, May 1956 from Graduates Constituency. *Recreations*, Poetry, Cards, Tennis. *Address*: Civil Lines, Kanpur.



TAGORE, Rathindranath, B.Sc. (Illinois), Ex-Vice-Chancellor, Visva Bharati. *b.* Nov. 29, 1888; *Educ.:* Santiniketan and Univ. of Illinois. General Secretary, Visva Bharati Society; retired as Vice-Chancellor, Visva Bharati Univ., 1953. *Publications: Prantatwa* (A book on biology in Bengali); *Aviryaktibad* (A book on the Theory of Evolution in Bengali). *Recreations:* Artistic Leatherwork, Artistic Woodcraft and Painting. *Address:* "Uttarayana," P.O. Santiniketan, Dist. Birbhum (West Bengal).

TALUKDAR, Daiba Chandra, Assamese Novelist. *b.* Sangkranti day of Falgun and Chaitra, 1900, at Gauhati; *Educ.:* Studied upto B.Sc.; secured scholarship in Upper Primary, Matriculation and I.A. examinations, Calcutta Univ. Took active part in the Students Conference, Assam; was Editor, *Janma Bhumi* magazine; organised Non-Co-operation Movement, 1920 and boycott of students; Proprietor of Asok Printing Press. *Publications:* More than 100 books in Assamese (poems, novels, plays, stories); a comprehensive history of Assam; *Apurna*, novel (M.A. Text, Gauhati Univ.); *Bemuin Kowar*, a play (I.A. Text.); some of his books are still in manuscript; *Saundarya*, a poem was also a text for I.A. *Address:* Gauhati, Santipur, Assam.

TAMBE, Mr. Justice Yeshwant Shripad, B.A., LL.B., Judge, High Court, Bombay, since Sept. 1957. *b.* July 31, 1904; *Educ.:* Elphinstone College, Bombay; Govt. School of Law, Bombay. *Clubs:* C. P. Club, Nagpur; Gondwana Club, Nagpur. *Address:* Civil Lines, Nagpur.

TANDON, Purushottamdas, M.P., Ex-President, Indian National Congress. Practising Lawyer in Allahabad till 1921, when he gave up practice to take part in Non-Co-operation Movement; President, U.P. Provincial Congress Committee, 1923; was jailed for one year and a half; worked for some time as Secretary and General Manager, Punjab National Bank, Lahore; joined Servants of People Society, founded by Lala Lajpat Rai in 1920 as President; Chairman, Allahabad Municipality, for several years; took prominent part in Civil Disobedience Movements, 1930 and 1932, and was jailed several times; organised no-rent campaign in U.P., 1932; took active part in Rowlatt agitation and Satyagraha, 1919; elected speaker, U.P. Leg. Assembly, 1937; kept in detention for over 8 months in 1941 and again for over two years, 9th Aug. 1942 to 22nd Aug. 1944; takes active interest in Hindi Sahitya Sammelan; Speaker, Legislative Assembly, U.P., 1946-50; resigned Congress Presidentship, September 1951; was member, Congress Working Committee; Member Rajya Sabha. *Address:* Servants of the People Society, 1-A, Crosthwaite Road, Allahabad.

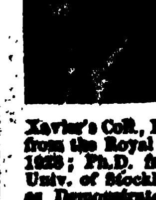
TANDON, Raj Krishna, B.A., LL.B. (Punjab), B.A. (Hons.) (Cantab.), Barrister-at-Law, Joint Secy., Ministry of External Affairs, New Delhi. *b.* Feb. 10, 1910; *Educ.:* Forman Christian College and Law College, Lahore, Emmanuel College, Cambridge and Middle Temple, London. Joined Punjab Civil Service; posted at Amritsar, Ambala and Delhi; in 1942 appointed Under-Secretary and later Deputy Secretary in Information & Broadcasting Department, Government of India; appointed Officer on Special Duty, Commerce Department, Government of India, Feb. 1946; Indian Government Trade Commissioner in Ceylon, May 1946 to July 1948; Dy. Chief Controller of Imports & Exports, Bombay, July 1948-Jan. 1950; Dy. Secy. and Joint Chief Controller of Imports, Ministry of Commerce, Govt. of India, Jan.-May 1950; Consul-General of India in the French Establishment in India, Pondicherry, 1950-54; Acting Commissioner in British East Africa and the Federation of Rhodesia and Nyasaland and Acting Consul General in Belgian Congo and Ruanda Urundi, 1954; Commissioner for the Govt. of India in Singapore and the Federation of Malaya, 1954-57. *Publications:* Articles in various papers. *Address:* C/o Ministry of External Affairs, New Delhi.

TARAPORVALA, Khan Bahadur Cooverji B., Financial Adviser to H.E.H. The Nizam of Hyderabad, since 1949. *b.* September 3, 1896; *Educ.:* St. Xavier's College, Bombay; B.A. (Hons.), 1917; B.Sc. (Distinction), 1918; Dakshina Fellow, Bombay Univ., 1918; Sir James Fergusson Scholar, 1919-20; Certified Associate of the Institute of Bankers, London, 1923. Lecturer, St. Xavier's College, Bombay, 1919-20; joined Imperial Bank, 1921; worked as agent at Sandhurst Road, Byculla, Yeotmal, Godhra and Ujjain branches of the Bank; joined H.E.H. the Nizam's Govt. Service as Assistant Secretary, Finance Department, 1930; Govt. Auditor, Nizam's State Railway, 1938; Deputy Financial Secretary, 1940; Additional Financial Secy., 1945; Financial Secretary, 1946. Dy. Managing Director, Hyderabad State Bank, 1947. *Address:* Meher Manzil, Somajiguda, Hyderabad-Deccan.



TATA, Jehangir R. D., Chairman, Tata Sons Private Ltd. and Tata Industries Private Ltd. *b.* 1904. Joined Tata Sons, Ltd., 1922, as an assistant and appointed Director, 1926; started The Tata Sons Aviation Department, 1932; first Pilot to qualify in India, holding a flying licence since 1929; inaugurated as pilot the Karachi-Bombay Air Mail Service in 1932 and the Bombay-Delhi service in 1937; Chairman and/or Director of all Tata and Associated Companies; also Chairman, Air India International Corporation; Director of Hindustan Aircraft Ltd., Reserve Bank of India; member, Indian Delegation to the Third Session of the United Nations General Assembly at Paris, Sept. 1948; Awards: Hony. Group Capt. in the I.A.F., 1948; Padma Vibhushan, 1955; Legion of Honour, 1954; International Management Citation, National Assoc. of Foremen (U.S.A.), 1958. *Address:* Bombay House, Bruce Street, Fort, Bombay.

TAWDE, Dr. Nanasaheb Ramji, B.A. (Hons.), B.Sc. (Bombay), M.Sc. (Bombay), Ph.D. (Lond.), F. Inst. P. (Fellow of Institute of Physics, Eng.), F.N.I. (Fellow of National Institute of Sciences, India), F.A.Sc. (Fellow of the Indian Academy of Sciences), Professor and Head of the Deptt. of Physics, Karnatak Univ., Dharwar, since 1953; *b.* Jan. 15, 1896, at village Salel (Malvan Taluka); *Educ.:* School education at Dadar, General Education Institute, Dadar; B.A. (Hons.) and B.Sc. from St. Xavier's Coll., Bombay, 1919 and 1922; M.Sc. from the Royal Institute of Science, Bombay, 1928; Ph.D. from Univ. of London, 1933; Univ. of Stockholm (Sweden). Joined service as Demonstrator, Karnatak Coll., Dharwar, 1922; Lecturer, Royal Institute of Science and later Professor of Physics, R.I.Sc., Bombay (Class I); retired, 1953; joined Karnatak Univ. as Professor and Head of Deptt. of Physics, 1953; went on a study tour with Scientists' delegation to U.S.A., deputed by the Union Ministry of Education for six months, 1956-57; was Pres., Physics Section of Indian Science Congress, Lucknow, 1953, and Vice-Pres., Indian Physical Society; Fellow, Univ. of Bombay and one of the [illegible] members, Dufferin Inspection Committee (Govt. of India) and a member of [illegible] Bombay City Corporation; [illegible] member, Physical [illegible] of Scientific and [illegible] in Chemistry, [illegible] member, Academic Council of Univ. of Bombay; member: Senate, Academic Council and Board of Studies, Karnatak Univ.; Council of National Institute of Sciences of India; Board of Studies in Physics at various Indian Univs.; Selection Board for Physics in a number of Univs. *Publications:* About 80 on various modern problems of Physics; Author of *Jeevan Vidnyan* (Science Series) text-books for Marathi Schools. *Recreations:* Tennis; Gardening. *Clubs:* Rotary Club, Dharwar. *Address:* Karnatak University Staff Quarters, Chhota Mahabaleshwar, Dharwar (Mysore State).



TEERTH, Swami Ramanand (formerly Vyankatesh Bhagwant Khedgikar), M.P. *b.* 1903; *Educ.:* M.A. of the Tilak Mahavidyapeeth. Organised labour at Sholapur, 1926-27, vow of Sanyasin in June 1931 at the hands of Narayan Swami, the first disciple of world-renowned Swami Rama Teerth; works for the cause of United Maharashtra; founded Yogeshwari High School, Mominabad; founded the People's Coll. of Arts, Science & Commerce at Nanded; founded Yogeshwari Coll. of Science, Mominabad, 1956; founder, promoter and ex-Pres. of the Hyderabad State Congress; in jail on several occasions; elected to the Lok Sabha, 1952; and again in 1957. *Address:* C/o Yogeshwari Nutan Vidyalaya, Mominabad, Bombay State.

THACKER, Prof. Maneklal Sankalchand, Padma Bhushan (1955), Degree of Doctor of Science (honoris causa) in recognition of his work, Secretary to the Govt. of India, Deptt. of Scientific Research, Ministry of Scientific Research; Director-General, Council of Scientific and Industrial Research, Government of India; Pres., Central Board of Irrigation and Power. *Educ.:* early education in Ahmedabad; graduated in Engineering from the Univ. of Bristol; worked with Dr. D. Robertson in the Deptt. of Electrical Technology of the same Univ.; training and employment with the Bristol Corporation Electricity Deptt., Bristol, England; is the only Indian Fellow of the Institute of Electricals, America. With the Calcutta Electric Supply Corporation, 1932-47; Indian Institute of Science, Bangalore, as Prof. of Electrical Technology and Power Engineering, May 1947 to Aug. 1949; Director, Indian Institute of Science, Sept. 1949-July 1955; Director, Scientific and Industrial Research, and *ex-officio* Addl. Secy. to the Ministry of Natural Resources and Scientific Research, Govt. of India, Aug. 1955-April 1957; responsible for new developments—instrumentation; Fellow and Member of several learned and professional societies both in India and abroad; corresponding Member to International Commissions; Chairman, National Cttees. in respect of various international organisations; has toured extensively in Europe, in the United States, Canada, South America, Australia and other countries; has been invited by several countries for visits and discussions in his capacity as Scientist and Engineer; Member and/or Chairman, several Commissions, Boards and Cttees., relating to scientific and technical education, scientific and industrial research, industrial concerns, and problems of production and management. *Publications:* Author of numerous scientific and other papers and [illegible] in the field of electrical technology, high voltage and power engineering, and the field of energy development. *Clubs:* Calcutta Club; Lake Club, Calcutta; South Club, Calcutta; Bangalore Club and Century Club, Bangalore. *Address:* 4, Kushak Road, New Delhi.

THACKER, [illegible], Deputy Minister for [illegible], Bombay State. *b.* 1911 at [illegible] (Kutch) [illegible] 193[illegible] took active part [illegible] in Kutch; [illegible] of Kut[illegible]

Prajakiya Parishad; revitalised political life in Kutch, 1948-52; was member, Kutch delegation to Home Ministry to discuss the future set-up of Kutch, 1948; was the 1st Gen. Secy. of the Congress in Kutch and also of the Election Cttee. in the 1957 general elections; was mainly responsible for the big victory for the Congress in the elections; was one of the advisers of the Kutch Advisory Council, 1948-52; appointed one of the Advisers to the Kutch Govt., when the first Advisory Council was dissolved, 1952; handled many administrative problems; has always been a staunch supporter of displaced persons; as Adviser to the Kutch Govt., did his best to help solve the problems of settling and rehabilitating displaced persons. *Address:* A/6, Foreshore Road, Bombay 1.

THACKERSEY, Dr. Smt. Premlila Vithaldas, D. Litt. (Banaras Hindu Univ.) and (S.N.D.T. Univ.), Vice-Chancellor, S.N.D.T., Univ., since 1957. *b.* Jan. 8, 1904; *Educ.:* Studied English and Sanskrit at home with the help of learned shastries and professors. Went on a world tour, 1919; began taking interest in social and educational activities, 1935; member, Central Advisory Board of Education; nominated Vice-Chancellor, S.N.D.T. Univ., 1951; elected, 1957; Chairman: Kasturba Gandhi National Memorial Trust; Prof. J. P. Trivedi Memorial Trust; a prominent worker of Vanita Vishram and Lady Northcote Hindu Orphanage; was hostess of Mahatmaji at Poona; owner of Parnakuti where Gandhiji carried on Harijan fast. *Recreations:* Reading. *Address:* Parnakuti, Yeravda Hill, Poona 6.

THAKURDAS, Sir Purshotamdas, K.B.E. (June 1944), Kt. (1923), C.I.E. (1919), M.B.E., Cotton Merchant. *b.* 30th May 1879; *Educ.:* Elph. Coll., Bombay. Member, Indian Retrenchment Committee; ex-Director, Reserve Bank of India; member, Royal Commission on Indian Currency and Finance (1926); delegate to Round Table Conference (1930-33); ex-President, East India Cotton Association; Director, Associated Cement Companies Ltd. *Address:* "Suneeta," Ridge Road, Malabar Hill, Bombay.

THAMPI, Ramavarma Sankaranarayanan, B.A., B.L., Speaker, Kerala Legislative Assembly. *b.* Sept. 30, 1911; *Educ.:* H.H. the Maharaja's Coll. of Arts (now Univ. Coll.), Trivandrum; graduated in Arts, 1936 and in Law, 1938. Set up practice as Advocate in Alleppey Dist. and Sessions Court; became a leading lawyer in two years; was arrested and convicted for political activities in connection with State Congress and the Communist Party; elected twice in succession to the Travancore-Cochin Leg. Assembly. *Recreations:* Dramatic Art; Bridge; Swimming. *Address:* Tharayil Kottaram, Ennackad, Alleppey Dist., Kerala State.

THAPAR, Lieut.-General Pran Nath, General Officer Commanding-in-Chief, Southern Command, since Jan. 21, 1957. *b.* May 8, 1906; *Educ.:* Govt. Coll., Lahore. Commissioned from Sandhurst, 1926; spent nearly ten years with the 1st Punjab Regt.; attended Staff Courses at Quetta and Minley-manor, England; saw service in Burma, 1941; was in the Middle East and Italy, 1943; was Asstt. Military Secy., G.H.Q., India; was selected to serve on the Army Reorganisation Cttee.; was for some time a first grade staff officer with the British Hqrs. at Aden; commanded the 1st Bn., 1st Punjab Regt. in Indonesia, 1946; later commanded 161 Infantry Brigade in East Bengal; Director of Military Operations and Intelligence, G.H.Q., India, Aug.-Dec. 1947; officiated as Chief of General Staff for a few months; Military Secy., Govt. Coll. 1948-Aug. 1949; Master General of Ordnance, Aug. 1949-Apr. 1950; G.O.C.-in-C., Eastern Command, May 1950; Commander 4 Corps, Gen. 1952-Dec. 1953; attended Imperial Defence Coll. Course, London, Jan. to Dec. 1956. *Recreations:* Tennis, Golf. *Club:* Delhi Gymkhana. *Address:* 'Command House', Poona 1.

THAPAR, Prem Nath, B.A. (Hons.) (Punjab), B.A. (Oxon.), I.C.S., Member for Finance & Administration, Atomic Energy Commission, Bombay. *b.* April 13, 1903; *Educ.:* Govt. Coll., Lahore; New Coll., Oxford. Joined Indian Civil Service, 1926; worked as Deputy Commissioner, Settlement Officer and Colonization Officer till 1941; Joint Secy., Govt. of India Information and Broadcasting Deptt., 1941-46; Secy., Food and Civil Supplies Deptt., Punjab, 1946-47; Commissioner, Lahore and Jullundur Division, 1947-48. Financial Commissioner, Rehabilitation and Chief Administrator, Chandigarh Capital, Punjab, 1948-53; Adviser, National Planning Commission, New Delhi, 1953-54; Secy., Ministry of Food and Agriculture, 1954-56; Secy., Ministry of Agriculture, 1956-58. *Address:* Department of Atomic Energy, Apollo Pier Road, Bombay 1.

THEIS-NIELSEN, H.E. Mr. Viggo, Danish Ambassador in India, since June 22, 1957, and concurrently Envoy Extraordinary and Minister Plenipotentiary to Ceylon and Indonesia, since 1956. *b.* January 3, 1910, in New York; *Educ.:* Cand. Jur., Copenhagen Univ. Entered Danish Foreign Service, 1936; Bucharest, 1939-42; Copenhagen, 1942-45; Canada, 1945-47; Copenhagen, 1947-49; Commercial Counsellor in India and Ceylon, 1949-53; Copenhagen, 1953-56; Envoy in New Delhi, 1956-57. *Address:* 7, Tees January Marg, New Delhi.

THIAGARAJAN, Karumuttu, a leading Textile Industrialist of South India; started The Sree Meenakshi Mills, Ltd., 1921; has under his management several textile mills with nearly 4,00,000 spindles and 1,300 looms. *b.* 1893; *Educ.:* St. Thomas' Coll., Colombo. Joined the "Morning Leader" as an apprentice; reported on labour conditions in the plantations in Ceylon; founded a Labour Union; was its Secy. for seven years; was responsible for improving the terms and conditions of employment of estate labour; joined the Congress, 1914; became Secy., Provincial Congress, 1916; was member, A.I.C.C., 1917; led the agitation against the introduction of Hindi in Tamil Nad, 1937; Founder: Madura Insurance Co., Ltd., Bank of Madura Ltd., Thiagesar Trust for the amelioration of the poor and needy in Tamil Nad; Visalakshi Kalasalai (High School) in Athikadu Thekkur Thiagarajar Model High School, Madurai; Thiagarajar College, a first grade college at Madurai; Thiagarajar College of Preceptors, Madurai; Thiagarajar College of Engineering, Madurai. *Publication: Tamil Nadu*, a leading Tamil Daily in Madurai. *Address:* 'Meenakshi Nilayam', Thiruparankundram Road, Madurai.



THIMAYYA, General Kodendera Subayya, Distinguished Service Order (1944). Mentioned in Despatches (1944), and Mentioned in Despatches, Kashmir, 1948, Padma Bhushan (1954), Chief of the Army Staff, Indian Army, since May 15, 1957. *b.* March 31, 1906; *Educ.:* Bishop Cotton Boys' School, Bangalore; Prince of Wales' Royal Indian Mily. Coll., Dehra Dun; Royal Mily. College, Sandhurst, England. Commissioned into Indian Army, 1926; posted permanently to the 4/19 Hyderabad Regt. (later redesignated as the 4th Bn. of Kumaon Regt.), with which he served in Iraq, Allahabad, Fort Sandeman, Quetta, 1927-36; Adjutant, 5th Bn. (Madras) U.T.C., 1936-39; served with 4/19 Hyderabad Regt. in Malaya, 1939-40; proceeded to Burma with 25 Indian Division in May 1944; promoted Lt.-Col. and commanded 8/19 Hyderabad Regt. in operations, 1945; promoted Brigadier in command of a Brigade with 26 Div.; represented Indian Army in surrender ceremony at Singapore; commanded 268 Indian Infantry Brigade in Japan as part of occupation forces in Japan, 1946; member, Indian Armed Forces Nationalisation Cttee.; Military Adviser to Commander, Punjab Boundary Force; Commander, East Punjab Area during boundary troubles; Commander, Indian troops in Kashmir, 1948-50; Commandant, National Defence Academy, Dehra Dun, 1950-51; appointed Military Adviser to U.N. Indian Delegation in Paris, 1951-52, in connection with Kashmir; Q.M.G., A.H.Q., 1951-53; was Chairman, N.N.R.C., Korea; was G.O.C.-in-C., Western Command; G.O.C.-in-C., Southern Command and G.O.C.-in-C., Eastern Command; Officiated as Chief of the Army Staff, Indian Army, March 8, 1957-May 8, 1957. *Recreations:* Riding, Sailing, Golf, Shikar. *Club:* Imperial Delhi Gymkhana Club, New Delhi. *Address:* "Sunnyside", Mercara, Coorg District, Mysore; Army Headquarters, New Delhi.

THIVY, John Aloysius, Indian diplomat. Ambassador to the Netherlands since 1957; *b.* 1904; *Educ.:* Madras Univ. (B.A.); Barrister-at-Law, Inner Temple, London; during War, Vice-Pres., Indian Independence League, S.E. Asia, and Minister in the Provisional Govt. of Free India, 1942-45; after the War, inaugurated Malayan Indian Congress (and became first Pres.), 1946; organised delegation from Malaya to Asian Relations Conference, New Delhi, 1947, and elected member, Council, Asian Relations Organisation; Chairman, Unofficial Board of Enquiry on riots in Kedah State, 1947; associated with the framing of People's Constitutional Proposals for Malaya, 1947; and of Indo-Mauritian Assn., and Indo-Mauritian Catholic Assn. and Overseas Indians Conference, London, 1953; Representative of the Govt. of India in Malaya, 1947-50; Commissioner in Mauritius, 1950-53; Consul General, Madagascar, 1953; En. Ex. and Min. Plen. to Syria, 1953-55; Ambassador Ext. and Plen. to Italy, 1955-57 when also concurrently accredited as Ambassador to Greece and Minister to Albania. *Publications:* A Sketch of the Indian Independence Movement in South East Asia (1945). *Address:* Embassy of India, Buitenrustweg 2, The Hague.



THOMAS, A. M., B.A., B.L., Deputy Minister for Food, Govt. of India, since May 1957. *b.* June 4, 1912; *Educ.:* St. Thomas' Coll., Trichur; Maharaja's Coll., Ernakulam; Law Coll., Trivandrum. Set up practice in Ernakulam; elected to the Cochin Council, 1948; member, Travancore-Cochin Assembly, 1949-52; was Speaker, 1951; elected to Lok Sabha, 1952; again in 1957. *Address:* Deputy Minister for Food, New Delhi.

THOMAS, A. V., M.L.A., Madras, Business man. *b.* Aug. 8, 1891; Managing Director, A. V. Thomas & Co. Ltd., and Allied Concerns; controls Planting (Tea, Coffee and Rubber), Engineering, and other companies with a total capital of about four crores, elected to Parliament in the General Elections, 1952, returned to Madras Leg. Assembly in the Gen. Elections, 1957. *Clubs:* Cosmopolitan and Presidency, Madras; Gymkhana, Ooty; Royal Empire Society, London; Constitution Club, Roshanara Club and National Sports Club of India, Delhi; Madras Race Club. *Address:* 2/21, First Line Beach, P.B. No. 1603, Madras 1.

THORAT, Lt.-General Shankarrao Pandurangrao Patil, D.S.O., G.O.C.-in-C., Eastern Command, since May 1957. *b.* Aug. 12, 1906, at Kolhapur; *Educ.:*

Had his early education at Poona; was sent to England for military training; was commissioned from Sandhurst, 1926, after attachment for one year with 2nd Bn the Middlesex Regt, was posted to 1st Bn. the 14 Punjab Regt at Jhelum, became Quartermaster and then Adjutant in the same unit, saw active service in the Mohmand Operations, 1935, took over the command of 2nd Bn. 2nd Punjab Regt in Arakan, Jan 1944, won the award of Distinguished Service Order in Arakan front, Jan 1945, promoted full Col and appointed Deputy Director of Personnel Services in G H Q, April 1956, became Secy. National War Academy with the rank of Brigadier Director, Staff Duties and Weapons and Equipment, Sept, 1947, promoted Maj Gen and appointed G O C, Delhi Area, 1948, played a great part in protecting and looking after millions of refugees after the partition, posted to East Punjab as its G O C, 1948, appointed Chief of the General Staff, A H Q, April 1950, served in Korea with the Custodian Force, India, 1953 awarded Ashok Chakra Class II for gallantry and Padma Shree for meritorious national service abroad promoted Lt. Gen to command a corps, June 1955, is Col of the Mahar Machine Gun Regt and Col Commandant of the Border Scouts *Recreations* Classical music, Shikar *Address* Eastern Command, Lucknow

TILAK, Dr. Smt. Shalinibai Vishnu, M.B.B.S. (Bom), F R C S. (Edin), Consulting Surgeon, Hony. Obstetrician and Gynaecologist, Sassoon Hospitals, Cantonment General Hospital and Professor, B J. Medical Coll, Poona. *b.* at Sholapur, *Educ* New English School and Fergusson Coll, Poona Seth G S Medical Coll, Bombay, Royal Infirmary, Edinburgh, took F R C S. 1938 Practised at Matunga Bombay 1938-41; was Hon Obstetrician and Gynaecologist, Wadia Maternity Hospital, Reader and Professor, Medical Coll Agra, 1941-45 *Address* Tilak Surgical and Nursing Home, 618 Sadashiv Peth, Near Vishrambaug-Wada, Poona 2.



TIRPUDE, Nashikrao Khanderao, B A, (Nag Univ), LL.B (Nag Univ.), Minister for Social Welfare (including Rehabilitation) Bombay, since April 1957 *b* Jan 1, 1919, at Bhandara (Bombay State); *Educ*. Manro High School, Bhandara, 1931-38, Morris Coll, Nagpur, 1938-42, passed B A., 1942, Univ Coll of Law, Nagpur, 1942-44, passed LL B, 1944 Sub-Editor, *Rashtra Doot*, Daily, 1942; Editor, *Arun*, Weekly, 1943, started practice as lawyer at Bhandara, 1945; imprisoned for six months in labour movement, 1949; elected Pres., Independent-Labour Party, 1952; founded and organized over 30 institutions, *e g* Girni Kamgar Sangh, Bidi Labourers Union, Oil Mills Labourers Union, *etc*; Pres, Dalit Education Society which manages 16 educational institutions, since 1952; member, Ex. Cttee, Vidarbha Sahitya Sangh, Dy. Minister for Finance, Reparate Revenue, Scheduled Castes and Refugees, M P, 1954-56 *Recreation*: Literary activities *Address*: Little Gibbs Road, Malabar Hill, Bombay.

TIWARY, Rama Kumar, Hindi Poet; Special Officer, Political and Appointment Deptt., Bihar Govt., since 1951. *b.* Aug. 1916. Began career as a journalist, 1938; edited a monthly journal *Kishore* at Patna, 1938-42, *Usha* at Gaya, 1942-47. *Publications*: *Manjhan*; *Rasdhara*; *Anagat* (Poems); *Sahityik*; *Sahityayan*; *Sanchayan*; *Kala* (Criticism); *Radha*; *Sanyasidar*; *Purnavirati* (Fiction); *Bangla Sahitya Ka Itihas*, *Address*: Manastorbar, Gaya, Bihar.

TOLENI, Tarachand Thakurdas, B.E. (Mech.), F.C.E.T. (Lond.), M.M.E.A., M.I.E., Director of Technical Education, Bombay State, since 1956, *b.* Sept. 12, 1907; Educ. Hyderabad (Sind), Karachi, Poona and Bangalore Joined Bombay Educational Service, June 1936; Prof. of Mechanical Engineering (1936-39 and 1942-48); War Service (1939-42); Principal, L. D. Coll of Engineering, Ahmedabad (1948-51); Principal, Coll. of Engineering, Poona (1951-56) *Recreations*: Badminton, Table Tennis, Swimming *Clubs*: Poona Club Ltd, Poona, Cricket Club of India Ltd., Bombay 1 *Address* Rocky Hill Flats, Malabar Hill, Bombay 6.

TRIKAMDAS, Purshottam, B A. (Bom), B A, LL B. (Cantab), Barrister-at-Law, Politician and Praja-Socialist Leader; Senior Advocate, Supreme Court *b.* July 7, 1897; *Educ*. Graduated from Elphinstone Coll, Bombay, 1918, LL.B from Cambridge, 1922; called to the Bar, 1922. Member, Satyagrah Sabha, 1919; Secy to Mahatma Gandhi, 1919; Jt. Secy, Swaraj Party, 1924, joined satyagraha movement, 1930; jailed, 1934, founder member, Congress Socialist Party, 1940-45, Ag. General Secy, C S P, 1942, detained for satyagraha for 3½ years, member, A I C C, 1945; Chairman, Socialist Party Convention, Nasik, 1948; resigned from Congress, Member, Bombay Leg Assembly 1949-52, founder, People's Mobile Hospitals, 1954, Indian Delegate, U N O. Assembly, 1954; Member International Commission of Jurists, 1955 *Publications*. Several plays and a novel in English and Gujarati, articles pamphlets *Recreations* Writing, Tennis, Bridge. *Club* Willingdon Club, Bombay. *Address* 105, Sunder Nagar, New Delhi

TRIVEDI, Devasahaya, M A, Ph D (Patna). Lecturer in History for five years at Bhagalpur, Arrah, S D Coll, Lahore & Simla, Educ Officer, Jubbal State, Desk Editor, *Hindustan Times*, and *Searchlight*. *b* Nov 30, 1911, in Shahabad Dist, Bihar, *Educ*: Queen's Coll, Varanasi; Allahabad Univ; Sanskrit Coll, Varanasi; Patna Coll, Dr. Rajendralal Mitra Gold Medallist, first doctor of Patna Univ; founder of a new school of History. *Publications*. *Pre-Mauryas, Bihar; Bhagavatadharma; Sher Shah, His Successors; Bharatiya Shrama Vidhan History of Monghyr; Religions & Philosophy; Indian Chronology; Dictionary of Indian Inscriptions; Home of Aryans & Vedas; Short Anchor of History, Dates of Bharata Battle; Buddha, Kanishka; Asoka's Eternal Religion, Par Vairagi Lashari, Crusade of '57, Vimuktirya*, etc, and many other papers in learned journals. *Address*. Chandibhavan, Varanasi 5.

TRIVEDI, Atisukhashankar Kamalashankar, M.A. (Philosophy) Class II, LL.B, Principal, S. B. Garda College, Navsari, since 1945. *b.* April 15, 1885; *Educ*.. Poona, Nadiad, Broach, Ahmedabad Govt. High Schools; Guj. College, Ahmedabad; Elph. Coll., Bombay. Professor of Philosophy, Baroda College for 30 years; Fellow, Syndic, A. C. member; P G Board member, member, Sanskrit, Gujarati, Philosophy Boards for years, Bombay University, now of Gujarat University; Chairman, Sanskrit and Philosophy Boards for some time, Bombay University, now of Guj, Bengal, Guj, Univ.; was Fellow, Rajaljinee Univ.; Fellow and past Syndic, Gujarat Univ.; Swadeshibhandhi; Navsari Guj. Parishad Sammelan, 1946; Chairman, Arts Terminology Cttee, Gujarat Univ. *Publications*: In English:—*A Manual of Ethics; Psychology; Studies in Indian Logic; Studies in Vedantic Logic*, etc, in Gujarati: *Logic in our Every Day Life*; in Gujarati: *Hindu Tirath; Religion, Hindu; Hindu Vivaha; Atma Tirath; Shankar*; many *Purandar Jeevan; Purandar Pada; Ancient Hindu Education; Sri Ramanuja; Sri Vallabha; Sri Nimbarka; Sri Madhva; Sri Jayadeva; Sri Chaitanya; Sri Tukaram; Sri Samarth Ramdas; Sri Narsinh Mehta; Sri Akho; Sri Premanand; Sri Shamal Bhatt; Sri Dayaram; Sri Dhirabhagat; Sri Dalpatram; Sri Narmad; Sri Manishankar Bhatt; Sri Balashankar; Sri Nanalal; Sri Govardhanram; Sri Ramanbhai Nilkanth; Sri Keshavram Shastri; Sri Anandshankar Dhruva; Sri Ambalal Purani; Sri Gandhiji; Sri Vinoba; Sri Jawaharlal Nehru; Sri Sardar Patel; Sri Rajendra Prasad; Sri Rajaji; Sri Sarojini Naidu; Sri Indira Gandhi; Sri Lal Bahadur Shastri; Sri Morarji Desai; Sri Jayaprakash Narayan; Sri Acharya Kripalani; Sri Lohia; Sri Tarkeshwari Sinha; Sri Asoka Mehta; Sri Nehru (Jawaharlal); Sri Patel (Vallabhbhai); Sri Rajaji; Sri Rajendra Prasad

Reforms, 1930; was Vice-Chairman, National Council of Women in India; was Chairman, Local Committee of the All-India Conference on Educational and Social Reforms; Chairman, Red Cross Executive, 1928; Vice-President, Social Service League; Chairman, Mahila Seva Mandal; was Chairman, now member, Port Haj Committee; founded a Muslim Purdah Nursing Division, first of its kind in the world; appointed Associate Serving Sister, Overseas Brigade, St. John Ambulance, 1937; Chairman, Albless and Cama Hospital Advisory Board and is also connected with the following institutions for many years—Govt. Urdu Text Book Committee; Infant Welfare Society; The Bombay Mothers and Children Welfare Society; Society for the Protection of Children in Western India; The National Baby Week; Executive Committee, Governors' Hospital Fund; Advisory Committee, J. J. and Allied Hospitals; Seva Sadan Council; Bombay Presidency Women's Council; as Chairman, Flag Day Committee, collected Rs. 22,000 in one day for the Anti-Tuberculosis Fund; President, All-India Educational Conference, Women's Section, Poona, 1940; member, War Gifts Fund, Ladies' Committee; awarded Kaiser-i-Hind Silver Medal, 1935; Gold Medal, 1941; appointed member of Health Survey and Development Committee, Government of India, Nov. 1943; was Pres., Seva Sadan Society. *Address:* Khatau Mansion, Oomer Park, Warden Road, Bombay.

TYAGI, Mahaviz, M.P., Ex-Minister for Defence Organisation, Govt. of India. *b.* 1900, Dhabarsi Village, Moradabad Dist. (U.P.); *Educ.:* Privately. Has been a staunch Congressman; courted jail eleven times for Congress activities, member: A.I.C.C.; Constituent Assembly of India, 1946-49; Provisional Parliament, 1950); ex-member, U.P. Leg. Assembly; organised Tyagi Police, U.P., Aug 1947; returned to the Lok Sabha from Dehra Dun District-cum-Bijnor Dist. (North-West)-cum-Saharanpur Dist. (West) Constituency, U.P. in the general elections. Minister of Revenue and Expenditure, Govt. of India, 1951-53. *Address:* C/o Secretary, Lok Sabha, New Delhi.

UKIL, Ranada, Lecturer in Painting, Women's College, Banaras Hindu Univ. and Director, Ukils' School of Art, Banaras. *b.* Sept. 5, 1900; *Educ.:* Govt. Coll of Art at Calcutta and Royal College of Art, London; Govt. of India scholar; was commissioned twice to do the Mural Painting in India House, London; their Majesties George V and Queen Mary, and Sir William Rothenstein were greatly impressed by his work; was honoured by Queen Mary who bought his painting "Shahjahan's Dream of the Taj" in an Arts Exhibition in New Bond Street, London. *Address:* Ukil School of Art, Bhelupura, Varanasi (Banaras).

UPADHYAYA, Pt. Deendayal, B.A., L.T., General Secretary, Bharatiya Jana Sangh, since 1953. *b.* Oct. 10, 1917, at Farah village, Dist. Mathura, U.P. *Educ.:* Matriculated from Sikar, Jaipur State; Intermediate (Arts) from Birla Coll., Pilani; graduated from S. D. Coll., Kanpur, 1939; L. T. from Govt. Training Coll., Allahabad, 1942. Joined the Rashtriya Swayamsewak Sangh; became R.S.S. Organizer, 1942; Managing Director, Rashtra Dharma Prakashan Ltd., Lucknow, 1947-50; Joint Provincial Organiser, R.S.S. in U.P., 1950-51; General Secy., Bharatiya Jana Sangh, U.P., 1951-53. *Publications:* [illegible]; *Jagadguru Shankaracharya*; [illegible]. *Recreations:* Reading, [illegible]. *Address:* Bharatiya Jana Sangh, [illegible], Delhi 6.

[illegible] Nath, Ph.D. (Iowa), [illegible] Academy of Sciences, Fellow, [illegible] Sciences of India; [illegible] Agricultural Commr., Govt. of [illegible] 1952. *b.* August 6, 1899; [illegible] Iowa State Coll. of [illegible] Rothamsted Experi- [illegible]); Rockefeller Inst. for Medical Research (Princeton), Wisconsin Univ. Research Fellow, Iowa Agric. Exp. Station; Plant Pathologist to Govt., Bombay State; Principal, Coll. of Agri., Poona; Director of Agriculture (Research and Education), Director of Agriculture, Bombay till Aug. 1952. *Publications:* Scientific papers in various science journals dealing with plant viruses, plant diseases and soil fertility problems. *Address:* Indian Council of Agricultural Research, Queen Victoria Road, New Delhi.

VAIDYA, Murarji Jadavji, B.Com., F.R.E.S. (Lond.), J.P., Industrialist; also Hon. Consul for the Federal Republic of Austria; President, Indian Merchants' Chamber, 1950. *b.* Oct 2, 1908; *Educ.:* Tutorial High School and Sydenham Coll. of Commerce & Economics, Bombay. Toured England and Continent to study the Silk Industry in those countries, 1931; established the Bombay Silk Mills, 1932; one of the promoters of the Kutch Spg. & Wvg. Mills Co. Ltd.; promoted National Electrical Industries Ltd.; is a Rotarian; Hon. Secy., Manufacturers' Delegation which visited Europe, 1946; Leader: Exploratory Mission sponsored by the Indian Council of Foreign Trade, to Egypt, Sept. 1953; Industrial Delegation to Japan and South-East Asian Countries, Oct. 1953; a delegate to the International Silk Congress, Milan, Oct. 1953; Chairman: All India Manufacturers' Organisation, 1953-56; Indian Council of Foreign Trade; Vice-Chairman: Silk and Art Silk Mills Assoc. Ltd., 1941-55, Silk and Art Silk Mills Research Assoc., 1950-55; member: Central Advisory Council of Industries, 1950-56; Central Silk Board and its Standing Cttee.; Wage Board of the Silk Textile Industry, 1950-55; Trustee, Port of Bombay. *Publications:* Monographs: *High Rate of Exchange, Office Organisation in Bombay; Industrialism in India*, etc. *Clubs:* Willingdon, Cricket Club, W.I.A.A. Club. *Address:* Jadavji Mansions, 3, Cuffe Parade, Colaba, Bombay 5.

VAIDYA, Vijayaral Kalyanrai, B.A. (Eng. Hons.) (Bombay), Gujarati Critic, Retd. Prof.; Author & Literary Journalist; *b.* April 7, 1897; *Educ.:* Wilson Coll., Bombay; Samaldas Coll., Bhavnagar; passed B.A. (Hons.), 1920. Bank Cashier, 1920-21; Editor: *Chetan*, 1920-23; *Kanmudi* (1924-35); *Manasi*, since 1935. *Publications: Gujarati Sahityani Ruprekha* and 18 other books. *Recreations:* Reading English and Sri Aurobindo Literature. *Address:* 1582, Krishna Nagar, Bhavnagar.

VAJIFDAR, Mrs. Shera Noshir (nee Shera Edulji Marawala of Navsari), M. Com., Municipal Councillor, Bombay; Pres. Progressive Group; Jt. Hon. Secretary, All India Animal Welfare Assoc., and Bombay Tenants' Assoc. *b.* Sept. 21, 1915, at Bhusaval; *Educ.:* Sydenham Coll.; wrote thesis on 'Industrial Labour in India' for M. Com. degree after touring Bengal, Bihar, U.P., the Punjab and Bombay State; was appointed Research scholar by Bombay Univ. for studies in Ph.D., 1943-45. Member Managing Cttee. of the National Assoc. for the Blind; Social Workers' Society; Bombay Hygiene Society; Mayor's Relief Fund and Buddha Jayanti Charity Cttee.; took active part in Trade Union Movement; Freedom Movement; Forward Block and was a close associate of Netaji Subhas Chandra Bose; was General Secy., Lever Brothers Employees' Union; was Pres., Masina Hospital Employees' Union; Dye Workers' Union; was delegate to International Planned Parenthood Conference and International Child Welfare Study Conference, 1952. *Address:* Sheri House, Gunbow Street, Fort, Bombay.

VAKIL, Chandulal Nagindas, M.A. (Bom.), M.Sc (Econ.) (London), Director, UNESCO Research Centre on the Social Implications of Industrialisation in Southern Asia, Calcutta. *b.* Aug. 22, 1895; *Educ.:* Bombay and London. On the staff of the University School of Economics and Sociology, Bombay, 1921-56; Director of the School, 1930-56; Pres., Indian Economic Conference, Patna, 1934; Economist to the Planning Dept., Govt. of India, 1945-46; Pres., Indian Agricultural Economic Conference, Trivandrum, 1952; Member, Experts Cttee., I.L.O., July 1956; member, Panel of Experts on Industrial Management, U.N., Sept. 1957. *Publications: Financial Developments in Modern India*, 1860-1924 (1925); *The Falling Rupee* (1943); *The Financial Burden of the War on India* (1943); *Economic Consequences of Divided India* (1950); *Planning for a Shortage Economy* (1952); *Economic Survey of Saurashtra* (1953); *Planning for an Expanding Economy* (1956) and several others. *Recreations:* Walking, Cinemas. *Address:* UNESCO Research Centre, P.O. Box 242, Calcutta.

VALA: Thakore Saheb Raol Shree Gambhirsinhji, Thakore Saheb of. *b.* April 25, 1889; *Educ.:* Harrow and Clare College, Cambridge; Imperial Cadet Corps, Dehra Dun. Succeeded to the *Gadi*, June 5, 1913; acceded to the Union of India, Aug. 27, 1947; entered into the Covenant for the formation of the United State of Saurashtra, Jan. 22, 1948. *Heir: s.* Yuvaraj Shree Pravinchandrasinhji, *b.* October 15, 1925. *Address:* Palace, Valabhipur, Bombay State.



VALLABHDASS, Pratapsinh Shoorji, J.P. and Hon. Presy. Magistrate, Chairman,



Malabar Steamship Co. Ltd.; Director: New Dholera Steamships Ltd., National Steamship Co. Ltd., Shoorji Vallabhdass Swadeshi Bazar Private Ltd., Shoorji Vallabhdass Private Ltd., Pratapsinh Private Ltd., Vikramsinh Private Ltd., Dilipsinh Private Ltd., Petlad Bulakhidas Mills Co. Ltd., Sewri Lands Ltd., Partner: Shoorji Vallabhdas & Co.; Shoorji Vallabhdass Kariana Co. *b.* July 16, 1918; *Educ.:* New Era School and Sydenham Coll. of Commerce, Bombay; Member: Indian National Steamships Owners' Association Cttee.; Cttee. of the Indian Merchants' Chamber, Bombay; Indian Sailors' Home Society; Sick and Destitute Seamen's Amenities Fund; National Welfare Board for Seafarers; Shipping Advisory Board of the Govt. of India; Federation of Indian Chambers of Commerce and Industry; Dayanand Paropkarini Sabha, Ajmer; Managing Cttee. of Gurukul Chittoregarh; Pres., Swami Dayanand Saraswati Smarak Trust, Tankara; Bombay Pradesh Arya Samaj; Trustee, Kutch Lohana Education Dept.; its Secy. for a long time; Organiser, Bombay Nagar Upnagar Arya Prachar Samiti. *Club:* Willingdon Sports Club. *Address:* Cutch Castle, near Sandhurst Bridge, Bombay 4.

VARADARAJAN, Dr. M., M.A., M.O.L., Ph.D. (1947), Tamil Essayist; Professor of Tamil, Pachaiyappa's College, Madras. *b.* 1912; *Educ.:* Madras Univ. Member: Academic Council, Board of Studies and Senate, Univ. of Madras; Board of Studies in Tamil Annamalai Univ.; Secretary, Academy of Tamil Culture, Madras 30; got the Award of the State Govt., Madras during the centenary celebrations of the 1857 uprising, in recognition of his services to Tamil literature. *Publications:* Author of 8 novels, 2 short-story collections, 3 biographies, 15 works of literary criticism, etc. *Address:* Chellammal Street, Madras 30.

VARMA, Bhagwati Charan, B.A., LL.B., Hindi Writer. *b.* Aug. 30, 1903; *Educ.:* Christ Church Coll., Kanpur; Allahabad Univ. Published his first poem in 'Pratap', Kanpur, 1918; set up practice as a lawyer at

Kanpur, 1928 ; settled at Allahabad as a writer, 1931 ; joined Film Corporation of India, Calcutta, 1937 ; resigned, 1938 ; started a Hindi Weekly from Calcutta, 1940 ; had to close the weekly due to political reasons, Feb. 1942 ; was with the Bombay Talkies till 1945 ; took to freelancing ; Editor-in-Chief, 'Navajeevan', Lucknow, Feb.-Dec. 1948 ; joined All India Radio as Hindi Adviser, Lucknow, 1950, transferred to Delhi, 1953 ; returned to Lucknow, 1956 ; resigned and settled down as professional Writer, 1957. *Publications* : Novels : *Patan*, 1930 ; *Chitralekha*, 1933 ; *Teenvarsh*, 1936 ; *Terhemerhe Raste*, 1946 ; *Akhiri Daon*, 1951 ; *Apne Khilone*, 1957 ; Poetry : *Madhukan* ; *Prem Sangeet* ; *Manav* ; *Tripathga* ; Plays : *Bujhtha Deepak* ; *Rupyatumae* ; *Khagaya* ; *Vasavdatta* ; Essays : *Hamari Uljhan*. *Recreations* : Tennis, Hiking. *Address* : 37, Bisheshwarnath Road, Lucknow.

VARMA, Dhirendra, M.A. (Allahabad), D. Litt. (Paris), Univ. Prof., Hindi Deptt., Univ. of Allahabad, U.P. *b.* May 17, 1897 ; *Educ.* : Dehra Dun, Lucknow, Allahabad and Paris. On the teaching staff of the Allahabad Univ. and Head of the Department of Hindi Studies, since 1924 ; Dean, Faculty of Arts ; Patron, Bharatiya Hindi Parishad ; Secy., Hindustan Academy, U.P. *Publications* : *History of Hindi Language* (1933)—Hindi ; *La Langue Braj* (1935)—French ; *Brajbhasa Grammar* (1937)—Hindi ; *Letters from Europe* (1940)—Hindi ; *Vichardhara*—Collection of essays (1944)—Hindi ; *Braj Bhasha* (1954) ; *Sursagarsar* (1954) ; *Madhyadesha* (1955). *Address* : "Shri Chandraloka," 1/c Bund Road, Allahabad.

VARMA, Paripurnanand, Vice-Pres., U.N.O.'s First World Congress on Crime Prevention, Geneva ; Chairman, Economy (D & E) Committees, U.P. ; President, All-India Crime Prevention Society, Lucknow, since 1949 ; Director, L.R. Engineering Works Ltd., Bombay & Kanpur ; Pres., U.P. Art & Culture Society ; member, Labour Welfare Advisory Board, U.P. ; *b.* Feb. 7, 1907 ; *Educ.* : Graduated from Kashi Vidyapith, Banaras in History, Economics and Politics. Professor of English, Prem Maha Vidyalaya, Brindaban, 1927 ; Editor, *Prem*, Brindaban, 1927-28 ; Joint Editor, *Lokmat*, Jabalpur, 1930-31-32 ; Editor, *Prema*, 1932-33 ; Manager, Bharti Bima Ltd., Banaras, 1935-38 ; Zone Secretary, The Empire of India Life Assurance Co. Ltd., Kanpur Circle, 1946-47 ; Pres. : U.P. Ministerial Education Assoc., Hq. Banaras ; Anjuman-i-Taraqqie Urdu ; Hindustani Biradari, Kanpur and Banaras ; Hindi Bhawan Trust, Kalpi ; Adarsha Vyamshala, Kanpur. *Address* : Behari Niwas, Kanpur.

VARMA, Parmeshari Lal, B.A. (Hons.), C.E. (Hons.), M.B.E. (1938), M.I.E. (India), D.I.C. (London), Member, Union Public Service Commission, since Nov. 1956. *b.* May 21, 1901. *Educ.* : B.A. (Hons.), Govt. Coll., Lahore, 1921 ; C.E. (Hons.), Thomason Engg. Coll., Roorkee, 1924. Public Works Deptt., Buildings & Roads, Punjab, 1924 ; Executive Engineer, 1937 ; Under Secretary to the Govt. of Punjab, 1942 ; Superintending Engineer (Planning) for the Post-War Planning Scheme, 1945 ; sent to the U.S.A. as leader of the Road Delegation of the Govt. of India, 1947 ; Chief Engineer & Secy. to the Punjab Govt., Development Organization, 1948 ; Chief Engineer, Chandigarh Capital Project, 1950 ; Chief Engineer & Secy. to Govt. of Punjab, P.W.D. Bldgs. & Roads Branch in addition to duties as Chief Engineer & Secy. and Chief Administrator, Chandigarh Capital Project, till Nov. 1956. *Address* : Member, Union Public Service Commission, New Delhi.

VASAN, S. S., Managing Editor, *Ananda Vikatan*, a leading nationalist weekly ; Proprietor, Gemini Studios, Madras ; Managing Dir., Gemini Pictures Circuit Ltd. *b.* 1903, at Tiruthuraipundi, Tanjore Dist. Took to journalism at an early age and started a Tamil journal, *Ananda Vikatan*, 1928 ; pioneer in introducing the unique feature of caricatures in South India through this weekly ; was once a keen punter ; turned to film business, 1939 ; founded the Gemini Studios, 1941 ; as a producer, occupies a prominent position in the world of talkies ; member, Indian and Eastern Newspaper Society ; is a shareholder of P.T.I. *Address* : 'Gemini House,' Edward Elliot Road, Mylapore, Madras 4.

VASAVADA, Shamprasad Rupshanker, M.A., General Secy., Indian National Trade Union Congress. *b.* Feb. 16, 1903 ; *Educ.* : Primary and secondary education at Rajkot ; graduated with Honours from Bahauddin Coll., Junagadh, 1925 ; M.A. Degree with History and Economics, 1927. Joined the Textile Labour Assoc., Ahmedabad, April 1929 ; elected one of the Secys. of the Assoc., 1946 ; Municipal Councillor, Ahmedabad, 1936-50 ; served for several years as Chairman, Sanitary Cttee., Ahmedabad Municipality ; elected M.L.A., Bombay, 1950 ; again 1952 ; was Pres., Indian National Textile Workers' Federation for six years ; is Pres., National Federation of Indian Railwaymen ; Pres., I.N.T.U.C., 1954-57. *Address* : Gandhi Majoor Sevalaya, Bhadra, Ahmedabad.

VASUDEVACHARYA, Mysore, Sangita Shastra Ratna (1931), Sangita Sastra Visharada (1944) both by Mysore Palace, Sangita Kalanidhi (Madras Music Academy-1935), Musician. *b.* May 28, 1865 ; *Educ.* : Training in Karnataka Music under Patnam Subramanya Iyer. Has been a leading musician for over 65 years now ; is also a music composer ; won President's Award for Karnataka Vocal music (1954-55). *Publications* : *Na Kanda Kalavidaru*, Kannada (biographies of old masters (music) with whom the author had personal contact ; *Vasudeva Keertana Manjari*, Part I and II in Telugu containing his compositions ; *Navaratna Ragamalika*, Tamil, containing ragamalikas composed by him ; *Songs of Mysore Sadashiva Rao*, Tamil, edited by him. *Recreations* : Study of Sanskrit. *Address* : Kalakshetra, Adyar, Madras 20.

VAZIFDAR, Khan Bahadur Captain N. J., M.B.E., L.M. & S., F.C.P.S., F.C.S. (Lond.), J.P. and Hon. Presidency Magistrate, General Secretary, Indian Red Cross Society, Bombay ; Hon. Secy., St. John Ambulance Association, Bombay State Centre, Bombay ; Dist. Supdt., St. John Ambulance Brigade No. 3, Dist. Bombay ; Hon. Secy., Hind Kusht Nivaran Sangh (Indian Leprosy Assoc.) ; Retired Chemical Analyser to Government of Bombay and Professor of Forensic Medicine, Grant Medical College, Bombay. Fellow of the Indian Chemical Society ; Examiner in Chemistry, in Physiology, in Medical Jurisprudence and Mental Diseases in the Univ. of Bombay ; Examiner in Physiology and Medical Jurisprudence and Hygiene, College of Physicians and Surgeons of Bombay ; Examiner in Biochemistry for the M.Sc. Examination of the Bombay Univ. ; Examiner in Forensic Medicine in the University of Lucknow and Medical Examination Board, Nagpur ; Examiner in Technical and General Chemistry, Victoria Jubilee Technical Institute, Bombay ; President, College of Physicians and Surgeons, Bombay (1937-40 and 1953-54). *Publications* : *Physiology of the Central Nervous System and Special Senses* (9th edition) and *Synopsis of Physiology* (9th edition), etc. *Address* : Red Cross Society Office, Town Hall, Fort, Bombay.



VELLODI, M. K., B.A., I.C.S. (Retd.), Ambassador to Switzerland, since May 1956. *b.* Jan. 14, 1896 ; *Educ.* : Zamorin's Coll., Calicut ; Presidency Coll., Madras ; Oxford Univ. Joined I.C.S., Nov. 1921 ; [illegible] Board of Revenue, Madras, 1938 ; Chief Secy., Govt. of Orissa, 1939 ; Textile Commissioner, Govt. of India, 1943 ; Dy. High Commissioner for India in U.K., 1945 ; Leader, Indian Delegation to Maritime Conference, Copenhagen, 1945 ; Seattle, 1946 ; attended General Assembly, U.N., 1947 ; represented India at the meeting of the Security Council in connection with Kashmir, Jan.-May 1948 ; Secy., Ministry of States, Govt. of India, Oct. 1948-Nov. 1949 ; Chief Minister, Hyderabad, 1949-52 ; State Counsellor, Hyderabad, 1952-53 ; Secy., Ministry of Works, Housing and Supply, 1953 ; Secretary, Ministry of Defence, 1953-57 ; Secretary to the Cabinet, Govt. of India, 1957-58. *Address* : Berne, Switzerland.

VENKATACHAR, Cadambi Seshachar, B.A., I.C.S., C.I.E., O.B.E., High Commissioner-designate to Canada*. *b.* July 11, 1899, *s.* of C. Seshachar ; *Educ.* : Presidency Coll., Madras ; Univ. Coll., London ; Trinity Coll., Cambridge. Entered Indian Civil Service by open competition in London and posted to U.P., 1923 ; served in Political Dept. of Govt. of India in various capacities at Rajkot, Baroda and Indore, 1927-33 ; Rural Development Commr., U.P., 1935-37 ; Agent to Govt. of India in Malaya, 1937-41 ; became Commr. of Allahabad Divn., 1943 ; Prime Minister, Jodhpur, 1946-47 and Bikaner, 1948-49 ; member, Constituent Assembly of India, 1947-48 ; Chief Minister, Rajasthan, Jan. to April 1951 ; Secretary, States Ministry, 1951 to 1955 ; Secretary to the President of the Indian Republic, 1955-58. *Recreations* : Reading, Motoring and Travelling. *Address* : C/o Ministry of External Affairs, New Delhi.

VENKATAPPIAH, Burra, M.A., Deputy Governor, Reserve Bank of India. *b.* Oct. 4, 1907 ; *Educ.* : P. R. Coll., Kakinada ; Presidency Coll., Madras ; London Univ. Joined I.C.S., Oct. 1932 ; served in Bombay State as Asstt. Collector and Collector (1932-40), Deputy Secy., Finance Deptt. (1940-42), Joint Secy., Finance Deptt. (1942-46) ; Secy., Finance Deptt. (1946-50) ; Executive Director, Reserve Bank, Oct. 1950-July 1955 ; member, Cttee. of Direction, All-India Rural Credit Survey (1951-54), Taxation Enquiry Commission (1953-54), and of Rural Banking Enquiry Cttee. (1949-50) ; Expert Cttee. on the Futures Markets (Regulation) Bill (1950) ; One-man Cttee. to enquire into past purchases of the Bombay State Road Transport Corporation (1956), etc., etc. ; delegate to the Joint Conference of the International Monetary Fund and World Bank (1956) ; Director on the Boards of State Bank of India, Industrial Finance Corporation of India, National Co-operative Development and Warehousing Board, and Central Warehousing Corporation. *Address* : Reserve Bank of India, Bombay 1.

VENKATARAMAN, Dr. Krishnasami, M.A. (Madras), M.Sc. Tech., Ph.D., D.Sc. (Manch.), F.N.I., F.A.Sc., Director, National Chemical Laboratory, Poona, since Aug. 1, 1957. *b.* June 7, 1901. *Educ.* : Madras and Manchester. Director, Deptt. of Chemical Technology, Matunga, Bombay, 1938-57 ; Chairman, Chemical Research Cttee. of the C.S.I.R., 1951-57 ; Pres., Chemistry Section, Indian Science Congress, 1945 ; member : Cotton Textile Fund Cttee., 1948-56 ; Bureau of the International Union of Pure and Applied Chemistry, 1950-55 ; Indian Lac Cess Cttee. ; Board of Directors of Hindustan Antibiotics (Private) Ltd. ; Bombay State Industrial Research Cttee. ; Advisory Panel on the International Pharmacopoeia and Pharmaceutical Preparations, W.H.O. ; Cttee. on Non-Proprietary Names of Drugs, W.H.O. ; Editorial Advisory Board of *Tetrahedron* and *Current Science*. *Publications* : *The Chemistry of Synthetic Dyes*, Vols. I & II, Acad. Press, N.Y., 1952 ; *Colouring Matters* in Review of Textile Progress, 1953-56 ; numerous papers on chemistry and chemical technology. *Address* : National Chemical Laboratory, Poona 8.

* According to present arrangement is due to take charge in Aug. 1958.

VENKATARAMAN, R., M.A., B.L., Minister for Industries and Labour, Madras. *b.* Dec. 4, 1910; *Educ.:* passed B.A., Honours (Madras); Pres., Students' Union and Chairman, Social Reform Club; won Inter-collegiate Oratorical Competition of South India. Joined the Bar, 1935; participated in the Quit India Movement and detained in Jail, 1942-44; Editor, *Labour Law Journal*; one of the panel of Indian Lawyers who defended Indian nationals arrested in connection with the J.N.A. Movement in Singapore and Malaya; Secy., Provincial Bar Federation; Member, Commonwealth Parliamentary delegation to New Zealand, 1950; elected to Parliament 1950; Delegate to the I.L.O. Cttee. on Metal Trades, Geneva, April, 1952; elected to the Lok Sabha from Tanjore, 1952; was Secy., Tamilnad Congress Cttee.; Reception Cttee., Avadi Congress Session of Indian National Congress; again elected in 1957; Alternate Delegate of India to the U.N. Gen. Assembly, 1953, 1955 and 1956; Secy., Congress Party in Parliament, 1954-55; elected member, U.N. Administrative Tribunal for 1956-59. *Address*: Madras.

VENKATARAMAN, S. R., B.A., B.L., Member, Servants of India Society, connected with scouting, 1920-51; Medal of Merit, 1950; Flood, Cyclone and Famine relief work, Coimbatore, 1930, Shiyali, 1937, Andhra, 1945 and 1949 and Tanjore, Trichy, 1955; member, Central Exec. Cttee., Indian Conference of Social Work; Hony. Secy., the Indian Council of World Affairs, Madras Branch; Pres.: Indian Conference of Social Work, Rajahmundry, 1948; Bala Vihar Delegate to Seminar on Casteism, Delhi, 1955; delegate to the U. N. Conference on the Non-Governmental Organisations, Colombo, 1956; Member, Senate, Annamalai Univ., 1956; Administrative Pres., World Brotherhood Madras Chapter, 1957. *Publications:* (Tamil) *Nehru's Letters to his daughter* (Tr.); *Lives of Ranade, Gandhiji, Annie Besant*; (English) *Temple Entry Legislation—a Review*; *Harijans through the Ages*; *The Pavement Dweller*; *Two South Indian Tribes*; *State Responsibility for Social Work*; Edited: Rt. Hon. Sastri's autobiographical sketches in Tamil; Madras State Directory of Social Services, 1952; Sastri's lectures on the Rights and Status of Women in India, 1957; attended the Seminar organized by the Y.W.C.A. at Ooty on the Second Five Year Plan, 1957; member, Adv. Cttee. for the After-Care Home for Males, Madras, 1957. *Address*: Servants of India Society, Madras 14.

VENKATESWARLU, Dr. K., M.Sc., D.Sc., F. Inst. P., Professor and Head of the Department of Physics, Annamalai University, since July 1955. *b.* June 3, 1916, at Nuzvid, Krishna Dist., Andhra. *Educ.:* S.R.R. High School, Nuzvid; Andhra Christian Coll., Guntur; Andhra Univ. College, Waltair for B.Sc. (Hons.) and M.Sc.; awarded Metcalfe Gold Medal for submitting the best thesis for M.Sc. in Physics, 1939. Physics Demonstrator, Andhra Univ. Coll., 1939-41; Lecturer, 1941-46; Senior Lecturer, 1946; got his D.Sc. degree by submitting a thesis entitled "Intensity and related problems in Raman Effect," 1946; elected a fellow of the Institute of Physics, London, 1947; had overseas training in pure and applied geophysics at Cambridge Univ., U.S. Geological Survey and California Institute of Technology, U.S.A., 1948-50; Special Officer for Ground Water Resources, Madras State, 1951-53; Reader in Physics, Annamalai Univ., 1954-55; is guiding research in Raman Effect, Magnetism, X-rays and Geophysics in the Physics Deptt., Annamalai Univ. *Publications:* Several research papers mostly on Raman Effect in leading scientific journals. *Address:* Professor and Head of the Department of Physics, Annamalai University, P.O. Annamalainagar, South India.

VENKATASWAMY, Kala, Minister for Land Revenue, Land Reform and Excise, Andhra Pradesh, since April 1957. *b.* 1900; *Educ.:* Maharajah's Coll., Vizianagram and Noble Coll., Masulipatam. Gave up studies in response to the call of Mahatma Gandhi in 1921 and joined the N.C.O. Movement; went to jail eight times including two detentions; elected member of the Madras Legislative Assembly, 1937 and 1946; was General Secretary, Andhra Provincial Congress Committee for more than six years; member of the All-India Congress Committee for over twenty-six years; General Secretary, Indian National Congress; Member, Indian Constituent Assembly; was Minister for Land Revenue, Govt. of Madras; again Minister, Public Health, Govt. of Madras, Sept. 1951-Feb. 1952; Elected to Parliament, Sept. 1950; Minister for Planning and Industries, Andhra State, 1955-56. Minister for Revenue and Land Reforms, Andhra, Nov. 1956-March 1957. *Address:* Amalapuram, East Godavari; Hyderabad.

VERMA, Meghraj Mukul, M.A., Sahitya Ratna, Hindi and Rajasthani poet; Special Officer for Cultural and Literary Affairs, Rajasthan, since 1955. *b.* May 14, 1923; *Educ.:* Dungar Coll., Bikaner (Rajasthan). Teacher, 1941-49; Lecturer, 1949-54; Chief Social Education Officer, 1954-55; Hony. Secy., Rajasthan Sahitya Akademy and Lalit Kala Akademy, 1956-57. *Publications:* *Umang*, *Seema Rekha*; *Sainani*. *Recreations:* Music, Poetry and Travelling. *Address:* Special Officer for Cultural & Literary Affairs, Government of Rajasthan, Jaipur.

VERMA, Major-General Shiv Dev, F.Sc., (Punjab), Chief of the General Staff, Indian Army, since May 1957. *b.* Sept. 27, 1908; *Educ.:* Govt. Coll., Lahore, Punjab. Commissioned from Sandhurst, Jan. 1929; served in 16 Light Cavalry all along; passed into Staff Coll., 1939; War Service in Iraq, Western Desert, Palestine, Syria, Persia, Burma, French Indo-China, 1941-46; G. I. Instructor, Staff Coll., Quetta, 1946; Asstt. Comdt., 1947; Comdt., Staff Coll., Wellington, 1948; Comd. 1 Armd. Bde, 1948-49; Comd. 1 Armd. Div., 1949; Imperial Defence Coll., London, 1950; Comd. 2 Armd. Bde., 1951; 20 Div., Nov. '51 to Feb. '52; Comd. 1 Armd. Div., Feb. '52 to Feb. '53; M. G. O., Feb 1953-April 1957. *Recreations:* Polo, Tennis, Squash, Golf, Swimming. *Club:* Delhi Gymkhana Club, New Delhi. *Address:* Army Headquarters, New Delhi.

VERMAN, Dr. Lal C., F.N.I., M.I.E., M.I.T.E., Ph.D., M.S., B.S. (Eng.), Director, Indian Standards Institution, since June 1947 and Hony. Adviser on Standardization, Govt. of India, since 1951. *b.* 1902 in Amritsar; *Educ.:* Punjab, California, Michigan and Cornell Univs., Teaching and Research in American Universities, 1925-31; Research Fellow, Indian Institute of Science, Bangalore, 1931-33; Research Physicist, London Shellac Research Bureau, 1933-36; his valuable research on the technology of lac led to wide industrial applications; Research Officer and Asstt. Dir., Industrial Research Bureau later amalgamated with the Council of Scientific and Industrial Research, 1936-44; Ag. Dir., Physical Laboratories, C.S.I.R., 1944-47; researches covering varied fields especially in industrial technology; Vice-President, International Organization for Standardization, Geneva, 1949-55; Chairman: Plastics Research Cttee., C.S.I.R., since 1950; Advisory Board of Indian Lac Cess Cttee., since 1956; responsible for secretariats of I.S.I. and several I.S.O Cttees. *Publications:* Over hundred papers in Indian, British and American scientific and technical periodicals; number of Indian, British and U.S.A. patents on variety of industrial processes. *Address:* Director, Indian Standards Institution, Delhi 8.

VIDYALANKAR, Amar Nath, Minister for Education, Labour, Labour Co-operatives, Stationery & Printing, Housing & Language, Punjab, since April 9, 1957. *b.* Dec. 8, 1902, at Bhera (West Pakistan); *Educ.:* Graduated from Gurukul Univ., Hardwar, 1925. Joined Lala Lajpat Rai's Servants of the People Society as life member, 1926-46; Editor 'Punjab Kesari Hindi Weekly', 1930-32; courted Jail 1931, 1932-33, 1940-41 and 1942-45; worked for Harijan uplift, trade unions and Kisan organisations; actively organized Kisan Schools with the late Prof. Brij Narain; was General Secy., Amritsar Dist. Congress Cttee. (Urban) for a long time; after partition joined A.I.C.C. office as Permanent Secy.; elected M L A, Punjab, from the special labour constituency, 1949; member, Lok Sabha, 1952-57; Pres., I N.T.U.C. (Regional Branch for Punjab, PEPSU and Himachal Pradesh), 1948-49, 1954-56; Minister for Labour, Labour Co-operatives and Health, Punjab, from Nov. 1956-April 1957. *Address:* Minister for Education and Labour, Chandigarh.

VIRA, Dharma, I.C.S., Secretary, Ministry of Rehabilitation, Govt. of India, since March 1956. *b.* 1906; *Educ.:* Lucknow and Allahabad Univs.; London School of Economics and Political Science. Joined Indian Civil Service, 1930; Joint Magistrate: Aligarh, 1930-34; Almora, 1934-36; Bareilly, 1936; Joint Secy., Industries and Agricultural Exhibition, Lucknow, 1936-37; Officiating Dist. Magistrate, Bareilly, 1937; Dist. Magistrate: Etah, 1937-38; Almora, 1938-41; with Commerce Deptt., Govt. of India, 1941-44; Deputy Secy., Industries and Civil Supplies Deptt., 1944-45; Textile Commr., 1945-47; Joint Secy. to Cabinet, 1947-50; Principal Private Secy. to Prime Minister, 1950-51; Commercial Adviser, High Comm. in London, 1951-53; Ambassador to Czechoslovakia, 1954-56. *Address:* 3, Clive Road, New Delhi.

VIRA, Prof. Dr. Raghu, M.A., Ph.D. (Lond.), D.Litt. et Phil. (Holland), M.P., Founder and Director, International Academy of Indian Culture. *b.* Dec. 31, 1902; *Educ.:* Punjab Univ., Lahore; Univ. of London; Royal Univ. of Utrecht, Holland. Member, Constituent Assembly of India; did researches in various spheres of ancient India and allied countries. *Publications:* Sets of English-Hindi Dictionaries of scientific and administrative terms totalling over two lakhs; edited the first complete set of scientific and mathematical textbooks in Hindi and Marathi numbering about three dozens; founded a comprehensive series of Indo-Asian literatures entitled Sata-Pitaka, including ancient literatures of Indonesia, China, Tibet, Mongolia and other countries. *Recreations:* Indian and foreign languages and literatures; Foreign relations and policies; Education and culture; Travel. *Address:* J 22, Hauzkhas Enclave, New Delhi 16.

VISVESVARAYA, Sir Mokshagundam, K.C.I.E., M.I.C.E., Bharat Ratna (1955), late Dewan of Mysore. *b.* Sept. 15, 1861; *Educ.:* Central Coll., Bangalore and Coll. of Science, Poona; holds Honorary Degrees from six Universities (D.Sc., of Calcutta; LL.D., of Bombay; D.Litt., of Benares; D.Sc., of Patna; D.Sc., of Allahabad; and LL.D., of Mysore). Asstt. Engineer, P.W.D., Bombay, 1884; Supdt. Eng., 1904; retired from Bombay Govt. Service, 1908; apptd. Sp. Consulting Eng. to Nizam's Govt., 1909; Ch. Eng. and Sec., P.W. and Rly. Depts., Govt. of Mysore, 1909; Dewan of Mysore, 1912-18; Chairman, Bombay Technical and Industrial Education Committee (appointed by the Government of Bombay), 1921-22; Chairman, Indian Economic Enquiry Committee (appointed by the Government of India), 1925; Chairman, Irrigation Inquiry Committee (appointed by Govt. of Bombay), 1938; President, the All-India Manufacturers' Organisation, 1941. *Publications: Reconstructing India* (1920), *Planned Economy for India* (1934) and *Memoirs of My Working Life* (1951). *Address:* No. 5, Cubbon Road, Bangalore.

VISWANATH, Rao Bahadur Bhagavatula, C.I.E. (1943), D.Sc. (Hon.), F.B.I.C. (London), Rao Bahadur (1929), Director, Eastern Technical Laboratories. *b.* January 1, 1889; *Educ.*, Vizianagram. Director, Indian Agricultural Research Institute, New Delhi, 1935-44; Director of Agriculture, Madras, 1944-47; member: F.A.O. Rice Study Group, 1947; F.A.O./E.C.A.F.E Study Group, 1948; University Professor, Banaras, 1948; Director of Agriculture and Food Commissioner, Rajasthan, 1949; Regional Agricultural Production Commissioner, Ministry of Food and Agriculture, New Delhi, 1950, 1951. President, Agricultural Sections, Indian Science Congress, 1937; President, Indian Society of Soil Science, 1935-37; Vice-President, Society of Biological Chemists, India, 1938; foundation Fellow of National Institute of Science, India; Indian Academy of Science; Indian Chemical Society; Adviser, Agricultural Programmes, Planning Commission, Govt of India, 1952. *Publications:* Several original contributions on soils and plant nutrition and on the utilisation of agricultural products and wastes. *Address:* Krishnanivas, 8 A/85-W.E. Area, Pusa Road, New Delhi.

VISWANATHAN, Venkata, I.C.S., Special Secy., Ministry of Home Affairs, Govt of India, since April 1, 1958 *b.* in Malabar, South India. *Educ.:* Pusa High School, Central Coll., Bangalore, University Coll., London, Balliol Coll., Oxford Joined the I.C.S. in 1931 in U.P. cadre, and was appointed Magistrate at Agra and Benares, 1931-36; Settlement Officer, 1936-40, Under-Secretary and Deputy Secretary (1940-43) and Secretary to the Indian delegation to Burma (1941), Secretary to the Representative of the Government of India in Ceylon (1943-44) and Secretary to India's Envoy to Burma (1944-45); chosen as Alternate Delegate to the United Nations Special Commission on Palestine, 1947; Deputy High Commissioner in Pakistan, 1947-48; Chief Secretary, Madhya Bharat Govt., 1948-49; its Adviser, July 1949-April 1950; Chief Commissioner, Bhopal, 1950-52; Joint Secy., Ministry of Home Affairs, 1952-58. *Address:* Ministry of Home Affairs, Govt. of India, New Delhi.

VIZIANAGRAM, Maharajkumar Dr. Vijaya of, International cricketer. *b.* December 28, 1905; *Educ.:* Princes' College, Ajmer, where he won his colours at tennis and cricket, and set up a record; Haileybury Public School, England. Captained India in England, 1936; Patron of Indian Sport; was Minister for Justice, U.P. Govt.; has travelled extensively in Europe and America; member of the Court of the Benares Hindu University since 1935 and of the Executive Council since 1940; awarded by Sir S. Radhakrishnan, Vice-Chancellor of the University, the highest Blue-Ribbon of the University, as a special mark of distinction at the convocation of 1940; President of the Andhra Mahasabha, 1941-44; was unanimously elected President, 44th Session of the All-India Kshatriya Mahasabha held at Motihari (Bihar) in June 1944; received Hon. Degree of Doctor of Laws from the Benares Hindu University, at its annual convocation in Nov. 1944; member, Uttar Pradesh Legislative Council (Upper House), since 1952; was Vice-Pres., Board of Control for Cricket in India, for six years; was unanimously elected its Pres., Oct. 1954, and again 1955-56; organised a tour of the New Zealand Cricket team in India during his first year's presidentship; during the second term of office as Pres., succeeded in getting the Australian Cricket Board to agree to a tour by their cricket team in India for the first time, consisting of three test matches; has been Pres., U.P. Cricket Assoc. from 1946 and Andhra Cricket Assoc. from 1954; has been member, M.C.C. and Surrey County Cricket Clubs, England since 1936. *Address:* Vijayanagaram Bhavan, Benares.

VYAS, Hon. Justice Devshankar Velankarshankar, B.A. (Bom.), M.A. (Oxon.), I.C.S., Judge, High Court, Bombay, since March 5, 1952. *b.* Aug. 14, 1896; *Educ.:* Fortuniter; Bombay and Cambridge; passed B.A. exam., Bombay Univ. with 1st Class Hons. in Sanskrit and was a Dakshina Fellow in Sanskrit at Wilson Coll., Bombay, 1919-20. Joined the Indian Civil Service, Nov. 1923 and worked as Asstt. Collector in Ahmedabad, Sind and various other places; was Collector of Hyderabad (Sind) for some time in 1927; District Judge at several places including Ahmedabad, Belgaum, Surat, Broach and Nadiad, from 1931; officiated as Judicial Commissioner, Ajmer-Merwara, 1945; Secy. to Govt., Legal Dept. and member, Industrial Court; was Commissioner, Southern Division, Sept. 1947–Sept. 1948; Commissioner, Central Division, Sept. 1948–March 1950. *Address:* Palm Court, behind Sachivalaya, Bombay 1.

VYAS, Jainarayan, M.P., ex Chief Minister, Rajasthan (Nov. 1952–Nov. 1954). *b.* 1898 at Jodhpur; *Educ.:* Had his early education locally. Worked on the railways for some years; became a whole-time political worker and joined the Congress; organised the Marwar Peasant Movement; courted jail five times for political activities; externed from Jodhpur State for many years; settled in Bombay and turned to political journalism editing the *Akhand Bharat*; elected General Secy., All-India States People's Conference, 1939-49; Chief Minister, first popular ministry, Jodhpur, 1948; was Pres., Rajputana P.C.C.; was Minister, Rajasthan. *Address:* Jaipur (Rajasthan).

WADALIA, Lt. Gen. Mohinder Singh, G.O.C., XV Corps, since March 26, 1957. *b.* Nov. 30, 1908; *Educ.:* Aitchison Coll. Lahore; Sainik School, Dehra Dun,; R.M.C., Sandhurst. Commissioned, Jan. 31, 1929; served with 4/19 Hyderabad Regiment (now 4 Kumaon); transferred to 16 Light Cavalry, 1934; saw service on the staff in G. Hq. Persia and Iraq Command during World War II; subsequently held various Staff and Command appointments including the following:— G.S.O. 1 Army Hqrs., 1944-45; Deputy Head of the Military Mission in Berlin and subsequently Head of the Mission from the date of Independence, 1947; Brigadier, General Staff, 1948; Military Adviser to the High Commissioner in the U.K., 1948-49; Commander, 1st Armoured Brigade, 1950-51; Commandant, National Defence Academy, 1951-52; Commander, 1st Armoured Division, 1953-55; Chief of the General Staff, 1956-57. *Recreations:* Reading literature and military history; Sports—Squash Racquets, Polo. *Address:* Headquarters XV Corps, C/o 56 A.P.O., New Delhi.

WADIA, Ardeshir Ruttonji, Rajasevasakta, B.A., Bar-at-Law, Director, Tata Institute of Social Sciences, Bombay. *b.* June 4, 1888; *Educ.:* St. Xavier's High School and Wilson College, Bombay; Middle Temple, London, for Bar; St. Catherine's, Oxford; Fitzwilliam Hall, Cambridge. Prof. of English and Philosophy, Wilson College, Bombay, 1914; Lecturer in Psychology, University of Bombay, 1914-16; Professor of Philosophy, Mysore Univ., 1917-42; Secy., Inter-Univ. Board, 1932-37; D.P.I., Mysore (Retd.); Principal, Victoria Coll., Gwalior (1946-49); Pro-Vice-Chancellor, Maharaja Sayajirao Univ., Baroda, 1949-52; Governor of District No. 51, Rotary International, 1951-52; member, Indian Delegation to UNESCO Conference, 1952 and 1954. *Publications: The Ethics of Feminism; Civilization as a Co-operative Adventure; Pragmatic Idealism in Contemporary Indian Philosophy, Expositor, Religion as a Quest for Values; The Future of English in India;* Editorial Board, History of Philosophy: Eastern and Western. *Address:* Kalpana, 96, Nepean Sea Face Road, Bombay.

WADIA, Sreenivasa Hanumayya, M.A., D.Sc., F.G.S., F.N.I., F.A.Sc., F.R.S., Geological Adviser, Govt. of India. *b.* 1883; *Educ.:* Maharaja College, Bombay University, Asst. of Geology, Prince of Wales College, Jammu (Kashmir), 1907-20; Geological Survey of India, 1921-39; carried out the Geological Survey of N.W. Himalayas, Director, Geological Survey of India, 1939-43; Director, Mineral Resources Department of the Government of Ceylon 1943-44; President, Indian Science Congress, XXIX Session, 1942; President, National Institute of Science of India, 1945-46; "Back Award," Royal Geographical Society, London, 1934; "Lyell Medal" awarded by Geological Society, London, 1942. *Publications: Geology of India; Syntaxis of N. W. Himalayas* (1931); *Geology of Nanga Parbat and Gilgit District* (1933); *Structure of the Himalayas* (1936). *Address:* 10, King George Avenue, New Delhi.

WADIA, Neville Ness, Chairman, Nowrosjee Wadia & Sons (Private) Ltd. and Bombay Dyeing & Mfg. Co. Ltd. *b.* Aug. 22, 1911; *Educ.:* Malvern & Trinity, Cambridge. *Address:* Bella Vista, Pedder Road, Bombay 26; *Office:* The Bombay Dyeing and Mfg. Co. Ltd., Neville House, Ballard Estate, Bombay 1.

WADIA, Mrs. Sophia, Editor, *The Aryan Path*, organ of the Indian Institute of World Culture, and *The Indian P.E.N.*, Bombay. *b.* Sept. 13, 1901; *Educ.:* Lycee Moliere, Paris; Columbia Univ., New York; School of Oriental Studies, London. Associate of The United Lodge of Theosophists; Lecturer, Founder-Organizer of the P.E.N. All-India Centre; a Founder of the Indian Institute of World Culture, Bangalore; and worker in women's educational, social and cultural movements. *Publications: The Brotherhood of Religions; Preparation for Citizenship. Recreation:* Reading *Address* "Aryasangha," 22, Narayan Dabholkar Road, Malabar Hill, Bombay 6.

WANCHOO, Chief Justice Kailas Nath, B.A. (Allahabad), I.C.S., Chief Justice Rajasthan High Court* since Jan. 2, 1951. *b.* Feb. 25, 1903; *Educ.*, Pandit Pirthi Nath High School, Kanpur; Muir Central College, Allahabad and Wadham College, Oxford Passed into the Indian Civil Service, 1924; joined service, Dec 1, 1926, served as Joint Magistrate and District and Sessions Judge in various Districts in Uttar Pradesh; Judge, Allahabad High Court, Feb 1947-Jan. 1951; Chairman, U.P. Judicial Reforms Cttee., 1950-51; reported to the Govt. of India on the financial and other implications of the new State of Andhra Feb. 1953; Sole Member, Indore Firing Enquiry Commn., 1954; Chairman, Dholpur Succession Case Commn., 1955; Member, Law Commn., India, 1955. *Address:* 2, P.W.D. Road, Jodhpur.

WANCHOO, Niranjan Nath, M.A. (Punjab), O.B.E. (1945), I.C.S., Secy., Ministry of Finance (Deptt. of Expenditure), Govt. of India, since Jan. 1958; also member, Univ. Grants Commission, since Feb. 14, 1958. *b.* May 1, 1910; *Educ.:* Government Coll., Lahore; King's Coll., Cambridge. Joined the I.C.S. in 1934; served in Bihar and Orissa, subsequently in the Commerce and Food Departments of the Govt. of India; Imperial Defence Coll., London, 1947; Director-General of Ordnance Factories, 1948; Jt. Secy., Ministry of Defence & Controller-General of Defence Production, Govt. of India, 1948-57. *Recreations:* Golf. *Address:* 4, Akbar Road, New Delhi.

WANKHEDE, Shankarao Krishnarao, B.A., Bar-at-Law, Minister for Planning, Development, Electricity & Industries, Bombay State, since April 1957. *b.* Sept. 24, 1914; *Educ.:* Graduated from Morris Coll., Nagpur, 1934; called to the Bar, 1937. A leading educationist, a keen sportsman and a progressive agriculturist; connected with 67 institutions either as an office-bearer or an ordinary member; unanimously elected Chairman, Nagpur District Council, 1938-48; jailed for political activities, 1940; elected member, Nagpur Univ. Executive Council, 1943; was Treasurer, Nagpur Univ. for 9 years; was the first Mayor of Nagpur Corporation; was subsequently elected for two more years; represented India at the International Conference of Agricultural Producers' Organisations in the U.S.A. and later [illegible] Conference of [illegible] & Agriculture Organisation [illegible] Central [illegible] Vice-[illegible]; was

* Appointment as Judge, Supreme Court of India, is expected.

elected Dy. Speaker, M.P. Leg. Assembly after the first General Elections; continued Dy. Speaker in enlarged Bombay State's first Assembly; elected M.L.A., Bombay, 1957. *Address:* Sachivalaya, Bombay.

WASAN, Jagindar Nath, Bullion Merchant, associate business, Trade & Finance Service (India), Neela Films, and Neeli Publications, etc. *b.* Jan. 12, 1928; *Educ.:* Privately. Planning to produce a picture and to publish a literary Hindi monthly and a financial fortnightly to serve the business community; has world-wide business relations. *Publications:* Short stories and financial reviews in periodicals. *Hobbies:* Literature and music. *Address:* 288, Darība Kalan, Delhi 6.



WASNIKAR, Shivram Shripad, Marathi litterateur and screen-play writer. *b.* Oct. 1893, at Kolhapur. Is a novelist; was Manager, *Dnyan Prakash*, daily, Bombay Branch; was Head of Story Deptt., Prabhat Film Co. Ltd., Poona; Partner, Rashtra Vaibhaw Press, Bombay, 1939-54. *Publications:* Novels: *Bhikarin, Visha-prayog, Kalacha Kal, Ladhaipoorvi, Ramshastri, Dhruva, Sati Ahalya*, etc., author and dialogue-writer of *Sant Tukaram, Dnyaneshwar, Ramashastri* and other film-hits; Stories: *Rukmini Swayamvar, Murlivala; Sant Eknath* etc.; Dialogues: *Tulsidas, Apna Ghar, Bhakta Vidur*, etc. *Address:* 1, Prabhat View, L. N. Road, Dadar, Bombay 14.

WAZIR, Mr. Justice Janki Nath, B.A. (Punjab), LL.B. (Lond.). Bar-at-Law, Middle Temple. Chief Justice, High Court of Judicature, Jammu and Kashmir State, since April 1948. *b.* Dec. 6, 1905; *Educ.:* Kashmir and London Univ. Was enrolled as an Advocate of the Lahore High Court, 1931; Part-time Law Lecturer, Law Coll., Lahore, 1933-36; Judge, High Court of Judicature, Jammu and Kashmir State, Dec. 1936 - April 1948; Vice-Chancellor, Univ. of Jammu and Kashmir, June 1950-57. *Address:* Chief Justice, Jammu and Kashmir State, Srinagar.

WENKEL, Andrew Donald, Managing Director, Firestone Tyre & Rubber Co of India Private Ltd., Sewree, Bombay, since July 19, 1945. *b.* Feb. 19, 1905; *Educ.:* Graduated McKinlay High School, Marshfield, Wisconsin, U.S.A. Sales Correspondent, Firestone International Company, 1926; transferred to Firestone, India, as Bombay District Manager, June 1939; Asstt. Sales Manager, Firestone Tyre & Rubber Co. of India Ltd., 1940; Sales Director, 1942. *Recreations:* Golf, Shooting, Photography. *Clubs:* Bombay Presidency Golf Club; Willingdon Sports Club; Royal Bombay Yacht Club; Bombay Rotary Club; Delhi Golf Club Ltd. *Address:* Terrace Flat, Kanani House, Pedder Road, Bombay 26.



WHEELER, Lieut.-General Sir Harold, K.B.E. (1956), C.B. (1953), M.I.C.E., M.I.E., M.I.E. (Ind.), Director, Central Building Research Institute, Roorkee, since Oct. 15, 1955. *b.* June 1, 1897; *Educ.:* Mountjoy School, Dublin; R.M.A., Woolwich; Cambridge Univ.; [illegible] 1917; Adjt., Bengal Sappers & [illegible]; Ind. Mil. Academy, 1923-26; [illegible] 1934; Prof., Civil Engineering, [illegible]; C.R.E. 1st Armd. Div. [illegible] Staff, 1942-43; C.E. IV [illegible] Comd. S.M.E., 1945-47; C.E., [illegible] 1947; Engineer-in-Chief, [illegible] 1953-55; Pres.: Inst. [illegible] Surveyors (Ind.), 1954; [illegible] C.B., 1951-54; Colonel-[illegible] Engineers, 1951-55. *Recreations:* Mountaineering, Ornithology. *Clubs:* Delhi Gymkhana; United Service, London; Alpine, Himalayan. *Address:* C.B.R.I., Roorkee, U.P.

WINCHESTER, Most Hon. the Marchioness of (the former Miss Bapsy Pavry), M.A., Litterateur; received on the occasion of her marriage with the Most Hon. the Marquess of Winchester numerous messages of good wishes from world over, including those from Her Majesty Queen Mary and other members of British and European Royalty; accorded Civic Reception by Mayor of Bombay at Corporation Hall (March 1953), by Mayor of Winchester at historic Guildhall (July 1953) and by Mayor of Winchester (Virginia, America) at City Hall and presented with Key to the City, Feb. 1955; also by London County Council at County Hall (June 1953) and by City Corporation of New York at City Hall (Dec. 1954); conferred Order of Merit by the Shah of Iran (1955); Honorary Member of British-American Society; Member of Council of World Alliance for International Friendship; *Educ.:* Queen Mary High School and St. Xavier's College, Bombay; M.A., Columbia University. Visited England every year, since 1924; presented at Their Majesties' Court, 1928; received by President Coolidge (1924), by Pope Pius XI (1926) and President Lebrun (1938). Guest of the Shah of Iran and King of Afghanistan (1934), of King Abdullah of Jordan, King Gazi of Iraq, President Kemal Ataturk, King Boris and Queen Joanna, King Carol and Queen Marie, Prince Regent Paul and Queen Marie of Yugoslavia and the Crown Prince and Crown Princess of Italy (March-April 1937), of King Leopold and Queen Elizabeth of Belgium, King George of Greece and King Farouk of Egypt (Aug.-Sept. 1937), also of Emperor Haile Selassie and Empress Menen in Ethiopia (1946); and of the King of Morocco (1952), attended the historic reception given in Paris by the President of France in honour of King George and Queen Elizabeth (1938); Member of Committee and Vice-Chairman of various Charity Balls, held in London in 1928-58 in the presence of members of the Royal Family; attended the historic Peace Conference in Paris (1946), Asian Relations Conference in New Delhi (1947), Parliamentary Conference on World Govt. (London, 1954), and represented Karnatak Univ. at Columbia Univ. Bicentennial Convocation (New York, 1954); awarded Bicentennial Medal. *Publications: Heroines of Ancient Iran* (Cambridge, 1930); limited deLuxe edition of 250 numbered copies (Hutchinson, London, 1955). *Address:* Malabar Hill, Bombay.



YAZDANI, Ghulam, B.A. (Punjab), M.A. (Calcutta), D.Litt. (Osmania), D.Litt. (Aligarh), O.B.E. (1935). Chairman, Editorial Board of the History of Deccan, since 1948. *b.* March 20, 1885; *Educ.:* Punjab and Calcutta; Griffith's Prizeman in History of Calcutta Univ.; Govt. of India Research Scholar in Archaeology, 1905-07; gold medallist in Arabic and Oriental Classics with English, 1906. Prof. of Arabic and Persian, Govt. Coll., Rajshahi, 1909-13; Prof. of Arabic, Govt. Coll., Lahore, 1913-14; Dir. of Archaeology, Hyderabad State, 1914-43; Epigraphist to the Govt. of India for Moslem Inscriptions, 1915-42; Gen. Pres., All-India Oriental Conference, 1941; Fellow of the Royal Asiatic Society of Bengal and of the Bhandarkar Oriental Research Institute; Hon. Correspondent, Archaeology Deptt., Govt. of India; Pres., Anjuman Taraqqi-i-Urdu, Hyderabad, 1954. *Publications: Mandu, the City of Joy; Ajanta*, Parts I to IV; *Bidar: Its History and Monuments; Fine Arts of the Deccan; Shahjahan Nama*, Vols. I-III (Bibliotheca Indica series). *Address:* Orange Grove, Khairatabad, Hyderabad, Dn.

ZAHEER, Syed Ali, B.A., LL.B., Bar-at-Law, M.L.A., Minister for Justice, Food and Civil Supplies, Uttar Pradesh, since April 1957. *b.* March 21, 1896; *Educ.:* M.A.O. College, Aligarh; Canning College, Lucknow; Law College, Allahabad; Oxford. Called to Bar, 1922; member, Lucknow Municipal Board, 1925-46; member, Legislative Council, 1930-37 and again from 1939 till supersession of legislature; left Muslim League, 1937; organised Shia community; elected Pres., All India Shia Political Conference, 1941; re-elected Pres., 1945; same year convened Shia All-Parties' Conference which agreed to dissociate itself from Muslim League policy; Member for Law and Communications, Nehru's first Interim Cabinet; resigned in October, 1946 when Muslim League joined Viceroy's Executive Council; Indian Ambassador in Iran, 1947-51; Minister in Iraq, concurrently, 1949-51; Designated Ambassador to Indonesia, June 1951; but before leaving to take up the post, became Minister of Justice in Uttar Pradesh Cabinet in Aug. 1951; also assigned portfolio of Labour in Oct. 1951; elected to Legislative Assembly, Jan. 1952; became Minister for Justice and Excise in May 1952; Minister for Justice and L.S.G., 1955-57; reappointed Minister, U.P., in April 1957; member, A.I.C.C., since 1955. *Publications: The Dead Past;* Articles published in various newspapers and magazines. *Recreations:* Gardening, Writing articles for Press. *Address:* 23, Ashok Marg, Lucknow, U.P.

ZAHEER, Syed Hasan, B.A. (Allahabad), B.A. (Hons.) (Oxford), I.C.S., Member, Union Public Service Commission *b.* Nov. 16, 1899; *Educ.:* Muir Central Coll., Allahabad; Canning Coll., Lucknow; New Coll., Oxford. Joined the Indian Civil Service and posted to U.P. (1923); Assistant Commissioner, Lucknow, 1924-26; Joint Magistrate, Meerut, 1926-28; Collector, Banda, 1929-33; Collector, Ballia, 1933-37; Deputy Secy. to Govt. of U.P., 1937-40; Deputy Secy. to the Govt. of India, 1940-43; Secy to Govt., U.P., 1944-45; Commissioner of Division in the U.P., 1945-55; member, Board of Revenue, U.P., 1955-57. *Address:* Member, Union Public Service Commission, Dholpur House, Shah Jahan Road, New Delhi 2.

ZAKARIA, Dr. Rafiq, M.A. (1st class), Ph.D. (London), Bar-at-Law, Chancellor's Gold Medallist (Bombay Univ.), Advocate, Bombay High Court and one of the Special Public Prosecutors; Editor-in-Chief, *Indo-Arab World b* April 5, 1920; *Educ.:* Anglo-Urdu High School, Poona; Ismail Yusuf Coll., Govt. Law Coll., London Univ. and Lincoln's Inn. Political correspondent on Indian affairs for the 'Observer' (London) (1947-48); Pres.: London Majlis (1945-47); Chairman, Federation of Indian Students' Societies in British Isles and Europe (1947); Delegate to Inaugural Session of International Union of Students held at Prague (1946); General Secy., Bombay Youth Congress (1950-51); Hon. General Secy., Indo-Arab Society; Chairman, S. S. Musafirkhana; Convener-Secy., Id Celebration Cttee.; member: Citizens' Advisory Cttee., Govt. of Bombay; Central Advisory Cttee., National Cadet Corps appointed by the Govt. of India; Programme Advisory Cttee., A.I.R., Bombay; Port Haj Cttee.; has travelled widely; writes to several Indian and foreign newspapers and broadcasts often. *Publications:* Thesis on *Muslims in Indian Politics*, 1885 to 1906 (under print). *Recreations:* Reading, Writing. *Clubs:* Radio Club and W.I. Turf Club, Bombay. *Address:* "Gupta Mahal", Churchgate Reclamation, Bombay.

ZIAUD Din, His Excellency Mian, Barrister-at-Law, The Grand Cordon of the Order of the Rising Sun First Class (Japan) (1953); High Commissioner for Pakistan in India. *b.* July 30, 1901; *Educ.:* Islamia Coll., Peshawar; The Middle Temple, London; London School of Economics. Started practice at Peshawar; became Pres., Peshawar Bar Assoc.; appointed Public Prosecutor for the Division of Peshawar; again returned to

private practice; elected to Provincial Legislature and became Hon. General Secy., Muslim League Party of N.W.F.P., 1937-47; represented Pakistan in the Dominion Relations Conference held at Toronto, Canada, 1949; attended the 4th Session of the U.N. General Assembly, 1949; was Pakistan's Representative in the U.N. Commission for Eritrea; Pakistani member of the U.N Commission for Unification and Rehabilitation of Korea, 1951-53; was its Chairman for some time, attended the 6th session of U.N Assembly; Pakistan's First Ambassador to Japan, 1952-July 1953; Chairman, Governor-General's Commission in Sudan, Feb. 1953-Jan. 1956. *Recreations:* Reading; Golf. *Address:* Gul-E-Rana, 8-B, Hardinge Avenue, New Delhi.

KILL, Paul, Managing Director, Art Films of Asia Ltd.; Producer-Director of feature films, documentary film specialist of international reputation. *b.* and *Educ.:* in Germany. Took an active interest in film and dramatic art at an early age; was associated with the UFA Studios in Berlin for five years; travelled extensively throughout Africa, Asia and America, making documentaries as a free-lance; worked in Hollywood with Max Reinhardt and William Dieterle; in India since 1942; was in charge of the External Section of Govt.'s Information Films of India; Pres., Indian Documentary Producers' Assoc.; member, Executive Cttee., Film Federation of India; member, I.M.P.P.A.; Life-Member, Children's Film Society; publisher of the quarterly, 'Indian Documentary'; is known as a critical writer on films and social subjects; has made more than 100 documentaries, including three for the U.N.O., many of which have received international awards; his feature films are 'Our India' in English (released abroad as 'Dawn of India'), 'Hindustan Hamara' and 'Zalzala' in Hindustani; is now an Indian national. *Address:* "Olympia", Bhulabhai Desai Road, Bombay 26.



SPORTS (1957-58)

Basketball

Men · Services.
Women : West Bengal.

Billiards

National Championship · Chandra Hirjee.
Snooker : Wilson Jones.

Cycling

National Championships

Men

1,000 metres sprint . Mahomed Kasam 1,000 metres time-trial : Pervez Irani. 4,000 metres individual pursuit · Fali Panthaky. 4,000 metres team pursuit : Bombay. 160 kilometres road race : Supravat Chakravarti.

Women

1,000 metres scratch . Mahabanu Irani 2,000 metres lap race : Yasmin Ladak.

Juniors (Boys) : 1,000 metres scratch · Jimy Dalas. (Girls) : 1,000 metres scratch . Viloo Patel.

Cricket

Ranji Trophy : Baroda.

Football

Santosh Memorial Trophy : Hyderabad
Rover's Cup : Hyderabad Police.
I.F.A. Shield : Mohammedan Sporting Club.

Golf

All-India Championship : J. R. B Kean.

Hockey

National Championship : Indian Railways.
Bombay Gold Cup · Punjab Hawks.
Aga Khan Cup : Burmah-Shell.
Beighton Cup : Mohan Bagan.

Indian National Games

Men's Events

100 metres : N. Ferrao 200 metres · Havildar Milkha Singh. 400 metres · Havildar Milkha Singh. 800 metres : Havildar Sohan Singh. 1,500 metres : Babu Singh. 3,000 metres steeplechase : Lance Naik Pan Singh. 5,000 metres : Naik Arjun Singh. 10,000 metres : Mukhteam Singh 110 metres hurdles : Havildar Srichand. 400 metres hurdles : Jagdev Singh. 50 kilometre walk · Naik Lachman Singh 10,000 metres walk : Naik Jora Singh. 4 × 100 metres relay . Services 4 × 400 metres relay . Services. Marathon . Gulzara Singh Broad Jump · Havildar Ram Mehar High Jump · Saranjit Singh Hop, Step and Jump : Havildar Mohinder Singh Shot Put : Parduman Singh Pole Vault . A. Ramachandran Javelin Throw : Bakhshish Singh Discus Throw : Jemadar Parduman Singh Hammer Throw . Havildar Devi Dayal Team Championship : Services. Decathlon Champion : C M Muthia.

Women's Events

100 metres : Mary Leela Rao. 200 metres . Stephie D'Souza 80 metres hurdles : Mary Leela Rao. 4 × 100 metres relay · Bombay High Jump . Vasanthakumari Broad Jump Deanna Syme Shot Put . Elizabeth Davenport Discus Throw · C O'Connel Javelin Throw : E. Davenport. Team Championship Bombay.

Kabadi

Men · Bengal

Lawn Tennis

National Championships

Men's Singles . Ulf Schmkit Men's Doubles · Krishnan and Naresh Kumar. Mixed Doubles : Naresh Kumar and Mrs K. Singh Women's Singles Mrs J B Singh Women's Doubles . Not contested. Juniors' Singles : Premjit Lal.

National Badminton Championships

Men's Singles · Trilok Nath Seth. Men's Doubles : R. D. Vimawalla and D N. Dhongade Women's Singles : Prem Prashar. Women's Doubles : Prem Prashar and Sushila Kapadia. Mixed Doubles : Sushila Kapadia and C. D. Deorss Juniors' Singles . S Goel. Team Championship : Uttar Pradesh.

National Boxing

Flyweight : Devandanam (Services). Bantam : S. Khatau (Railways). Feather : Sarwan Singh (Services). Lightweight : Sunder Rao (Services). Light-heavyweight : Sam Raj (Services). Welterweight : Raghunathan (Services). Light-middle weight : B D. D'Souza (Railways). Middleweight : Harnam Singh (Services). Light heavy : S Bose (Railways). Heavyweight . Mange Ram (Services).

Wrestling

Flyweight : Rabin Hazra. Feather · Uday Chand Light : Syam Sunder . Welter . Lakshmi Panday Middle : Madhao Singh Lt.-Heavy : Gurdayal Singh Heavy . Lila Ram · Bantam : Not contested

Bombay Races

1,000 Guineas Maharaja of Kashmir's "Sunny Downs"

2,000 Guineas : Maharaja of Kashmir's "Decoration"

The Indian Oaks : Maharaja of Kashmir's "Sunny Downs"

The Derby Mr M P Davis's "Canny Scott"

The Eclipse Stakes : Raja of Ramnad's "Rock of Gibraltar"

Poona Races

Colts and Fillies : Trial . Mr K B. Daga's "Nautilus."

Calcutta Races

Indian Champion Cup Messrs Bardwan, Williamson, Khaitan and Oldman's "The Spook"

Indian Independence Cup Messrs Bardwan, Williamson, Khaitan and Oldman's "The Spook"

Rugby

All-India Tournament . South India.

Table Tennis

National Championship

Men's Singles : Gautam Divan. Men's Doubles . Gautam Divan and Sudhir Thackersey. Women's Singles : Rachel John. Women's Doubles Prisca Nunes and Meena Parande Mixed Doubles Sudhir Thackersey and Meena Parande Juniors' Singles : Deepak Ghosh.

Team Championship

Men : Bombay. Women : Bombay. Juniors ; Delhi.

Volleyball

Men : Delhi.

ASIAN GAMES

The Indian contingent for the Asian Games which were held in Tokyo between 24th May and 1st June, 1958 consisted of seventy-nine members. India participated only in hockey, athletics, boxing and volleyball.

The following are the names of the competitors :

Hockey : Doshamuthu, Laxman, Balkishen Singh, Mohamed Yakoob, Balkishan Singh, Gurjeet Singh, Claudius, Jagjit Singh, Gurnewak Singh, Ratti, Caleb, Balbir Singh (Sn.), Balbir Singh (Jn.), Peter, Udham Singh, Gurdev Singh and K. R. Chavan.

Football : Thangaraj, Narayan, Aziz, Latouf, Ahmed Hussain, Saleem, Bir Bahadur, Kamptya, Noor Mahomed, Nandi, P. K. Banerji, C. Goswami, Damodaran, Rahmtulla, Bahman and Parthasan.

Athletics (Men) : Milkha Singh, Daljeet Singh, Maria Ram, Mukhtiar Singh, Pan Singh, Ajit Singh, Saranjit Singh, Ram Mehar, Mohinder Singh, Parduman Singh, Ishar Singh, Balkar Singh, Alex Silveira, J. B. Joseph, Gulzara Singh and C. M. Muthiah.

Athletics (women) : Mary Leela Rao, Violet Peters, Maria Brown, Stephie D'Souza and Elizabeth Davenport.

Volleyball : Gurdev Singh, Bardhan, Arunachalam, Rehana, T. P. Kair, N. K. Agarwal, Gurbux Singh, Sardarilal and Srikrishna.

Boxing : Hari Singh (middleweight), Sunder Rao (light-middleweight) and Raghunathan (welterweight).

India won five gold medals, four silver medals and four bronze medals.

The gold medals were awarded to :

Milkha Singh, 200 metres ; Milkha Singh, 400 metres ; Parduman Singh, Putting the shot, Balkar Singh, Discus Throw ; Mohinder Singh, Hop, Step and Jump.

The silver medals were awarded to : the Hockey Team ; Stephie D'Souza, 200 metres ; Elizabeth Davenport, Putting the shot ; Hari Singh, Boxing (middleweight).

The bronze medals were awarded to : Sunder Rao, Boxing (lightweight) ; Parduman Singh, Discus Throw ; the Volleyball Team ; 4 × 100 metres women's Relay team (Violet Peters, Mary Leela Rao, Stephie D'Souza and Maria Brown)

LATE PARTICULARS

Under this we publish articles and give notes on items which could not be included in the body of the text.

AWARDS AND PRIZES

Awards are now given by the President every year to persons who have attained distinction in art, science or literature and to those who have rendered meritorious service to the country.

These awards are Bharat Ratna, Padma Vibhushan, Padma Bhushan and Padma Shri.

They were instituted through an announcement in the Gazette of India of January 15, 1955.

The awards for the year are announced on Republic Day (26th January).

Bharat Ratna: This Award is made for exceptional work for the advancement of art, literature or science and in recognition of public service of the highest order.

The decoration takes the form of a peepal leaf, 2 5/16 inches long, 1¼ inches wide and ⅛ of an inch thick. It is of toned bronze. On its obverse is embossed a replica of the sun, below which the words "Bharat Ratna" are embossed in Hindi. On the reverse are the State emblem and the motto, also in Hindi. The emblem, the sun and the rim are of platinum.

Padma Vibhushan: This Award is made for exceptional and distinguished service in any field, including service rendered by Government servants.

The decoration is circular in design, with a geometrical pattern superimposed on the circle. The diameter of the circular portion is 1¼ inches and the thickness ⅛ of an inch. On the obverse, there is a lotus flower embossed on the circular space. The word 'Padma' is embossed in Hindi above and the word 'Vibhushan' below the lotus flower. On the reverse are the State emblem and the motto in Hindi. It is of toned bronze. The rim, the edges and all embossing on either side are of white gold, except the name of the decoration, which is of gilt silver.

Padma Bhushan: This Award is made for distinguished service of a high order in any field, including service rendered by Government servants.

It has the same design as the Padma Vibhushan with the difference that on the obverse the word 'Padma' appears above the word 'Bhushan' below the lotus flower. Further, the rim, the edges and all embossing on either side are of standard gold except the name of the decoration which is of gilt gold.

Padma Shri: This is awarded for distinguished service in any field including service rendered by Government servants.

The name of the decoration is embossed in Hindi with the word 'Padma' above the word 'Shri' below the lotus flower on the obverse. The rim, the edges and the embossing on either side are of stainless steel, except the make of the decoration, which is of gilt silver, other details of the design being the same as those of the Padma Vibhushan.

Including the 1958 awards, the number of persons who have received Bharat Ratna is 8, Padma Vibhushan 14, Padma Bhushan 79 and Padma Shri 71.

The eight persons who have received Bharat Ratna are: Mr. Jawaharlal Nehru (1954), Mr. C. Rajagopalachari (1954), Dr. S. Radhakrishnan (1954), Dr. C. V. Raman (1954), Dr. Bhagwan Das (1955), Mr. M. Visvesvaraya (1955), Pandit Govind Ballabh Pant (1957) and Dr. D. K. Karve (1958).

1957 AWARDS

Bharat Ratna: Govind Ballabh Pant.

Padma Vibhushan: Sri Prakasa; Motilal Chimanlal Setalvad (Attorney-General, India); Ghanshyamdas Birla.

Padma Bhushan: Dr. Abid Hussain (Professor of Literature, Jamia Milia Islamia, New Delhi); Dr. Bhikham Lal Atreya (Head of the Department of Philosophy, Banaras Hindu University); Shrimati T. Balasaraswathy (Bharata Natyam-Artiste); Dr. R.M. Alagappa Chettiar (Philanthropist, Madras); Dr. Hazari Prasad Dwivedi (Head of the Department of Hindi, Banaras Hindu University); Shrimati Lakshmi N. Menon, M.P.; Dr. Radha Kumud Mookerji, M.P.; Ustad Mushtaq Hussain Khan (Musician); K. A. Nilakanta Sastri (Historian and Indologist); Dr. Kishakke Covilagam Kutti Ettan Raja (Formerly Director General of Health Services, Government of India); Shrimati Andal Venkatasubba Rao (Founder, Seva Sadan, Madras); Pandit Shrikrishna N. Ratan (Musician, Vice-Chairman, Music Audition Board, All India Radio). Syamnanand Sahaya; Govind Sakharam Sardesai (Maharashtra historian); Roshi Sen (Scientist, Vivekananda Laboratory, Almora U.P.); Dr. Siddheshwar Varma (Sanskrit Scholar and Philologist).

Padma Shri: Atmaram Ramchand Chellani (Superintending Engineer, Hirakud); Jashwantrai Jayantilal Anjaria (Economic Adviser to the Government of India); Balbir Singh (Captain, Indian Olympic Hockey Team); L. M. Chitale (Architect, Madras); Narayanaswami Dharmarajan (Superintending Engineer, Electrical, Hirakud); Ram Parkash Gehlote (Senior Architect, Central Public Works Department); Major-General Gurbaksh Singh (G.O.C., East Punjab Area); Thakkadu Natesa-astrigal Jagadisan (Secretary, Hind Kusht Nivaran Sang); Major Ralengnao Khathing (Political Officer, North-East Frontier Agency); Sudhir Ranjan Khastgir (Principal, Government School of Arts and Crafts, Lucknow); Dr. Khushdeva Sing (Tuberculosis Officer, Patiala); Dwaram Venkataswami Naidu (Musician); Nalini Bala Devi (Author and Poet, Assam); Krishnaswami Kamiah (Scientist, formerly Director of Central Rice Institute, Cuttack); Dr. Shiyali Ramamritha Ranganathan (Professor of Library Science, Delhi University); Samarendranath Sen (Ex-Chairman, International Commission for Supervision and Control at Laos).

1958 AWARDS

Note: Padma Vibhushan was not given to anyone in 1958.

Bharat Ratna: Dr. D. K. Karve.

Padma Bhushan: Ustad Allaudin Khan (musician); Jehangir Ghandy (Director-in-Charge, Tata Iron and Steel Company, Limited, Jamshedpur); Rao Raja Hanut Singh (Sportsman); Dr. Narayan Subrao Hardikar, M.P., (social worker); Ariyakudi Ramanuja Iyengar (musician); Mrs. Kamalendumati Shah of Tehri-Garhwal; Kumar Padma Sivasankara Menon (Ambassador of India, Moscow); Arathil Candeth Narayanan Nambiar (ex-Ambassador of India, to Federal Republic of Germany); Dr. Kuppali Venkatappa Gowda Puttappa (Vice-Chancellor, Mysore University); Professor Poola Tirupati Raju (Jaswant College, Jodhpur); Debi Prosad Roy-Choudhry (artist); Salim Ali (Ornithologist); Dr. Rustom Jal Vakil (physician, Bombay); Maharajkumar Vijaya Ananda of Vizianagram (sportsman); Surya Narayan Vyas, of Ujjain (astronomer and philologist); Dr. Darashaw Nosherwan Wadia (Geological Adviser to the Government of India in the Department of Atomic Energy).

Padma Shri: Debaki Kumar Bose (film producer); Mrs. Devika Rani (film artiste); Kanwar Digvijainsingh (sportsman); Punamala, Ekambaranathan (inventor of the Ambar Charkha); Mrs. Fatima Ismail (social worker); Miss Nargis (Fatima A. Rasheed) (film artiste); Dr. Bal Raj Nijhawan (Director, National Metallurgical Laboratory, Jamshedpur); Dr. Benjamin Peary Pal (Director, Indian Agricultural Research Institute, New Delhi); Dr. Navaljakkam Partha-sarathy (lately Director, Central Rice Research Institute, Cuttack); Sardar Balwant Singh Puri (Secretary-General, Indian Red Cross Society); Lakshminarayanapuram Ananthakrishnan Ramdas (Agricultural Meteorologist); Brigadier Ram Singh (Commander, 201 Infantry Brigade); Dr. Aragula Nagaraja Rao (Chief Industrial Adviser to the Government of India in the Ministry of Commerce and Industry); Satyajit Roy (film director); Moturi Satyanarayana, M.P. (General Secretary, Dakshina Bharat Hindi Prachar Sabha, Madras); Shamboo Maharaj, (Kathak dance artiste); Mrs. R. S Subba'akshmi (Sister Subbalakshmi) (social worker); Ram Chandra Varma (author and Hindi lexicographer); Mayanlal Tribhuvandas Vyas (educationist).

LITERATURE

The Sahitya Akademi Awards for 1957 for outstanding books published in the Indian languages during the years 1954 to 1956 were won by:

1. *Sagar Theke Phera* (poems, Bengali) by Premendra Mitra.

2. *Buddha-Dharma-Darshan* (philosophy of Buddhism, Hindi) by Acharya Narendradeva.

3. *Chemmeen* (novel, Malayalam) by Thakazi Sivasankara Pillai.

4. *Sri Ramakrishnuni Jivita Charitra* (life of Ramakrishna Paramahamsa, Telugu) by Chirantanananda Swami.

5. *Mir Taqi Mir* (critical study of the Urdu poet Mir, Urdu) by Dr. Khwaja Ahmed Faruqi.

The awards were given in the form of a cheque for Rs. 5,000 and an attractive copper tablet in which the name of the author, the name of the book and the year of the award are inscribed. The signatures of the Akademi's President, Mr. Jawaharlal Nehru, are also inscribed on the tablet.

Books are eligible for prizes in 16 languages, viz., the fourteen major languages enumerated in the Constitution of India and Sindhi and English (as written by Indian authors).

There are two Prizes for Sanskrit, one for creative writing in Sanskrit, the other for scholarly research or exposition relating to Sanskrit, written in any language. To be eligible for award a book must have been originally published during the three years preceding the year in which the Award is announced.

Hindi

The Ministry of Education awarded in March 1958 a prize of Rs 2,000 each to the following seven books of outstanding merit in Hindi published between January 1, 1955 and December 31, 1955

In the category of the best translations into Hindi from other languages, two prizes of the value of Rs 2,000 each for poetry and fiction were awarded to *Geet Govind* by Mr Vinay Mohan Sharma of Nagpur University and *Ash Vidrohi* by Mr Amrit Rai of Allahabad.

Geet Govind is a lyrical poem in Sanskrit of Jayadev, which has been rendered into Hindi verse

Ash Vidrohi is a translation of the English novel *Spartacus* by the American writer Howard Fast

Under the category of best books in Hindi devoted specially to promoting inter class inter-communal and inter State understanding and appreciation of the fundamental ideals of the common Indian culture, only one prize was given to the book *Bharatiya Krishiki Ka K KA* by Mr Jay Chandra Vidya ankar of New Delhi It is an original book written in Hindi on Indian culture

In the category of original works in Hindi, four prizes of Rs 2,000 each were awarded to books in poetry, drama, fiction and to a novel by an author whose mother tongue is not Hindi.

In this category, the prize for poetry was awarded to *Parvati* by Mr Ramanand Tiwari of Maharaja College, Jaipur It is an original book of poems in Hindi It deals with the story of Shiva and Parvati on the the pattern of Kali Dass's *Kumar Sambhava*

In the category of drama, the prize was awarded to *Ram Jhan* by Dr Ram Kumar Varma of Allahabad University It is a collection of one-act plays written in Hindi.

For fiction, the prize was awarded to *Jahaj Ka Panchchi* by Shri Ila Chandra Joshi, Producer, All-India Radio It is considered as one of the outstanding novels published in Hindi in recent years.

The prize for the best original work in Hindi by an author whose mother tongue is not Hindi was awarded to *Bari Bari Aankhen* by Shri Upendra Nath 'Ashk' of Allahabad

It is an original novel.

Under the third competition, 16 prizes of Rs. 2,000 each were announced to be awarded for different categories

Two hundred and forty-nine books were received under the Scheme, which was initiated in 1952 The object of the scheme is primarily to encourage the development of Hindi language and literature

This competition was the third held since 1952. The number of books for which awards were given till 1958 numbered 31

Books for Neo-Literates

The Ministry of Education announced the award of 40 prizes of Rs. 500 each to the authors of the following books on the result of the fourth competition for books for neo-literates under the Government of India scheme "Encouragement of Popular Literature :"

Assamese : "Mag ar Aur Gaon"* by Nirmaleswar Sharma. "Upanishad ar Kahini" by Mahadeo Sharma.

Bengali : "Abishkar Kahini" by Nirmal Kumar Bose. "Parbaligita Parichay" by Narayan Deb Sanyal. "Tulir Jay"* by Amarnath Roy.

Gujarati : "Ver Ane Avichar" by Gopaldas Patel. "Rast Sarangan" by Manubhai Kishorilal. "Sapnan Sambharan" by Manubhai Gandhi.

Hindi : "Hamara Bharat" by Pran Nath Seth. "Hamare Padosi" by Vishnu Prabhakar. "Hamare Tyohar" by Dharma Pal Shastri "Pao Bhar Ata" by Viyogi Hari "Akash Ki Baten" by Om Prakash "Hamara Sharir"* by Chatursen Shastri "Bachon Ka Bachpan" by Vishwamitra Sharma "Kala Pani" by Shandilya

Kannada : "Kutumb Yojne" by K R Udupa. "Anu Paramanu" by U R Acharya

Malayalam : "Paramanu Sakti" by S Parameswaran "Nammude Paladukal" by C Chandermathy

Marathi : "Akilichi Kahani" by Yadunath Thatte "Dagadantoon Deo"* by Malati Dandekar "Jaduchi Peti" by Leeladhar Hegade

Oriya : "Nua Gaon Nua Sansar" by Golak Behari Dhali "Bhai Bhai" by Bhubaneswar Mishra "Shive Sansar Savyata" by Bishwa Nath Mishra

Punjabi : "Wasso Te Wassan Deo" by Kartar Singh "Chal Pind Nuh Challiye" by Prof Narain Singh "Bharat De Bharpur Bhandare" by Lal Singh Kamla Akali

Tamil : "Kanghalai Kappartru" by Dr C Joseph Gnanadickam 'Abhayam Jakkirdhai' by R P Srinivasa Reddy 'Meen' by K Rajaram Muthal Virodhi' by S Raju Chettiar

Telugu : "Daktaru Vatchelova Emcheyyali"* by S L Narsimha Rao 'Vigmana Yatra" (Antecra Parisramalu) by K V. V Satya narayana Verma "Samgha Jeevanam" by Dr G Radhakrishan Murthy

Urdu : "Prem Aur Seva Ki Jeet" by Salha Abid Husain "Amn" by Mohd Khaliq "Galilio Galileo' by Athar Parvez "Parho Aur Barho" by Mohd Ishaq Siddiqi

Children's Books

Twenty-two children's books in 18 Indian languages were awarded (March, 1958), Rs 500 each under the Union Government's scheme for promoting literature for children The award is made by the Ministry of Education and this is the third competition of its kind

Assamese : "Ghumati Jalore' by Dulal Ch Barthakur, "Akharar Jakhala' by Prof. Naba Barua

Bengali : "Nije-Parh" by Smt Sukhalata Rau, "Chanadar Galpa" by Premendra Mitra

Gujarati : "Pashu-no-Kakko" by R P Soni; 'Padarna-Pankhi" (Pt. I) by Manubhai Jodhani

Hindi : "Chitra-me-ek-do tin-char" by Braja Ki Chaudhuri, "Hamara Pakshi" by Rudra Datt, "Doodh-Batasha" by Sohan Lal Dwivedi, "Prakash-ki-Baten" by Brahma Nand Gupta and Naresh Vedi; "Neelam-aur-Masahri-ki-Devi' by Smt Sharda Mishra.

Kannada : "Manasa-Bhoomi" by Damodar Baliga.

Malayalam : "Onappakshi (Mas)" by T. V. John.

Marathi : "Badkintaicha-tak-bak (Mas)" by Smt. Sumati Pajnenkar; "Bhola Vir Kalinga" by G N. Dandekar.

Oriya : "Kuta-Kuta" by Udayanath Sarangi.

Punjabi : "Vichari-Bvasut (Mas)" by R. S. Ahluwalia.

Sindhi : "Latiyoon (Mas)" by Govindram A. Mahbobani.

Tamil : "Kaatkurtyin Pirandhanal" by N. K. Nagarajan.

Telugu : "Kartina Rain" by Mutyal Rama Krishna.

Urdu : "Hamara 'Baitu Man (Mas)" by Sardar Abbas Nagvi; "Hamandard-ka-Khwab" by Rahman Asar.

MUSIC, DANCE, DRAMA

The Sangeet Natak Akadami Awards are given below. The winners are selected by the General Council of the Akadami

The Award consists of a scroll signed by the President, a bracelet of gold chain and a shawl or *angavastram* bordered with gold lace.

In 1957 the Akadami also decided to give awards for the best plays and the best production of plays For the present only two languages are eligible—Hindi and Tamil. Other languages would be chosen for future awards

The plays for the award, under the Akadami's rules, were those which were published not later than January, 1957, and not before January 1 1956

The award for the best play was to be a cash prize of Rs 2,500, a gold "Shrinkal" (bracelet) and a shawl to the author of the play

In the case of the best production, a prize of Rs 2,500 was be given to the "best adjudged production" The winning group was also to be paid Rs 2,500 for production expenses.

The plays and scripts had to be original

Below we give the Akadami awards —

1953

Music	
Hindustani Vocal	Rajab Ali Khan
Hindustani Instrumental	Ahmed Jan Thirakwa
Karnataka Vocal	Vasudevachar
Karnataka Instrumental	Palladam Sankaran Jeevarao

No awards for dance and drama were made for the year 1953 The Sangeet Natak Akadami however, conferred its fellowship on the following artistes

Ariakkudi Ramanujam Iyengar, Allauddin Khan, Hafiz Ali Khan, Prithviraj Kapoor

1954

Music	
Hindustani Vocal	Anant Manohar Joshi
Hindustani Instrumental	Govind Rao Burhanpurkar
Karnataka Vocal	Maharajapuram Vishwanatha Aiyar
Karnataka Instrumental	Rajaratnam Pillai
Dance	
Bharatnatyam	Smt T Bala saraswati
Kathak	Shambhoo Maharaj
Drama	
Acting	Bal Gandharva
Acting	Gubbi Veeranna

1955

Music	
Hindustani Vocal	Raja Bhaiya Poonchwale
Hindustani Instrumental	Bismillah Khan (Shahnai)
Karnataka Vocal	Smt. M. S. Subbalakshmi
Karnataka Instrumental	Palghat T. S. Mani Iyer (Mridangam)
Dance	
Kathakali	Guru Kunju Kurup
Manipuri	Guru Amubi Singh
Drama	
Acting	Gangubai Hodas

1956

Music	
Hindustani Vocal	Smt. Basavaraj Bai
Karnataka Vocal	Mandri Subbarama-iah Ayyar
Karnataka Instrumental	T. Chowdiah (Violin)

* This has been given an additional award of Rs. 500.

Dance	
Bharatnatyam	Smt. Rukmini Devi
Kathak	Lachhoo Maharaj
Drama	
Acting	Chintaman G. Kolhatkar
Production & Direction ..	Jaishankar Sundari
Film	
Direction	Debaki Bose
Screen-Play	Gajanan D. Madgulkar

1957

Music	
Hindustani Vocal	Ganesh Ramchandra Behrebua
Hindustani Instrumental ..	Yusuf Ali Khan (Sitar)
Karnatak Vocal	Chembai Vaidyanatha Bhagavathar
Karnatak Instrumental ..	Budalur Krishnamurthi Sastri (Gottuvadyam)
Dance	
Manipuri	Guru Atomba Singh
Kathakali	T. K. Chandu Panikkar
Drama	
Playwriting	B. V. (Mama) Warerkar
Acting	Ahindra Chowdhury
Film	
Music Direction	Sachin Dev Burman
Acting	Smt. Durgabai Khote.

BHOODAN

The position of the Bhoodan Yagna Movement upto 31st December 1957 is shown in the table below.

According to a resolution of the Sangh the main emphasis should be shifted from Bhoodan to Gramdan. Therefore no elaborate recording of the number of land donors, of families receiving Bhoodan lands, Sampattidan donors or Jeewan dan is now made

The headquarters of the movement are at Akhil Bharat Sarva Seva Sangh, Shram-Bharti, P.O. Khadigram, *via* Jamui, Dist. Monghyr, Bihar.

STATE	Land Collection (in acres)	Land Distribution (in acres)	No. of Gramdan
Assam	23,196	225	77
Andhra	2,41,950	83,090	312
Utkal	3,84,589	1,11,361	1,933
Uttar Pradesh	5,87,615	77,674	36
Kerala	29,021	2,126	450
Tamilnad	70,823	5,349	258
Delhi	396	157	--
Punjab	19,929	2,653	--
Bihar	21,68,857	2,13,150	105
Bombay :—			
Gujrat	47,486	11,527	18
Nag Vidarbh	85,265	38,220	94
Maharashtra	64,210	10,561	227
Saurashtra	31,237	8,185	1
Bengal	12,681	3,463	8
Madhya Pradesh	1,78,816	49,881	139
Mysore	14,164	1,152	26
Rajasthan	4,20,068	35,846	19
Himachal Pradesh	1,568	21	--
	43,81,871	6,54,641	3,703

SOME CORPORATIONS

THE INDUSTRIAL CREDIT & INVESTMENT CORPORATION OF INDIA LTD.

(Union Bank Building, Apollo Street, Fort, Bombay 1.)

The Corporation was established in 1955 with the object of assisting industrial enterprises in the private sector by providing finance in the form of long or medium-term loans or equity participations, sponsoring and underwriting new issues of shares and securities, guaranteeing loans from other private investment sources, furnishing managerial, technical and administrative advice and assisting in obtaining managerial, technical and administrative services to Indian industry.

The Authorised Capital of the Corporation is Rs. 25 crores and Paid-up Capital Rs. 5 crores in five lakhs Ordinary Shares of Rs. 100 each. Of this, Rs. 2 crores are taken up by Indian institutional investors, Directors and their friends and associates, and Rs. 1·5 crores by the Indian public. British and American subscriptions to the Share Capital amount to Rs. 1 crore and Rs. 50 lakhs respectively.

The Government of India have advanced to the Corporation a loan of Rs. 7·5 crores, free of interest, repayable in 15 equal instalments, commencing after the expiry of 15 years from the date of the advance. The World Bank has placed at the disposal of the Corporation a loan of 10 million dollars in foreign currencies.

The third Annual Report for the year ending 31st December, 1957, discloses that the Corporation sanctioned financial assistance of Rs. 11·65 crores consisting of Rs. 9·44 lakhs in one form or another and loans in foreign currency equivalent to Rs. 2·21 lakhs.

No. of Operations		Amount sanctioned (in Rs. lakhs)
9	Loans in Rupees	323
5	Loans in Foreign Currency (Rupee equivalent)	221
16	Underwriting of Ordinary and Preference Shares and Debentures	535
11	Direct Subscriptions to Ordinary and Preference Shares ..	86
		1,165

The accounts for the close of the year 1957 disclose a Net Profit of Rs. 23·07 lakhs, which together with the amount of Rs. 3·48 lakhs brought forward from the previous year, (after adjustment for additional taxation for 1956) makes a total of Rs. 26·55 lakhs. The Directors have proposed Rs. 5 lakhs for General Reserve and recommended a Dividend of 4 per cent (tax-free) absorbing Rs 20 lakhs and leaving Rs. 1·55 lakhs to be carried forward.

Directors : Dr. Sir Arcot Ramaswami Mudaliar, (*Chairman*), Ardeshir Darabshaw Shroff, Ghanshyamdas Birla, Kasturbhai Lalbhai, Sir Biren Mookerjee, Russell G. Smith, Dharamsey Mulraj Khatau, Sir Badridas Goenka, C.I.E., Howard Fredrick Morford, J. D. K. Brown, L. K. Jha, I.C.S. (Government Director), D. G. Moore, (Alternate Director for H. F. Morford), V. M. White (Alternate Director for R. G. Smith.)

General Manager : P. S. Beale.

THE INDUSTRIAL FINANCE CORPORATION OF INDIA

(*Main Office :* Reserve Bank Building, Parliament Street, New Delhi ; *Bombay Office :* Liberty Buildings, 41-42, Marine Lines ; *Calcutta Office :* P-11, Mission Row Extension ; *Madras Office :* 38, Whites Road Royapettah).

Authorized Capital : Rs. 10 crores.

Issued and Paid-up Capital : Rs. 5 crores.

Board of Directors: K. R. K. Menon (*Chairman*), V. P. Varde, S. V. Ramamurti, G. D. Ambekar, S. P. Virmani, L. S. Vaidyanathan, S. C. Roy, M. Ct. Muthiah, S. K. Basu, B. Venkatappiah, L. K. Jha, I.C.S, R. M. Deshmukh, M.P., S. Ratnam.

General Manager, H. V. Venkatasubbiah.

Secretary, Dalip Singh.

Profit and loss account for the year ended 30th June, 1957 :

Interest, Discount, Commission, etc. : Rs. 96,33,358·37.

Total expenses : Rs. 53,27,080 40.

Reserve for Doubtful Debts : Rs 22,24,977·41.

Net profit : Rs. 12,25,000 00.

The Industrial Finance Corporation was established in 1948 under the Industrial Finance Corporation Act of 1948, with the object of providing medium and long term loans to approved industrial concerns.

Total amount of loans sanctioned by IFC up to end of June 1957 exceeds Rs 55 crores. Amount sanctioned in 1956-57 was about Rs. 12 crores.

Interest on loans is 7 per cent less rebate of ¼ per cent for prompt repayment.

THE NATIONAL INDUSTRIAL DEVELOPMENT CORPORATION LTD.

(Ministry of Commerce & Industry, King Edward Road, New Delhi).

The National Industrial Development Corporation Private Ltd., was incorporated on 20th October 1954 and was registered as a private limited company with an authorised capital

of Rs 1 00 00 000 of which 10 000 shares only of Rs 100 each have been fully subscribed by the Government of India

Chairman Morarji Desai, *Vice-Chairman* Manubhai M Shah

The Directors of the Corporation include both Government officials and non-officials and are nominated by the Government of India

Managing Director, Dr A Nagaraja Rao, *Secretary* S Gopalan

The Corporation plans and formulates projects for the setting up of new industries or developing new lines of production It also acts as the agency of Government for the grant of special loans for the modernisation and rehabilitation of the Jute Industry and the Cotton Textile Industry

During 1957 the Corporation carried out studies of projects for the manufacture of Heavy, Machinery Ophthalmic and Optical Glass Basic Organic Chemicals and Intermediates for Chemical Industries Cinema and X ray Film, Aluminium Newsprint and Synthetic Rubber

It also approved of loans amounting to Rs 1 67 lakhs for the Cotton Textile Industry and Rs 1,92 lakhs for the Jute Industry

THE NATIONAL SMALL INDUSTRIES CORPORATION (PRIVATE) LTD.

(Rani Jhansi Road, P O Box No 349, New Delhi)

A Government of India concern, started in February 1955

Authorised capital Rs 50 lakhs

Paid-up Rs 40 lakhs All shares are held by the Government of India

Number of applications received upto 28th Feb 1958 for machinery on Hire Purchase involved 3,964 machines costing Rs 3 20,75,584

Chairman Syed Ashfaque Husain

Directors Ghanshyamlal C Oza M P G L Bansal (Secretary-General Federation of Indian Chambers of Commerce and Industry) Santokh Singh (Proprietor, National Chemical Industries New Delhi) Mrs Pupul Jayakar (All India Handloom Board, New Delhi) Dr P C Alexander, I A S, (Dy Secy to the Govt of India, Ministry of Commerce & Industry New Delhi), R G Mundkur (Dy Secy to Govt of India, Ministry of Finance, New Delhi) B D Kumar (Director of Co-ordination & Statistics, D G S & D, New Delhi), A S E Iyer (Managing Director, National Small Industries Corporation (Private) Ltd, New Delhi)

Managing Director, A S E Iyer, *Manager, Government Purchase Division*, P C Basu, *Manager, Projects*, Sagar Chand, *Additional Manager, Hire Purchase Division*, S J Rege, *Manager, Marketing Division*, Baldev Singh; *Manager, Industrial Estate Division*, V Nehra

Until Feb 28, 1958, about Rs 33 85 lakhs were received as earnest money from small industrial units wanting to take advantage of the scheme This amount was in respect of 1 979 machines out of which orders had been placed for 1 748 valued at over Rs 1 74 crores Nearly 882 machines valued at Rs 70 25 lakhs, have been delivered under the scheme to small-scale industries

Value of D G S & D contracts received by small scale units with the assistance of the Corporation amounted to Rs 44,48 910

The Corporation is marketing the following small industry products under its JANSEVAK trade mark —

Leather footwear, paints cottons and woollens, hosiery pottery glass beads sewing machines etc

Wholesale Depots have been opened for most of them

The first phase of construction of Industrial Estates at Okhla (near Delhi) containing 35 factories and Naini (near Allahabad) containing 34 factories has been completed by the Corporation

THE STATE TRADING CORPORATION OF INDIA LTD.

(New Delhi)

Incorporated on the 1st May 1956

The authorised capital is Rs one crore

1,00,000 equity shares of Rs 100 each

The President of India holds all the shares excepting two held by the Managing Director and the Chairman in their official capacity

The objects of the Corporation are to export from and import into India and to deal in such goods and commodities as its Board of Directors may from time to time determine

The total value of the business contracted for exports and imports is Rs 14 51 crores and 6 99 crores respectively for the period 1 7 1957 to 31-12 1957

Export business was done in the following commodities shoes coffee opium sandalwood oil handloom fabrics handicrafts jute bags coir products, sugar, raw wool, cotton waste gray dull cotton yarn, salt, iron ore, manganese ore chrome ore

The countries with which the export business was done were U S S R, Czechoslovakia, U S A, Japan, E Germany, W Germany, Italy, Hungary, U K, France, Belgium, Holland China, Switzerland, Indonesia, Viet Nam Rumania, Poland

Items in which business of more than a crore were transacted were iron ore (Rs 4 6 crore and manganese ore (Rs 7 84 crores)

Countries with which business of more than crore was transacted were Czechoslovak (Rs 2 56 crores), U S A. (Rs. 4 4 crores U K (Rs 2 14 crores)

Import business was done in the followin commodities ammonium sulphate cemen raw silk skimmed milk, rice, caustic soda, so ash printing machinery, tractor earth movin machinery, zinc aluminium textile machiner B T insulators scientific instruments machi tools, various items of machinery, raw films

The countries with which the import busine was done were Japan U S A Viet Nam China U S S R, G D R Rumania Czech slovakia

Items in which business of more than cr crore was transacted were ammonium sulpha (Rs 1 01 crores) textile machinery (Rs 1 crores)

Countries with which business of more tha one crore was transacted were U S S (Rs 2 31 crores) G D R (Rs 1 83 crores)

Regional offices of the Corporation have be opened at Calcutta Bombay and Madr and sub offices at Kakinada Masulipatna Vishakapatnam Kandla Bhavnagar C and Nagpur

Board of Directors K B Lall I C S (*Chairman*) D Sandilya (*Managing Director*), Satis Chandra I C S, N Subrahmanyam, I C S V V Rajan, I C S Nagendra Singh, I C S H I Singh K I Ghei I R A S Harbans Singh I A S

Financial Adviser & Chief Accounts Officer V N Kaul

General Manager (Ores) B K Kochar

Divisional Manager (Cement) A N Puri

Divisional Manager (Bd T) I K K Nai

Divisional Manager (Bd T) II S C De Mullick

Divisional Manager (Dd S) S N Sen

Chief of R & S Div R C Dube

Director Movement C D Chatterji

Addl Divisional Manager A Nanu

Regional Managers

Regional Manager, Madras E C Sankar

Regional Manager Bombay R N Samarth

Regional Manager Calcutta B C Mallik

COMMUNITY DEVELOPMENT PROGRAMME

In all at the second year of the Plan this programme served 276 000 villages with a population of 150 millions The total expenditure incurred during the period was about Rs 52 crores. In 1956-57, 495 blocks and in 1957-58, 507 blocks were brought under the national extension scheme During these two years 440 blocks were converted from N E S into community development blocks

The plan for 1958-59 has allotted Rs. 36 crores for the programme.

According to present arrangement the entire country would be covered not by the end of the second plan but during the period of the third plan—in 1966. At the end of the Second of the plan there will remain 1,075 development blocks to be taken up.

There will be no distinction between national and Community projects. Instead every project will pass through two stages of five years each, the outlay on the first stage being Rs 12 lakhs and on the second Rs 5 lakhs.

External assistance. 14 27 million dollars for import of equipment from the Indo-American Technical Co-operation Fund (Fund 'A') for the period 1952-53 to 1957-58

Up to Dec 1957 equipment worth 11 80 million dollars received

The Ford Foundation has helped in the training of workers and the setting up of pilot projects.

Achievements (upto June 30, 1957):

Agriculture: Chemical fertilizers distributed, 20,716,000 mds., demonstrations held, 2,000,000; improved seeds distributed, 10,000,000 mds.; area brought under fruit and vegetable cultivation, 1,020,000 acres; key village centres started, 5,926; pedigree animals supplied, 22,000; pedigree birds supplied, 385,000; area reclaimed, 2,925,000 acres; additional area brought under irrigation, 2,807,000 acres.

Health and Sanitation Primary health centre set up, 3,869, maternity and child welfare centres 1,259, rural latrines built, 220,000, new wells 83,000, wells reconditioned, 119,000, drain 121 lakh yards in length.

Education New schools, 25,000, Schools c verted into Basic, 10,325; adult education centr started, 70,000; adults made literate, 1,879,00

Community Organisations: Community centre 160,000, other organisations developed, 169,00 Co-operative societies, 50,000; new members these societies, 8,113,000.

Roads: new pucca roads, 9,140 miles n kaccha roads, 50,000 miles; existing ro improved, 52,000 miles.

Arts and Crafts: Production-cum-train Centres, 3,978.

People's Contribution: Upto Sept 1956 cash and kind Rs. 45·6 crores as against Gov ment expenditure of Rs. 79·2 crores (or little over 60 per cent).

EVENTS OF THE YEAR (1st June 1957—31st May 1958)

June 2 : Reports come in of the occurrence of Asiatic 'flu in epidemic form in different parts of the country specially in the south.

Train accident on the harbour branch of the Bombay Suburban section of the Central Railway between Wadala and Sewri—the worst in the city's history—18 killed and 66 injured.

June 13 : Mr. Nehru leaves on a four-week foreign tour. He is to attend the Commonwealth Prime Ministers' Conference in London in the last week of June.

In the course of his tour he will visit Syria, Egypt, The Sudan, Norway, Sweden, Denmark, Finland and the Netherlands.

Aug. 3 : Death of Mr. Devadas Gandhi.

Aug. 15 : Independence Day.

Aug. 16 : Centenary of the 1957 uprising against the British.

Sept. 2 : Kerala State Education Bill passed.

Sept. 16 : Widespread communal clashes between Thevars and Harijans in Madurai and Ramnad Districts in Madras State.

Sept. 27 : Maithon Dam on the D.V.C. opened by the Prime Minister.

Oct. 3 : Mr. Nehru leaves on a tour of Japan

Nov. 24 : Calcutta Mail *via* Nagpur derailed at Igatpuri.

Nov 30 : Mr. Nehru unveils the statue of Shivaji at Pratapgarh Fort.

Dec. 1 : Naga Administrative Unit comes into being.

Dec. 6 : Agreement is reached between the Union Government and the Burmah Oil Company on the formation of a Rupee Company for the exploitation of oil reserves.

Jan 1 : Accident to the Delhi-Pathankot Janata Express at Mohri six miles from Ambala on the Northern Railway : 30 persons killed and over 100 injured.

Jan. 3 : In a communication to the Centre the Madras Government says that the deadline of 1965 for the change in the official language from English to Hindi has to be put off.

Jan. 6 : Dr. Sukarno arrives in Calcutta.

The Indian Science Congress meets in Madras; Violent demonstrations against Mr. Nehru on his arrival to address the Science Congress.

Jan. 8 : The Prime Minister of the U.K., Mr. Harold Macmillan arrives in New Delhi on a four-day visit.

Sheikh Mohamad Abdullah, former Prime Minister of Kashmir released from detention.

Jan. 12 : Dr. Frank Graham, U. N. Representative for India and Pakistan, arrives in New Delhi for fresh talks with the two Governments.

The Standing Committee of the National Development Council meets.

Jan. 13 : Sheikh Abdullah asks in a speech in Srinagar for the termination of Kashmir's constitutional relationship with India and a plebiscite to decide the future of the State.

Jan 15 : A new railway zone, the North-East Frontier Railway comes into being with headquarters in Pandu, Assam.

Jan. 16 : The U. S. Government agrees to discuss with the Government of India a loan programme of 225 million dollars to help this country to tide over the current difficult economic situation.

Jan 19 : The Indian National Congress session opens with the President giving a call to action about the Five Year Plans.

Jan. 20 : The enquiry by a Commission into the Life Insurance Corporation's investment into the Mundhra concerns starts in Bombay.

Jan. 26 : The Republic Day is celebrated with customary enthusiasm.

The first volume of *The Collected Works of Mahatma Gandhi* is published.

Feb. 17 : The Railway Budget for 1958-59 is presented.

Feb. 18 : The Chagla Enquiry Report presented. Mr. Krishnamachari, the Union Minister for Finance makes his statement in the Lok Sabha.

Feb. 19 : Lok Sabha starts its debate on the Chagla Report.

Feb. 20 : In an explosion in the Chinakuri colliery about 180 miners are killed.

The Chagla Report debate in the Lok Sabha ends.

Feb. 22 : The death occurs of Maulana Abul Kalam Azad, Minister of Education and Scientific Research, Government of India.

Feb. 25 : An explosion at a Pathankot railway siding while Service ammunition was being unloaded kills forty persons.

Feb. 28 : The Minister for Finance (Mr. Nehru) presents the budget of the Government of India for 1958-59

March 10 : The Prime Ministers of India and Rumania in a joint statement issued in New Delhi welcome the proposal of a high level meeting of international leaders to try solve world problems.

March 18 : Finance Minister announces decision to reduce excise duty on all varieties of cotton textiles and abolish the compulsory deposit scheme for companies.

Committee of enquiry into the conduct of Mr. H. M. Patel, Mr. G. R. Kamat and Mr. L. S. Vaidyanathan in connection with the Life Insurance Corporation deal with Mr. Haridas Mundhra is appointed. Mr. Justice Vivian Bose is Chairman and Mr. Sukumar Sen and Mr. W. R S. Sathianathan are members.

March 19 : The Constitution Bench of the Supreme Court upholds the validity of the Working Journalists Act except for one provision but sets aside the decisions of the Wage Board constituted under the Act.

An all-India convention of Muslim legislators presided over by the Nawab of Chattari declares its complete agreement with the Government of India's Kashmir policy.

April 3 : The report of Dr. Frank Graham, the U N. Representative for Kashmir is published. The five proposals that he made were submitted to the Governments of India and Pakistan on Feb. 15, 1958.

Mr. Shantaram S. Mirajkar is elected first Communist Mayor of Bombay.

The Government of India announces the abolition of restrictions on travel, to and from Goa and other Portuguese Possessions.

April 4 : The Prime Minister announces rejection of the Graham proposals about Kashmir at a press conference.

April 5 : The special Congress of the Communist Party in Amritsar announces radical changes in fundamental policy : recognition of multi-party system and change through peaceful means.

April 18 : Country celebrates birth centenary of Dr. D. K. Karve, social reformer and pioneer in the education of women.

April 28 : A Deputy Minister of Orissa, one M.P. from Orissa and two members of the Orissa Assembly arrested in Bhubaneshwar on a charge of wrongfully confining and abducting Congress legislators.

April 29 : Mr. Nehru tells the Parliamentary Congress Party in New Delhi that he desires to lay down his office as Prime Minister but the final decision will rest with the Party.

Sixty-four trainees of a Lok Sahayak Sena camp at Sasthamkottah, Quilon District, Kerala die of food poisoning.

April 30 : Sheikh Abdullah is taken into custody under the Preventive Detention Act and sent to Kud sub-jail on the ground that his activities were prejudicial to public peace and security.

May 3 : Mr. Nehru announces at a meeting of the Congress Parliamentary Party that he has decided not to retire from his post of Prime Minister.

May 4 : The National Development Council votes to split the Second Plan of Rs. 4,800 crores into two parts—first part with an outlay of Rs. 4,500 crores justified by assessment of resources, and second part consisting of schemes costing Rs. 300 crores to be implemented to the extent that resources are available.

May 7 : A new opposition party consisting of the P.S.P., the United Progressive Group and the Ganatantra Parishad is formed in the Lok Sabha. Acharya Kripalani is leader.

May 8 : The Mysore Cabinet headed by Mr. Nijalingappa resigns. The Congress Legislature party elects Mr. Basappa Danappa Jatti as leader.

The Planning Commission Report—a reassessment of the Second Plan—suggests a scaling down of the Second Plan outlay from Rs. 4,800 crores to Rs. 4,500 crores.

May 9 : The Orissa Cabinet headed by Dr. Harekrushna Mahatab resigns.

May 12 : One-day token strike at the Tata steel works in Jamshedpur of workers belonging to the Jamshedpur Mazdoor Union. The strike was previously declared illegal by the Bihar Government.

May 15 : A Karachi-bound Pakistan International Airways Convair crashes near Palam airport ; 21 out of 38 on board are killed

A sit-down and stay-in strike starts at the Tata Iron and Steel Works in Jamshedpur consequent on the service of suspension orders and charge-sheets on about 40 workers, alleged to be leaders of the one-day token strike of May 12. Only essential services maintain the furnace and the coke oven plant.

May 16 : Mr Basappa Danappa Jatti is sworn in as Chief Minister of Mysore.

May 18 : It is announced that two members of the Indian expedition to the 26,867-foot-high Cho Oyu reached the peak on May 15.

May 19 : The Communist Government of Kerala retains the crucial Deviculom seat in the Assembly.

The Chief Minister of the Punjab, Mr. Partap Singh Kairon is exonerated by the Congress Parliamentary Board. There were a number of charges against him made by a dissent group in the Punjab Congress.

May 20 : Disturbances in Jamshedpur consequent on strike. Police open fire on workers. Military stands by.

May 21 : The Kirti Express on the Western Railway is derailed near Chamaraj Station about 70 miles from Rajkot in Saurashtra. Twenty-seven passengers are killed in the accident and 60 injured, 26 of them seriously.

India strongly protests to Pakistan Government about police firing on Assam border places from East Pakistan.

The British technical mission favours Ernakulam in Kerala as the site of the second ship-building yard.

Police fire twice in Jamshedpur to disperse violent crowds of striking workers. A twenty-four hour curfew is imposed on the city from midnight of 20-21 May.

May 22 : The Supreme Court gives its opinion on the validity of certain articles in the Kerala Education Bill which were referred to it by the Government of India

The Sakchi market in Jamshedpur is burnt down.

The curfew in the town now extends from 10 p.m. to 4 a.m.

The Life Insurance Corporation of India enquiry under Mr. Justice Vivian Bose begins.

May 23 : Government of India's negotiations with oil companies end in agreement to reduce oil prices and devise new formula for determining oil prices. There will be an *ad hoc* reduction in the price of about 10 per cent of C I F. prices. This takes effect on May 20

An Indo-Soviet air agreement for a direct, air service between India and the Soviet Union is arrived at.

May 24 : Situation in Jamshedpur town is normal.

Dr. Harekrushna Mahatab withdraws the resignation of his Ministry.

May 25 : The annual National Conference of the Praja-Socialist Party opens in Poona.

May 29 : It is reported that India has asked the U.S.A. for a loan of a million tons of steel.

The Jamshedpur Mazdoor Union officially withdraws the strike in the Tata steel works.

May 31 : Pakistan decides to accept the proposals made by the World Bank in 1954 with regard to the canal waters dispute with India.

There are reports of heat waves of unusual intensity and consequent deaths from heat or sunstroke in different parts of the country.

INSURANCE

Note : The latest insurance tables were not able when this book went to press. See 1957-58 Directory for figures for 1955.

Insurance business in India is partly State owned and partly a "free efterprise".

Life insurance business is a State monopoly. The institution known as Life Insurance Corporation of India established by a special act called Life Insurance Corporation Act, 1956 and, owned wholly by the Central Government is the sole body conducting the entire life insurance business in India and in foreign lands.

It has also taken over, as from 1st September 1956, the existing business of all Indian life insurance companies, of all Provident insurance societies, the Indian business of foreign life offices registered in India and the foreign business of Indian life offices.

This Corporation is an autonomous body with an overall supervision and guidance by the Union Finance Ministry as provided for in the Act of 1956. Its affairs are in the hands of a Central Board consisting of fifteen members nominated by the Government, one of whom is a senior officer acting as its whole-time Chairman.

The State also conducts a health insurance scheme restricted at present to industrial workers, through the Employees State Insurance Corporation which again is an autonomous body established in 1948 by an Act called Employees State Insurance Act, 1948 which is administered by the Union Labour Ministry in co-operation with the Health Ministry.

A third enterprise owned by the Central Government is the Export Risks Insurance Corporation (Private) Ltd., registered under the Companies Act, and whose capiral is entirely held by the Central Government. This was established late in October 1957. As the name suggests, it underwrites the risks to an exporter in India arising out of the failure to recover his dues in full from his foreign importer — risks both commercial and political which ordinary insurance companies do not and cannot underwrite.

The administration of the Companies Act having been passed from the Finance Ministry to the Commerce Ministry at the Centre, this Corporation works under the supervision of Commerce Ministry. It has its own Board of Directors consisting of seven members all nominated by the Government.

General insurance business such as Fire, Marine, Motor and Miscellaneous is carried on by joint stock companies in the private sector.

Three of these companies are subsidiaries of the Life Insurance Corporation of India, namely, the 'Oriental', in Bombay, the 'National' in in Calcutta and the 'Asiatic' in Bangalore.

These three were subsidiaries of life insurance companies previously. On the nationalisation of life insurance business and the establishment of L.I.C. in September 1956, their proprietorship passed to the L.I.C.i.e. to the Government. Consequently, general insurance business in India is conducted both in the private sector and in the public sector.

All the companies carrying on general insurance business including the three subsidiaries of the L.I.C. mentioned above are governed by the Insurance Act, 1938. This Act is administered by the Finance Ministry through its Insurance Department under an officer designated Controller of Insurance.

All insurance companies Indian and foreign registered in India are members of a statutory body, the General Insurance Council. The Council has two committees — the Executive Committee and the Tariff Committee.

The Executive Committee of the General Insurance Council of the Insurance Association of India consists of 16 members eight of whom are elected every three years and the rest nominated by the Central Government, with a senior officer of the Finance Ministry as its Chairman and an officer of the Department of Insurance as its Secretary.

Its main function is to lay down rules and regulations for the proper conduct of general insurance business and to see that members strictly observe these rules and the provisions of the Insurance Act.

The Tariff Committee consists of fourteen members all elected, every three years. Its main function is to control and regulate the rates of premiums, terms and conditions and advantages that may be offered by members in respect of general insurance business.

Exemption from the control of the Tariff Committee has been granted to a few member companies in India. These are known as Non-Tariff companies who are free to regulate their own rates of premium. There are at present only 8 such offices in India, conducting fire and motor-car insurances. Since business conditions vary in the different markets of India, the Tariff Committee is helped in its work by 4 Regional Committees, one each at Bombay, Madras, Calcutta and Delhi.

LIFE INSURANCE

The Life Insurance Corporation of India has been the only body doing life insurance business in India since September 1956.

For administrative purposes the country is divided into five zones, each zone having several divisional offices in it and each divisional office having several branches and sub-offices.

There are 33 Divisional, 190 Branch and 49 sub-branch offices.

The year 1957 was the first full working year of the Corporation.

The Corporation has completed a paid-for new business of over Rs. 276 crores assured during 1957 in India and a little less than Rs. 10 crores in foreign lands mainly in Malaya and British East Africa. Lapse ratio which used to be very heavy in pre-nationalisation days is, it is reported, showing a downward trend.

During 1957 new business accomplished was as follows (Rs. in crores) :

Western zone : 64·69 ; Eastern Zone : 68·06 ; Southern Zone : 74·13 , Northern Zone : 33·00 ; Central Zone : 35·71

Total : 276·49.

On the establishment of the Corporation, all intermediaries between the policy holder and the commission agent concerned, like the chief agent special agent, organiser, inspector etc., who were on commission basis, were removed, retaining only one class of commission agent.

At present the business procuration staff of the Corporation consists of Field Officers who are whole-time workers on salary and of Agents who are whole-time or part-time, working under these Field Officers on commission basis.

The number of field officers and agents respectively was as follows (31st Dec. 1957) :

Western Zone : 754 ; 29,110. Eastern Zone : 2,051 ; 81,756. Southern Zone : 1,124 ; 50,919. Northern Zone : 526 ; 14,485. Central Zone : 766 ; 28,808.

Total : 5,221 ; 2,05,078.

Average business by a field officer (in Rs. lakhs) : Northern : 6·4, Central 4·7, Eastern 3·3, Southern 6·6, Western 8·6. . . All Ihdia 5·3.

Average business by an agent (in Rs. thousands) : Northern 23·4, Central 12·4, Eastern 8·3 Southern 14·6, Western 22·2 . . . All India 13·5.

JANATA POLICIES

In pursuance of one of the main objectives of the Corporation, viz., making available the benefits of life insurance to every family in the country, the Corporation introduced a "Janata Life Policy" Scheme, which is to bring life insurance within the reach of the industrial and rural population in the Country.

The main features of the Scheme are : (1) the sum assured under a policy can be as low as Rs. 250, (2) Medical examination would not be required in most cases, (3) Requirements of proof of age are greatly simplified, and (4) Premiums payable monthly would be collected from the homes of the policyholders by authorised agents.

It was introduced first in May 1957, as a pilot scheme in important industrial centres like, Bombay, Ahmedabad, Delhi, Kanpur, Calcutta. Gradually it was extended to other industrial Centres in India. The total business secured in the about 7½ months of 1957 was Rs. 65 lakhs. The Scheme is yet to be carried to the rural parts of the country.

The number of policies and the sums assured in Rs. respectively for the period 1st Jan. 1958 to 14th April 1958 were as follows :

Western 1,900 ; Rs. 14,46,939. Eastern 1,223 ; Rs. 6,88,940. Southern 383 ; Rs. 1,76,440. Northern 680 ; Rs. 5,02,780. Central 762 ; Rs. 4,78,723. . . Total 4,948 ; Rs. 32,93,772.

REINSURANCE

India placed considerable surplus business in foreign reinsurance markets. With the establishment of a purely indigenous reinsurance concern, the India Reinsurance Corporation Ltd. Bombay a joint stock company of which all general insurers registered in India including foreign ones are members — an appreciable chunk of this surplus is retained in India. The Corporation finished its first full year's work in 1957 but has not yet published its annual report. It has recently opened a branch in Calcutta.

Indian general insurance companies have formed a pool for procuration and administration of insurance business secured from Central and State Governments, This pool has been working very satisfactorily for a decade. The profits were divided in agreed proportion among its members.

Since the establishment of the L.I.C. and the passing of three of the general insurance offices into its ownership there has been a change in the policy of the Government. The profits are not divided in the proportion so far in practice. A new formula has been devised. Profits pertaining to 50 per cent of the total business is to be given to the three member companies which are the L.I.C.'s subsidiaries and the other 50 per cent to be shared by the rest of the pool members. Also, with the rapid expansion of the public sector and the establishment of the three giant steel plants Government's insurance needs have rapidly grown. The result is the quantum of premium income and the net share of a private insurer member of the pool has not very much decreased by the new arrangement.

One of the most important functions of the Corporation is to invest its rapidly increasing life funds, judiciously, to earn maximum interest, commensurate with security of the investment funds.

To see to this, the Corporation has an Advisory Committee called the Investment Committee of seven members nominated by the Government.

Some of the investment made about the middle of the year 1957 in buying shares of certain companies in which a business man by name Haridas Mundhra was actively interested came in for very severe criticism in Parliament, as a result of which, a commission to investigate the deals, was formed consisting of one member the Chief Justice of Bombay, Mr. M. C. Chagla.

The Principal Secretary of the Finance Ministry the Government of India, the Chairman of the L.I.C. and the Managing Director in charge of the investments were among those who chiefly figured in the investigation.

One consequence of this was the Finance Minister resigned being the constitutional head of the Finance Ministry. At the time of writing a departmental inquiry is in progress in respect of this transaction.

The Chief Justice recommended that "the Government" should not interfere with the work of the autonomous statutory corporations (like the L.I.C.) and that civil servants appointed to executive positions should not permit themselves to be influenced by senior Government officials." Also "His insurance funds should be used only for the benefit of policy holders and not for any extraneous purposes, unless that purpose be the larger interest of the country."

OFFICIAL LANGUAGE PROBLEM

The official language of the Union in accordance with the provisions of Article 343 of the Constitution is Hindi in the Devnagari script.

But for a period of 15 years from the commencement of the Constitution, that is, till 1965, the English language will continue to be used for all official purposes of the Union. However, the President can by order authorise the use of Hindi in addition to English.

Even after 1965 Parliament can still provide by law for the continued use of the English language.

Article 344 of the Constitution enjoins on the President the appointment of a commission five years after the commencement of the Constitution to make recommendations on the progressive use of Hindi and restriction on the use of English and also on the language to be used for communication between the Union and a State or between one State and another.

In making the recommendations the Commission will have to have due regard to the industrial, cultural and scientific advancement of India and the just claims and interests of persons belonging to non-Hindi speaking areas in regard to the public services.

When the Commission has made its recommendations a Parliamentary committee has to be appointed consisting in all of 30 members (20 from the Lok Sabha and 10 from the Rajya Sabha) who are to be chosen by election. It will be the duty of this Committee to examine the recommendations of the Commission and to report to the President.

After consideration of the report the President will issue his directions.

These, broadly speaking, are the provisions of Articles 343 and 344 which are concerned with the language of the Union.

Regional languages are generally covered by the provisions of Articles 345 to 351, while the Eighth Schedule to the Constitution mentions the fourteen languages recognized as the regional languages by the Constitution.

These are: Assamese, Bengali, Gujarati, Hindi, Kannada, Kashmiri, Malayalam, Marathi, Oriya, Punjabi, Sanskrit, Tamil, Telugu and Urdu.

The law in regard to regional languages can, broadly speaking, be summed up as follows:

The State legislature can adopt any language or languages in use in the State or Hindi as the State official language. Till then the English language will continue to be used.

If a substantial proportion of the population of a State desire that the language spoken by it should also be recognized by the State as an official language the President can direct that the language shall be so recognised either in the whole State or in a part of it or for a specific purpose.

For communication between the Union Government and a State Government or between one State Government and another English will continue to be used for the time being. If two States agree to use Hindi instead, they are free to do so.

In the matter of law and legislation, it is laid down that the language of legislative enactments in Parliament or State legislatures such as Bills, Acts, Ordinances, by-laws, rules and regulations should be English until Parliament changes the law.

Where the State language is one other than English, there has to be a translation of the enactment in English which will be regarded as the authoritative text of the Act, Bill, etc.

In Parliament, business will generally be conducted in English or Hindi. But a member can speak in his mother tongue by permission.

The business of a State legislature can be conducted in English, Hindi or a State language. But a member can also speak in his own mother tongue with the permission of the presiding authority.

Fifteen years after the commencement of the Constitution English will cease to be one of the languages so used unless the legislature enacts otherwise (Art. 210).

About court language, the proceedings in a High Court can be in a State language (other than English) but all judgements or decrees or orders passed by a High Court have to be in English.

No change in all this is permissible until the President has decided to take action consequent to the recommendations of the Official Language Commission.

Finally, it is the duty of the Union to promote the use of Hindi and develop it through the assimilation of the form, style and expressions used in Hindustani and in the other languages of India and by drawing on the vocabulary primarily of Sanskrit and secondarily of other languages.

The interests of linguistic minorities are protected by means of Articles 29 and 30 of the Constitution. Every minority has the right to conserve its own language. It has the right to conduct schools of its choice.

There is a special officer for Linguistic Minorities under the Ministry of Home Affairs with headquarters in Allahabad.

Below we give a brief summary of the action taken from time to time by the Union and State Governments under the various articles of the Constitution relating to official language.

The President has authorized the use of Hindi for warrants of appointment which he makes for example, of Governors, Judges of the High Court and Supreme Court; in administration reports; Government resolutions; legislative enactments; correspondence with State Governments which have adopted Hindi as their official language; in Treaties and Agreements; in correspondence with foreign Governments and organizations; in formal documents issued to diplomatic and consular officials.

LANGUAGE ACTS

Official Language Acts have been adopted in Bihar, Madhya Pradesh, Madras, Orissa, U.P. and Rajasthan.

The Bihar, M.P., U.P. and Rajasthan Acts provide that Hindi should be the official language in that State, while the Orissa Act makes Oriya the Official language in Orissa and the Madras Act Tamil.

In Bihar, M.P., Orissa, U.P. and Rajasthan there is legislative enactment either through the Official Language Act or through a separate Act which provides that Acts, Bills, Ordinances etc. should be issued in the States official language.

U.P., M.P., Bihar and Rajasthan have an agreement for the use of Hindi for inter-State purposes.

In Madras Tamil is now used as the official language in over 1,750 Government offices.

Not all the Acts referred to above are, however, implemented as yet. The position is some what like this:

The Bihar Official Language Act, 1950—partially implemented.

The Bihar Language of Laws Act, 1955—not implemented.

Madhya Pradesh Official Language Act, 1950—partially implemented.

Orissa Official Language Act, 1954—not implemented.

Uttar Pradesh Official Language Act, 1951—implemented.

Uttar Pradesh Language (Bills and Acts) Act, 1950—implemented.

Rajasthan Official Language Act, 1952—implemented.

The Himachal Pradesh Language (Bills and Acts) Act, 1952—implemented.

Madras Official Language Act, 1956—partially implemented.

About the use of language in courts, Urdu can be used in the proceedings of the Hyderabad High Court, Hindi in the Rajasthan High Court and Malayalam in the Kerala High Court.

English is the language used in the High Courts of Andhra, Assam, Bihar, Bombay, M.P., Madras, Orissa, Punjab, U.P., W. Bengal, Kashmir and Mysore and in the Judicial Commissioners' Courts in Himachal, Manipur and Tripura.

About the language actually used in the various legislatures some calculations have been made about the proportion in which the languages are used.

The percentage in 1954 was as follows:—

Lok Sabha: English 83·2; Hindi 16·2.

Rajya Sabha: English 85·0; Hindi 13·1.

Andhra Assembly: English 10·0; Telugu 90·0.

Assam Assembly: English 89·67; Assamese 9·97.

Bihar Assembly: English 5·0; Hindi 95·0.

Bihar Council: English 27·67; Hindi 72·33.

Bombay Assembly: English 50·4; Marathi 40·9.

Bombay Council: English 89·6; Marathi 7·3.

Madras Assembly: English 52·4; Tamil 42·2.

Madras Council: English 82·2; Tamil 17·6.

Orissa Assembly: English 5·0; Oriya 95·0.

Punjab Assembly: Hindi 56·7; Punjabi 43·03.

Punjab Council: English 34·6; Hindi 35·6; Punjabi: 29·8.

U.P. Assembly: Hindi 100.

U.P. Council: English 3·0; Hindi 97·0.

W. Bengal Assembly: English 50·4; Bengali 49·1.

W. Bengal Council: English 69·3; Bengali 30·0.

Kashmir Assembly: English 6 0; Urdu 94·0

Mysore Assembly: English 45·0; Kannada 55·0.

Mysore Council: English 35·0; Kannada 65·0

Rajasthan Assembly: English 1·3; Hindi 98·2.

Travancore-Cochin Assembly: English 19 Malayalam 78·0.

The following States have an official language for the legislature fixed by statute: Bihar (Hindi), M.P. (Hindi), Orissa (Oriya), U.P. (Hindi), Kashmir (Urdu), Rajasthan (Hindi).

OFFICIAL LANGUAGE COMMISSION

The President constituted a Commission in pursuance of the provisions contained in Article 344 of the Constitution by a Government of India notification dated 7th June 1955.

The Commission was to be called the Official Language Commission the main duty of which was to make recommendations on the progressive use of Hindi and prepare a time-schedule for gradually replacing English by Hindi as the Official language of the Union.

The Commission was to make its recommendations not later than 30th April 1956.

The Commission consisted of 20 members besides the Chairman.

The Chairman was the late Mr. B. G. Kher and the 20 members were:

Dr. B. K. Barua, Dr. S. K. Chatterji, Mr. Maganbhai Desai, Mr. D. C. Pavate, Professor P. N. Pushp, Mr. M. K. Raja, Dr. P. Subbarayan, Mr. G. P. Nene, Dr. P. K. Parija, Sardar Teja Singh, Mr. M. Satyanarayana, Dr. Babu Ram Saksena, Dr. Abid Hussain, Dr. Amarnath Jha, Dr. R. P. Tripathi, Mr. Balkrishna Sharma, Dr. Hazari Prasad Dwivedi, Mr. Jai Narain Vyas, Mr. M. Ananthasayanam Ayyangar.

Dr. Amarnath Jha died on Sept. 2, 1955 and his place was taken by Professor Ramdhari Sinha. Mr. Ayyangar resigned his membership with effect from 8th March 1956 when he became Speaker of the Lok Sabha.

As the Commission could commence its work only in July 1955 the last date for the submission of its recommendations was postponed to 31st July 1956.

The Commission signed its report on the 25th July, 1956 and submitted it to the President on 31st July 1956. It was laid on the table of Parliament by the Home Minister on Aug. 12, 1957.

The report contained two minutes of dissent —one by Dr. Subbarayan and the other by Dr. S. K. Chatterji.

Broadly speaking, the conclusions were: Hindi in the Devnagari script should be the official language. But it is neither necessary nor possible to say whether a change-over to Hindi is practicable by 1956. This will depend on the efforts made in that direction in the meantime.

The pre-requisites for a change-over are (i) preparation and standardisation of administrative terminology; (ii) translation into Hindi of manuals, hand-books and other official publications; (iii) training of administrative personnel in Hindi, and (iv) development of mechanical and service aids in Hindi. Detailed recommendations have been made on each of the above matters in the report.

It is not possible for the Commission to furnish a regular time-table by dates and stages as to how Hindi should be introduced into the business of the Union so as to accomplish the general change-over within the period fixed by the Constitution. The actual drawing up of a plan of action and setting up of a time-schedule must be left to the Government of India themselves to do after a study of the relevant factors.

Arrangements may be made for outgoing communication from the Union Government to a Hindi-speaking State being accompanied by a Hindi translation of English texts whenever such a State makes a request to this effect. The employment of Hindi before 1965 in this manner will help in establishing forms of address, expressions, etc.

The Commission has also recommended that other Indian languages should adopt the Devnagari script as this will bring the various Indian languages closer to each other. At present no restrictions should be imposed on the conduct of the administration in English.

The Commission has also recommended that, ultimately, both Parliament and the State legislatures as well as the Supreme Court should use only Hindi. The desirability of the entire statute book of the country being in the same language, namely, Hindi, is emphasised.

The lower levels of the judiciary should, however, function in the regional languages, while the High Courts will have to conduct their business on a bilingual basis.

In the field of education, the Commission suggests that instruction in Hindi may begin at the close of the primary stage and continue up to the school-leaving stage. Instruction in Hindi should be compulsory at the secondary stage in the non-Hindi-speaking areas all over the country.

All universities should make arrangements to hold examinations with Hindi as the medium of instruction.

Meanwhile, the introduction of Hindi as an alternative medium to English for competitive examinations for the all-India services is recommended after giving due notice.

English should continue as an alternative medium as long as it may be considered necessary and its discontinuance should be effected only after sufficient notice.

In adopting new terminology, the Commission says that the primary aim should be clarity, precision and simplicity. Doctrinaire insistence on linguistic purism is deprecated.

The Commission has no recommendation to make on the use of Devnagari numerals in addition to the international form of numerals for any of the purposes by the Union between now and the time when the next official language commission is appointed in 1960.

Another recommendation of the Commission is the constitution of a national academy of languages to be set up, preferably at Hyderabad, for carrying out work relating to the development of the Union as well as the regional languages and for other purposes, including the production of text-books and books of reference.

It also recommends the development of Hindi news services and a typewriter key-board in the Devnagari script.

MINUTES OF DISSENT

Two members of the Commission Dr. Subbarayan and Dr. S. K. Chatterji have separate minutes of dissent.

They say that the target date of 1965 for change-over from English to Hindi would not be found adequate.

The question of progressive use of Hindi for the official purposes of the Union, according to both the members of the Commission, should be kept in abeyance for the time being. They add that it would finally rest with the different States using their own different regional languages to decide after Hindi has been voluntarily adopted by them and a knowledge of it has spread, to what extent Hindi can be used for communication between the Union and the State Governments and between one State Government and another.

According to Dr. S. K. Chatterjee, the choice of Hindi as a language to replace English for pan-Indian affairs has been "hasty". Public funds, he adds, from the whole of India are being diverted towards the development and propagation of Hindi and this cannot but be resented in non-Hindi States.

The retention of English will not be against the best interest of a free Indian people. He suggests the retention of English, side by side with the Indian languages great and small.

Dr. Subbarayan is of the opinion that the official language which is to be adopted eventually must be a language which has been fully developed and till such time "we must perforce continue to use English." If the country has to maintain its independence and progressively develop any steps taken to introduce an official language other than English "must take into account whether its immediate introduction will hamper the economic and industrial progress."

If the Commission's recommendations are sought to be implemented by the Union Government it will result in "immediate imposition of Hindi on non-Hindi-speaking people" leading to confusion in public life as a whole. The relegation of English to a secondary place in our education and public life will certainly not be for the good of the country.

Nothing should be done by the Centre without obtaining from the legislatures of the non-Hindi States clear indication of the wishes of the speakers of the various regional languages in the matter through their properly elected representatives, the members of the State legislative bodies.

The restrictions on the use of English for all or any of the official purposes of the Union should not be given effect to for the time being. The language, both in Parliament and State legislatures, should be English for a long time with option to use Hindi or a regional language.

The medium of instruction at the university-level should be English till such time as Hindi is equipped well enough for replacing English as the medium. However, even when Hindi ultimately becomes the medium, English should continue as the medium of instruction in scientific, technical and technological subjects, and also in subjects like politics and economics for a longer time to come.

In the case of competitive examinations for the all-India services, English should remain for many years as the sole medium of examination.

There is also a note by Mr. Maganbhai Desai.

But this note, as the Chairman points out is only a re-statement of points which already find full expression in the report at appropriate places.

However, there are two points of disagreement.

Mr. Desai says the Constitution should be amended so as to cast a definite duty on the State Governments to introduce compulsory instruction in Hindi. He also disagrees with the view in the main report relating to compelling Hindi students to learn a non-Hindi Indian language.

In a covering note, the Chairman of the Commission, regrets that there are several "inaccurate and unsubstantiated statements" in the notes of dissent as regards the contents of the main report.

In general, the Chairman observes, the impression is likely to be formed that the main report seeks to eliminate English and that it seeks to impose Hindi on sectors pertaining to the proper field of regional languages.

It will be manifest to even a casual reader of the report, says the Chairman, "that this impression is grossly unjust to the views expressed in the report."

PARLIAMENTARY COMMITTEE

As we have already mentioned the Constitution requires that the recommendations of the Language Commission have to be examined by a Parliamentary Committee consisting of 30 members (20 from the Lok Sabha and 10 from the Rajya Sabha). The President will base his final order on the report of this Committee.

The 20 members to form the Committee from the Lok Sabha were elected on Sept. 12, 1957 and the 10 members from the Rajya Sabha on 11th September.

The Committee held its first meeting on 16th Nov. 1957 at which Pandit Govind Ballabh Pant was elected chairman.

The 10 members from the Rajya Sabha were: Mr. Govind Ballabh Pant; Mr. Alluri Satyanarayana Raju; Mr. Bhagirathi Mahapatra; Mr. Budh Singh; Mr. K. P. Madhavan Nair; Mr. P. Narayanan Nair; Mr. Prafulla Chandra Bhanj Deo; Mr. Purushottam Das Tandon; Dr. Raghu Vira; Dr. A. Ramaswami Mudaliar.

The 20 members from the Lok Sabha were:

Mr. Atulya Ghosh; Mr. B. Bhagavati; Mr. Bhakt Darshan; Dr. T. Y. Gohokar; Mr. Frank Anthony; Seth Govind Das; Mr. Gurmuk Singh Musafir; Mr. Hariah Chandra Sharma; Mr. M. Hifzur Rahman; Mr. Hirendranath Mukherjee; Mr. Manekial Varma; Mr. Mathuraprasad Mishra; Kumari Maniben Vallabhbhai Patel;

Mr. B. S. Murthy; Mr. Pramathanath Banerjee; Mr. Swami Ramananda Tirtha; Mr. Shripad Amrit Dange; Mr. U. S. Malliah; Pandit Thakur Das Bhargava, and Mr. P. T. Thanu Pillai.

The Committee held its first meeting on 10th Nov. 1957. Between this date and 12th May, 1958 it held seven meetings.

From the speeches and discussions at the meeting the trend of opinion seemed to be as follows:—

While Hindi should be the official language of the Union, 1965 should not be regarded as a rigid date-line for the switch-over from English.

The transition from English to Hindi at the Union level and from English to the regional language at the State level should be effected by gradual stages.

In their own areas the regional languages, which would be the medium of instruction all through, would be supreme.

Candidates from non-Hindi areas should not be at a disadvantage in the matter of recruitment to the All-India Services.

The three-language formula proposed by the Union Education Ministry for adoption in the country—the regional language, Hindi and English (or some other foreign language) in the non-Hindi areas, and Hindi a modern Indian language other than Hindi and English (or some other foreign language) in the Hindi areas—this formula was generally approved.

The recommendation of the official Language Commission that the language of the High Courts should ultimately be Hindi was strongly criticized by members from non-Hindi areas. They were of the view that the regional language would be the language of the High Courts. Translations in Hindi for the benefit of High Courts in other States and of the Supreme Court could be provided.

MADRAS MEMORANDUM

The Government of Madras sent a memorandum to the Union Government outlining its views on the Official Language Commission report on 3rd January 1958.

These views can be summed up in some such way as the following.

The memorandum called for a clear declaration of the Union language policy, setting out the objectives as well as the perspective regarding the duration of the transition period and essential safeguards in respect of every aspect of the country's language problem.

It should be the aim of the declaration firmly to discountenance impractical and unreasonable expectations in the Hindi-speaking region and to provide the reassurance which public opinion in the non-Hindi regions needs and expects to secure from the Union Government and Parliament.

The Kher Commission handled the official language question *vis-a-vis* the 15-year target in a "diffident" manner and the entire report has been vitiated by such handling.

There is no well-defined plan for the change from English to Hindi. The Government of India asked the Official Language Commission to draft one; the Commission has not done it. None of the essential prerequisites for the commencement of the transition has been brought into existence so far.

The Commission had known full well that the non-Hindi speaking regions expected it to answer the question whether the time-limit was realistic and if it was not, what the remedy would be. And yet, the Commission failed to answer the question and showed that it was more anxious to avoid causing disappointment in the Hindi region than to allay the apprehensions in the non-Hindi region.

The State Government, therefore, draws the conclusion that it will be necessary to use both English and Hindi as two official languages of the Union for a long period.

The Union Government and Parliament should now announce their readiness to make statutory provision for such bilingualism through the exercise of the legislative power vested in Parliament under Article 343 (3) of the Constitution.

The other points made in the memorandum are:

(1) Language in Union Public Service Commission and departmental examinations: The State Government does not set much store by the Commission's hope that the "progress of Hindi among the non-Hindi speaking university graduates generally would have advanced sufficiently to admit of their competing on equal terms with Hindi-speaking candidates at these examinations through the medium of Hindi.

It is necessary that every regional language should be admitted as one of the alternative media for the combined all-India examinations as soon as that language has been brought into use as the medium of instruction in colleges up to graduation standard.

The resulting problem of moderation should be accepted as a necessary feature of the arrangement for recruitment to these important services. It should be satisfactorily solved by the Union Public Service Commission.

(2) Language in Parliament: The institution of arrangements for simultaneous translation from Hindi to English and *vice versa* may prove to be the best beginning for effecting the transition in Parliament.

(3) Language in Supreme Court: The Commission has not hazarded any guess as to when the time will come for the change-over. It presumes that it will not be until after the High Courts of the Hindi region have changed over completely from English to Hindi.

(4) Inter-Governmental communications: This issue is sufficiently well settled by Article 346 of the Constitution. The Commission proposes that arrangements may be made to supply a Hindi translation of the English text of communications from the Centre to Hindi-speaking States wherever such a request is made. There can be no objection to this.

(5) Language in schools: The Commission recommends a three-language formula for secondary schools in the non-Hindi region. The State Government has decided upon a three-language formula, the terms of which are in certain respects different from those recommended by the Commission.

(6) Language in colleges: The Commission's treatment of the question of the medium of instruction is very unsatisfactory. It is calculated to arouse suspicion about the imposition of Hindi on the people of the non-Hindi region. The medium should be Tamil and not Hindi, in Tamil Nad.

(7) Language in offices and institutions of State Governments: The Commission's views are accepted and there are no special comments.

(8) Language in State legislatures: The Commission is of the view that the statute book in the entire country should be in Hindi. The Government of Madras considers that it is neither necessary nor proper that the laws of the State should be in a language different from the State's official language.

(9) Language in High Courts: The official language of the State (which is the regional language) should be the language of High Courts and not Hindi as recommended by the Commission.

HINDI

Hindi being the official language has a special programme of development.

During 1955-56 Rs 5,40,000 were sanctioned by the Union Government for the propagation of Hindi though only about Rs. 3,25,000 were spent. In 1956-57 over Rs 2,83,000 were sanctioned but only about Rs 1,65,000 were utilized. The sum sanctioned for 1957-58 was Rs. 4 24,566.

A more recent activity is the preparation of lists of words common to Hindi and each of the other Indian languages.

Three provisional lists—Hindi-Bengali, Hindi-Tamil, Hindi-Malayalam—had been published till the end of 1957. Eight more lists were in the press—Assamese, Gujarati, Kannada, Kashmiri, Marathi, Oriya and Punjabi.

After they are finally approved a combined comparative glossary will be published.

A Hindi encyclopaedia in 10 volumes is under preparation by the Kashi Nagari Pracharini Sabha in Panaras.

The work was started in August 1956. Each volume will be about 500 pages. The estimated cost of the whole project is about Rs. 6 5 lakhs.

The first volume has already been published.

Upto the end of Dec. 1957, Rs. 85,000 were paid to the Sabha and the Sabha incurred an expenditure of Rs. 52,074·10.

Since October 1, 1955, the Union Ministry of Home Affairs has assumed the responsibility of teaching Hindi to Central Government servants in and outside Delhi during office hours.

In April 1958 there were 160 Teachers, seven Assistant Supervisors and one Supervisor.

Hindi classes, 863 in number, were being run at 49 centres.

When the scheme started there were 2,500 officers undergoing training. In April 1958 there were 22 000.

The Central Board of Secondary Education, Ajmer, conducts the examinations—Hindi Prabodh and Hindi Praveen—on behalf of the Home Ministry In Oct. 1957 the first examinations were held at 17 centres and 1,677 officers passed In 1958 January another examination was held at 19 centres and about 2,150 candidates appeared.

The Home Ministry originally planned to train about three lakh officers by 1961-62 upto the Pragya stage but the number is expected to exceed that figure as the Ministry has undertaken the training of civilian employees of the defence installations also.

PLACE IN EDUCATION

In the non-Hindi speaking areas the position of Hindi in the education system is broadly as follows:

In the former Andhra area Hindi is a compulsory and independent subject of study in the forms I to IV with a provision for extending it as an independent and compulsory study progressively to forms V and VI. Hindi is an optional subject of study in forms VII and VIII of all secondary schools and a provision has been made for study in the colleges.

In Bombay Hindi is a compulsory subject for standards V-XI and also for the Secondary School Certificate Examination.

Some Universities in Bombay have a provision for the teaching of Hindi during the first two years of the course.

In Madras Hindi is an optional subject in schools upto the Matriculation standard. Provision exists in the Madras University for the teaching of Hindi upto the M.A. standard.

In Orissa Hindi is a compulsory subject of study upto the High School standard.

In West Bengal Hindi is taught in Classes V and VI in all Government High and Middle schools in the State. It is also a subject of study in the higher classes upto the Matriculation class.

In Mysore Hindi is a compulsory non-examination subject in the high schools.

In the Coorg District of Mysore Hindi is an optional subject for the B.A. degree examination.

In the Travancore-Cochin area of Kerala Hindi is compulsory from forms II to VI.

In the Andamans Hindi is compulsory in all Classes from IV to X.

In Manipur Hindi is taught in middle and high schools.

In Tripura Hindi is taught in Government Middle Schools in Class VI and in Government High Schools from Class V to Class VIII.

In the matter of the medium of instruction, in the pre-university stage the mother tongue or the regional language is the accepted practice except in Anglo-Indian schools and a few so-called English medium schools.

In the intermediate stage of university education the position is a little complicated.

In the Hindi-speaking areas Hindi is the medium of instruction, with English as an optional medium in many centres.

In the non-Hindi-speaking areas practice varies.

In the overwhelming majority of the universities here English is the only medium. Gujarat, Baroda, S.N.D.T. and Visva-Bharati allow Hindi as an optional medium. Karnatak, Poona, Calcutta, and Jammu and Kashmir the regional language is an alternative medium.

English is, however, a compulsory subject of study at the intermediate courses in all universities except in Uttar Pradesh.

In the B.A. classes, at the majority of the universities English is the only medium. In the rest alternatives exist. The alternative may be either Hindi or the regional language or both. In this latter category are the universities in the Hindi-speaking areas (except Aligarh, Saugar and Delhi), Patna, Nagpur, S.N.D.T., Osmania, Visva-Bharati and Calcutta (only for some subjects).

Gujarat, Poona and Karnatak have decided to adopt the regional language as the medium.

English is, however, compulsory almost everywhere and an independent optional subject of study.

For B.Sc. and B.Com. degrees English is the usual medium except in Banaras, Bihar, Lucknow, Patna, Saugar and Nagpur where Hindi is an optional medium and in Osmania where the alternative medium is Hindustani. At Allahabad Hindi is optional for B.Sc. and at Rajputana only for B.Com.

For post-graduate study English is the exclusive medium. The only exceptions are Agra and S.N.D.T. which allow Hindi or the mother tongue as alternatives.

POPULATION†

Below we give available population data about States which underwent re-organization in November 1956.

POPULATION GROUPS

	Population	Males	Females	Density per Sq. Mile	Hindus	Muslims	Christians	Sikhs	Tribals
Andhra	31,260,133	15,742,912	15,517,221	295	N.A.	N.A.	N.A.	N.A.	N.A.
Bihar	38,783,778	19,490,560	19,293,218	578	N.A.	N.A.	N.A.	N.A.	N.A.
Bombay	48,265,221	24,821,961	23,443,260	253	N.A.	N.A.	N.A.	N.A.	N.A.
Kerala	13,551,529	6,682,861	6,868,668	904	8,360,596	2,202,774	2,935,385	308	Nil
Madras	29,974,936	14,931,767	15,043,169	597	N.A.	N.A.	N.A.	N.A.	N.A.
Madhya Pradesh ..	26,071,637	13,255,004	12,816,633	152	N.A.	N.A.	N.A.	N.A.	N.A.
Mysore	19,401,193	9,866,533	9,534,660	261	16,894,829	1,944,858	416,001	145,505 (Others)	N.A.
Rajasthan	15,970,774	8,313,883	7,656,891	121	N.A.	N.A.	N.A.	N.A.	N.A.
W. Bengal	26,306,602	14,107,110	12,199,492	769	20,570,677*	4,978,728*	181,491*	30,620*	109,392*

† In certain particulars there is a slight discrepancy between State and Government of India figures. * Excludes Purnea.

ECONOMIC GROUPS *

	Non-Agricultural Population	Percentage of Agricultural Population	Percentage of non-agricultural Population	Cultivators of land wholly or mainly owned and their dependents	Cultivators of land wholly or mainly un-owned and their dependents	Cultivating labourers and their dependents	Non-Cultivating owners of land and their dependents	In production other than cultivation	In Commerce	In transport	Other services and miscellaneous sources
Andhra ..	10,219,809	67·3	32·7	12,238,122	2,412,582	5,755,285	634,335	3,974,240	1,694,759	447,705	4,103,105
Bihar	N.A.	N.A.	N.A.	21,203,511	3,233,444	8,638,099	235,467	1,544,343	1,339,716	275,895	2,313,303
Bombay ..	18,389,720	61·9	38·1	19,062,706	3,982,069	5,863,185	967,551	6,640,381	3,609,991	1,033,091	7,106,257
Kerala ..	6,281,368	53·6	46·4	2,567,547	1,039,045	2,855,649	207,920	2,547,790	1,054,301	420,112	2,259,165
Madhya Pradesh	N.A.	N.A.	N.A.	14,510,285	1,587,068	3,939,174	269,713	2,277,831	716,287	293,127	2,094,722
Madras ..	N.A.	N.A.	N.A.	10,798,955	2,459,671	5,046,226	570,715	4,182,980	2,185,656	544,301	4,251,332
Mysore ..	5,580,532	71·2	28·8	9,245,978	1,812,223	2,102,958	659,502	1,980,665	1,061,602	230,956	2,307,309
Rajasthan ..	4,840,517	69·69	30·31	6,873,546	3,516,128	463,843	257,240	1,491,580	1,094,268	169,651	2,085,018
W. Bengal ..	10,814,446	59	41	9,050,882	3,072,957	3,198,391	160,326	3,868,249	2,355,791	775,085	3,815,321

* For agricultural population see the last column of the next table.

SPECIAL AND RURAL, AND URBAN GROUPS

	Schedule Castes	Schedule Tribes	Anglo-Indians	Rural Population	Urban Population	% of Rural Population	% of Urban Population	Agricultural Population
Andhra Pradesh	4,406,617	766,679	N.A.	25,221,679	5,438,454	82·6	17·4	21,040,324
Bihar	N.A.	N.A.	N.A.	36,157,517	2,626,261	N.A.	N.A.	N.A.
Bombay	4,966,758	3,658,279	N.A.	34,615,248	13,649,973	71·7	28·3	29,875,501
Kerala	1,254,730	80,559	14,948	11,766,592	1,784,937	86·8	13·2	7,270,161
Madras	N.A.	N.A.	N.A.	22,659,540	7,315,396	—	—	N.A.
Madhya Pradesh	N.A.	N.A.	N.A.	22,938,700	3,132,937	—	—	N.A.
Mysore	2,590,056	47,792	N.A.	14,945,208	4,455,985	77	23	13,820,661
Rajasthan	2,502,000	1,774,000	N.A.	13,015,499	2,955,275	81·5	18·5	11,130,287
W. Bengal	4,999,081*	1,370,408*	31,842*	20,024,960	6,281,642	76	24	15,493,156

* Excludes Purnea.

LIVELIHOOD PATTERNS

	Agricultural Classes : Livelihood Patterns (in a sample group of 10,000)			Non-agricultural Classes : Livelihood Patterns (in a sample group of 10,000)			Non-agricultural Self-supporting (in a sample group of 10,000)			
	Self-Supporting	Non-earning dependents	Earning dependents	Self-Supporting	Non-earning dependents	Earning dependents	Employers	Employees	Independent workers	Others
Andhra Pradesh	2,619	6,142	1,239	2,764	6,379	857	392	3,598	6,010	N.A.
Kerala	2,618	6,782	600	2,941	6,500	559	272	5,618	3,670	440
Mysore	2,555	6,455	990	2,848	6,523	629	N.A.	N.A.	N.A.	N.A.
Rajasthan	4,379,795†	1,769,465†	4,980,997†	1,531,519†	364,022†	2,944,976†	31,452*a*	443,660*a*	1,005,071*a*	N.A.

† Absolute figures. *a*.—E.E. & I. Wine Industries and other Services.

INDUSTRY AND COMMERCE

Industries and Services, Self-supporting Persons (in a sample group of 10,000).

	Primary industries not elsewhere specified	Mining and quarrying	Processing and Manufacture of food stuffs, textiles, leather and products thereof	Processing and Manufacture of metals, chemicals and products thereof	Other processing and Manufactures	Commerce	Transport, Storage and Communication	Health, Education and public administration	Services not elsewhere specified	Construction utilities
Andhra Pradesh	657	191	1,998	268	814	1,649	475	1 069	2,250	629
Kerala	1,266	101	1,901	286	1,017	1,404	684	721	2,229	391

LITERACY

	Total literates	Male	Female	Percentage of literary	Total rural literates	Male	Female	Percentage of rural literary	Total urban literates	Male	Female	Percentage of urban literary
Andhra Pradesh..	4,083,382	3,082,814	1,000,568	13·06	2,525,885	1,990,792	535,093	9 78	1,557,497	1,092,022	465 475	28 63
Bombay ..	10,475,000	7,915,000	2,560,000	21·70	N.A.	N.A.	N A	N.A.	N.A.	N A.	N.A.	N.A.
Kerala .	5,473,765	3,330,062	2,143,703	40·4	4,592,363	2,805,852	1,786,511	39 0	881,402	524,210	357,192	49·4
Mysore ..	3,737,286	2,864,360	872,926	19 3	2,165,274	1,780,631	384,643	14·5	1,572,012	1 083,729	488 283	35·3
Rajasthan*	8·05%	14·44%	3%	—	N.A.	N A.	N A.	N.A.	N A	N A.	N A.	N.A.
W. Bengal..	5,180,868*b*	3,964,025*b*	1 216,843*b*	19·9*b*	3,035,870*b*	2,469,754*b*	566,116*b*	15·4*b*	2,144,998*b*	1 494,271*b*	650,727*b*	34·2

* Figures in percentages. *b*.—Excludes Purnea and Purulia estimated.

EDUCATIONAL STANDARDS

	Total no. below middle School Standard	Total no. of middle School Standard	Matriculate & equivalent Standard	Inter in Arts or Science	Degree or Diploma holders
Kerala	5,192,389	139,183	127,733	14,661	57,759

AGE GROUPS

(In a sample of 10,000)

	Infants	1 to 4	5 to 14	15 to 34	35 to 54	55 and over
Andhra Pradesh	271	952	2,464	3,285	2,142	886
Kerala	280	1,142	2,426	3,464	1,871	817
Rajasthan	223,140‡	..	395,429‡	506,670‡	306,149‡	126,759‡

‡ Age-groups (based on 10 per cent sample).

BIRTH-RATE, DEATH-RATE

Only figures for Kerala State are available. The figures for Kerala are for 1956: birth-rate: 22·95; death-rate: 7·40; infant mortality: 50·70.

MARITAL STATUS

	Marital Status from a sample survey of 1,000 persons						Age distribution from a sample of 1,000 married persons							
	Males unmarried	Males married	Males widowed	Females unmarried	Females married	Females widowed	Males, age 0–14	Males, age 15–34	Males, age 35–54	Males, age 55 and over	Females, age 0–14	Females, age 15–34	Females, age 35–54	Females, age 55 and over
Andhra Pradesh ..	243	237	24	176	242	78	9	211	205	69	43	298	140	25
Kerala	298d	182d	13d	252d	197d	58d	..	180d	222d	82d	..	305d	175d	36d
Rajasthan	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	321,784‡	135,061‡	165,580‡	69,270‡	296,785‡	249,409‡	140,569‡	57,491‡

d.—Refers to residuary Travancore-Cochin. Merged in Kerala State. ‡ Age-groups (based on 10 % sample).

POSTS AND TELEGRAPHS

Some statistics for 1957 are given below:

Total no. of persons employed (April 1, 1957): 302,000; Capital outlay: Rs. 99·81 crores.

Gross receipts (1956–57): Rs. 56·84 crores; Working expenses: Rs. 50·52 crores. The accumulated surplus on April 1, 1957: Rs. 22·08 crores.

For administration the country is divided into 13 postal circles. There are four telephone districts (Bombay, Calcutta, Delhi, Madras). The workshops are located in Bombay, Calcutta, Jabalpur.

The training centre is at Jabalpur with regional centres at Ambala, Calcutta and Madras.

No. of postal articles handled: about 326 crores (1956-57); total revenue: Rs. 32·75 crores.

No. of post offices: 58,871 (rural 52,177); no. of registered articles handled: 9·7 crores; insured articles: 40 lakhs; money orders: 6·7 crores.

No. of savings bank transactions (1956-57): 20·3 millions.

No. of telegraph offices: 10,081; no. of telegrams: about 3·5 crores (about 44 lakhs foreign); telegraph revenue: Rs. 6·5 crores (foreign telegrams: Rs. 1·47 crores).

Mileage of wire (31st March, 1957): 910,451.

No. of telephones (Jan. 26, 1957): 300,000; public call offices: 4,434 (March 31, 1957); departmental exchanges: 952 (March 31, 1957); no. of trunk calls (1956–57): 2·08 crores; telephone revenue: Rs. 16·3 crores (1956-57).

Budget estimates 1958-59: Gross receipts: Rs. 63·64 crores; working expenses: Rs. 61·30 crores; surplus: Rs. 2·34 crores.

Complaints: Total no. of complaints pending on 31st Dec., 1957: 34,484.

The total number of complaints received during the calendar year 1957 and disposed of were 468,408 and 465,628 respectively.

Hindi: Efforts to propagate Hindi continue. The Postal Guide Part I in that language is in circulation. About a dozen P. & T. forms have been translated. Facilities for booking and transmitting telegrams in Hindi now exist in more than 1,200 offices. About 5,700 telegrams per month were booked in 1957 as against 5,600 in 1956.

Decimal System: All accounts are now kept in this system except Telephone Revenue Accounting. An entirely new set of postage stamps and postal stationery was released on 1st April 1957. The stamps belonging to the older system are sold at their redenoted values in naye paise. Under weights and measures preliminary action has been taken to gauge the requirements.

The new series of Ordinary postal stamps consists of eleven denominations ranging from one naya paisa to 75 naye paise. They bear a common design—the outline map of India.

The new series of Service stamps consists of nine denominations—one naya paisa to 50 naye paise. The common motif here is the lion Capital of Asoka.

The new set of postal stationery—cards, envelopes—also have the same motif except the Aerogrammes which show an aeroplane in flight.

Commemorative Stamps: Commemoration related to the 100th Anniversary of the 1957 revolt; 10th Anniversary of Independence; the XIX International Red Cross Conference in New Delhi on 28th Oct., 1957; Children's Day; The Centenary of the Universities of Bombay, Calcutta and Madras.

In 1958 the Commemoration would relate to the 50th year of the steel industry, Dr. D. K. Karve and Sir Jagdish Chandra Bose.

Postal Life Insurance: Total no. of proposals accepted between April 1957 and Nov. 1957: 5,594.

Transfer of Savings Bank Accounts: The no. and value of lists transferred by Pakistan were 23,292 and Rs. 1,13,11,522 respectively. The value of the lists transferred by India was Rs. 30,58,496 (as on 31-10-1957).

Cheque System: This system for deposit and withdrawal would first be introduced in eight cities and later extended to head and departmental sub-offices.

Mail Service: Runners were replaced by speedier service on 367 lines covering 2,906 miles.

Letter-Boxes: The total no. on 1st Dec. 1957 was 134,861 as against 126,586 on 1st Dec. 1956. No. in rural areas on 1st Dec. 1957: 100,913.

Telegraphs: In December 1957 only two District towns (both in NEFA) out of 322 in the whole country, 13 out of 482 sub-divisional towns, and 145 out of 1,369 Tehsil stations remained without telegraph facilities.

The total no. of telegraph offices* in the country was 5,638 on 31st Dec. 1957 (no. opened during 1957: 277).

As a first step towards modernization a Tape Relay Exchange was installed at Bombay. Depending on the availability of foreign exchange this would be extended to Calcutta, Delhi and Madras during the Second Plan.

1,236 teleprinters were in service on 31st Dec. 1957.

Telephones: By the end of December 1957 only 16 out of 322 District towns and 78 sub-divisional towns out of 482 remained without PCO's. 'Own Your Telephone' was introduced in Dec. 1949. The number of subscribers and applicants on 31st Dec. 1957 was 29,034, and the total amount collected was Rs. 6,75,44,500. The no. of connections provided was 29,264.

FIVE-YEAR PLANS

The progress during the First and Second Plans is shown below:

	First Plan	*Second Plan* (1956-57)
Post Offices	19,712	3,687
Telegraph Offices ..	1,465	401
P.C.O's (Long Distance)	916	201
Telephones	109,600	37,000
New Exchanges	347	124
Channel Mileage (Telephones)	44,800	32,000
Channel Mileage (Telegraph)	63,200	28,200

* Independent.

PRODUCTION (INDUSTRIAL) 1957

Item	Unit	Installed Capacity	Production
Coal	000 tons	....	43,536
Iron Ore	,, ,,	....	4,620
Sugar[1]	,, ,,	....	2,039
Wheat Flour[2]	,, ,,	1,586	655
Coffee[3]	,, ,,	....	41
Tea[4]	,, lb.	....	666,000
Salt	,, mds.	....	98,700
Vanaspati	,, tons	444	301
Cigarettes	nos. lakhs	....	280,344
Cotton Yarn	000 lb.	12,051,209[5] spindles	1,780,096
Cotton Cloth	000 yd.	202,901[5] looms	5,317,420
Hessian[6]	,, tons	72,158[7] looms	414
Sacking			548
Other Manufactures	,, ,,		67
Woollen/Worsted Fabrics	,, yds.	24,000	15,792
Woollen/Worsted Yarn	,, lb.	20,196	27,792
Cotton & Hair Belting	,, tons	1	1
Footwear—Western Type	,, pairs	5,975	4,369
Footwear—Indigenous Type	,, ,,	....	3,038
Plywood—Tea Chests	,, sq. ft.	153,600	93,420
,, Commercial			31,632
Printing & Writing Paper		252	127
Wrapping Paper	,, tons		38
Paper—Special Varieties			7
Paper Boards			38
Tanned Hides—Chrome	,, pieces	1,644	630
Vegetable Tanned	,, ,,	3,180	1,792
Leather Cloth	,, yds.	8,700	3,511
Footwear (Rubber)	,, pairs	48,720	36,960
Dipped Rubber goods	,, doz.	42,840	19,800
Tyres—Automobile	000 nos.	1,033	989
,, Cycle	,, ,,	7,289	7,152
,, Tractor	,, ,,	32	47
,, Aero	,, ,,	6	4
,, Cab	000 ft.	1,284	311
,, A.D.V.	,, nos.	32	47
,, Off-the-Road	,, ,,	6	2
Tubes—Automobiles	000 nos.	1,046	936
,, Cycle	,, ,,	8,254	7,027
,, Tractor	,, ,,	34	45
,, Aero	,, ,,	4	2
,, A.D.V.	,, ,,	46	64
,, Off-the-Road	,, ,,	6	2
Hoses—Radiator	,, ,,	570	172
,, Vacuum Brake	,, ,,	1,080	778
,, Other Types	000 ft.	11,344	7,981
Fan Belts	000 nos.	1,009	653
Industrial V-Belts	,, ,,	....	451
Rubber Ply Tran & Convey Belting	,, tons	744	1,536
Rubber Components of Rly. fittings	000 nos.	1,536	1,723
Ebonite Sheets, Rods & Tubes	000 lb.	1,384	240
Waterproofed Fabrics	000 yds.	6,294	3,077
Latex Foam Sponge	000 lb.	1,674	1,956
Sulphuric Acid	000 tons	273	191
Caustic Soda	,, ,,	45	42
Soda Ash	,, ,,	108	92
Chlorine Liquid	,, ,,	21	16
Bleaching Powder	,, ,,	15	5
Bichromates	,, ,,	7	4
Superphosphates	,, ,,	278	142
Ammonium Sulphate	,, ,,	431	380
Copper Sulphate	,, ,,	6	2
Sodium Sulphide	,, ,,	10	3
Zinc Oxide	,, ,,	12	5
Paints & Varnishes	,, ,,	65	42
Matches[8]	,, cases[9]	706	577
Soap[10]	000 tons	253	113
Glue	000 cwt.	49	26
Oxygen	lakh c.ft.	4,896	4,020
Acetylene	,, ,,	1,152	641
Glycerine	000 tons	5	3
Viscose Yarn	,, ,,	13	9
Staple Fibre	,, ,,	14	8
Acetate yarn	,, ,,	2	2
Phenol Formaldehyde Moulding Powder	000 lb.	2,352	2,632
Liver Extract—Injection	000 c.c.	104,484	28,140
,, Oral	000 lb.	1,559	247
Sheet Glass	000 sq. ft.	106,560	54,607
Laboratory Glass	000 tons	6	3
Glass Shells	Lakh pieces	274	391
Other Glassware	000 tons	239	124

[1] Sugar Season, 1956–57. [2] Production of only large flour mills. [3] Total output of coffee cured, pounded and delivered to the coffee pool. [4] Exclusive of production in Punjab (Kangra) and Himachal Pradesh. [5] As on 1-1-1956. [6] Includes canvas. [7] Position of total hessian and sacking looms (68,657) and other looms (3,501) as on 30-6-1955. [8] Includes Jammu & Kashmir. [9] 50 gross boxes of 60 sticks each. [10] Figures refer to the production of organised factories. —Negligible. ....Not known.

Item	Unit	Installed Capacity	Production
Cement	000 tons	6,534	5,602
White-wares	,, ,,	22	16
Sanitary-wares	,, ,,	7	3
Stone-wares	,, ,,	74	52
Glazed Tiles	000 dos.	559	521
Refractories	000 tons	473	362
Insulators H. T.	000 nos.	2,089	186
Insulators L. T.	,, ,,	12,077	4,558
Coated Abrasives	000 reams	190	91
Asbestos	000 tons	145	158
Pig Iron	,, ,,	2,221[11]	1,789
Direct Castings	,, ,,	....	113
Ferro-Alloys	,, ,,	....	10
Steel Ingots and Metal for Castings	,, ,,	1,542	1,715
Semi-finished Steel	,, ,,	1,366	1,440
Finished Steel	,, ,,	1,730	1,346
Aluminium	,, ,,	8	8
Antimony	,, ,,	1	1
Copper—Virgin	,, ,,	7	8
,, Pipes & Tubes	,, —	—	—
,, Sheets & Circles	000 tons	45	2
Lead—Virgin	,, ,,	6	3
,, Pipes & Tubes	,, ,,	5	—
Brass—Pipes & Tubes	,, —	—	—
,, Sheets & Circles	000 tons	....	18
Gold[12]	000 oz.	....	179
Screws—Wood	000 gross	5,825	3,372
,, Machine	,, ,,	1,241	1,278
Razor Blades	lakhs	6,144	3,365
Hurricane Lanterns	000 nos.	3,793	4,148
Oil Pressure Lamps	,, ,,	142	98
Enamel-ware	000 pieces	30,000	13,656
Expanded Metal	000 tons	3	1
Duplicators	000 nos.	7	3
Crown Cork	000 gross	4,600	2,634
Diesel Engines	000 nos.	22	17
Power-driven Pumps	,, ,,	68	64
Sewing Machines	,, ,,	81	167
Machine Tools—Complete	000 Rs.	....	23,425
,, Accessories	,, ,,	....	1,582
Twist-Drills	000 nos.	3,037	2,258
Calico Looms	,, ,,	5	3
Ring Spinning Frames	,, ,,	2	1
Grinding Wheels	000 lb.	4,189	3,233
Carding Engines	000 nos.	2	1
Arc Welding Electrodes	lakh ft.	1,130	2,128
Conduit Pipes	000 r. ft.	8,486	11,783
Dry Cells	lakhs	2,244	1,666
Storage Batteries	000 nos.	317	324
Electric Motors	000 h.p.	340	469
Power Transformers	000 k.v.a.	934	1,219
Electric Lamps: Incandescent	000 nos.	43,080	32,130
,, Fluorescent	,, ,,	800	1,019
Electric Fans	,, ,,	402	524
Radio Receivers	,, ,,	241	190
Cables & Wires—Conductors Copper	000 tons	18	9
,, ,, Aluminium	,, ,,	13	15
Winding Wires	,, ,,	1	1
Rubber & Plastic Cables & Flexibles	lakh yd.	1,966	1,023
House Service Meters	000 nos.	334	281
Domestic Refrigerators	,, ,,	4	1
Cars	,, ,,	49	12
Jeeps and Land Rovers	,, ,,	(Total)	4
Other Vehicles	,, ,,		1
Trucks—Petrol	,, ,,		3
,, Diesel	,, ,,		9
Passenger Buses—Petrol	,, ,,		—
,, Diesel	,, ,,		4
Bicycles—Complete	,, ,,	747	801
,, Spare Parts	000 Rs.	....	27,544
Plastic Moulding	000 gross	....	3,937
P.V.C. Sheetings	000 sq. yd.	1,500	299
Linoleum	000 lin. yd.	450	328
Alcohol—Power	000 bulk Gal.	13,800	10,126
Spirit, Rectified	,, ,, ,,	14,904	5,084
,, Denatured	,, ,, ,,	....	3,490
Electricity Generated[13]	lakh kW. or k.W.H.	29 lakh kW.	108,343 lakh k.W.H.

[11] Includes capacity for direct castings and ferro-alloys. [12] Includes production of gold in Hyderabad. [13] Includes Jammu and Kash and covers all power stations owned by public utility undertakings and two stations owned by industrial concerns. —Negligible. ....Not know

REFUGEES AND REHABILITATION

BELOW we give a few facts and figures for 1957–58.

Displaced persons from West Pakistan 47·40 lakhs; from East Pakistan 41·16 lakhs (including the post-census migration); total 88·56 lakhs.

Total amount spent on D.P.s upto end of March 1958: Rs. 304·11 crores. Provision for 1958–59: Rs. 31·56 crores.

Dandakaranya: Rs. 25·0 lakhs.

Total expenditure (1957–58): Rs. 27·48 crores.

The distribution of displaced persons among the various States was as follows (for the Western Zone based on the 1951 census figures and an estimated influx of about 20,000 after census, for the Eastern Zone on estimates in December 1957):

Andamans 4,000; Andhra 4,000; Assam 487,000; Bihar 67,000; Bombay 415,000; Delhi 501,000; Himachal Pradesh 5,000; Madhya Pradesh 210,000; Madras 9,000; Manipur 2,000; Mysore 7,000; Orissa 12,000; Punjab 2,737,000; Rajasthan 373,000; Tripura 374,000; Uttar Pradesh 486,000; West Bengal 3,163,000.

GRANTS, LOANS

The figures are in Rs. lakhs and are upto March 31, 1958: Rs. lakhs

	West Pakistan	East Pakistan	Total
Establishment ..	195·16	45·15	240·31
Grants ..	8,010·87	6,013·29	14,024·16
Loans ..	3,207·31	3,597·71	6,805·02
Housing ..	5,981·81	3,038·33	9,020·14
Miscellaneous ..	—	—	0·51
Dandakaranya ..	—	—	25·00

Loans advanced to State Governments for rehabilitation upto 31st March 1958:

Total: Rs. 6,580·73 lakhs.

Western Zone: Rs. 2,510·55 lakhs.

Eastern Zone: Rs. 3,598·34 lakhs.

For industrial purposes (total): Rs. 471·84 lakhs.

The total at the top does not include housing loans to States etc. and loans by Rehabilitation Finance Corporation.

Loans to State Governments in 1957–58: Rs. 579·59 lakhs (R.E.).

Loans to State Governments in 1958–59: Rs. 695·02 lakhs (B.E.).

EMPLOYMENT, HOUSING, COMPENSATION

Placements of displaced persons through employment exchanges upto 31st Dec., 1957:

Total: 2,53,650.

Eastern Zone: 54,484; Western Zone: 1,99,166.

No. on live register on 31st Dec., 1957: 42,575. Eastern Zone: 35,338; Western Zone: 7,237.

Total number of residential units constructed in the eastern zone (31st Dec. 1957):

Total: 3,89,479 (by Government 3,363, by D.P.s with State assistance 3,81,116).

The total State-wise: Andamans 1,012; Assam 27,313; Bihar 4,085; Manipur 607; Orissa 2,520; Tripura 73,130; Uttar Pradesh 1,173; West Bengal 2,79,639.

Total number of residential units/shops constructed for D.P.'s from W. Pakistan (31st Dec. 1957):

Total of houses/tenements: 1,86,631 (By Government 1,62,268; by D.P.s: 24,363).

Total of shops/stalls: 24,909.

The total of houses/tenements State-wise: Andhra 21; Bihar 574; Bombay 42,774; Delhi 50,329; Kashmir 1,700; Kerala 1,324; Madhya Pradesh 5,687; Madras 92; Mysore 55; Punjab 47,525; Rajasthan 3,251; U.P. 18,454. In the townships of Faridabad 5,158; Gandhidham 4,349; Hastinapur 610; Nilokeri 983; Prem Nagar 1,200; Rajpura 2,572.

Total number of displaced families from East Pakistan settled on land as in November 1957: 546,900.

The total State-wise: Andamans 1,000; Assam 69,000; Bihar 10,500; Manipur 500; Orissa 1,500; Tripura 52,500; U.P. 1,100; W. Bengal 410,800.

Total number of displaced persons from W. Pakistan settled on land: 568,000.

Total number of applications received from D.P.'s from W. Pakistan as on 31st Dec., 1957: 4,69,446.

Of these the number of 1st and 2nd priority categories: 1,92,537.

Residuary number of claimants: 2,76,909.

Total number of claimants paid compensation as on 31st Jan. 1958: 2,54,368.

Total amount of compensation paid: Rs. 76,04,47,124.

Amount paid in cash: Rs. 44,02,42,115.

Amount paid by transfer of properties: Rs. 19·38 crores.

Amount paid by adjustment of outstanding dues: Rs. 12,14,29,391.

MISCELLANEOUS ITEMS

Relief:

No. of persons in receipt of gratuitous relief from Government:

Temporary liability (E. Pak. D.P.s in camps as on 30th Nov. 1957): 2·64 lakhs.

Permanent and semi-permanent liability (as on 31st Dec. 1957): Total: 82,000.

From W. Pakistan: 22,000.

From E. Pakistan: 60,000.

Maintenance allowance for D.P.'s from W. Pakistan:

No. of recipients (peak figure): 17,000.

Amount released for payment of allowance (upto 31st Dec. 1957): Rs. 140 lakhs.

Industries:

Medium Industries for displaced persons from West Pakistan—

Number of schemes sanctioned upto 31st December 1957 43

Investment on the part of Government .. .. Rs. 114·25 lakhs

Number of displaced persons expected to be employed 8,000

Small/Cottage Industries for displaced persons from West Pakistan—

Number of schemes sanctioned upto December 1957 42

Expenditure involved .. Rs. 13·85 lakhs

Number of displaced persons expected to be employed 1,100

Medium Industries for displaced persons from East Pakistan—

Number of schemes sanctioned upto 30th November 1957 20

Investment on the part of Government .. .. Rs. 268·11 lakhs

Number of displaced persons expected to be employed 10,000

Small-Cottage Industries for displaced persons from East Pakistan—

Number of Schemes sanctioned upto 31st December, 1957 26

Expenditure involved .. Rs. 27·98 lakhs

Number of displaced persons expected to be employed 6,000

Technical and Vocational Training—

Displaced Persons from West Pakistan:

Number trained 86,000

Number under training .. 7,000

Displaced persons from East Pakistan—

Number trained 32,000

Number under training .. 5,000

REHABILITATION FINANCE ADMINISTRATION

(Church Road, New Delhi)

Chief Administrator, R. N. Hazari.

Dy. Chief Administrator, N. L. Chatterjee.

Chief Accountant, D. L. Sondhi.

Law Officer, S. Saran Singh.

The relevant statistics are given in the table below. They show the position as at the end of December 1957:

Origin of applicants	Applications received	Applications disposed of	Applications sanctioned	Amount sanctioned	Amount paid
				Rs. lakhs.	Rs. lakhs.
West Pakistan	47,298	47,298	9,878	797·40	723·74
East Pakistan (Old) ..	18,451	18,451	4,384	334·68	349·74
East Pakistan (New) ..	22,738	16,266	1,530	93·51	
Total	88,487	82,015	15,792	1,225·59	1,073·48

Amount of instalment due: Principal: Rs. 322·64 lakhs; Interest: Rs. 178·80 lakhs.

Amount of instalment received: Principal Rs. 219·84 lakhs; Interest: Rs. 117·74 lakhs.

A REVIEW

A new phase marked the progress of the rehabilitation of displaced persons during 1957. The work of rehabilitation of D.Ps. from West Pakistan was nearly completed and it was decided to wind up the activities of the Rehabilitation Ministry in the western region and to transfer its activities to the various appropriate ministries.

D. Ps. from E. Pakistan

In the eastern region, there was an abatement in the pace of migration from East Pakistan due to the regulation of migration certificates and only 11,000 displaced persons came over to India in 1957.

Efforts are being made to locate agricultural lands in the States outside the eastern zone. Sixty-five schemes for the rehabilitation of 7,834 families on 42,462 acres have already been sanctioned at a cost of Rs. 339·22 lakhs and schemes in respect of another 48,000 acres are under preparation.

About 1,529 primary schools, 22 secondary schools and 20 colleges were sanctioned. The total expenditure on the education of displaced students in the eastern region, excluding those in camps, would be about Rs. 146·90 lakhs during 1957–58.

A system of priority was introduced in October 1956 for the issue of migration certificates by the Deputy High Commissioner for India at Dacca to regulate the migration of displaced persons from East Pakistan. During 1957, 8,125 D.Ps. came to India from January to June, and 2,795 from July to December.

There were 168 camps in the eastern regions with a population of 2,64,028 persons on December 31, 1957. Of this, 2·11 lakhs were in West Bengal. It was decided not to admit any more displaced persons in camps in West Bengal as the State Government indicated that a substantial portion of their camp population could not be absorbed in the economy of the State. It requested that arrangements might be made for their rehabilitation outside the State. New camps were set up in other States for the surplus camp population in West Bengal.

In addition to the D.Ps. in camps, there were 44 homes in the region with a population of 59,870 persons.

Dandakaranya Project: The first colony in Dandakaranya, according to the present arrangement, was expected to be set up at Pharasgaon in the Bastar District of Madhya Pradesh, before the onset of the monsoon—June 1958.

The possibilities of utilising the area called Dandakaranya consisting of about 80,000 square miles on the borders of Andhra, Madhya Pradesh and Orissa, were examined as West Bengal, Assam and Tripura could not take any more immigrants.

A Chief Administrator (L. A. Fletcher) has been appointed.

Side by side with the setting up of a model village for 100 D.P. families at Pharasgaon, action is also being taken to open up road communications in the area by employing labour from amongst displaced persons.

The first phase of the development envisages the rehabilitation of 18,000 displaced families in 150 villages. The target is to reclaim 1·42 lakh acres of land by a combination of mechanised units, tribal manpower and displaced persons. The manpower requirements for this purpose would be 4,000 tribals and 12,800 D.Ps. in 1958–59, going steadily up to 5,000 tribals and 12,800 D.Ps. by the end of the Plan period.

A Dandakaranya Development Corps of able-bodied displaced persons will be raised to train them not only for reclamation but also for road work and in certain building trades as thousands of them will be needed for construction of houses, villages, roads, community buildings and minor and medium irrigation.

The first phase will be confined to the development of the districts of Bastar (Madhya Pradesh), Koraput and Kalahandi (Orissa) with a combined area of over 30,000 square miles, almost equal to the area of West Bengal. The population of these areas is only just over 30 lakhs with a density of 120.

An assessment of the size of the problem had indicated that the rehabilitation of displaced persons in Manipur and Uttar Pradesh has almost been completed. In Bihar and Orissa, the work was likely to be completed by March 1959 and in Assam and Tripura, by the end of the Second Plan period.

The problem in West Bengal was, however, comparatively big and likely to take a longer time.

A five-point plan was adopted at a conference of Rehabilitation Ministers of eight States held at Darjeeling in October 1957. The five points included early liquidation of camps by either converting them into townships or by providing land or employment to camp families.

The ministers also considered the policy that should be adopted in regard to future migrants from East Pakistan having regard to the size of the existing problem, the dearth of suitable agricultural lands and the prevailing un-employment in the country.

The general view was that in the interest of the existing displaced persons, the problem should not be allowed to grow indefinitely and that a deadline should be fixed after which fresh migrants should not be entitled to receive relief or rehabilitation assistance.

D. Ps. from W. Pakistan

Work relating to displaced persons from West Pakistan has been completed; the only outstanding item being payment of compensation and negotiations with Pakistan. The activities of the Ministry in the western region are being wound up and its activities relating to health, education, vocational and technical training, homes and infirmaries, etc., are being transferred to the ministries.

Compensation: Up to the end of January, 1958, 2·60 lakhs out of the total number of 4 70 lakh claimants, were paid compensation. Of this, 2·17 lakhs were been paid full compensation under the final scheme, and 0·43 lakh, the first instalment of the compensation under the interim scheme.

In addition, 0·29 lakh certificates of admissibility of compensation were issued. All but a small number of priority cases were paid along with about 50 per cent of small claimants whose claims were for Rs. 10,000 or less. About 50 per cent of bigger claimants were also paid. It was expected that the payment to small claimants and to the bulk of other claimants would be completed by the end of 1958–59.

The amount of compensation paid up to January 31, 1958 was Rs. 76·04 crores—Rs. 44·02 crores in cash, Rs. 19·88 crores by transfer of properties and Rs. 12·14 crores by adjustment of public dues.

Claimants and non-claimants in occupation of allottable Government-built and evacuee properties were allowed to become owners on payment of an initial instalment of 20 per cent of the purchase price and the balance in seven equal annual instalments.

Non-claimants in arrears with their rent and willing to purchase allottable property in their occupation, were allowed to pay 20 per cent of the arrears along with the first instalment of the cost of the property and the balance in seven annual instalments.

Most of the 61,000 priority cases and a large number of small claimants were paid in cash. Although it was decided to limit cash payments, T.B. patients and mentally affected persons, etc., among priority category claimants would continue to receive payments in cash.

Rural Rehabilitation: Evacuee lands in the Punjab were allotted on a quasi-permanent basis to 4·77 lakh families. Another 0·33 lakh families were settled as tenants-at-will. In addition, 58,000 families were given land on a temporary basis in other States. These families were generally given rural loans up to Rs. 1,102 each. By 1956–1957, rural loans amounting to Rs. 917·49 lakhs were advanced to them The grant of rural loans was however, discontinued with effect from 1957–1958.

Up to January 31, 1958, permanent rights were transferred to 2·50 lakh allottees in the Punjab covering an area of 18·52 lakh standard acres worth Rs 83·36 crores. Proprietory rights in 79,353 houses allotted along with the land were also transferred up to that date.

Urban Rehabilitation: Nineteen new townships were set up in the western region for D Ps. The four townships with which the Union Government was directly associated were proposed to be transferred to State Governments concerned.

During 1957–58, Rs. 36·58 lakhs were sanctioned for stipends, freeships, purchase of books, etc. About Rs 35 lakhs were also sanctioned up to January 15, 1958 as grants-in-aid to disrupted educational, medical and other institutions bringing the total grants-in-aid to such institutions to Rs. 182·09 lakhs.

Negotiations with Pakistan: The major problem of immovable property continues to remain unresolved. Some progress was, however, made in the implementation of the Movable Property Agreement. Up to December 31, 1957, personal and house-hold effects valued at about Rs. 70·94 lakhs, belonging to 1,406 D Ps. were retrieved from West Pakistan. Buried treasures of the estimated value of Rs. 68 lakhs were recovered up to December 31, 1957. In addition, 1,164 fire arms, cheques and bank drafts for Rs 15·65 lakhs, and verified list of postal account and certificates of the value of Rs. 1,18,11,522 were received.

UNION BUDGET CHANGES

Certain changes were made in the 1958-59 budget as originally presented to Parliament.

These are given below:

Excise Duty on Mill Cloth

The following are the revised rates (excluding the additional excise duty and the handloom cess): (In nP per square yard):

Coarse	*Revised*	*Before revision*
Dhotis and *Saris* ..	3	3·125
Other sorts	6	9·375
Medium	*Revised*	*Before revision*
Dhotis and *Saris* ..	7	9·375
Other sorts	9	9·375
Fine	17	18·750
Superfine	22	25·000

Compulsory Deposit Scheme: The scheme is to be suspended for the financial year 1958-59.

Section 23A Companies: The rate of tax in respect of high dividends above 18 per cent by Section 23A Companies has been reduced from 30 per cent to 20 per cent.

Development Rebate: The effect of the amendments is twofold. In the first place, if the total income for any year before allowing development rebate falls short of the full amount of rebate, the rebate to be allowed for that year will be limited to such total income. The balance of the rebate will be allowed to be carried forward for being claimed in the succeeding year or years. The number of years for which it can be so carried forward will, of course, be restricted to eight, which is the number of years for which unabsorbed losses can be carried forward under the present law. Secondly, the amount to be

taken to the reserve need not exceed 75 per cent. of the amount of the rebate claimed.

GIFT TAX BILL

The Gift Tax Bill was passed by the Lok Sabha on 6th May, 1958. The Bill provides for the levy of a tax on gifts made during the previous year at the rates notified below :

On the first Rs. 50,000—4 per cent., on the next Rs. 50,000—6 per cent., on the next Rs. 50,000—8 per cent., on the next Rs. 50,000—10 per cent., on the next Rs. 1,00,000—12 per cent., on the next Rs. 2,00,000—15 per cent., on the next Rs. 5,00,000—20 per cent., on the next Rs. 10,00,000—25 per cent., on the next Rs. 10,00,000—30 per cent., on the next Rs. 20,00,000—35 per cent. and on the balance—40 per cent.

Gifts exempt from tax are :

(*a*) immovable property situated outside India ; (*b*) movable property situated outside India, where the donor is not a citizen of India or where the donor, not being an individual, is a non-resident ; (*c*) saving scertificates declared gift-tax free ; (*d*) gifts to Government or local authorities ; (*e*) gifts to recognised charitable institutions or funds ; (*f*) gifts for any charitable purpose up to Rs. 100 in respect of each gift ; (*g*) gifts to female dependant members on the occasion of marriage, subject to a maximum of Rs. 10,000 ; (*h*) gifts to wife, subject to a maximum of Rs. 1,08,000 ; (*i*) gifts of policies of insurance or annuities to wife, children or dependants subject to a maximum of Rs. 10,000 in respect of each donee ; (*j*) gifts under a will and (*k*) gifts in contemplation of death.

Without prejudice to these exemptions, no person need pay gift-tax if the gifts do not exceed Rs. 10,000 in one previous year. But, if the taxable gift to any individual donee exceeds Rs. 3,000 during the year, the donor will have to pay tax in respect of all gifts above Rs. 5,000.

Gifts made before 1st April 1957 do not come within the purview of the Gift Tax Bill.

No aggregation of gifts during the preceding five years is made for the purpose of determining the rate of duty.

STATE BUDGETS

Below we give details of State budgets for 1958-59.

SOME HEADS OF REVENUE Rs. lakhs.

States	Total Revenue	Taxes	Land Revenue	State Excise	Stamps	Forest	Tax on Vehicles	Sales Tax	Other Taxes and Duties
Andhra Pradesh	6,365·88	630·00	815·32	636·10	240·00	249·17	242·44	792·77	68·96
Assam	2,926·58	332·21	236·79	180·15	38·05	93·94	57·03	..	387·50
Bihar	6,190·18	758·96	1,220·64	464·38	232·39	114·23	5·92	..	615·45
Bombay	12,000·15	1,229·21	1,326·32	116·83	556·56	493·66	369·31	2,438·96	881·29
Jammu & Kashmir	1,154·25	86·97	95·52	26·50	12·00	228·17	7·00	..	20·00
Kerala	3,362·44	510·17	168·32	219·06	110·33	282·40	163·80	420·00	8·82
Madhya Pradesh	5,616·79	520·24	902·94	388·51	130·13	643·55	100·16	456·00	68·18
Madras	6,390·28	604·00	486·93	27 85	352·81	92·35	450·00	880·00	626·15
Mysore	6,549·21	475·30	458·00	265·64	153·28	375·33	186·30	588·59	114·70
Orissa	2,752·35	291·46	224·36	117·20	53·38	243·92	63·62	..	178·82
Punjab	4,780·89	326·35	434·44	492·40	140·41	72·33	61·83	..	556·64
Rajasthan	3,303·91	326·00	620·00	320·00	82·24	74·50	68·00	262·90	7·10
Uttar Pradesh	10,822·92	1,327·23	2,112·59	504·40	290·00	482·33	138·00	..	1,303·19
West Bengal	6,886·59	848·92	602·58	524·94	289·79	132·29	147·95	930·00	764·25
Delhi	619·84	..	5·85	149·85	66·81	·04	29·00	179·35	37·49
Himachal Pradesh	263·18	..	19·08	14·40	4·77	133·91	0·82	0·41	5·07
Manipur	46·08	..	14·37	0·50	1·55	3·50	3·00	..	4·40
Tripura	39·00	1·00	10·10	1·50	3·50	8·00	1·00	..	1·40
Andaman & Nicobars ..	150·67	1·08	2·70	0·15	0·24	98·57	0·12	..	0·65
Laccadive, Minicoy and Amindivi Islands	3·79*	..	..	..	..	..	..	..	..
Pondicherry	200·00	7·20	4·90	26·80	1·45	..	..	..	14·10

* Revenue receipts are only nominal amounting to about Rs. 3·79 lakhs only according to the Revised Estimates for 1957-58.

(In lakhs of rupees)

States	Total Expenditure	SOME HEADS OF EXPENDITURE										
		Irrigation[1]	General administration	Administration of justice	Police	Education	Medical	Public Health	Agriculture (a)	Co-operation	Industries & supplies	Community Projects[2]
Andhra Pradesh ..	6,287·34	378·79	472·84	106·55	529·56	1,168·90	309·79	134·88	274·50	128·00	131·76	327·11
Assam	2,839·18	71·68	132·03	23·69	234·06	478·16	111·48	109·64	173·34	54·58	77·46	143·53
Bihar	5,642·01	..	425·53	104·78	442·64	917·77	240·71	245·98	293·36	192·83	148·85	468·01
Bombay	12,201·11	315·04	860·13	206·62	1,271·26	2,296·55	770·69	265·10	446·46	162·24	223·97	327·42
Jammu & Kashmir	959·57	43·57	48·98	9·93	68·60	139·39	58·93	7·67	16·63	12·19	5·36	94·08
Kerala	3,417·27	57·21	128·09	77·08	186·97	1,084·71	247·24	167·38	195·08	23·89	77·85	127·53
Madhya Pradesh	5,506·76	78·11	353·76	87·00	488·40	1,124·55	249·28	168·16	265·17	55·35	140·52	386·76
Madras	6,375·54	280·26	434·60	126·53	522·04	1,204·22	414·85	75·52	253·79	145·59	486·40	236·15
Mysore	6,535·16	111·72	252·00	78·91	309·93	1,078·26	269·97	144·82	337·35	68·38	1,639·10	208·62
Orissa	2,694·38	44·49	211·43	30·05	173·16	335·47	91·53	72·28	119·14	57·92	49·55	257·27
Punjab	4,989·26	130·94	314·19	70·00	451·08	1,092·16	229·52	111·47	120·80	62·44	86·71	203·56
Rajasthan	3,374·41	61·06	223·95	48·75	393·00	655·54	227·30	102·83	95·95	31·50	64·40	143·00
Uttar Pradesh ..	11,276·53	505·45	703·51	174·31	890·95	1,602·97	389·47	206·71	369·65	153·32	550·29	951·55
West Bengal ..	7,269·16	130·07	330·80	118·48	782·82	1,238·48	476·56	231·59	459·59	35·69	213·66	556·68
Delhi	773·78	0·99	34·21	14·62	178·22	259·98	100·70	18·74	17 95	4·41	4·73	6·89
Himachal Pradesh	464·24	8·05	33·48	6·13	37·76	35·63	10·77	27·76	23·31	5·61	22·88	35·19
Manipur	216·72	2·00	10·13	1·67	52·90	32·14	12·00	7·69	2·84	1·24	4·80	6·71
Tripura	329·23	2·00	16·27	2·66	52·66	90·26	15·88	11·98	11·00	0 44	9·09	10·22
Andaman and Nicobars ..	277·91	..	11·27	..	17·02	8·27	8·49	4·10	8·71	0·30	2·00	2·01
Laccadive, Minicoy and Amindivi Islands	19·74	..	1·48	..	..	2·64	1·80	0·41	5·05	0·50	1·16	..
Pondicherry ..	299·28	..	11·09	4·48	17·35	23·61	41·12†	..	1·82	1·99	3·86	87·69

[1] Irrigation, Navigation, Embankment and Drainage [2] Community Projects and Local Development Works. † Medical & Public Health. *a.* Agriculture & Fisheries.

SECOND FIVE YEAR PLAN

New Allocations

WHEN the Second Plan was launched in April 1956 it was fully realised that the success of the Plan would depend on the fulfilment of certain essential conditions. These conditions will be mentioned in detail below. The point is that the conditions were not fulfilled to the extent necessary for the Plan allocations to remain as they were originally determined.

During 1957–58 the problem of foreign exchange specially became so pressing that adjustments in the original plan became necessary.

The outlay on the Plan during the first two years (1956–1958) was Rs. 1,496 crores. For 1958–59 the outlay was estimated at Rs. 960 crores, leaving a balance of Rs. 2,344 crores over the last two years of the Plan, which is a little less than one-half of the five year total.

The resources available for the last two years were placed at Rs. 1,804 crores, thus bringing the five year total to Rs. 4,260 crores.

In the circumstances it became necessary not only to distinguish certain projects which called for substantial amounts of foreign exchange as the 'core' but also the possibility of adjusting allocations for different sectors and to examine afresh the size of the Plan.

The Panel of Economists of the Planning Commission had a general discussion in January 1957 on the problems relating to adjustments in the Plan.

On the whole the Panel was of the view that a Plan of Rs. 4,800 crores should be feasible on the basis of an external assistance of Rs. 700 crores. There is nothing basically over-ambitious in the initial targets. If the Plan has run into difficulties it is because of the inadequacy of effort, mainly organizational that has gone into its implementation. The call on domestic resources cannot be considered out of proportion to the capacity of the economy. In regard to foreign exchange expenditure it is arguable that further commitments can be accepted if deferred payment terms are available and no payments fall due in the four or five years following 1957.

It is necessary however in view of the shortage of resources to secure the maximum economy in the outlay. All postponable expenditure should be abandoned and strictly utilitarian approach adopted. It is vital to ensure the fulfilment of the core of the plan.

In the view of the Planning Commission a pruning of the Plan to the level of the available resources, that is, Rs. 4,260 crores, is not only undesirable, but it also presents very great practical difficulties. The decision to adhere to the financial ceiling of Rs. 4,800 crores in spite of the increased cost of the various projects in the Plan would necessitate some readjustment of allocations in favour of industries and minerals.

If, in view of the resources position, the Plan outlay cannot be raised above Rs. 4,260 crores, the cut on Social Services will be larger. This would be undesirable from the point of view of maintaining a reasonable balance in the structure of Plan allocations.

The Planning Commission is, therefore, of the view that, at a minimum, the level of outlay to be actually incurred must not be allowed to fall below Rs. 4,500 crores.

The National Development Council, while deciding to maintain the Second Plan outlay at Rs. 4,800 crores, suggested that projects and programmes to be undertaken within this ceiling should be divided into two parts.

Part (A) of the Plan involving a total outlay of Rs. 4,500 crores should include, besides projects and programmes directly related to increase in agricultural production, "Core Projects" and projects which have reached an advanced stage and other inescapable schemes.

The remaining schemes should be included in Part (B) of the Plan with a total outlay of Rs. 300 crores.

The broad changes proposed may be summarised as follows: (Rs. crores)

	Original Allocations	Per cent of total	Revised allocations to accommodate the higher cost	Per cent of total	Outlays now proposed	Per cent of total
Agriculture & Community Development	568	11.8	568	11.8	510	11.3
Irrigation & Power ..	913	19.0	860	17.9	820	18.2
Village and Small Industries	200	4.2	200	4.2	160	3.6
Industries & Minerals ..	690	14.4	880	18.4	790	17.5
Transport and Communications	1,385	28.9	1,345	28.0	1,340	29.8
Social Services	945	19.7	863	18.0	810	18.0
Miscellaneous	99	2.0	84	1.7	70	1.6
Total	4,800	100.0	4,800	100.0	4,500	100.0

More detailed tables are given below.

The following table sums up the position about outlays for States (including Union Territory). Outlays by State where available are given on page 1277.

(Rs. crores)

	Original allocation	Per cent	Revised allocations	Per cent	Outlays now proposed	Per cent
Agriculture and Community Development	503	22.4	503	22.8	456	22.3
Irrigation & Power ..	808	36.1	788	35.7	757	37.0
Village and small industries	120	5.4	140	6.3	105	5.1
Industries and Minerals	23	1.0	23	1.0	15	0.7
Transport and Communications ..	182	8.1	164	7.4	163	8.0
Social Services	549	24.5	542	24.6	512	25.0
Miscellaneous	56	2.5	47	2.1	40	1.9
Total	2,241	100.0	2,207	100.0	2,048	100.0

CORE PROJECTS

As mentioned before it became necessary early in 1957 to define strict priorities among projects requiring foreign exchange so as to ensure the implementation of certain essential projects which could be regarded as constituting the 'core' of the Plan.

The projects included in the 'core' are the steel plants and the coal and lignite programmes both in the public and private sectors, the programmes of the railways and major ports, and certain selected power projects over and above those already covered by foreign aid.

'Core' projects in the public sector entail a total expenditure during the Plan period of about Rs. 1,900 crores, of which it is expected that about Rs. 1,130 crores will have been incurred during the first three years.

The total foreign exchange cost of all the 'core' projects in both the public and the private sectors is about Rs. 962 crores.

The details of this amount, the foreign exchange expenditure already incurred or committed and the further commitments still required to be made are shown in the following table :—

(Rs. crores)

Projects	Total foreign exchange cost in the second plan	Expenditure incurred or committed as on 31-3-1958	Fresh commitments necessary for completion
Steel			
(a) *Public Sector*			
(i) Bhilai Steel Plant	85·67	80·68	4·99
(ii) Rourkela Steel Plant	120·00	107·35	12·65
(iii) Durgapur Steel Plant	95·90	90·90	5·00
(iv) Ferrosilicon plant under the Mysore Iron & Steel expansion programme	0·65	0·65	..
(b) *Private Sector*	86·35	74·43	11·92
Coal			
(a) *Public Sector*			
(i) N. C. D. C.	15·0	5·83	9·17
(ii) Singareni collieries	3·25	1·85	1·40
(b) *Private Sector*	10·00	3·30	6·70
Washeries	7·50	2·50	5·00
Neyveli Lignite Project	10·50	6·70	3·80
(Mining part only)			
Railways			
(Schemes requiring foreign exchange)	431·68*	258·00*	173·68*
Ports			
(Bombay, Calcutta, Madras and Vishakhapatnam and the Dredger Pool)	35·00	8·89	26·11
Power Projects	60·40	24·40	36·00
	961·35	665·48	295·87

* This is inclusive of Rs. 6·68 crores of P & T requirements in connection with Railway electrification.

It will be seen that of the further commitments still to be made the requirements of the Railways form by far the largest single item.

The figures in respect of Railways and the ports relate to the entire programmes as included in the Plan. These were originally treated as part of the 'core' without any curtailment, as it was believed that assistance would be forthcoming from the World Bank. But this will not be sufficient to meet in full the outstanding foreign exchange requirements.

As a result of a review it is considered that a saving of about Rs. 30–40 crores of foreign exchange might be possible by postponing some of the less essential projects. Similarly, in the case of the ports, it is hoped that the programmes already undertaken and those which are likely to be taken up with World Bank assistance will enable the tonnage capacity of 33 million tons envisaged in the plan to be achieved.

The foreign exchange requirements of other 'core' projects, amounting in all to Rs. 80·0 crores, will not admit of any reduction without serious repercussions on the projects themselves.

Projects

PUBLIC SECTOR

1. *Steel:* Rourkela Steel Plant; Bhilai Steel Plant; Durgapur Steel Plant; and Mysore Iron & Steel Works (Ferro-silicon Expansion).
2. *Coal and Lignite:*

(a) National Coal Development Corporation Scheme. Kathara. Korba (Open cast). Korba (inclines). Gidi. Saunda. Korea. Existing State Collieries.
(b) Singareni Collieries.
(c) Coal Washeries.
(d) Neyveli Lignite Project (mining part).

3. Railway Development Programme (including the requirements of the Posts and Telegraphs Department in connection with the railway electrification programme):
4. *Ports Development Programme:* Bombay-Calcutta. Madras. Vishakhapatnam-Dredger Pool.
5. *Power Projects:*
Korba Thermal Station (Madhya Pradesh).
Khaper-Kheda Akola Thermal Station Extensions (Bombay).
Hirakud Project (II stage) (Orissa).
Lakkavalli (Bhadra) Project (Mysore).
Bhakra-Nangal H.E. Project (Punjab and Rajasthan).
Chambal Project (first stage) (M.P. State/Rajasthan).
Rihand Project (Uttar Pradesh).
Tungabhadra H.E. Scheme (Mysore).
Nariamangalam H.E. Scheme (Kerala).
Thermal Stations in Saurashtra region (Bombay).
Ganderbal & Mohra Power Stations (Jammu & Kashmir).
Power Transmission, distribution and extension schemes (sub-stations equipment, conductors, switchgears, underground cables, steel for supports, ground water meters, etc.).

PRIVATE SECTOR

1. *Steel:* Tata Iron & Steel Works. Indian Iron & Steel Works.
2. *Coal.*

REVISED PLAN ALLOCATIONS AND ANTICIPATED OUTLAYS

Details are as follows:

(Rs. crores)

Head of Development	Five-Year Plan Allocations (Revised)			Anticipated outlays for 1956–59			Anticipated outlays for 1956–61		
	Total	Centre	States	Total	Centre	States	Total	Centre	States
1. Agricultural Production	94	10	84	40	4	36	90	9	81
2. Minor Irrigation	96	3	93	44	2	42	92	3	89
3. Land Development	22	5	17	11	3	8	19	4	15
Agriculture	212	18	194	95	9	86	201	16	185
4. Animal husbandry, dairying and milk supply	36	6	30	17	2	15	33	4	29
5. Forests & soil conservation	36	6	30	16	2	14	32	4	28
6. Fisheries	10	3	7	3	..	3	9	3	6
7. Warehousing, marketing and co-operation	40	4	36	18	2	16	32	4	28
8. Miscellaneous	7	1	6	3	..	3	6	1	5
Agricultural Programmes	341	38	303	152	15	137	313	32	281
9. N.E.S. & C.D. Programmes	200	12	188	87	2	85	170	7	163
10. Village panchayats	12	..	12	8	..	8	12	..	12
11. Local development works	15	15	..	14	14	..	15	15	..
I. *Agriculture & Community Development*	568	65	503	261	31	230	510	54	456
12. Multipurpose Projects*	..	..	..	146	7	139	248	..	248
13. Irrigation	376	..	376	111	..	111	188	..	188
14. Power	400	..	400	193	..	193	321	..	321
15. Flood Control & Border Projects	65	65	..	27	27	..	47	47	..
16. Investigation & Research	6	6	..	2	2	..	4	4	..
17. Public Co-operation in Irrigation Schemes	1	1	..	..	..	..	0·2	0·2	..
18. Centres Share in D.V.C.†	12	..	12	..	..	..	12	12	..
II. *Irrigation and Power*	860	72	788	479	36	443	820	63	757
III. *Village and Small Industries*	200	60	140	91	48	43	160	55	105
20. Large & Medium Industries	790	769	21	395	387	8	705	692	13
21. Mineral Development	90	88	2	25	25	..	85	83	2
IV. *Industries and Minerals*	880	857	23	420	412	8	790	775	15
22. Railways	896·5	896·5	..	539	539	..	896·5	896·5	..
23. Roads	221	70	151	127	40	87	219	69	150
24. Road Transport	11	2	9	8	1	7	10·5	1·5	9
25. Ports and Harbours	48·5	47	1·5	29	27·5	1·5	48·5	47	1·5
26. Shipping	56	54·5	1·5	29	28·5	0·5	56	54·5	1·5
27. Inland Water Transport	1	1	..	..	..	..	0·5	0·5	..
28. Civil Air Transport	43	43	..	28	28	..	43	43	..
29. Other Transport	5	4	1	3	2	1	5	4	1
30. Posts & Telegraphs	53	53	..	31	31	..	51	51	..
31. Other Communications	3·5	3·5	..	2	2	..	3·5	3·5	..
32. Broadcasting	6·5	6·5	..	4	4	..	6·5	6·5	..
V. *Transport and Communications*	1,345	1,181	164	800	703	97	1,340	1,177	163
33. Education	285	75	210	109	27	82	275	68	207
34. Health	255	75	180	107·5	39·5	68	245	75	170
35. Housing	100	27	73	40·5	5·5	35	84	20	64
36. Welfare of Backward Classes	83	24	59	35	12	23	72	19	53
37. Rehabilitation	90	90	..	53	53	..	90	90	..
38. Social Welfare, Labour & Labour Welfare and Educated Unemployment Schemes	50	30	20	15	9	6	44	26	18
VI. *Social Services*	863	321	542	360	146	214	810	298	512
VII. *Miscellaneous*	84	37	47	45	18	27	70	30	40
GRAND TOTAL	4,800	2,593	2,207	2,456	1,394	1,062	4,500	2,452	2,048

* Allocation for multipurpose projects has been distributed between Irrigation and Power.
† Expenditure on Centre's Share in D.V.C. is included under multipurpose projects.

NOTE 1.—Figures for States include Union Territories. Separate figures for the latter are as follows: Five Year Plan Allocations, Rs. 70 crores; Anticipated outlays for 1956–59, Rs. 30 crores and Anticipated outlays for 1956–61, Rs. 60 crores.

NOTE 2.—For the revised allocations and anticipated outlays the figures for "Village Industries" are shown under the States; for 1956–59, however, the outlay under this head is shown at the Centre.

PLAN OUTLAY AND ITS FINANCING IN 1956-57 AND 1957-58

(Actuals) (Rs. crores)

	1956-57			1957-58		
	Centre	States	Total	Centre	States	Total
I.—*Plan Outlay*	342	293	635	500	361	861
II.—*Domestic Resources*						
(*a*) Balance from current revenues	140	—1	139	95	55	150
(*b*) Railways' contribution	34	..	34	45	..	45
(*c*) Loans from the public	78	63	141	68	4	72
(*d*) Small Savings	40	19	59	15	40	55
(*e*) Unfunded debt and miscellaneous capital receipts	—11	—3	—14	—72	47	—25
TOTAL (*a* + ..*e*)	281	78	359	151	146	297
III.—*External Assistance*	38	..	38	100	..	100
IV.—*Total resources including external assistance*	319	78	397	251	146	397
V.—*Central assistance*	—159	159	..	—210	210	..
VI.—*Resources after allowing for Central assistance*	160	237	397	41	356	397
VII.—*Budgetary deficit*	182	56	238	459	5	464

Figures of Plan outlay at the Centre shown above are inclusive of outlay in Union Territories. Actual outlay in respect of Union Territories is estimated at about Rs. 8 crores.

TARGETS

The principal targets of production and development in the Second Plan period as originally laid down both in the public and private sectors are set forth below :—

	1950-51	1955-56	1960-61	Percentage increase over 1955-56
I. AGRICULTURE				
Food grains (million tons)	54·0*	65·0	75·0	15
Cotton (,, bales)	2·9	4·2	5·5	31
Sugarcane, raw gur (million tons)	5·6	5·8	7·1	22
Oilseeds (,, ,,)	5·1	5·5	7·0	27
Jute (,, bales)	3·3	4·0	5·0	25
Tea (,, pounds)	613	644	700	9
National Extension Blocks (Nos.)	Nil	500	3,800	660
Community Development Blocks (Nos.)	Nil	622	1,120	80
Population served by National Extension & Community Development Programmes (million persons)	Nil	80	325	306
Village Panchayats (Thousand Nos.)	83	118	200	70
II. IRRIGATION & POWER				
Area irrigated (million acres)	51	67	88	31
Electricity (Installed capacity, million kW)	2·3	3·4	6·9	103
III. MINERALS				
Iron Ore (million tons)	3·0	4·3**	12·5	191
Coal (,, ,,)	32·3†	38·0†	60·0†	58
IV. LARGE-SCALE INDUSTRIES				
Finished steel (million tons)	1·1	1·3	4·3	231
Pig Iron (for sale to foundries) (million tons)	—	0·38	0·75	97
Aluminium (000 tons)	3·7	7·5	25 0	233
Heavy steel forgings for sale (000 tons)	Nil	Nil	12	—
Heavy steel castings for sale (000 tons)	Nil	Nil	15	—
Steel structural fabrications (000 tons)	N.A.	180	500	178
Machine Tools (graded) (value in Rs. lakhs)	31·6	75	300	300
Cement Machinery (,,)	N.A.	56**	200	257
Sugar Machinery (,,)	N.A.	28**	250	779
Textile Machinery : Cotton & Jute (value in Rs. lakhs)	N.A.	412	1,950	373
Paper Machinery (value in Rs. lakhs)	Neg.	Neg.	400	—
Power Driven Pumps Centrifugal (000 Nos.)	34	40	86	115
Diesel Engines (000 H.P.)	N.A.	100	205	105
Automobiles (Nos.)	16,500	25,000	57,000	128
Railway Locomotives (Nos.)	3	175	400	129
Tractors (20–30–78 H.P.) (Nos.)	—	—	300	—
Cement (Million tons)	2·7	4·3	13	202
Fertilisers :				
(*a*) Nitrogenous (in terms of Amm. Sulphate) (000 tons)	46	380	1,450	282
(*b*) Phosphatic (in terms of Superphosphate) (000 tons)	55	120	720	500
Sulphuric Acid (000 tons)	99	170	470	176
Soda Ash (,,)	45	80	230	188
Caustic Soda (,,)	11	36	150	317
Petroleum Refinery (crude processed) (million tons)	—	3·6	4·3	19
Electric Transformers 33 K.V. and below (000 KVA)	179	540	1,360	151
Electric Cables AC8R conductors (tons)	1,420	9,000	19,000	100
Electric Motors (000 H.P.)	99	240	600	150
Cotton Textiles (million yards)	4,618	6,850	8,500	24
Sugar (million tons)	1·1	1·7	2·3	35
Paper & Paper Board (000 tons)	114	200	350	75
Bicycles (Organised sector only) (000 Nos.)	101	550	1,000	82
Sewing Machines (Organised sector only) (000 Nos.)	33	110	220	100
Electric Fans (000 Nos.)	194	275	600	118

* Relates to the year 1949-50. ** Relates to the calendar year 1964. † Figures relate to calendar years.

TARGETS—*Contd.*

	1950-51	1955-56	1960-61	Percentage increase over 1955-56
V. TRANSPORT AND COMMUNICATIONS				
(a) *Railways*				
1) Passenger train miles (millions)	95	108	124	15
2) Freight carried (million tons)	91	120	162	35
(b) *Roads :*				
1) National Highways (000 miles)	12·3	12 9	13 8	7
2) Surfaced Roads (000 miles)	97·0	107·0	125·0	17
(c) *Shipping :*				
1) Coastal & Adjacent* (Lakh GRT)	2·2	3·2	4·3	34
2) Overseas** (Lakh GRT)	1·7	2·8	4·7	687
(d) *Ports :*				
Handling capacity (million tons)	20	25	32·5	30
(e) *Posts & Telegraphs :*				
1) Post Offices (000 Nos.)	36	55	75	36
2) Telegraph Offices (000 Nos.)	3·6	4·9	6·3	28
3) Number of telephones (000 Nos.)	168	270	450	67
VI. EDUCATION				
School-going children to per cent of children in the respective age group :				
(a) Primary Stage (6-11 age group)	42·0	51·0	63 0	—
(b) Middle Stage (11-13 age group)	14·0	19·0	22·5	—
(c) Higher Secondary stage (14-17 age group)	6·4	9·4	12·0	—
Elementary/Basic schools (lakhs)	2·23	2·93	3·50	19
Teachers in Primary/Middle Secondary Schools (lakhs)	7·4	10·3	13·4	30
Teachers Training Institutions (Nos.)	835	1,136	1,412	24
Enrolment in Teachers Training Institutions (000 Nos.)	75·6	103·5	134 2	30
VII. HEALTH				
Medical Institutions (000 Nos.)	8 6	10 0	12·6	26
Hospital beds (000 Nos.)	113	125	155	24
Doctors („)	59	70	85	18
Nurses („)	17	22	31	41
Midwives („)	18	26	32	23
Nurse-Dais & Dais (000 Nos.)	4	6	41	583
Health Assistant and Sanitary Inspectors (000 Nos.)	3·5	4	7	75

* Inclusive of tankers.

** Inclusive of tramp tonnage.

APPRAISAL AND PROSPECTS OF SECOND PLAN

The Planning Commission made a re-appraisal of the Second Plan and its prospects in a memorandum which it submitted to the National Development Council before the latter met in May 1958.

The following is a summary of the Memorandum.

When the Second Plan was launched in 1956 April it was fully realized that the success of the Plan would depend on the fulfilment of certain essential conditions. These were :

(1) a substantial increase in agricultural production ;

(2) a steady increase in domestic savings ;

(3) external assistance for meeting the foreign exchange gap on account of the Plan ;

(4) maintenance of a stable price level, fair both to producers and consumers ; and

(5) efficiency of administration and, in particular, the efficient utilisation of assets and resources created under the First and the Second Plans.

These conditions are closely inter-connected and are even more important today than they were when the Plan was drawn up.

BACK-GROUND

The strain on resources, both internal and external, has been felt continuously since the commencement of the Second Five Year Plan. Wholesale prices rose 14 per cent between April 1956 and August 1957. Since then they have come down a little. But the present level, i.e., 108-107 is still high.

The balance of payments deficit over the two years April 1956 to March 1958 was Rs. 821 crores.

These stresses and strains in the system are basically related to the development effort and are expected to continue throughout the plan period.

Outlay on the plan in the first two years was Rs. 1,496 crores ; for 1958-59 it may come to Rs. 960 crores. Thus, over the three years it aggregates to about Rs. 2,456 crores. A little under fifty per cent of the plan outlay will thus remain to be incurred in the two years 1959-61.

The plan outlay of Rs. 2,456 crores for the first three years will, on present expectations, have been financed as follows :—

	(Rs. crores)
Balance from revenues	439
Railways contribution	129
Loans from the public, small savings and other capital receipts	* 533
External assistance	438
Deficit financing	917
Total	2,456

The resources available for the plan have so far been below expectations. In 1957-58 the budgetary deficit was as high as Rs. 464 crores.

For 1958-59 the budget estimates postulate a considerable improvement in loans and small savings.

Deficit financing is to be reduced by Rs. 250 crores as compared to 1957-58. But this assumes a step-up in external assistance from about Rs. 100 crores in 1957-58 to Rs. 300 crores for 1958-59.

Taxation has been raised substantially since the Plan began.

The five-year yield on the tax measures so far adopted by the Centre will be about Rs. 725 crores. The probable five-year yield of the measures of taxation adopted so far in the States is about Rs. 173 crores. Altogether, additional taxation already adopted should thus bring in approximately Rs. 900 crores over the plan period.

A large part of the tax effort has, however, been absorbed by other demands : defence, non-development expenditure and development expenditure outside the plan. Despite the large tax effort at the Centre the revenue resources available for financing the Centre's plan outlays are expected to show an improvement of only Rs. 45 crores as compared to the plan estimates. In other words, only a negligible contribution has been made towards covering the original gap of Rs. 400 crores in resources.

The States have raised additional taxation which will bring in Rs. 173 crores over the plan period. They will have gained Rs. 160 crores as a result of the Finance Commission's Award plus certain amounts by way of a large share of Central taxation. In spite of this, the balance they are able to find from their revenues for financing the Plan is below the original expectations. Assuming that the States are able to reach their original tax target of Rs. 225 crores, their revenue contribution to the plan will amount probably to Rs. 350 crores as compared to the original expectation of Rs. 370 crores.

Altogether, over the first three years, the budgetary resources of the Centre and of the States will add up to Rs. 1 100 crores as compared to the five-year estimate of Rs. 2,400 crores, which, still leaves a gap of Rs. 400 crores.

DEFICIT FINANCING

The lag in resources has necessitated resort to heavy deficit financing at an early stage in the Plan. At one time the intention was to limit the total to Rs. 900 crores over the five-year period. Now it seems fairly certain that the original figure of Rs. 1,200 crores of deficit financing will have to be restored. In fact, it will be difficult to adhere even to this figure unless measures are taken (a) to raise further resources and (b) to limit plan outlays along the lines suggested below.

A certain amount of latitude in the matter of programme formulation is permissible while the country has large foreign exchange reserves. But this is no longer so.

Between April 1956 and March 1958 the foreign exchange assets of the Reserve Bank came down by Rs. 479 crores.

In addition, the I.M.F. credit of Rs. 95 crores has been used up.

External assistance authorised since the Second Plan began amounts to Rs. 679 crores. Further external assistance of the order of Rs. 500 crores is still necessary for covering the foreign exchange requirements for the rest of the plan period. Even for the core projects in the public sector further commitments of the order of Rs. 296 crores have still to be made.

The present import policy is very tight. This tightness will have to be maintained. But, beyond a point it would be unwise to invest in new construction and installations while failing to make sufficient provision for utilising fully the capacity already built up.

The cost of the Plan has gone up considerably. Nevertheless, the financial ceiling remains at Rs. 4,800 crores.

The Planning Commission has worked out revised allocations corresponding to this financial ceiling.

The acceptance of this ceiling (Rs. 4,800 crores) means a lowering of the physical targets. The problem at this stage, however, is whether the balance of resources required to complete this financial outlay of Rs. 4,800 crores can be found.

The requirements of the last two years of the Plan amount to Rs. 2,344 crores—in fact they may amount to a little more if the shortfalls in plan outlays in 1957–58 and 1958–59 turn out to be somewhat larger than have been allowed for in the estimates presented.

As against these requirements, the present estimates show an availability of not more than Rs. 4,260 crores as the table below will show. This already postulates external assistance at a level of Rs. 300 crores a year as also a better response to public loans and the small savings effort.

RESOURCES

(Rs. crores)

	Likely actuals for the first 3 years of the Plan				Estimates for 1959–60 and 1960–61	Total 1956–61
	1956–57	1957–58	1958–59	Total		
I. *Domestic Budgetary Resources*						
Balance from current revenues	139	150	150	439	320	759
Railways' contribution ..	34	45	50	129	121	250
Loans and small savings ..	200	127	217	544	440	984
Unfunded debt & Miscellaneous Capital receipts ..	(—) 14	(—) 25	28	(—) 11	40	29
Total	359	297	445	1,101	921	2,022
II. *External Assistance*	38	100	300	438	600	1,038
III. Deficit Financing ..	238	464	215	917	283	1,200
IV. *Total : Resources Outlay* ..	635	861	960	2,456	1,804	4,260

It would be desirable to ensure that Plan outlay turns out to be somewhat nearer the target of Rs. 4,800 crores. This can be done only to the extent that further resources are raised.

The Planning Commission has suggested that an effort be made along the following lines :—

	(Rs. crores)
Additional taxation	100
Loans and small savings	60
Economies in expenditure and collection of arrears of taxes and loans	80
Total ..	240

The scope for additional taxation at the Centre is very limited. Nevertheless, the Centre should accept a target of Rs. 40 crores of further taxation in the next two years.

The original taxation target for the States was Rs. 225 crores. The measures they have adopted so far add up to Rs. 173 crores. They are thus Rs. 52 crores short of the original target.

It has been suggested to the States to agree to raise Rs. 60 crores by way of additional taxation in the next two years.

As regards public borrowings, very much depends upon the state of the market. The bulk of the additional Rs. 60 crores shown under loans and small savings has to be found by intensifying the small savings drive.

Another Rs. 80 crores will have to be raised through economies in non-Plan expenditure and through speedier collection of over-dues of taxation and loans.

The point to stress is that only if effort along these lines is possible can the Plan outlay be raised to Rs. 4,500 crores (as compared to the estimated resources of Rs. 4,260 crores).

At the same time, no commitments beyond this level of outlay can now be undertaken without resources being in sight.

Economic stability internally and viability on external account—allowing for whatever resources from abroad are forthcoming—are of vital importance at this stage. The fact that foreign exchange reserves have fallen to a low level makes it particularly necessary to limit deficit financing and therefore the total level of plan outlays in consonance with the resources position.

The Planning Commission has worked out a pattern of allocations by major heads of development on the basis that the necessary effort will be made to bring the resources at least up to Rs. 4,500 crores.

If the commitments of the Plan have to be limited as they have to be on the basis of the estimates of resources given above—to Rs. 4,500 crores, there will be a sizeable cut in State Plans, especially in respect of social services. It is only if ways could be found to raise domestic resources beyond the levels postulated that these cuts could be reduced.

Behind the inadequacy of financial resources is the insufficiency of total production and savings. It is most important in this connection to utilise fully the facilities that have already been built up for increasing food production. Success in the physical targets of the Plan is not a question merely of increased allocations; it depends to a great extent on the steps taken at each stage to utilise the new facilities immediately and fully.

EMPLOYMENT, OUTPUT

Employment opportunities do not appear to be expanding sufficiently to absorb the increases in the labour force. This is because the investment effort in the economy is still low relatively to needs.

Steps are being taken to strengthen the employment potential of the Plan at particular points *e.g.*, the scheme recently approved for appointment of 60,000 teachers. But, total investment and employment can be increased only to the extent that more savings are forthcoming.

Referring to output and employment, the Memorandum says it is difficult at this stage to estimate the difference in output and employment that the adjustments mentioned in plan outlays will make to the initial targets, for this depends upon a variety of factors including the success of the food production drive, the levels of investment activity in the private sector, the availability of imports sufficient to sustain a rising level of production, etc.

Broadly speaking, it would appear that the industrial component of the plan—and especially the 'core'—will, it is hoped, come through fairly well. So also the programmes in the field of transport and communications.

In some respects, the development of social services will fall short of the initial expectations and there will be some slowing down on the new irrigation projects.

The development of power will be inadequate relatively to the rapidly growing needs of the economy.

As regards employment, the data available for judging past trends as well as estimating the likely trends hereafter are still far from adequate. On certain calculations made in the Planning Commission, it appears that the implementation of the plan has resulted in the creation of about two million job opportunities outside agriculture in the first two years, and about one million of the labour force should find employment, opportunities in the course of the third year.

It will be recalled that the Plan envisaged additional employment for about 7·9 million outside agriculture and about 1·6 million in agriculture itself.

With the increase in the costs of various projects it was estimated that the employment potential of an outlay of Rs. 4,800 crores in the public sector with private sector outlays more or less according to the plan would come down to about 7 million jobs outside agriculture.

The estimate of such employment opportunities corresponding to an outlay of Rs. 4,500 crores in the public sector is 6·5 million. These estimates are very rough, but they indicate that the investment effort in the economy is still not upto the mark for ensuring employment sufficient to absorb the annual additions to the labour force.

FOOD

As regards the role of food production, the memorandum refers to the various factors that lie behind the inadequacy of resources relatively to the needs of the plan.

The financing scheme accepted at the time the plan was made had a gap of Rs. 400 crores and there have been other demands on the resources both of the Centre and of the States which have added to the strain that was, in any case, expected. The level of investment in the private sector was also high in the early phase of the plan, and the acute stringency that developed in the money market reacted unfavourably on the loan operations of Government.

But, behind the inadequacy of financial resources lies the major limiting factor to developmental effort, *viz.*, the food production. High domestic prices as well as the large import requirements are related in part to the insufficient response of food production to the pressure of demand. It is to the extent that success in this regard can be secured that the rate of investment in the economy—and hence the expansion of employment opportunities—can be stepped up.

Considerable irrigation potential has been built up in the last few years, but the utilisation of this potential has lagged behind. Considerable resources devoted to the plan are not yet bearing fruit. This cannot but limit further effort. The Planning Commission wishes to stress in this context the need for the fullest utilisation of the irrigation facilities that are already available.

ACHIEVEMENT

Over the period 1949-50 to 1956-57 the annual increase in agricultural production came to 2 to 2·5 per cent. This rate of increase was not sufficient to support a large plan of economic development. The results were varied and uneven and, in several cases, they did not reflect adequately the large outlays which had been incurred.

There was not enough concentration of effort on increasing yields per acre in irrigated areas and in areas with assured rainfall. Progress in the utilisation of the irrigation potential created in major and medium irrigation schemes was not satisfactory. Minor irrigation programmes tended to develop into departmental programmes with insufficient public participation. Even in N.E.S. and community project areas, the provisions for minor irrigation was not adequately utilised and programmes were not fully co-ordinated with the Agriculture Departments. It was also pointed out that the crux of the problem of reaching every village and every family through the community development programme lay in the building up of village institutions—the panchayat and the co-operative—for undertaking village planning.

Following the directives of the Standing Committee of the National Development Council, Programme Administration Advisers of the Planning Commission with officers from the Ministries of Food and Agriculture and Community Development visited nine States and made recommendations relating, in particular, to the question of utilising irrigation facilities. These recommendations stress the following aspects:

- Construction of field channels and other ancillary works needed for irrigation;
- Speeding up localisation of areas to be irrigated from certain projects;
- Organisation of demonstration plots, introduction of appropriate crop patterns and guidance in irrigated cultivation;
- Introduction of legislation for making a compulsory charge on all persons whose lands are eligible for irrigation supplies;
- Arrangements for seed multiplication at the village level;
- Intensification of the campaign for green manuring; and
- Expediting the production of improved seed on farms for which land has already been obtained and speeding up the entire programme for the setting up of seed farms.

Results achieved over the first two years of the Plan fall seriously short of the targets fixed for the plan period in 1956-57 after detailed consultation with the States. Estimates of additional production potential under different categories of agricultural programmes for these two years along with the Plan targets are given in the Statement below:—

(Lakhs tons)

Programme	Plan target	Achievement 1956-57	Anticipated achievement 1957-58
Major irrigation	30·2	1·7	2·7
Minor irrigation	18·9	3·0	4·0
Fertilisers and manures	37·7	3·6	7·7
Improved seeds	34·0	1·7	2·0
Land development	9·4	0·9	1·7
Improved agricultural practices	24·7	2·2	5·0
	154·9	13·1	23·1

For 1958-59 it would appear that the increase in production potential may be of the order of 8 million tons.

It has been suggested to the States that they should devise means of improving upon the present estimates for 1958-59 through greater concentration of resources in areas of irrigation facilities and assured rainfall where large increases are possible. This is specially important because for 1957-58, on information at present available, there will be a reduction of over 2 million tons in the output of foodgrains compared with 1956-57.

In regard to seed farms, it is pointed out that against a Plan target of 4,185,343 were established in 1956-57 and 1,094 in 1957-58. In 1957-58 1,416 seed farms were expected to be set up but the number actually established was understood to be 1,094. Completion of the various operations on the seed farms for which land has been obtained is of the utmost importance so that they begin to provide stocks of nuclear seed with the least delay. To expedite the programme, it has been decided that the maximum amount of assistance for purchase of land may be raised from Rs. 500 per acre to Rs. 1,500 per acre.

As between different sectors in the agricultural programmes, it is proposed to allocate larger resources in favour of agricultural production and to reduce somewhat the allocations proposed in the Plan for animal husbandry, forests and soil conservation and other heads.

The increases contemplated are for completion of distributaries where storage has been established (Rs. 30 crores) and for minor irrigation where it is a genuine people's programme and results are assured, and for agricultural production programmes (Rs. 12 crores).

In 1956-57 the outlay on agricultural production was Rs. 6·4 crores, on minor irrigation Rs. 13·6 crores and on land development Rs. 3·2 crores (total: Rs. 23·2 crores). For 1957-58 the anticipated outlay was respectively Rs. 13·0 crores, Rs. 15·2 crores, Rs. 3·7 crores (total: Rs. 31·9 crores).

IRRIGATION FACILITIES

The lag in the use of irrigation facilities was greater in areas in which existing legislation does not provide for a compulsory charge in respect of lands for which irrigation is available, whether or not the supplies are utilised. It has also been very marked in the case of tube-well irrigation and in respect of certain projects in the south and in the eastern region.

In a number of projects the failure to utilise irrigation facilities has been due to the fact that sufficient attention had not been given to the construction of distributaries and field channels along with the provision of storage capacity and to such measures as the setting up of demonstration farms, introduction of new crop patterns and assistance to cultivators.

At the end of the First Plan, against a target of 8·5 million acres an irrigation potential of 6·3 million acres was created. The actual area irrigated was only a little over 4 million acres.

In the Second Plan as against a target of additional irrigation from major and medium schemes of 12 million acres, the present estimate is that if the requisite funds are available the additional irrigation achieved would be of the order of 10·4 million acres.

During 1956-57, the additional irrigation achieved was 6,80,000 acres (target: 2 millions) and during 1957-58, the additional irrigation anticipated is 1·11 million acres (target: 2 millions). The estimated irrigation for 1958-59 is 2·03 million acres (target: 2 millions).

It is proposed to expedite the construction of the canal systems and field channels wherever possible in order that the target for utilisation might be raised beyond the level of 10·4 million acres

All States should organise special investigation units to locate areas requiring irrigation, assess water resources available and the needs of each region and prepare preliminary project reports. They should also determine which areas could best be served by minor irrigation schemes and which areas are best suited for contour bunding and dry farming. So far, nine States have set up investigation units, but it is not known whether programmes on these lines have got fully under way.

POWER PROGRAMME

Under the power development programme, the target of additional capacity for the Second Plan was 3·5 million kW of which 2·9 million kW were to be achieved in the public sector, 300,000 kW in the private sector and 300,000 kW in industrial plants providing for their own generating capacity.

During 1956 and 1957, there was a steadily increasing demand for additional power generation in a number of areas.

The total installed capacity likely to be added in the first three years is 770,000 kW only of which 178,000 kW were added in 1956-57 and 310,000 kW in 1957-58.

According to the present calculations, the actual realisation of benefits within the Plan period from projects in the public sector may be about 2·5 million kW, from private electricity undertakings about 175,000 kW and from industrial establishments providing for their own power 300,000 kW.

Thus, the total installed capacity during the Second Plan is expected to be nearly 3 million kW as against the original target of 3·5 million kW.

Out of a total target of 30,000 miles of transmission and distribution lines, 10,000 miles were constructed during 1956-57 and 1957-58.

The Second Plan envisages the electrification of about 10,000 villages and provided for a total outlay of Rs. 75 crores for this purpose. During the first two years of the Plan, 4,500 villages, were electrified.

Individual Projects

Projects included in core

1. Korba Thermal station.
2. Khaperkheda - Akola extensions.
3. Hirakud Project - Stage II.
4. Lakkavalli (Bhadra) Project
5. Transmission and distribution schemes for the proper and full utilisation of the power that may become available on the completion of the projects in progress.
6. Bhakra-Nangal Project.
7. Chambal Project.
8. Rihand Project.
9. Tungabhadra (Left Bank) Power Station.
10. Narimanagalam H.E. Project.
11. Thermal stations in Saurashtra.
12. Ganderbal & Mohora Power House.

Power projects which are nearing completion and for which most of the foreign exchange required has been committed :

1. Machkund Project (Andhra).
2. Tungabhadra Power Project, Stage I (Andhra).
3. Kandla Power Station (Bombay).
4. South Gujerat grid extensions (Bombay).
5. Poringalkuthu Project (Kerala).
6. Madras Plant extensions (Madras).
7. Periyar Project (Madras).
8. Hirakud, I Stage (Orissa).
9. Projects in Mau, Sohwal, Gorakhpur, Manipuri (U.P.).
10. Development of thermal stations (Rajasthan).
11. Allahabad thermal station (Private Licensee) (U.P.).
12. Thermal station attached to the Coke-oven plant (West Bengal).

Power projects which have already been assured of external assistance :

1. Umtru Project (Assam).
2. Mayurakshi Project (Bengal).
3. Ramagundam Thermal Scheme (Andhra).
4. D.V.C. Projects (Maithon, Panchet Hill, Bokaro IV unit, Durgapur).
5. Koyna (Bombay).
6. Kundah (Madras).
7. Delhi Thermal extensions.
8. Tatas Trombay Thermal Station.
9. Neyveli Thermal Station (Madras).
10. Thermal Station of HSCO (W. Bengal).

VILLAGE AND SMALL INDUSTRIES

As compared to a total provision of Rs. 50 crores (inclusive of Rs. 20 crores financed from the proceeds of the Handloom Cess) in the First Plan, the Second Plan provided Rs. 200 crores for village and small industries programmes. This includes Rs. 36·5 crores for handloom, Rs. 46 crores for small scale industries, Rs. 15 crores for industrial estates, Rs. 9 crores for handicrafts and Rs. 65 crores for khadi and village industries. The aim of the programmes is to build up a stable and efficient decentralised sector of industry which would provide increasing opportunities of employment and at the same time ensure an increase in the production of consumer goods especially those in local demand.

According to the new textile targets which were fixed in June 1956, cloth production was to be raised from 6,700 million yards to 8,400 million yards. Of the additional quantity, 1,000 million yards were allocated to the handloom industry, including 300 million yards to be produced from Ambar yarn and 700 million yards to be produced from mill yarn, and 200 million yards were to be obtained through the installation of 35,000 powerlooms in the handloom sector during the two years 1956-58. The target for handloom production from Ambar yarn was later revised to 150 million yards, each year's programme being considered with reference to the results achieved.

During 1956-57, handloom production amounted to 1,600 million yards, i.e., 130 million yards above that in 1955-56. In 1957-58, the estimated production is about 1,650 million yards. The progress to date falls considerably short of what is required to achieve the target. Upto the end of 1957, the total quantity of cloth produced from Ambar yarn was only about 7·0 million yards and it does not appear that even the revised target of 150 million yards will be achieved. The production of traditional khadi has been increasing at the rate of about 5 million yards per annum above the base level of about 35 million yards. No specific target was fixed for khadi production The achievement in regard to the installation of powerlooms has so far been insignificant.

Out of 62 sanctioned industrial estates, 11 had been completed in the first two years and another 19 are expected to be completed in 1958-59.

For providing technical and marketing advice to small industries, 4 regional Small Industries Service Institutes, 12 major Institutes, 2 branch Institutes and 27 Extension Centres had been set up by the end of 1957-58.

One more regional Institute, two major Institutes and another 33 Extension Centres will be set up during the course of 1958-59.

The total expenditure on village and small industries during the first two years of the Plan has amounted to about Rs. 59 crores and it is expected that by the end of the third year outlay in this sector will amount to Rs. 91 crores. Khadi and village industries account for about two-fifths of the expenditure, small scale industries and industrial estates for more than a quarter and handloom and powerlooms for about a fifth.

For the handloom programme substantially larger annual outlays than were provided in the first three years would be needed if a target of 700 million yards of additional production from mill yarn is to be achieved. The Reserve Bank of India would in future meet most of the requirements of the handloom industry for working capital and to that extent the outlay from the cess fund would diminish.

The programme for the installation of powerlooms in the handloom sector has made a halting start and it does not appear that the progress in the coming years will be rapid.

The provision for small scale industries is likely to be utilised almost fully. Allocations to some of the States where the administrative and technical staffs have been strengthened for implementing the small industries schemes may have to be increased in the last two years.

Commitments in respect of the industrial estates are being rapidly made by the States within the existing ceilings but the funds required for completing all the approved estates within the Second Plan period may not be available and quite a few estates may have to be carried over to the Third Plan period.

Expenditure on handicrafts and village industries will show a fairly large shortfall.

On the other hand, expenditure on traditional khadi might well exceed the allocation and the total expenditure on Ambar Khadi may more than make up for the shortfall under village industries.

Allocations for sericulture and coir are likely to be utilised to the extent of more than 80 per cent.

LARGE-SCALE INDUSTRY

The programme of industrial development in the Second Plan envisages an investment of the order of Rs. 1,094 crores in large scale industries in the public and private sectors. This is about 3½ times the investment of Rs. 293 crores realised in the First Plan. In terms of industrial production, the increase proposed in the Second Plan is about 49 per cent as compared to 38 per cent in the First Plan.

The expansion of basic industries like iron and steel, heavy engineering and machine building and heavy chemicals including nitrogenous fertilisers has been given the highest priority in the industrial programme for the Second Plan.

Thus the development of capital and producer goods industries accounts for over 80 per cent of the total investment on industries in the Second Plan.

Next in importance to the expansion of these industries is the modernisation and re-equipment of major existing industries such as cotton and jute textiles and sugar. The Plan contemplates an outlay of Rs. 150 crores on this account.

PUBLIC SECTOR

For direct investment in industrial projects in the public sector, the Plan allocated a sum of Rs. 524 crores. In addition, an allotment of Rs. 60 to 65 crores was made in favour of the National Industrial Development Corporation, of which Rs. 35 crores were to be set apart for new basic and heavy industries to be established after investigation by the Corporation. In certain cases, the provisions made were not adequate and had subsequently to be revised upwards. Thus, for the steel plants, the Plan had provided Rs. 350 crores, but the final figures for the outlay required was Rs. 510 crores. The foreign exchange required for the steel plants, which had been initially reckoned at about Rs. 220 crores, was placed at Rs. 302 crores.

During the first three years of the Plan, the total outlay on industrial projects in the public sector (including schemes relating to scientific and industrial research) is estimated to be about Rs. 430 crores, of which schemes in the States account for about Rs. 9 crores.

During the first two years of the Plan, against budget provisions amounting to about Rs. 267 crores, the expenditure incurred was about Rs. 240 crores.

By 1957-58, a number of industrial schemes begun during the First Plan had been completed. These included the DDT plant at Alwaye, expansion of the DDT plant at Delhi, expansion of Hindustan Antibiotics, the Porcelain Insulators scheme at the Government Porcelain Factory in Mysore, Government Soap Factory, Bangalore, the spun-pipe plant of the Mysore Iron & Steel Works, the Bihar Superphosphate Factory and the provision of balancing equipment in the NEPA plant.

As a consequence of the completion of these schemes, the capacity for the manufacture of DDT rose by 2,100 tons, of penicillin by 19 2 million mega units and of superphosphate by 33,000 tons. NEPA achieved its full capacity of 30,000 tons of newsprint per annum and capacity for the manufacture of 2,500 tons of insulators was established.

The total outlay on these schemes during the Second Plan was about Rs. 3 crores.

During 1958-59, the following industrial schemes are expected to be completed :—

Project	New or additional capacity
Expansion of Sindri Fertiliser Factory ..	47,000 tons of nitrogen.
First blast furnaces at Bhilai and Rourkela ..	700,000 tons per annum of pig iron forming the first phase.
Durgapur Coke-oven project of West Bengal ..	285,000 tons of hard coke.
Hindustan Machine Tools, stepping up of production of milling machines and lathes ..	400 lathes, milling and drilling machines (ultimate capacity).
Hindustan Cables Co-axial cables project ..	530 miles of cables and 300 miles of co-axial cables.

These projects entail a total cost in the Second Plan of about Rs. 21 crores and foreign exchange expenditure of over Rs. 12 crores.

This is exclusive of the investment on the blast furnaces at Bhilai and Rourkela.

The following industrial projects are expected to be fully implemented by the end of the Second Plan :—

Project	New or additional capacity
Bhilai, Rourkela and Durgapur Steel Works*	2·2 million tons of finished steel 600,000 tons of pig iron.
Nangal Fertiliser Project	70,000 tons of fixed nitrogen.
Mining part of the lignite project	3·5 million tons of lignite.
Streptomycin Project under expansion of Hindustan Antibiotics	45,000 Kg. of Streptomycin.
Ferro-silicon expansion under Mysore Iron and Steel Works	15,000 tons of ferro-silicon.
Procelain Insulators Project of Bihar	2,000 tons of insulators.
Hindustan Shipyard	Expansion of capacity to build 8 to 12 ships per year.
U.P. Government Cement Factory—expansion	231,000 tons of cement.

* A few shops, *e.g.* wheel tyre and axle plant expected to be completed in the middle of 1961

The total cost of these projects during the Second Plan is estimated to be about Rs. 558 crores and foreign exchange expenditure at about Rs. 328 crores.

FOREIGN EXCHANGE

Projects entailing a total cost of Rs. 169 crores and foreign exchange cost of Rs. 107 crores are expected to be completed during the early years of the Third Five-Year Plan. These include the following :—

Foundry/Forge Project; Heavy Machinery Project; Mining Machinery Project; Remaining part of expansion of Mysore Iron & Steel Works steel-melting shop and finishing mill, etc.; Thermal power plant and Fertiliser Factory at Neyveli; Fertiliser Factory, Rourkela; Optical glass project; First phase of the Heavy Electrical Project; Raw film project (NIDC); Intermediates for dyestuffs and drugs (NIDC); Assam Oil Refinery; Alloy & Tool Steel Plant.

On account of the shortage of foreign exchange and larger commitments of rupee expenditure for several other projects, the following schemes are likely to be deferred or substantially slowed down :—

Carbonised briquettes under the Lignite Project; Bank Note Project; Marine Diesel Engine Project under Hindustan Shipyard; Hindustan Shipyard—Dry Dock; Newsprint from Bagasse (NIDC); Synthetic Rubber (NIDC); Structural, plate and vessel shop (NIDC); Heavy Machine Tools Project (NIDC); Tungsten Carbide (NIDC); Salem Aluminium Plant; other projects of State Governments.

Together they involve investment of about Rs. 64 crores and foreign exchange expenditure of about Rs. 40 crores.

From the foregoing review, it will be seen that the completion of a number of industrial projects in the public sector is likely to be delayed and the benefits from investments on these projects may not materialise before the early years of the Third Plan.

On account of this, there will be shortfalls in the targets for certain industries, *e.g.*, fertilizers, heavy castings and forgings.

More than any other factor, the foreign exchange difficulties have been responsible for the slowing down of some of these projects.

Negotiations for obtaining machinery and equipment on deferred payment or for securing suitable credit facilities from abroad have inevitably led to delays in embarking on projects which could otherwise have been implemented more expeditiously.

PRIVATE SECTOR

The Second Five Year Plan envisaged a total investment of Rs. 685 crores in industries in the private sector. Of this, Rs. 535 crores were to be new investment and Rs. 150 crores were to be for replacements.

The total foreign exchange expenditure was reckoned to be about Rs 320 crores, of which Rs. 250 crores were for new investment.

After the formulation of the Plan, targets in certain industries were revised upwards, notably for rayon, electrical equipment and in the textile industry.

Cost of construction and import prices of capital goods also increased

Consequently, the total investment required to fulfil programmes approved for the private sector is estimated to have increased to about Rs 840 crores in the place of Rs. 685 crores and the foreign exchange cost also went up by about Rs 120 crores.

The studies made so far indicate that in the first year of the Plan, the overall investment was between Rs 135 and Rs 140 crores and will probably be of about the same order during the second year.

There was no difficulty in finding the resources for this investment in 1956-57 as market conditions were favourable in 1955 and 1956 and a considerable increase in raisings from the market was achieved. Further, the Industrial Finance Corporation increased substantially the volume of loans disbursed (Rs. 10·4 crores in 1956-57 as against Rs. 2·2 crores in 1955-56) and substantial foreign capital loans flowed in for the steel expansion programmes and the Caltex Refinery. It is, however, open to question whether in face of the measures being taken by Government to mobilise resources for expenditure in the public sector, the private sector will be able to raise funds so readily in future.

Apart from the overall provision of funds, there is the difficulty of foreign exchange. Considerable foreign exchange commitments were made by the private sector before the first year of the Plan had expired but with the strict rationing of foreign exchange which had to be introduced since early 1957, the release of foreign exchange for new investment by the private sector has now been reduced to a mere trickle and is likely to continue at a low level.

Another factor which is likely to retard progress is the shortage of power that will probably develop in certain regions owing to the slowing down of power projects on account of foreign exchange difficulties.

In all these circumstances, the industrial programmes of the private sector may not be carried out in full.

Here and there, private enterprise may be able to cover its foreign exchange needs by securing direct inflow of foreign capital.

Further in the case of certain industries in the private sector, *e.g.*, the automobile, heavy structural, machine tools, cement, chemical and cotton and jute textile industries, some assistance will be available from the loans recently negotiated in the U.S.A.

INDIVIDUAL INDUSTRIES

In the following paragraphs the levels of capacity which seem likely to be achieved in different groups of industries are briefly set out. The bulk of the foreign exchange required for achieving these levels has already been arranged and only some relatively small additional amounts would be required most of which in one way or another seems likely to be forthcoming.

Metallurgical Industries.— The position in regard to iron and steel, aluminium and ferro-manganese is set out in the following table :—

Industry	Unit	Installed capacity		Capacity likely in 1960-61	Further foreign exchange needed (Rs. crores)	Further foreign exchange needed (over & above fig. in col. 6) for achieving Plan targets
		Plan target	Capacity (at end of 1957)			
1	2	3	4	5	6	7
Iron & Steel (saleable steel)	Mill tons	2·3	1·3	2·3	Nil	Nil
Aluminium	Tons.	30,000	7,500	20,000	1·50**	6·5
Ferro-Manganese	Tons.	1,70,000	12,000	1,14,000	1·25	1·25 to 1·5

** Likely to be provided by Aluminium Ltd., Canada.

The anticipated shortfall of 10,000 tons in aluminium can be made up only if the NIDC scheme or some other similar scheme is proceeded with for which no plans have yet been finalised.

As regards ferro-manganese, the domestic requirements are estimated to be 60,000 tons so that with a capacity of about 114,000 tons there would be approximately 54,000 tons available for export.

The question whether the short-fall in capacity as compared with the target should be made up will have to be considered in the light of possibilities of exporting more than 50,000 tons of this material.

Heavy Chemical, Fertiliser and Allied Industries.—The position relating to 11 industries falling in this group is set out in the following table :—

Industry	Unit	Installed capacity		Capacity likely in 1960–61	Further foreign exchange needed (Rs. crores)	Further foreign exchange needed (over & above fig. in col. 6) for achieving Plan targets (Rs. crores)
		Plan target	Present capacity (at end of 1957)			
1	2	3	4	5	6	7
1. Superphosphate (in terms of P_2O_5) ..	('000) tons	120·0	50	80 (plus 3,700 tons of Ammonium phosphate)	0·4	2·5 to 3·0
2. Sulphuric Acid ..	,,	500	252	420	0·3	0·5
3. Soda Ash	,,	253	108	320	1·0	Nil
4. Caustic Soda ..	,,	150	45	124	Neg	1·25
5. Industrial explosives	,,	5	Nil	5	Neg	Nil
6. Petroleum refining	Million tons crude	4·3	4 3	4·3	Neg.	Nil
7. Plastics, synthetic moulding powders ..	tons.	12,810	3,730	13,200	0·15	Nil
8. Cement @	Mill. tons.	16·0*	6·63	9·3	1·8	33·0
9. Refractories ..	'000 tons	1,000 (1,250)†	498	820	0·5	2·0
10. Rubber Manufacture (automobile tyres)	'000 Nos.	1,450	1,062	1,774	Neg.	Nil
11. Dyestuffs & Intermediates — Finished dyes	Mill. tons	27·0	11·7	12·0	Neg.	1·0

@ The figures given against this include capacities of the cement factories of the U.P. Government and of the Mysore Iron & Steel Works.

* Inclusive of the capacity under the public sector, the target approved by Cabinet is 16·0 million tons under the Second Plan. For its achievement, imports of machinery were estimated at Rs. 40 crores.

† Revised figure.

The Plan targets should be achieved in the case of industrial explosives, petroleum refining, and should be exceeded in the case of soda ash, plastics and rubber manufactures.

A target of 120,000 tons of P_2O_5 is given in the Plan for all types of phosphatic fertilisers.

The balance over and above the 83,000 tons of superphosphate was intended to be obtained in the form of alternative phosphatic fertilisers like dicalcium phosphate which provides an outlet for the surplus chlorine from caustic soda plants.

Not much progress seems likely in this field partly because there is at present no surplus chlorine available. But priority must continue to be given to the production of phosphatic fertilisers which do away with the need of imported sulphur as a raw material.

The manufacture of a single superphosphate makes heavy demands on foreign exchange for the import both of sulphur and of rock phosphate.

Among miscellaneous chemicals for which programmes of development were formulated under the Plan, the targets of capacity are expected to be achieved in the case of calcium carbide and potassium chlorate.

The facilities installed for the manufacture of sodium hydrosulphite are expected to fall below the target.

The shortfall in capacity in the case of the cement industry will be fairly large according to the data given in the table, but it is possible that with assistance from the U S Economic Development Fund a capacity of about 11 million tons could be achieved by taking up some fresh schemes.

Also, the recent increase in price, shortage of steel and slackening of constructional activity due to monetary difficulties have cumulatively had the effect of slowing down the offtake of cement, and production of the order of 10-11 million tons may be more or less sufficient for the country's immediate requirements.

In case of refractories, the capacity expected to be achieved seems likely to fall short of the revised capacity target by 430,000 tons.

Progress on some projects has been held up in this vital sector on account of delays in the acquisition of leases for raw materials and sanctions for this purpose from some State Governments.

Mechanical Engineering Industries.—The levels of development expected to be achieved under 11 industries in this group are set out in the table below :—

Industry	Unit	Installed capacity		Capacity likely in 1960-61	Further Foreign exchange needed for achieving capacity under (5) (Rs. crores)	Further foreign exchange needed (over and above fig. in Col. 6) for achieving targets (Rs. crores)
		Plan target	Capacity (at end of 1957)			
1	2	3	4	5	6	7
1. Cotton textile machinery	Rs. Crores	17·00	7·5	10·0	1·5	2·0
2. Jute textile machinery	Rs. Crores	2·5	0·4	1·0	0·10	..
3. Cement machinery	Rs. Crores	2·0	0·5	0·75	0·25	0·75
4. Automobiles	Nos.	57,000	36,000	60,000 (about 40 per cent indigenous content)	Neg.	12·00 (about 80 per cent indigenous content of vehicles
5. Sugar machinery	Rs. Crores	2·5	0·4	2·5	1·0	Neg.
6. Paper machinery	Rs. Crores	4·0	Nil	Nil	Nil	2·0
7. Locomotives	Nos.	100	67	8 per month by 1958	0·5	Nil
8. Wagons	Nos.	25,000	N.A.	25,000	0·6	4·0
9. Structural fabrication	'000 tons	500	142	280	2·2	
10. Bicycles	'000 Nos.	805	627	1,350	0·3	Neg.
11. Diesel Engines (50 HP & above)	'000 H.P.	20 to 30	Nil	36	Nil	Neg.

Most of the programmes for the manufacture of machinery are likely to fall behind schedule and, in the case of cement machinery, the plans of production formulated by A.C.C. in collaboration with certain U.K. firms have received a set-back and may not be undertaken at all during the current plan period.

The capacity for structural fabrication is also likely to fall substantially short of the target, the shortage being particularly marked in respect of medium and heavy structurals.

It was envisaged that the industrial machinery and other engineering projects under the Second Plan would obtain their requirements of heavy castings and forgings from the central foundry and forge shops set up by NIDC.

The foundry/forge expected to be established by NIDC will, however, be integrated with the heavy machinery plant proposed to be built with U.S.S.R. assistance.

It is now hoped that the needs of the machinery industries in the private sector will be met to some extent by the expansion of existing foundries.

The automobile and ancillary industries will require about Rs. 12 crores of foreign exchange for the import of equipment for the implementation of their phased manufacturing programme over and above the import licences of Rs. 5 crores for capital goods which have already been issued. It is hoped that some of the requirements for the import of components will be met from U.S. Aid.

Electrical Engineering Industries.— In several of the industries falling under this group the original plan targets were revised in 1956–57. Attention is drawn to the revised targets mentioned in brackets in the table below :—

Industry	Unit	Installed Capacity: Plan target (revised figures in brackets)	Installed Capacity: Capacity (at end of 1957)	Capacity likely to be achieved in '60-61	Further foreign exchange needed for achieving capacity under (5) (Rs. crores)	Further foreign exchange needed (over and above figure in Col. 6) for achieving targets under col 3 (Rs. crores)
1	2	3	4	5	6	7
Transformers	'000 KVA	1,500 (2,200)	934	1,465	0·10	1·0
Motors	'000 HP	600 (1,200)	339	736	0·10	1·5
Cables & Wires						
ACSR	Ton	21,570 (30,000)	13,370	23,600	0·13	
VIR & Plastic coated..	Mill. yds.	334 (500 to 600)	157	242	0·20	1·5
Paper Insulated Power	Miles	784 (1,500 to 1,800)	Nil	1,104	Neg.	
Radio receivers ..	'000 Nos	213 (300)	213	300	Neg.	Neg.

It will be noted that in almost all cases the targets originally envisaged will be reached or substantially exceeded on the basis of import licences for capital goods already approved.

It is necessary to bear another consideration in mind in taking a view on further developments in this field. The scarce foreign exchange might justifiably be diverted to the installation of facilities for producing electrical steel sheets, electrolytic grade aluminium and electrolytic copper so that a larger measure of self-sufficiency would be achieved by these industries at the levels of capacity to be reached by 1960–61.

Consumer Goods Industries.

Industry	Unit	Installed Capacity: Plan target (revised figures in brackets)	Installed Capacity: Capacity (at end of 1957)	Capacity likely to to be achieved in '60-61	Further foreign exchange needed for achieving capacity under Col. 5 (Rs crores)	Further foreign exchange needed (over and above figure in Col. 6) for achieving targets under Col 3 (Rs. crores)
1	2	3	4	5	6	7
1. Sugar	'000 tons	2,500	2,010	2,250	Neg.	10·0
2. Cotton Textiles						
(i) Spindleage ..	Mill.Nos.	13·621 (14·150)	12·6	14·15		
(ii) Loomage	'000 Nos.	203 (221)	..	221	15·00	..
3. Paper and Paper-board	'000 tons	450	252	410	1·0	5·0
4. Glass	'000 tons	385	295	343	0·2	..
5. Rayon						
(i) Filament	Mill. lbs.	66·0 (100·0)	34·0	76·8	1·6	
(ii) Staple fibre ..	..	32·0	32·0	40·0	..	10·0
(iii) Chemical Pulp ..	'000 tons	30·0	Nil	30·0	Neg.	
6. Paints and varnishes	'000 tons	65·0	65·0	65·0	..	..
7. Vanaspati	'000 tons	445	No increase		400	..
8. Vegetable Oils solvent extraction ..	'000 tons	64	17	58	0·5	0·10

The targets for the cotton textile industry were revised after the publication of the Plan when the decision was taken by Government to license a further 2·1 million spindles and 18,000 automatic looms. The new investment required in this field was thereby raised to Rs. 60 crores as against Rs 30 crores set out in the Plan. Licences have been issued for all this additional spindleage.

The capacity likely to be achieved in the sugar industry by 1960-61 on the basis of schemes in progress is estimated at 2·25 million tons. The further foreign exchange required for achieving this capacity is negligible.

The paper industry could achieve a capacity of 410,000 tons with the sanction of about Rs. 1·0 crore of additional foreign exchange. This capacity falls short of the target of 450,000 tons, but it may be sufficient to achieve the production target of 350,000 tons.

The rayon industry including nylon is likely to expand its capacity to about 77·0 million lbs. which is in excess of the original target. This overall capacity includes about 4·0 million lbs. of rayon type cord filament and 0·48 million lbs. of nylon yarn, part of which is expected to cater to the needs of the fishing industry for modern nets.

Foreign exchange has also been released for plant and machinery for the establishment of a 30,000 ton per year dissolving pulp plant which will reduce partially the dependence of the rayon and staple fibre industry on an imported raw material.

The modernisation programmes of the cotton and jute textile industries are an important feature of the industrial plan of the private sector.

Stress was also laid in the Plan on the large arrears of replacement to be made good in the sugar industry which were estimated at about Rs. 50 crores.

Apart from these and the steel industry, where investments on modernisation were included in the new investment programmes, the funds required for replacements in other sectors of industry were not considered to be very large.

It is estimated that about Rs. 35 crores worth of licences for import of machinery for the modernisation programmes of the cotton and jute textile industry will have been sanctioned by the close of the second year of the Plan. The foreign exchange sanctioned for similar programmes of the sugar industry does not appear to be very large. If the original estimate of the overall foreign exchange requirements of the replacement programmes is correct, a balance of about Rs. 35 crores more might still be required.

It is difficult to say to what extent this would be forthcoming as it is largely dependent, especially in the case of the cotton and jute textile industries, on the extent to which the U.S.A. and and Japanese credit can be utilised for this purpose.

SUMMING UP

It may be useful to attempt to summarise the main conclusions which emerge from the foregoing data regarding the private sector :

It is estimated that with a further release of foreign exchange of about Rs. 32 crores in all, the capacity targets would be achieved. It seems probable that with small releases of foreign exchange over the next two years coupled with credits that may be available from U.S.A. and Japan for some of these industries the bulk of Rs. 32 crores will be found. A further sum of about Rs. 100 crores of foreign exchange will be required to achieve the Plan targets, and at present there is no clear prospect of additional foreign exchange of this order becoming available.

The achievements of the capacity targets would mean :

(1) There will be a substantial shortfall as against the original targets of capacity in the case of aluminium, ferro-manganese and caustic soda.

(2) The original target of capacity for heavy chemicals (some miscellaneous chemicals and caustic soda excluded) will be substantially achieved but there will be appreciable shortfalls in the case of cement and dyestuffs and relatively smaller shortfalls under refractories.

(3) In the field of engineering industries, there will be shortfalls in respect of structural fabrication and in respect of all types of machinery, except sugar machinery, but the targets for locomotives, wagons and bicycles will be achieved.

In the case of automobiles, the manufacturing programme will considerably lag behind the schedule in the achievement of the target of 80 per cent self-sufficiency.

(4) The original targets of capacity in the field of electrical engineering industries will be achieved and even exceeded in certain lines, but some shortfalls in respect of VIR and plastic cables is indicated.

(5) Targets of capacity for consumer goods industries will be achieved except in the case of paper and newsprint, rayon filament and sugar. The original target for the rayon industry will, however, be exceeded and in the case of sugar the production target should be achieved.

On an overall view, it can be very roughly said that about 70-75 per cent of the original targets of capacity would be achieved.

The modernisation and replacement programmes will not be carried out in full unless further foreign exchange of the order of Rs. 35 crores is made available. It cannot at present be said whether this will be forthcoming and whether the private sector will be able to put up the required resources particularly if there is a curtailment of the quantum of assistance which it was proposed should be provided by the NIDC for the rehabilitation of the cotton and jute textile industries.

The total investment required for the achievement of the capacities shown in Column 5 of the foregoing statements would amount to about Rs. 440–450 crores.

If the rest of the manufacturing industries in the organised sector are also taken into consideration, the overall investment which seems likely to be achieved in the light of schemes in progress and substantially covered by import licences would be higher perhaps by about Rs. 30-40 crores. This would bring the total of new investment to about Rs. 475 crores of which the foreign exchange element would be of the order of Rs. 265 crores. Including about Rs. 100 crores expected to be invested in the modernisation and replacement programmes, based on expected supplies of domestic machinery for this purpose and the import licences so far granted, the overall investment in the organised industrial sector will add up to about Rs. 575 crores as compared to Rs. 685 crores envisaged in the Plan.

It is considered not improbable that investment on this scale will actually be achieved.

INDUSTRIAL PROJECTS IN THE PUBLIC SECTOR

Item	Revised Plan Provision	Revised Foreign Exchange	Progress of Expenditure			Total for 3 years 1956-59
			1956-57 Actuals	1957-58 Revised	1958-59 Budget	
Rourkela	510·00	120·00	41·35	142·33	160·00	343·68
Bhilai		85·67				
Durgapur Steel Plant		95·00				
South Arcot Lignite Project	61·00	26 00	5·02	4·23	7·0	16·25
Sindri Fertilisers	8·40	5·50	3·48	1·32	1 38	6·18
Nangal Fertilisers	22·00	12·50	1·70	2·26	4 05	8·10
Hindustan Shipyard	9 80	0·80	1·47	1·05	1 48	4 00
Heavy Electrical Plant (1st phase)	16·65	4·80	0·28	1·21	1·00	2·49
Hindustan Machine Tools	2·36	0·45	1·20	1·16	..	2·36
D. D. T. Factories	1·20	0·85	0·24	0 50	0·24	0 08
Hindustan Cables	0 60	0·34	..	0·20	0 30	0·50
Hindustan Anti-biotics	1 00	0·25	0 50	0·15	0 01	0 66
National Instruments Factory	0·65	..	0·28	0·19	0·02	0·49
Salt Development	2·00	..	..	0·18	0 20	0·38
Rourkela Fertiliser Factory	16·00	12·00	..	..	..	..
Industrial Finance Corporation	22·25	..	6 00	9 00	3 00	18 00
Security Paper Mill	2·50	2·50	..	0·10	0·10	0·20
Mysore Iron and Steel Works (Ferro-silicon Plant)	N.A.	N.A.	..	0 05	0·33	0·38
N.I.D.C.	53 00	38·50	0·25	2·30	3·85	6 40
Other Schemes of C. & I. Ministry	N.A.	N.A.	N.A.	..	..	..
State Industrial Schemes	21·09	..	1·97	4·04	3·36	9·37
Hyderabad Praga Tools	N.A.	..	N.A.	..	..	..
J. & K. Spun Silk Mill	N.A.	N.A.				
Sugar & Cotton Mills, Pondicherry	N.A.	N.A.				
Total	750 50*	400·06*	63·83*	170·27	186 32	420·42

* Information for certain schemes (denoted as N.A.) is not included in these totals.

MINERAL RESOURCES

The main projects in the Second Five-Year Plan for the development of mineral resources are the coal production programme, coal washeries, oil exploration and surveys and investigations by the Geological Survey of India and Indian Bureau of Mines. The Plan provided Rs. 72·5 crores for these and related programmes.

The total foreign exchange expenditure on account of the mineral development programmes is of the order of Rs. 39·6 crores.

Coal production in 1955–56 amounted to 38 million tons and it was proposed to raise it by 22 million tons to 60 million tons. The public sector was to contribute 12 million tons of this additional production and the private sector 10 million tons. The programme in both these sectors is included in the core of the plan.

The programme of the public sector was roughly estimated to involve an outlay of Rs. 60 crores including Rs. 12 crores for housing, against which the Plan initially provided Rs. 40 crores.

The first two years of the Plan were taken up largely in work of a preparatory character, such as detailed prospecting of selected areas, preparation of project reports, acquisition of unworked areas of old coal leases, placing orders for equipment, etc.

A total expenditure of about Rs. 12 crores is expected to be incurred in the first three years of the Plan.

During 1956–57, coal production increased by about 1·84 million tons, of which the existing State Collieries contributed 0·2 million tons. The target of additional production for 1957–58 was about 3·2 million tons. During the first eleven months of 1957–58, the average monthly production is equivalent to an annual production of 43·3 million tons—representing an increase of about 3 million tons over the level of production in 1956–57.

On the basis of present approved programmes the Planning Commission estimates that the public sector will contribute about 8·5 million tons of additional production in the last year of the Plan. The private sector seems likely to achieve its target of 10 million tons and is likely to exceed it as recently it has been agreed that as a cushion against possible shortfalls elsewhere this sector should be permitted to raise an extra 1·4 million tons in the Central India Coalfields.

Over the Plan period as a whole in terms of the existing programmes, it appears that there may be a shortfall of 3 to 4 million tons in coal production against the target of 60 million tons.

With a view to conserving metallurgical coal, the Plan provided for the setting up of four coal washeries. The coal washing plant at Kargali is expected to be completed and brought into commission by about May 1958 and the remaining washeries are expected to be functioning before the end of the Plan period.

Oil exploration has been in progress in different areas since the beginning of the Second Plan. Over the period 1956–59 about Rs. 7 crores are expected to be spent.

Work has also been in progress in the West Bengal basin under the Indo-Stanvac Agreement.

A decision has recently been taken to form a Rupee Company in partnership with the Burmah Oil Company for exploitation of the Nahorkatiya oil field and for construction and operation of a pipe line.

For processing this crude oil, two refineries are proposed to be set up in the public sector. The construction of the pipe line and the establishment of the refineries is to be taken up in two stages. In the first stage, a pipe line will be laid from Nahorkatiya to Gauhati where a refinery with a capacity of about 0·75 million tons is to be established and during the second stage, the pipe line will be extended to Barauni where a refinery with a capacity of about 1·5 to 2·0 million tons will be set up.

The Rupee Company (Government's share thereof) and the refinery at Gauhati are expected to involve an outlay of Rs. 24 crores during the current plan period.

Fairly good progress has been made in the programme for coal prospecting while the progress in the programmes of the expansion of the Geological Survey of India and the Indian Bureau of Mines has been somewhat slow with the result that surveys and investigations have not proceeded as rapidly as was expected.

On present indications, the outlay on the development of mineral resources during the Second Plan is expected to be about Rs. 85 crores.

RAILWAYS

The total provision for railways in the Second Plan is Rs. 1,125 crores including Rs. 225 crores on account of depreciation. The foreign exchange element of the programme is estimated at Rs. 425 crores.

Though it was estimated that the additional freight traffic by the last year of the Second Plan might amount to about 61 million tons, bringing the total traffic to be carried to 181 million tons, the Plan provides for moving only 42 million tons of additional freight traffic.

The Plan also provides for an increase of 3 per cent per annum in passenger traffic. It was not expected that this provision would help to relieve overcrowding.

The programmes drawn up within the provision of Rs. 1,125 crores are now estimated to cost Rs. 100 crores more than this sum owing to a rise in prices. It is not, however, possible to raise the existing provision of Rs. 1,125 crores and so some of the projects in the Railway Plan may have to be postponed on this account and also because of foreign exchange difficulties. Some of the projects which are envisaged for postponement are as follows: – Electrification schemes connected with Tambaram-Villupuram section and the Sealdah Division in the Calcutta area; Metre Gauge Coach Factory; Integral Coach Factory furnishing unit; New Line between Guna and Ujjain.

The Railway Board have also agreed to put forward proposals for saving Rs. 48 crores in foreign exchange.

The target in respect of passenger traffic, viz. provision for an increase of 3 per cent per annum is also likely to be fulfilled. However, the percentage increase in passenger traffic in 1956-57 over 1955-56 was as much as 6·7. If such a trend continues the problem of overcrowding will get worse.

The total Plan provision for railways, the estimated outlay during the first 3 years and the estimate of expenditure in the last two years of the Plan are shown below:—

(Rs. Crores)

Item	Plan provision	Expenditure 1956-57	Expenditure 1957-58 (R.E.)	Budget provision 1958-59	Estimated Expenditure 1956-59	Estimate 1959-61	Total for 1956-61
Railways.. .	900·00*	134·00	190·00	215·00	539·00	357·50	896·50

* Excludes Rs. 225 crores to be available from the Railway Depreciation Fund. The Plan provision of Rs. 900 crores includes Rs. 3·5 crores for Vizag Port but the expenditure figures do not include anything on account of Vizag. The administrative control of the Vizag Port was transferred from the Ministry of Railways to the Ministry of Transport on Oct. 1, 1956.

SHIPPING

A provision of Rs. 45 crores was made for shipping in the Second Plan including Rs. 8 crores to meet the orders placed during the First Plan period. The entire amount has already been committed and the tonnage likely to be acquired as a result of these commitments is only about 1,50,000 GRT against a Plan target of 3,90,000 GRT, including 90,000 GRT for replacement of obsolete ships.

To reach the target an additional sum of about Rs. 45 crores would be required.

Recently it has been agreed to set up a Shipping Development Fund for financing the acquisition of additional tonnage in the remaining Plan period. This Fund will be made of (a) Rs. 7 crores which are expected to be available from the repayments of loans (including interest) already advanced to the Shipping Companies; and (b) annual contributions from General Revenues. It is not certain however, that the contributions will be sufficient to enable the target laid down in the Plan to be reached.

The following table shows the Plan provision for Shipping, the estimated outlay in the first 3 years of the Plan period and the likely expenditure in the last two years of the Plan: –

(Rs. crores)

Item	Plan provision	Expenditure 1956-57	Expenditure 1957-58 (R.E.)	Budget provision 1958-59	Estimated Expenditure 1956-59	Estimate 1959-61	Total for 1956-61
Shipping ..	45·00*	8·97	9·43	9·88	28·28	26·00	54·28

* Excludes provision for Sailing Vessels Industry, Marine and Nautical Engineering Colleges and Andaman Shipping.

PORTS

A provision of Rs. 43·5 crores was made in the Second Plan for the development of the major ports of Calcutta, Bombay, Madras, Vizag, Cochin and Kandla, but the total cost of the port programmes approved for inclusion in the Plan was Rs. 70·9 crores as it was expected that some additional funds would be available from the ports' own resources.

The ports' own contributions are now estimated at about Rs. 18 crores, but the estimated cost of the ports' programme has been revised upwards and is reckoned at about Rs. 100 crores.

Thus, there is a considerable gap between the resources available and the financial outlay required for the programmes envisaged.

The foreign exchange element in the programmes costing Rs. 100 crores is of the order of Rs. 35 crores. The financing of the programmes is linked with expected loan assistance from the World Bank. Some assistance for the Vizag port may also become available from the U.S. President's Asian Development Fund.

Even with this assistance, however it will not be possible to carry out the original programmes in full. It will not be possible to reach final decisions till the World Bank's intentions are known.†

Some of the long term projects which may have to be retarded are the Minimum Scheme at Bombay, the Fulta Hooghly River Training Works and the new Marshalling Yard at Calcutta, the Wet Dock Scheme at Madras and the equipping of new berths at Kandla.

The Plan envisaged raising the handling capacity of the ports from about 25 million tons to 33 million tons. It is considered, that, despite the probable postponement of some long term projects the programmes already undertaken and those which are likely to be taken up will enable the tonnage capacity envisaged to be achieved.

The following table shows the Plan provision for ports, the estimated outlay in the first 3 years and funds which it is estimated, may be possible to make available in the last two years.

(Rs. crores)

Item	Plan provision	Expenditure 1956-57	Expenditure 1957-58	Budget provision 1958-59	Estimated Expenditure 1956-59	Estimate 1959-61	Total for 1956-61
Major Ports ..	40·00* (18·00)§	8·01	8·29	9·00	25·30	18·20	43·50 (18·00)§

† World Bank loans will be forthcoming for Madras, Bombay and Calcutta Ports.
* Excludes the provision of Rs. 3·5 crores for Vizag Port which was originally included in the Railway Plan.
§ An amount of about Rs. 18 crores is expected to be available for the ports' programme in the Second Plan from the Ports' own resources.

ROADS

There is a provision of Rs. 246 crores for road development in the Second Plan in addition to Rs. 25 crores to be drawn from the Central Road Fund.

Of this sum, Rs. 94·7 crores have been provided in the Plan of the Ministry of Transport for the Central road programme (including Union Territories) and Rs. 151·4 crores in the State Plans.

The Plan provides for the construction of about 20,000 miles of surfaced roads, besides construction of major bridges, missing links, improvements, etc.

The expenditure during 1956-57 on the entire road programme was Rs. 42·71 crores and the revised estimate for 1957-58 is Rs. 44·32 crores. The budget provision for 1958-59 is Rs. 42·23 crores. Thus the total estimated expenditure in the first 3 years of the Plan works out to Rs. 129·26 crores, leaving a balance of Rs. 116·86 crores for the subsequent two years.

It seems improbable, however, that in the last two years it will be possible to make budget allotments equal to this amount. Furthermore, shortage of steel is likely to retard the construction of bridges.

Some shortfall in the total programme is, therefore, to be expected.

The following table gives the Plan provision for Central and State road programmes, the estimated outlay in the first 3 years and the estimated expenditure in the last two years.—

(Rs. crores)

Item	Plan provision	Expenditure 1956-57	Expenditure 1957-58	Budget provision 1958-59	Estimated Expenditure 1959-60	Estimate 1960-61	Total for 1956-61
1. Central programme (excluding Union territories)	82·00	14·23	13·15	12·67	40·05	29·00	69·05
2. State Plans (including Pondicherry and Union territories)	164·12	28·48	31·17	29·56	87·21 *	63·00	150·21
Total	246·12	42·71	44·32	42·23	127·26	92·00	219·26

* Includes anticipated outlay of Rs. 27 56 crores for 1958-59.

COMMUNICATIONS

There is a provision of Rs. 110 crores for the development of Communications in the Second Plan. The foreign exchange content of the programme is estimated at about Rs. 51 crores as detailed below :—

(Rs. crores)

	Total Cost	F.E. content
Posts and Telegraphs Deptt	63·00	17·89
Indian Telephone Industries	0·50	0·70*
Overseas Communications Service	2·00	1·10
India Meteorological Department	1·50	0·84
Civil Aviation Department..	12·50	5·68
Indian Airlines Corporation	16·00	7·75
Air India International ..	14 50	16 82†
	110·00	50·78

* This is against the estimated expenditure of Rs. 218 lakhs a part of which has to be met from the Industries' own resources.

† This includes a certain amount to be met from the Corporation's own resources.

So far as the Department of Posts & Telegraphs is concerned, the main schemes are those relating to the Local Telephone Service (Rs. 29 crores) and Trunk Cables and Carrier Cables (Rs. 8·5 crores).

These two schemes involve a considerable amount of foreign exchange.

As regards the Local Telephone Service, it was expected that 1,80,000 new telephones would be installed during the Second Plan period. However in view of the relatively low priority that is being attached to this scheme, its progress will be retarded owing to foreign exchange difficulties.

So far as the scheme relating to trunk cables and carrier cables is concerned, the foreign exchange requirement is estimated at Rs. 5·20 crores. This amount, however does not fully take into account the requirements of the Posts and Telegraphs Department in respect of the railway electrification schemes. In view of the high priority attached to the railway electrification scheme, foreign exchange for that portion of the trunk cables scheme which is interlinked with railway electrification will have to be provided.

As regards Overseas Communications Service and the India Meteorological Department, their programmes will be retarded owing to foreign exchange difficulties.

In the case of the Civil Aviation Department a provision of Rs. 12·5 crores was made in the Plan, but subsequently a scheme for the improvement of the runway at Santa Cruz, Bombay, in order to accommodate the Boeing 707 Jet Aircraft was approved at an estimated cost of Rs. 4 crores.

While some of the schemes relating to Civil Aviation may have to be staggered due to lack of foreign exchange, the entire provision made for the programme may well be expended owing to the additional requirements of the runway scheme.

The programme of the two Air Corporations may be expected to go through in full. Air India International have already secured some foreign loan assistance for purchase of aircraft which was the major item of their programme In the case of I.A.C. also full commitments have already been entered into for purchase of aircraft.

BROADCASTING

The total provision in the Plan is Rs. 9 crores and the foreign exchange content of the programme is Rs. 3·52 crores.

The total expenditure in the first 3 years of the Plan is likely to be Rs. 3·92 crores.

On account of foreign exchange difficulties, the programme will have to be staggered and certain schemes, *e.g.*, the installation of new transmitters and studios and of television facilities may have to be postponed.

The following table gives the Plan provision, the estimated outlay during the first 3 years and the estimated expenditure during the last two years of the Plan in respect of Communications and Broadcastings :—

(Rs. crores)

Item	Plan provision	Expenditure 1956-57	Expenditure 1957-58	Budget provision 1958-59	Estimated Expenditure 1959-60	Estimate 1960-61	Total for 1956-61
1. Communications	110·00	18·50	20·14	21·77	60·41	37·00	97·5
2. Broadcasting	9 00	1·45	1·17	1·30	3·92	2·50	6·5

SOCIAL SERVICES

Under the Second Five-Year Plan, the resources to be provided by the Central and State Governments amounted to Rs. 945 crores or 19·7 per cent of the total outlay under the Plan. Of this amount, Rs. 459 crores were shown against State Plans and Rs. 396 crores at the Centre. Except for Rehabilitation, which is financed as a wholly Central responsibility, a large proportion of the allotment at the Centre under Education, Health, Housing, etc. is intended to be spent in the States and through State Governments on schemes sponsored by the Central Government.

Since the commencement of the Second Five-Year Plan, it has been realised that within a total outlay of Rs. 4,800 crores it would be necessary to undertake a measure of reallocation between different sectors, so as to provide minimum additional funds needed for the development of large and medium industries and mineral resources. The additions have to be found by corresponding adjustments under certain other heads. In making these adjustments, the aim has been to keep reductions in allocations in the States and in respect of social services to the smallest magnitudes feasible. The statement below sets out the original Plan allocations and those now proposed for different heads in the social services group :—

(Rs. crores)

Head	(Original)			(Revised)		
	Total	Centre	States	Total	Centre	States
Education	307	95	212	285	75	210
Health	274	90	184	255	75	180
Housing	120	47	73	100	27	73
Welfare of Backward classes	91	32	59	83	24	59
Rehabilitation	90	90	..	90	90	..
Social Welfare, Labour and Labour Welfare and Educated unemployment schemes ..	63	42	21	50	30	20

The total allocation for social services proposed above will now constitute 18 per cent of the Plan outlay in place of the original 19·7 per cent.

In the States, however, the allocations proposed for social services will be maintained at the same level as in the original Plan, namely, 24·5 per cent of the total States' allocation.

If commitments under the Plan are limited to a total outlay of Rs. 4,500 crores, it is hoped that the outlay on social services will not be allowed to fall below 18 per cent of the total Plan outlay and below about 25 per cent of the outlay in the States.

EDUCATION

The outlay on Education has risen from about Rs. 23 crores in 1956-57 to about Rs. 37 crores in 1957-58; about Rs. 50 crores have been provided in 1958-59.

The actual outlay by the end of the third year is expected to be Rs 109 crores against an initial Plan allocation of Rs. 307 crores. The outlay at the Centre may amount to Rs. 27 crores and in the States to Rs. 82 crores.

When the Second Plan was drawn up, it was expected that the number of additional pupils for whom school facilities would become available would be about 7·7 million in the age-group 6-11, 1·3 million in the age-group 11-14, and nearly 8 lakhs in the age-group 14-17.

It is anticipated that by the end of the third year of the Plan, the additions achieved in these groups might be of the order respectively of 6 millions, 800,000 and 700,000.

The following statement shows the progress anticipated in school education during the first three years of the Plan :—

Item	Unit	5-Year Plan target	Progress 1956-57	Anticipated progress (1957-58)	Provisional target (1958-59)	Total for three years 1956-59
I. *School facilities for different age-groups*						
6-11	lakhs	77 28	20 00	21 25	22·50	63·75
11-14	,,	12 93	2 70	3 00	3·35	9 05
14-17	,,	7·67	2·60	2·60	2 60	7 80
II. *Institutions*						
Primary schools	Total	52,762	22,200	23,600	25,000	70,800
Junior Basic	No.	27,440	2,650	4,700	6,700	14,050
Middle schools	,,	3,455	1,350	1,500	1,675	4,525
Senior Basic	,,	5,026	229	666	800	1,695
High/Higher Secondary schools	,,	1,525	1,440	1,440	1,440	4,320
Multipurpose	,,	837	117	133	150	400

For technical education, the allotment of Rs. 48 crores under the Plan was raised subsequently to about Rs. 57 crores, the increase being secured within the Plan ceilings for education.

Outlay over the first three years is likely to be about Rs. 22 crores.

The proposals of the Engineering Personnel Committee contemplated a total addition of 2,704 seats for degree courses and of 8,221 seats for diploma courses. These increases were to be achieved through the expansion of existing institutions and the setting up of 18 new colleges and 62 new diploma institutions.

The targets fixed for the plan period and the progress anticipated during the first three years of the Plan are given below.

	Plan targets		1956-57 Progress	1957-58 Progress	1958-61 Provisional targets
	Original	Revised (Est.)			
Engineering Colleges					
Number	8	16	8	2	6
Additional intake ..	1,010	5,488	840	2,646	2,002
Polytechnics					
Number	23	55	11	12	32
Additional intake ..	2,600	11,796	1,320	5,670	4,806

The expansion of elementary education, especially in rural areas, can proceed more rapidly than was envisaged in the Plan if a sufficient supply of teachers is made available. Against the target of 234,000 primary teachers, the likely increase over the first three years is a little less than 200,000.

It is believed that the proportion of trained teachers which stood at about 61 per cent in 1955-56 declined by about 1 per cent during the first two years of the Plan.

The increase in the number of primary teachers was due specially to the schemes for the appointment of 80,000 additional teachers which was introduced in 1954-55 and 1955-56 partly with a view to increasing educational facilities and partly as a measure of relief for educated unemployed persons.

To meet the growing demand for education and also to provide further relief to educated unemployed persons, it is proposed to introduce with effect from 1958-59 a new scheme for the appointment of 60,000 additional primary school teachers. Of these, 15,000 are to be appointed in 1958-59, 20,000 in 1959-60 and 25,000 in 1960-61.

As stated earlier, against the original allotment of Rs. 307 crores for Education it is proposed now to provide Rs. 285 crores.

It is proposed that within a total of Rs. 4,500 crores, commitments on Educational schemes over the Plan period might be limited to Rs. 275 crores.

HEALTH

Against a Plan allocation of Rs. 274 crores, the total outlay on health programmes over the first three years is likely to be about Rs. 108 crores of which Rs. 68 crores will be in the States and about Rs. 40 crores at the Centre.

At the Centre, the important provisions include malaria control, urban water supply and sanitation, medical education and family planning.

In the States, the principal items are hospitals and dispensaries, urban and rural water supply and sanitation, control of diseases and training programmes.

During the First Plan, in urban areas, 228 water supply schemes and 61 drainage schemes were sanctioned. In rural areas, 134 schemes were approved. Together, these water supply schemes entailed a total exceeding Rs. 80 crores. Consequently, the bulk of the expenditure was carried over into the Second Plan and almost all the schemes now in progress are those which were begun or approved two or three years ago.

The total outlay on urban water supply and sanitation during the first three years, amounts to Rs. 25 crores and on rural water supply to about Rs. 12 crores. A review of the urban water supply and sanitation programme now envisaged for the next three years is necessary. Without such a review being undertaken, it is not possible to consider any new schemes, however essential they might be.

For the malaria control programme under the Second Plan, the outlay during 1956-58 was about Rs. 12·5 crores.

A decision has recently been taken to change over from a programme for control to a programme for eradication of malaria. This changeover became possible on account of additional resources being made available from a special fund under the Indo-U. S. Technical Co-operation programme.

The total sum now needed over the plan period for meeting the cost of the control programme for the first two years and of the eradication programme for three years is about Rs. 55 crores. Of the additional amount, about one-half is covered by external assistance. The programme has been incorporated in the State Plans for 1958-59.

The Second Plan provided for the establishment of about 3,000 primary health units, of which 1,120 were to be set up in community development blocks and the rest in national extension blocks.

About 900 primary health centres have been established during the first two years of the Plan.

Since the commencement of the Plan, proposals for setting up 9 new medical colleges and expanding 14 existing medical colleges have been approved.

Admissions in 1958-59 are expected to be of the order of 4,600 as compared to 3,500 before the commencement of the Plan.

It was proposed to set up about 2,500 family planning centres during the current Plan. At the end of 1957-58 about 535 centres have been set up and the plans for 1958-59 provide for the establishment of 400 more centres.

The revised allocation for health programmes is Rs. 255 crores and within a total of Rs. 4,500 crores commitments may be limited to Rs. 245 crores.

HOUSING

The Second Five-Year Plan made an allocation of Rs. 120 crores for Housing. The outlays proposed and the physical targets under the main schemes were as follows :—

(Rs. crores)

Description	Original Plan cost target	
Subsidised Industrial Housing Scheme ..	45	1,28,000
Low Income Group Housing Scheme ..	40	68,000
Plantation Labour Housing Scheme ..	2	11,000
Slum Clearance and Sweepers' Housing Scheme ..	20	1,10,000
Village Housing Projects Scheme ..	10	1,33,000
Middle Income Group Housing Scheme ..	3	

The total outlay over the first three years is about Rs. 40 crores.

Under the subsidised industrial housing scheme, the programme for the three years 1956-59 involves the construction of 42,600 units, under the low income-group housing scheme of 32,300 units and under the slum clearance and sweepers' housing scheme of about 22,000 units.

The village housing projects scheme is being introduced effectively only from 1958-59.

As explained earlier, the revised allocation for housing will be Rs. 100 crores or Rs. 20 crores less than the original allocation. Within a total of Rs. 4,500 crores, commitments on housing are expected to be limited to about Rs. 84 crores. This may include about Rs. 64 crores in the States and Rs. 20 crores at the Centre, the amount being distributed as follows:—

(Rs. crores)

Scheme	Centre	States
Subsidised Industrial Housing Scheme ..	2·5	24·5
Rural Housing Scheme	6 0	0 2
Slum Clearance Scheme	11·5	4·0
Plantation Labour Housing Scheme ..	..	0·6
Low Income Group Housing Scheme ..	..	35·0

Outlays at the levels indicated above would imply that the various housing programmes would proceed relatively slowly during the remaining years of the Plan.

OTHER SOCIAL SERVICES

For programmes for the welfare of backward classes, the Plan allotted Rs. 91 crores, of which Rs. 59 crores were provided in the States and Rs. 32 crores at the Centre. The outlay during the period 1956-59 is expected to be about Rs. 35 crores.

The revised allocation is Rs. 83 crores, the allocation for the States being maintained at Rs. 59 crores.

Within a Plan of the total outlay of Rs. 4,500 crores, commitments for the welfare of backward classes are expected to be of the order of Rs. 72 crores, of which Rs. 53 crores may be in the States.

For social welfare, labour and labour welfare and educated unemployment schemes, the outlay over the first three years comes to about Rs. 15 crores. It is proposed to reduce the allocation for this group of social services for the five-year period from Rs. 63 crores to Rs. 50 crores. Taking all factors into consideration, it is expected that the outlay would be limited to about Rs. 44 crores.

Special mention should be made of the decision recently taken to raise the target for the plan period for the training of craftsmen from 30,000 to 50,000.

For the rehabilitation of displaced persons, the Plan allocated Rs. 90 crores. Since the programme now includes expenditure on the Dandakaranya scheme for the rehabilitation of displaced persons from East Pakistan in Madhya Pradesh and Orissa and for the resettlement of the local tribal population in the areas which are reclaimed, the allocation is being maintained and outlays are also expected to be of this order.

YIELD FROM TAXATION

The following table shows the yield from additional measures of taxation adopted by the States together with the five-year targets accepted when the Plan was formulated.

(Rs. crores)

	Yield from measures adopted in the first three years		Targets as set out in the Plan Report
	1956-57 to 1958-59	Five-year yield	
General sales tax	39 6	83 2	112 0
Tax on Motor spirit & Diesel oil	2·9	7·0	
Land Revenue	4·0	9·6	37·0
Irrigation rates			11·0
Betterment levy	0 8	2·2	16·0*
Agricultural Income Tax	3 3	7 5	12·0
Electricity rates and duties	3 4	8·4	6·0
Tax on Motor vehicles (including tax on passengers and goods)	5·3	13·1	10 0
Stamp duties and registration etc.	1·2	3·0	4·0
State excise duties	1·8	3·6	..
Others	17·0	35·3	17·0**
	79·3	172·9	226·0

* Exclusive of yield of Rs. 31 crores to be made available to the Centre for repayment of loans.

** Mainly represents local property taxes.

STATE INVESTMENTS

Below we give figures of investments in connection with the Second Plan for certain States. Figures for other States have been given where available under each State.

(Rs. in lakhs)

States	Five Year Plan Provision	Provision for 1957-'58	Provision for 1958-'59
Andhra Pradesh	17,536·73	3,499·54	3,001·62
Assam	5,793·69	1,158·18	1,071·17
Jammu & Kashmir	5,067·74	630 03	N.A.
Madhya Pradesh	18,812·21*	3,542·65	3,458·94
Mysore	14,513·00*	2,868 58	2,570 48
Orissa	9,998·91	1,949 08	1,615·17
Himachal Pradesh	1,472·53	283·22	319·85*
Tripura	846·55	129 82	235·41

STATE INVESTMENTS—*Contd.*

(Rs. in lakhs)

States	Agriculture and Community Development			Irrigation and Power			Industry and Mining		
	Plan Provision	Provision for 1957-'58	Provision for 1958-'59	Plan Provision	Provision for 1957-'58	Provision for 1958-'59	Plan Provision	Provision for 1957-'58	Provision for 1958-'59
Andhra Pradesh	3,085 10	699·15	774·56	7,646·77	1,677·39	1,299·16	1,427·95	250·87	192 00
Assam	1,488·21	347 04	298·93	443·65	74 32	70 46	513·00	124·92	73·50
Jammu and Kashmir	752·52	155 77	N A.	568 69	94·10	N A	341 24	66·33	N.A.
Madhya Pradesh	4,253 91	864·36	931 14	7,287 30	1,334 18	1,230 00	1,034 46	181·92	90·53
Mysore	2,974 00*	484 39	619 69	6,028 00*	1,192 00	974 00	1,179·00	245·37	204·65
Orissa	1,563·98	414 33	417·63	5,146 95	1,024 03	718·08	763·30	93·97	111·02
Himachal Pradesh	374·33	89·33	88·56	213·75	17·50	30 00	47·50	9 67	4·46
Tripura	131·56	25 77	38·03	33·35	10·00	11 01	41·63	7·16	10·96

STATE INVESTMENTS—*Concld.*

(Rs. in lakhs)

States	Transport and Communications			Social Service			Miscellaneous		
	Plan Provision	Provision for 1957-'58	Provision for 1958-'59	Plan Provision	Provision for 1957-'58	Provision for 1958-'59	Plan Provision	Provision for 1957-'58	Provision for 1958-'59
Andhra Pradesh	769 29	118·83	110·75	2,442 84	648 02	558 59	266·78	105·28	66·56
Assam	769 50	107·40	119 81	2,370 67	463·42	471·81	208·66	41 08	36 66
Jammu and Kashmir	370·00	68 50	N A.	732 07	125·30	N.A.	427·55	43·03	N.A.
Madhya Pradesh	1,299·62	264·84	150 00	4,806 88	824·20	485 00	130 04	25·04	13·70
Mysore	910·00*	196·35	176 00	2,536 00	605·25	588 34	886 00	55 22	7·80
Orissa	657·00	112·25	64 52	1,526·68	230·52	259 07	340·10	73 99	44 85
Himachal Pradesh	458 85	68·47	68·85	341 05	55·85	43·71	37·05	45·58	84·27
Tripura	304 00	25·00	100 00	299 71	58·03	71·31	36·30	8 87	5·00

* There is a slight discrepancy between this figure and the figure given under the State. In certain cases the totals under individual heads were worked out in office.

THE OBJECTIVES OF SECOND FIVE-YEAR PLAN

THE major particulars about the Second Plan as originally set out are given below.

The Plan covers the period 1956–61.

The principal task of the Second Five-Year Plan is to secure an increase in national income by about 25 per cent over the five years, to enlarge employment opportunities at a rate sufficient to absorb the increase in labour force consequent on the increase in population and to take major strides forward in the direction of industrialisation so as to prepare the ground for more rapid advance in the plan periods to come.

The Second Plan is in one sense a continuation of the developmental effort commenced in the First Plan; but there is inevitably a shift in priorities with a larger accent on industrialisation, especially the development of heavy industry and the necessary ancillaries like transport.

GROWTH IN INCOME AND INVESTMENT, 1951-76

(At 1952-53 prices)

	1st Plan (1951-56)	2nd Plan (1956-61)	3rd Plan (1961-66)	4th Plan (1966-71)	5th Plan (1971-76)
1. National income at the end of the period (Rs. crores)	10,800	13,480	17,260	21,680	27,270
2. Total net investment (Rs. crores)	3,100	6,200	9,900	14,800	20,700
3. Investment as percentage of national income at the end of the period	7·3	10·7	13·7	16·0	17·0
4. Population at the end of the period (in millions)	384	408	434	465	500
5. Incremental capital output ratio	1·88:1	2·3:1	2·62:1	3·36:1	3·70:1
6. Per capita income at the end of the period (in Rs.)	281	331	396	466	545

PROGRESS OF SECOND PLAN (1955-56 TO 1957-58)

The progress of the Second Plan during the first three years was published just before this book was due to go to press. We give below the summary that was available from the Planning Commission.*

Judged by the development outlay actually incurred during the first three years, the progress of the Plan in eight of the 14 States is satisfactory, according to a review of the State Plans officially published on 22nd July, 1958.

Provided the necessary funds are forthcoming the Plan targets are expected to be largely achieved in the eight States of Andhra, Assam, Madras, Orissa, the Punjab, Rajasthan, Uttar Pradesh and West Bengal.

About 50 per cent. of the sanctioned outlay for the Second Plan is expected to be actually spent in these States by the end of the 1958-59 financial year.

The States falling below this level of utilisation include Bihar, Bombay, Kerala, Madhya Pradesh, Mysore and Jammu and Kashmir.

The position with regard to Kerala is interesting, especially in the context of the State's reported demand substantially to enlarge the Plan beyond the revised outlay of Rs. 87 crores. The Planning Commission's review notes that the rate of expenditure in Kerala has been low in the first three years of the Plan and it is most unlikely that the Plan will be fulfilled in financial terms. The State's contribution to resources from the balance on revenue account at the prevailing rates of taxation is also likely to fall much below expectations. The obvious inference is that there has been an increase in non-plan expenditure.

Madhya Pradesh stands at the bottom of the list, utilisation in the first three years being 39·9 per cent. of the total sanctioned outlay. But apart from other difficulties, reorganisation of the State slowed down development work considerably in the first year of the Plan.

After the reorganisation, the total outlay on the Second Five-Year Plan of Bombay State is Rs. 350·22 crores. As regards the expenditure so far, about Rs. 175 crores, i.e., 50 per cent. of the Plan outlay would have been incurred during the first three years of the Second Plan period. Central assistance for this period works out to Rs. 74·2 crores.

The State has agreed to produce 15·14 lakh tons of additional food grains during the Second Plan period. Of this target 1·57 lakh tons of additional food grains were produced in 1956-57, while the anticipated achievement in 1957-58 is placed at 1·28 lakh tons.

As against the created irrigation potential of 64,000 acres, the actual area irrigated is 2,000 acres in 1957-58. The Plan target under minor irrigation was put at 10·3 lakh acres. Of this 32,000 and 88,000 acres were brought under irrigation in 1956-57 and 1957-58 respectively.

The outlay on the Second Five-Year Plan of the reorganised State of Kerala is Rs. 87 crores. The expenditure under the State Plan for the first three years would be about Rs. 40 crores. Central assistance for this period comes to Rs. 17·5 crores.

For the five-year period, the revised target of additional food production for Kerala has been fixed at 2·76 lakh tons. Of this 0·25 lakh tons were produced in the first year while the anticipated figure for 1957-58 is 0·09 lakh tons.

The total additional area brought under actual irrigation under major and medium irrigation schemes during 1956-57 was 45,000 acres. Under minor irrigation schemes, the five-year target was to bring 2·9 lakh acres of additional area under irrigation. The achievement in 1956-57 is 20,000 acres and the anticipated achievement in 1957-58 is 24,000 acres. Under the electricity schemes, the Plan target for additional installed capacity is 87,000 kw.

STATE-WISE PROGRESS

The following is a summary of the State-wise progress :

Andhra Pradesh : The outlay on the Second Five-Year Plan amounts to Rs. 174·77 crores. The total expenditure for the first three years will not exceed Rs. 89·57 crores. Central assistance for the period works out to Rs. 55·1 crores. The Second Five-Year Plan target for additional food production is 14·86 lakh tons. The additional food production potential achieved during 1956-57 is 1·48 lakh tons and the anticipated achievement for 1957-58 is 2·17 lakh tons. Out of the Plan target area of 4·87 lakh acres to be brought under medium and major irrigation, the likely achievement for 1957-58 is 39,000 acres.

Assam : The outlay is Rs. 57·94 crores. The expenditure in the first three years will come to Rs. 31·48 crores. Central assistance for the same period will amount to Rs. 16·3 crores. As against the target of 3·78 lakh tons of additional food production for the Second Plan period, in 1956-57, 0·34 lakh tons was produced, while it is anticipated that 0·87 lakh tons will be produced during 1957-58.

Bihar : The outlay is Rs. 190·22 crores. The total expenditure in the first three years would be about Rs. 83 crores. Central assistance to the State in the above period amounts to Rs. 43·4 crores. The target of additional food production for the Second Plan period was fixed at 15·0 lakh tons. Of this, 0·84 lakh tons were produced during 1956-57, while the achievement anticipated for 1957-58 is 2·85 lakh tons. The irrigation potential created during the first three years is 4·2 lakh acres and the area actually irrigated up to 1957-58 is 3·1 lakh acres, through major and medium irrigation schemes excluding tube-wells.

Bombay : The total outlay is Rs. 350·22 crores. Rupees 175 crores expenditure would have been incurred during the first three years of the Second Plan period. Central assistance for this period works out to Rs. 74·2 crores. As against 15·14 lakh tons of additional food grain target, 1·57 lakh tons of additional food grains were produced in 1956-57, while the anticipated achievement in 1957-58 is placed at 1·28 lakh tons. As against the created irrigation potential of 64,000 acres, the actual area irrigated is 2,000 acres in 1957-58.

Kerala : The total outlay is Rs. 87 crores. The expenditure for the first three years would be about Rs. 40 crores. Central assistance for this period comes to Rs. 17·5 crores. For the five-year period, the revised target of additional food production for Kerala has been fixed at 2·76 lakh tons. Of this 0·25 lakh tons were produced in the first year while the anticipated figure for 1957-58 is 0·09 lakh tons. The total additional area brought under actual irrigation under major and medium irrigation schemes during 1956-57 was 45,000 acres.

Madhya Pradesh : The outlay is Rs. 190·89 crores. The expenditure on the State Plan in 1956-59 would be Rs. 76·16 crores. Central assistance during the first two years would amount to Rs. 31·76 crores. The target of additional food production was fixed at 14·61 lakh tons for the reorganised State. Achievement in this sector was 0·61 lakh tons in 1956-57 and 1·69 lakh tons in 1957-58.

Madras : The outlay on the Second Plan is Rs. 152·26 crores. The expenditure in the first three years would work out to Rs. 90·65 crores. Central assistance comes to Rs. 45·2 crores. The revised target of additional food production for the State was fixed at 18·7 lakh tons. The achievement in the first two years is 2·32 lakh tons in 1956-57 and 3·66 lakh tons (anticipated) in 1957-58. The Second Plan target for additional irrigation is 2·68 lakh acres. Under minor irrigation schemes, the achievement is estimated at 25,000 acres for 1956-57 and 40,000 acres for 1957-58, against the five-year target of 5·05 lakh acres.

Mysore : The outlay is Rs. 145·13 crores. The expenditure during the first three years would be about Rs. 55 crores and Central assistance would be about Rs. 35·6 crores. The target of additional food production was fixed at 5·91 lakh tons. Of this, 0·58 lakh tons of additional food grains were produced in 1956-57, while the anticipated figure for 1957-58 is 0·91 lakh tons.

Orissa : The outlay is Rs. 99·97 crores. The total expenditure in the first three years would amount to about Rs. 51·53 crores and Central assistance during the first two years came to Rs. 26·6 crores. The target of additional food production for the Second Plan accepted by the State is 7·52 lakh tons. The achievement in this sector was 0·58 lakh tons during 1956-57 and 0·65 lakh tons during 1957-58 (anticipated).

Punjab : The outlay is Rs. 162·68 crores. The expenditure in the first three years would be about Rs. 92 crores. The amount of Central assistance received by the State during the first two years was about Rs. 35·8 crores. The revised target of additional food production for the State is 14·4 lakh tons. Of this 0·31 lakh tons of additional food grains were produced in 1956-57 while the anticipated figure for 1957-58 is 1·53 lakhs tons. Against a five-year target of 4·85 lakh acres to be irrigated under minor irrigation works, the achievement in 1956-57 is 0·04 lakh acres and anticipated achievement in 1957-58 is 1·19 lakh acres. The additional area under irrigation by Bhakra and other projects comes to about 4·4 lakh acres.

Rajasthan : The total outlay is Rs. 105·27 crores. The expenditure in the first three years would be Rs. 52·19 crores. And Central assistance comes to about Rs. 28 crores. The revised target for food production was fixed at 8·07 lakh tons. The total of additional food grains produced in 1956-57 was 0·48 lakh tons while 0·79 lakh tons is the anticipated figure for 1957-58.

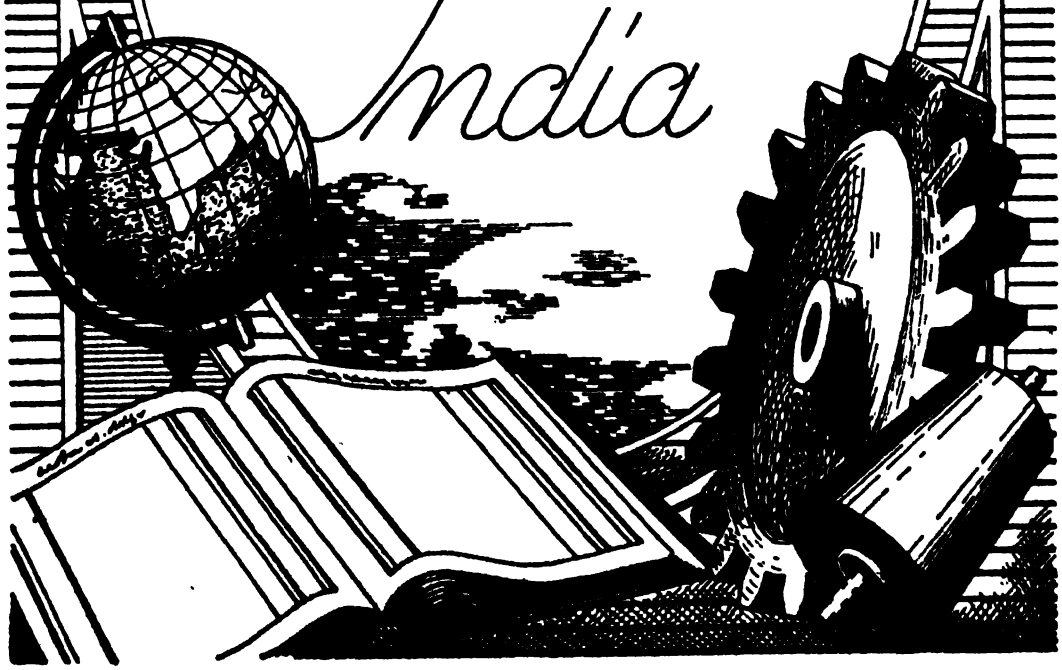
Uttar Pradesh : The outlay is Rs 253·10 crores. The total expenditure during the first three years would be about Rs. 133 crores. The amount of Central assistance in 1956-57 and 1957-58 was Rs. 21·31 crores and Rs. 24·54 crores respectively. The target of additional food production for the State has been fixed at 24 lakh tons. Of this, a total of 1·85 lakh tons was achieved in 1956-57 while the anticipated figure for 1957-58 is 3·50 lakh tons. The additional area brought under irrigation through minor irrigation schemes in 1956-57 and 1957-58 is 2·5 lakh acres and 3·84 lakh acres respectively. Under major and medium irrigation schemes the additional area irrigated is 2·46 lakh acres in 1956-57 and 3·68 lakh acres in 1957-58.

West Bengal : The outlay is Rs. 157·67 crores. The total expenditure in the first three years would amount to Rs. 83·66 crores. Central assistance for the first two years would come to about Rs. 28·35 crores. The target of additional food production for the State was fixed at 9·32 lakh tons. The State produced 0·84 lakh tons of additional food grains in 1956-57 and the anticipated figure for 1957-58 is 1·27 lakh tons.

Jammu and Kashmir : The total outlay is Rs. 33·92 crores. The expenditure in the first three years would be Rs. 14·79 crores. Central assistance during this period comes to rupees 12 crores. The revised target of additional food production for the State was fixed at 2·06 lakh tons. Of this target, 0·25 lakh tons of additional food grains were produced in 1956-57 while the anticipated figure for 1957-58 is 0·02 lakh tons. The achievement under minor irrigation scheme is estimated at 5,000 acres for 1956-57 and 1,000 acres for 1957-58, against the five-year target of 1·25 lakh acres.

* There is a slight discrepancy in the figures from the Planning Commission and those from the States in a previous table in this article.

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IN 1908, three intimate friends, Kanwalsing Pohumal, Vasanmal Kishenchand and Jotsing Harising, formed themselves into a Company called J. B. Advani & Company with a view to specializing in the import of Paper and Printing Materials. This Concern was the first of its kind in Sind. The pioneers, who envisaged a great future for this line of business, opened an office in Karachi. In a very short time their confidence was justified and the venture became a huge success. The markets within reach having been tapped to the fullest extent, a Branch was opened in Bombay in 1921. In spite of the very keen competition that usually prevails in Bombay, which is the premier and largest paper market in India, the Company very soon became one of the leading firms in the line with its business growing in volume from year to year.

In 1925, the original owners of the Company decided to convert their firm into a Private Limited Company—J. B. Advani & Co. Ltd.—with a capital of Rs. 6,00,000.

In 1925, the management began to explore the Punjab market more energetically with a view to developing the business handled by the Head Office at Karachi and a Branch was accordingly opened in Lahore. This was followed by the opening of a Branch in Madras in 1927, which has made steady progress year by year. Three years later, another Branch was opened, this time in Calcutta. Branches have since been opened in Delhi, Jullundur and Cochin.

The Directors of this Company started a new concern under the name and style of J. B. Advani & Co. (Mysore) Private Ltd. at Bangalore.

After the partition of India, the Directors of this company started another concern in Pakistan under the name and style of J. B. Advani & Co. (Pakistan) Ltd., with Head Office Karachi and a branch at Lahore.

With its network of branches in all the important centres in India, J. B. Advani & Co. Private Ltd. today reaches every notable consuming centre in India.

The Company has a Paid-up Capital of Rs. 30,00,000. Besides, it has the substantial backing of its Directors and their relatives, and the Working Capital is actually in the vicinity of Rs. 4,00,00,000. The Company, with its branches, is one of the largest importers of paper in India with a turnover of Rs. 1,25,00,000 per annum. It deals in all grades of paper, printing machinery and materials * and is open to take up representation of Indian and foreign Mills. The Company has now taken in hand export business of Indian products.

In partnership with Messrs. Lorilleux & Bolton Ltd., London, famous manufacturers of Printing Inks, some of the Directors have started a Printing Ink factory at BHANDUP (Central Rly.) near Bombay. The factory has started production from September 1951. With large number of Mills going into full production at the factory, they can meet the entire requirements of Printing Inks of various types required in India. The concern is known as J. B. A. PRINTING INKS PRIVATE LIMITED.

Another enterprise with which they are associated is the one for the manufacture of Welding Electrodes, probably the first major attempt in this field of industry in India. In partnership with the Oerlikon Machine Tool Works (Messrs. Buehrle & Co.), Zurich, Switzerland, the world famous manufacturers of Welding Electrodes, a new company has been floated under the name of J. B. ADVANI-OERLIKON ELECTRODES PRIVATE LTD. with 80 per cent of the share capital subscribed by J. B. Advani & Co. Private Ltd. With an uptodate factory and most modern production line, this factory, situated at BHANDUP (Central Rly.), Greater Bombay, is producing now some of the best Welding Electrodes in the world. They have amongst their patrons, Government, Railways, Shipyards, and Great Steel fabricators of India.

A third enterprise with which they are connected is the one for the manufacture of Drinking Straws and Waterproof Kraft Paper. They have uptodate machinery for the manufacture of these products in India on a very large scale. The leading Aerated Water manufacturers in India are patronising the Drinking Straws and the leading Textile Mills all over India are using the Waterproof Kraft manufactured in Bhandup. A new company has been floated under the name of IDEAL WRAPPERS PRIVATE LTD. and the factory is situated at Bhandup (Central Rly.), Greater Bombay.

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W. H. BRADY &

THE foundations of this famous House were laid in 1895 in Bruce Lane, Bombay, when the late Mr. W. H. Brady in partnership with the late Mr. J. F. Bradbury commenced business as Machinery Agents and Importers, and Advisers on all technical matters relating to the Cotton Textile Industry.

The period was one in which Cotton Mills were on the increase and as Mr. Brady and Mr. Bradbury were two of the best known Mill Managers of the time, their practical experience and expert knowledge of mill management and machinery helped considerably towards the firm's progress.

Within a decade, Bradbury Brady & Co. (as the firm was then styled) had extended its activities far beyond its initial business of machinery importers, for in 1900 the Empire Dye Works was started and in 1901 it took up the agency of the Colaba Land & Mill Company. This was rapidly followed by the agencies of the New City of Bombay Mills, the New Great Eastern Mills, the Sun Mill (now Dhanraj Mills) and the Bradbury Mills.

In 1912 however, a change was made when Mr. Bradbury (in Partnership with Mr. Knowles) restricted his business to the agencies of these Mills under the style of Bradbury & Co., while Mr. Brady started an independent business as a Machinery Agent (with Mr. Kay, Mr. Lakin and Mr. Johnson as junior partners) under the style of W. H. Brady & Co.

In 1913, the latter firm was converted into a private limited liability company under the name and style of W. H. Brady & Co., Ltd , with its Head Office in Bombay. Three years later, on the death of Mr Bradbury, it took over the agencies of the Empire Dye Works, the New City of Bombay Manufacturing Co., Ltd., the New Great Eastern Spinning and Weaving Co., Ltd., and the Colaba Land & Mill Co., Ltd.

On the retirement of Mr. Brady in 1922, Sir Joseph Kay became Managing Director of the firm and its progress under his management has been considerable. In 1928 the capital was increased and the Company commenced to operate on the joint stock principle without any restrictions on its shares. Today, the operations of the concern cover an extremely wide field, for in addition to its long established textile associations, it has extended its activities over other classes of industry such as Sugar, Engineering, Printing, Insurance, etc.

Associated with the Managing Director is a body of wholetime Technical Advisers, namely, Mr. J. Symon, Mr. F. Edwards, and Mr. E. F. Morrey, while from time to time, branches have been established in other parts of India until the Company now has offices in Calcutta, Madras, Kanpur, Ahmedabad, Coimbatore, Delhi and Manchester (England).

TEXTILES.—The Company has a very large Textile Machinery Import Department which carries comprehensive stocks of the manufactures of a number of British and American firms. These firms are recognised everywhere as makers of the highest repute and amongst them may be mentioned—The British Northrop Loom Co., Ltd., Lang Bridge Ltd., Wm. Tatham Ltd. (who have a world-wide reputation for Carding and Spinning machinery for cotton waste and wool), Universal Winding Company (Patentees of the famous Leesona Winding Machines), H. Brinton Co., Hugh Kershaw & Sons Ltd., Cocker Machine & Foundry Co., Cook & Co. (Manchester) Ltd., Samuel O'Neill & Sons Ltd., Small & Parkes Ltd., F. E. Rudman & Co., Ltd., Tragasol Products, Ltd., etc., etc.

COMPANY, LIMITED

The Textile Department is also keenly alive to all changes which constantly take place in the manufacture of Cotton and Silk goods. It is always ready to advise on these changes, suggest up-to-date systems, and to supply machinery in conformity with them.

Being closely associated for more than sixty years with the Cotton Textile Trade in India, the Company has undertaken from time to time, many large contracts and in several cases has executed orders for complete Cotton and Woollen Mills to the entire satisfaction of the purchasers.

In addition to the vast textile machinery business the Company is also directly connected with the Textile Trade in its capacity of Managing Agents for the New City of Bombay Mfg. Co., Ltd, the Empire Dyeing & Mfg. Co., Ltd., and the New Great Eastern Spg. & Wvg. Co, Ltd.

ENGINEERING.—The Company has a very large general Engineering Department. It carries comprehensive stocks of the manufactures of a number of British Firms, amongst whom may be mentioned Herbert Morris Ltd, The Renold Chains Ltd., Hopkinsons Ltd., Geo. Kent Ltd, The Andrew Machine Construction Co., Ltd., G. & J. Weir Ltd., Davidson & Co., Ltd, Norris Henty & Gardners Ltd., Dicks Asbestos & Insulating Co., Ltd., Ashworth & Parker Ltd, Hick Hargreaves & Co., Ltd., Thos. Broadbent & Sons Ltd., Hoffmann Sprinkler Co., Ltd, etc, etc.

In keeping with the development of the Engineering Industry in India, a company under the name of The Brady Engineering Co., Ltd., was formed in 1946 with the object of manufacturing wholly or partially, under licence from their various Principals, such goods as have been imported in the past but which could be readily manufactured in this country.

SUGAR.—In their General Department Messrs. W. H. Brady control the management of The Belapur Co., Ltd. This pioneer Company is not only one of the largest of its kind, but has recently erected a new factory which is the most up-to date in India and is capable of crushing 1,000 tons of cane per day.

It manufactures pure Indian sugar by modern methods from cane which is grown entirely on its own estate.

PRINTING.—Messrs. W. H. Brady control the well-known Caxton Press (G. Claridge & Co, Ltd) which undertakes all kinds of Printing, Lithography, Die-Stamping, Bookbinding, etc.

INSURANCE.—Insurance is another important line of business with which the Company has been connected for a considerable number of years. The Company acts as Agents of first class British and Indian Insurance Companies, and are always in a position to give advice on, and transact practically all classes of Insurance business with the sole exception of life.

OTHER INTERESTS.—The Company handles several important agencies for goods which are consumed on a very large scale in India, and has built up an extensive connection for its imports of such proprietary articles as Nicholson Files, Nettlefold Screws, Signode Steel Strapping, etc.

CONCLUSION.—In a brief resume of the Company's operations it is impossible to enumerate a complete list of firms for whom they act as representatives, but Messrs. W. H. Brady are well-known to be a live and progressive House, staffed with experts in each branch, and possessing close connections with the Textile Trade, Engineering, the Sugar Industry, Insurance, and manifold other interests.

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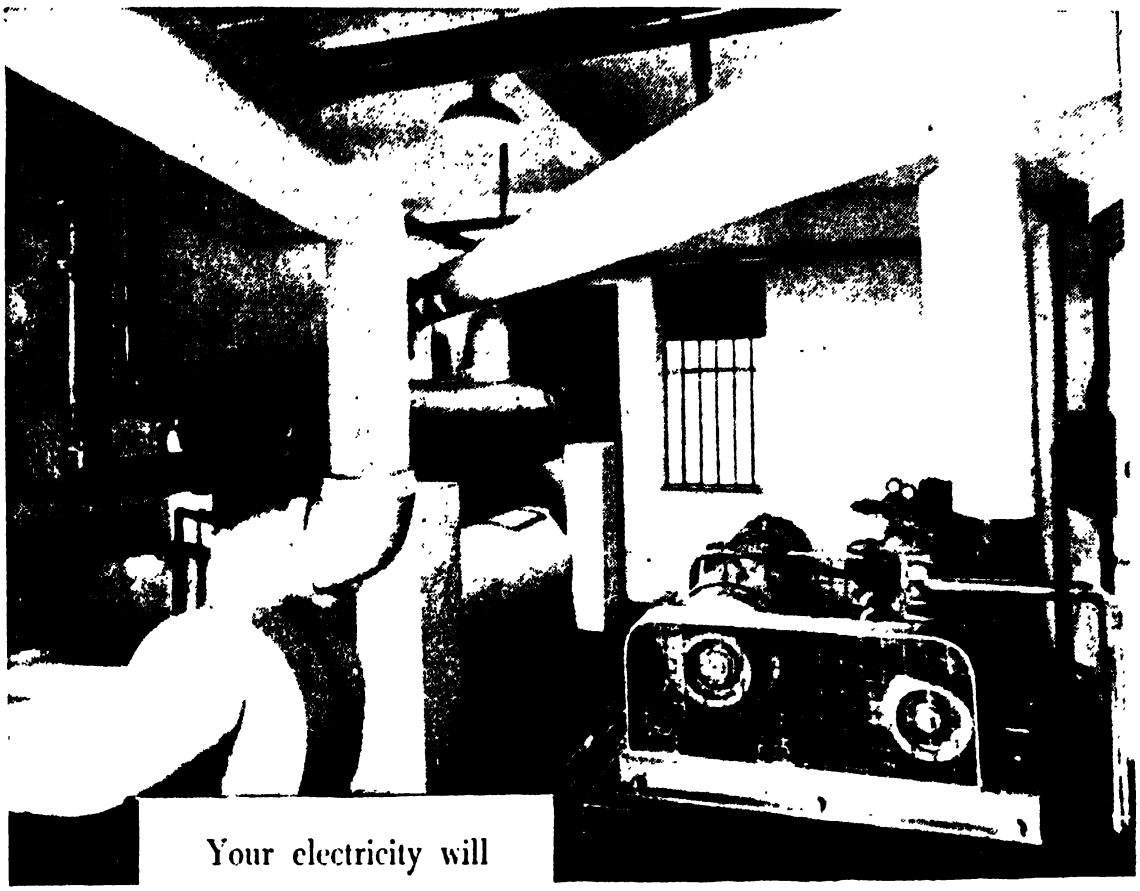
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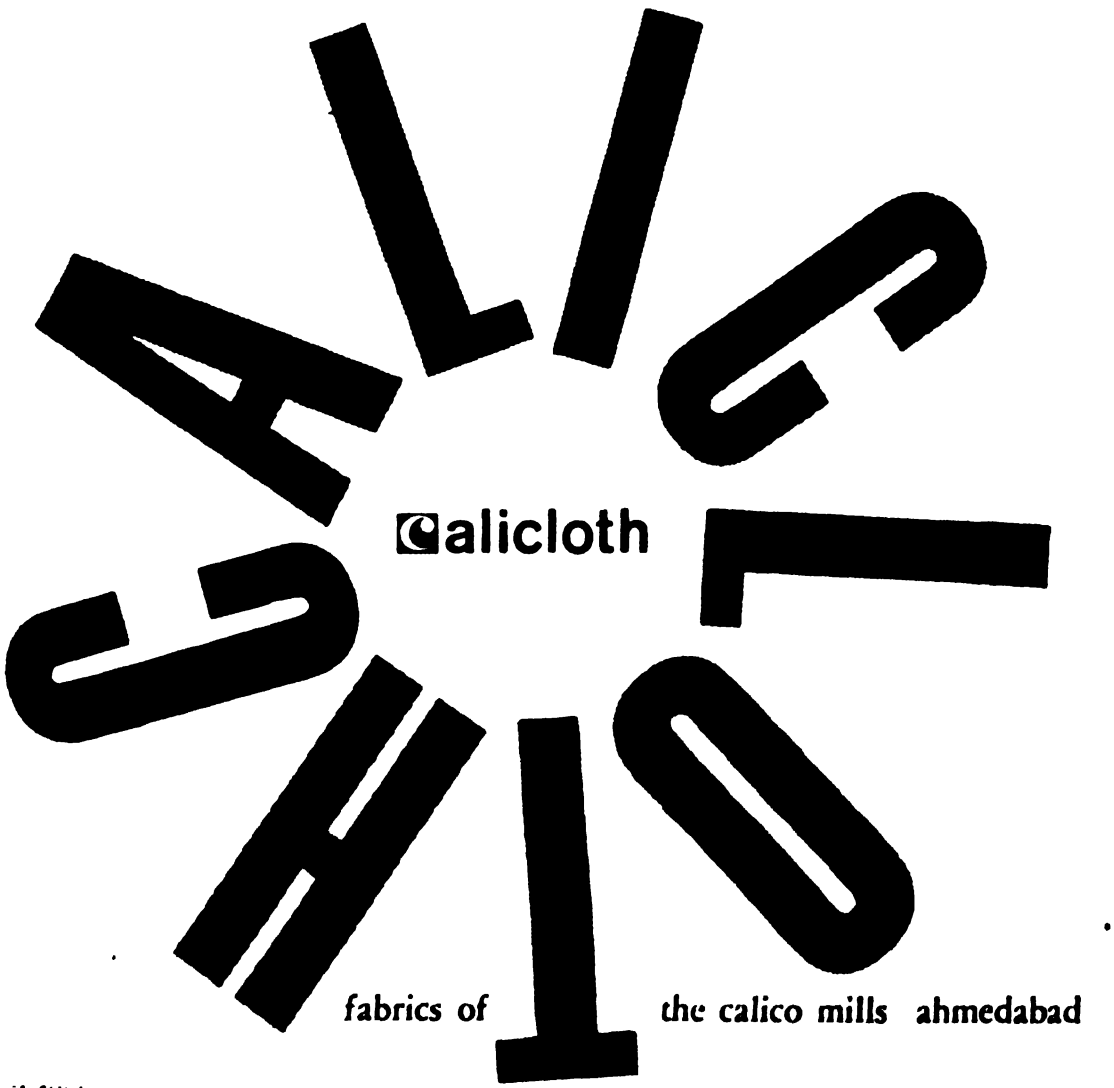
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Apart from its famous Organdie Sarees and dress material, for which it has won many awards, Calico manufactures sewing thread, anti-crease chintz, voiles, poplins, shirtings and blankets. Its research laboratory and design section are among the best. Recently, Calico Mills have introduced a new wash-wear fabric called MINIRON, which satisfies the most rigid specifications. Such developments would not have been possible without a well-equipped plant and qualified specialists and technicians. Calico Mills have sponsored the Calico Museum of Textiles, which is housed in the premises of the Mills. Ancient Indian textiles of rare value, spanning many centuries of craftsmanship, are permanently on view. The Museum also sponsors the Journal of Indian Textile History, the only periodical of its kind in the field of Indian textiles.



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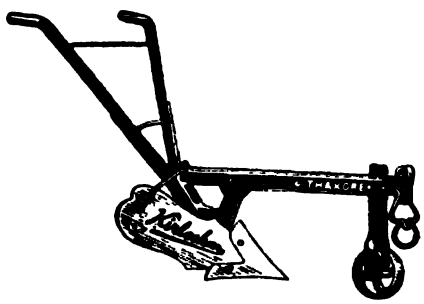
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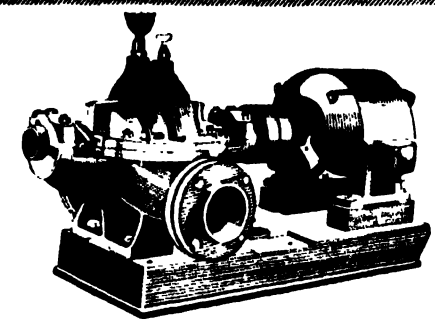
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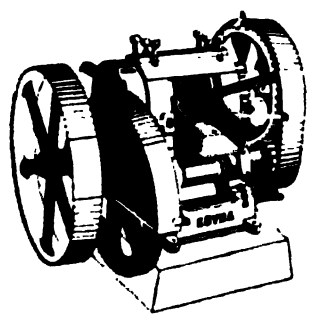
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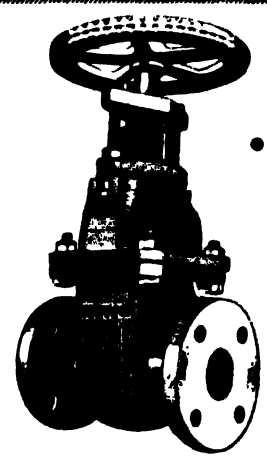
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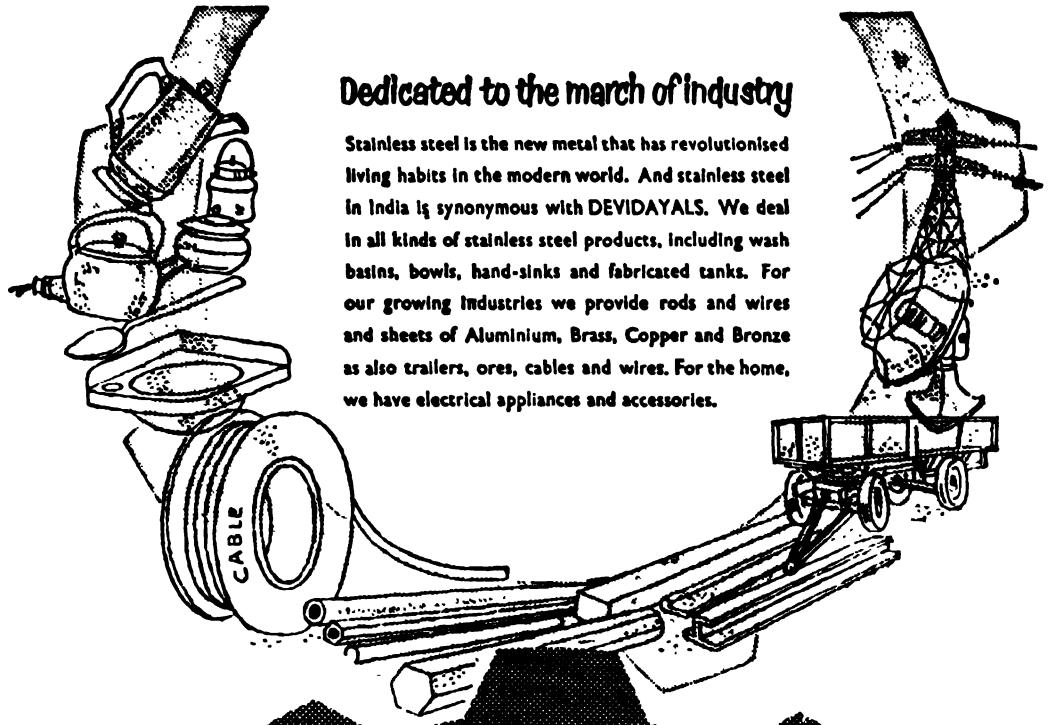
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ERRATA

P. 56 : Col. 2, line 49, instead of 'Anand Dt.' read 'Kaira Dt.'

Budgets : Detailed State budgets are given in a tabular form on p. 1,261. These figures wherever they are at variance with the earlier figures given under each State must be taken as superseding them.

Legislatures : The strength of the Bombay Council was later raised to 108 from 72 provided in the Reorganization Act which is the figure given on p. 41.

The Kashmir Assembly has a strength of 100 by statute — 25 are for the area now under foreign occupation.

The strength of the Mysore Council was raised to 63 from 52, which is the figure given on p. 41.

The strength of the Punjab Council was raised to 51 from 40 provided in the Reorganization Act which is the figure given on p. 41.

P. 109 : The figure for Andhra forest revenue : 39,13, not 89,13.

P. 136 : Bhadra Project : 61,250 million c.ft. not 61,250 c.ft. Electric power capacity 40,400 kW, not 41,040.

P. 256 : Second column, seventh line : delete 'at the end of 1957'.

P. 308 : Madras Port Trust : Personnel on p. 1,053 is later than on p. 308.

P. 360 : Mr. M. V. Rajwade has been appointed Chief Commissioner, Andamans.

P. 525 : For "Craigie, Blunt & Caroe", etc., etc., read "Mulla & Mulla and Craigie, Blunt & Caroe", Jehangir Wadia Bldg., 51, Mahatma Gandhi Road, Bombay 1. *Tel. Address :* "LEGES".

P. 554 : Under Marubeni-Iida Co., Ltd. read the address of the Bombay branch as '1st Floor, Jiji House, Ravelin Street, Bombay 1. *Cable Address :* "Marubeni", Bombay. *Tel.* 261263, 262614.'

P. 1115 : Mr. R. V. Dhulekar has been elected Chairman, U.P. Legislative Council.

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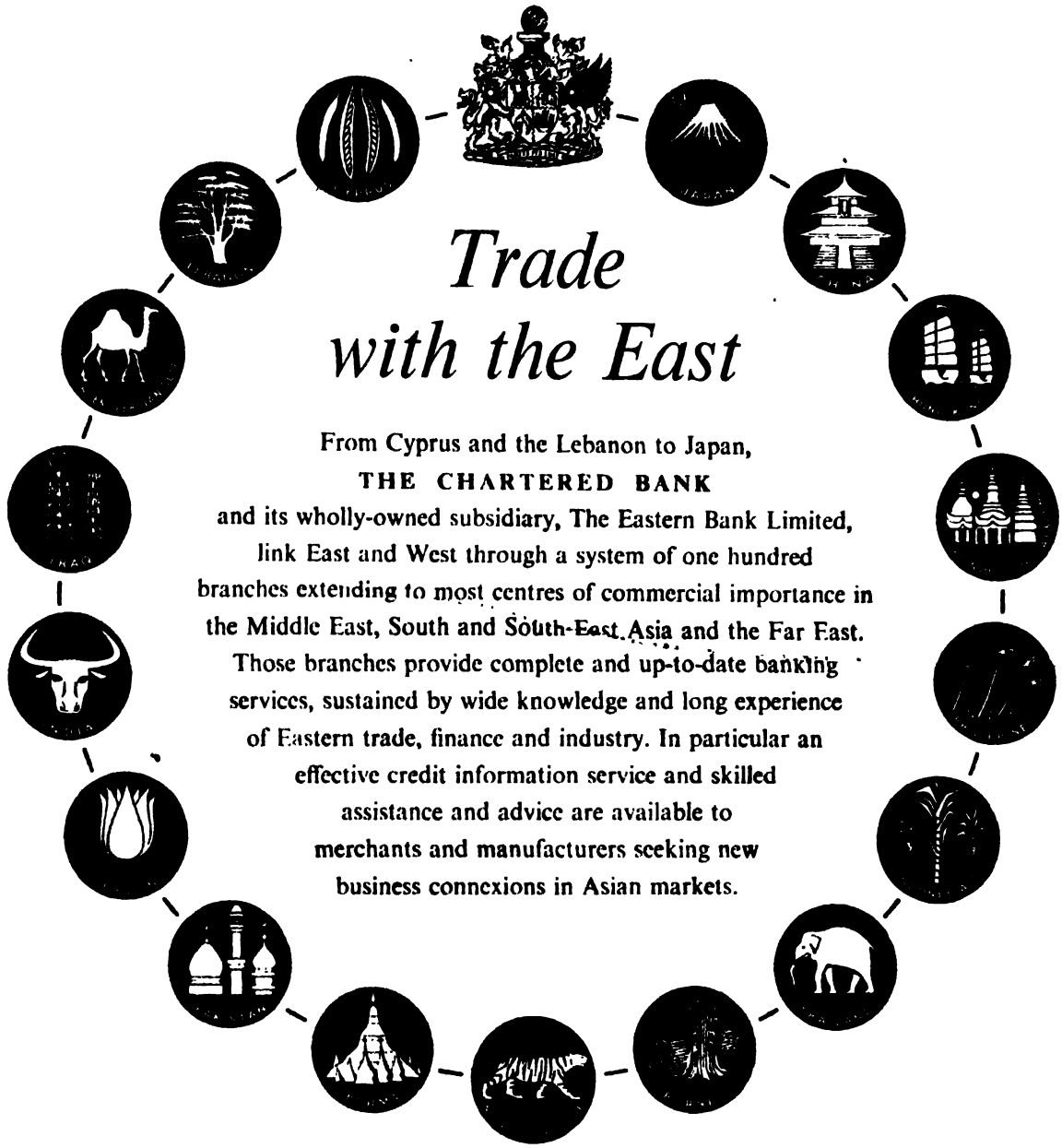
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